MERCIA WASTE MANAGEMENT ENVIRECOVER

SCHEDULE 20E - PROJECT SUPPORT INFORMATION (PART 2) DISCLOSED DATA

Document Production & Approval Record

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Document Revision Record

ISSUE NO.	DATE	DETAILS OF REVISIONS
1	16/08/2010	Draft issued for comment.
2	20/10/2010	Updated incorporating MWM's comments.
3	05/04/2012	Updated for BAFO issue
4	18/04/2012	Updated to include Hill & Moor Environmental Permit
5	17/01/2014	Updated for final Contractor proposal
6	31/03/2014	Assigned new tracker number. No changes to document.
7	13/05/2014	66kV Electrical compound layout drawing removed since it is now an appendix to schedule 20C. Laydown area lease included as Purchaser Provided Information in schedule 20E Part 1, therefore removed from Part 2. Drillers logs removed as these are included in the Site Investigation Report. Referenced drawings incorporated into main document.

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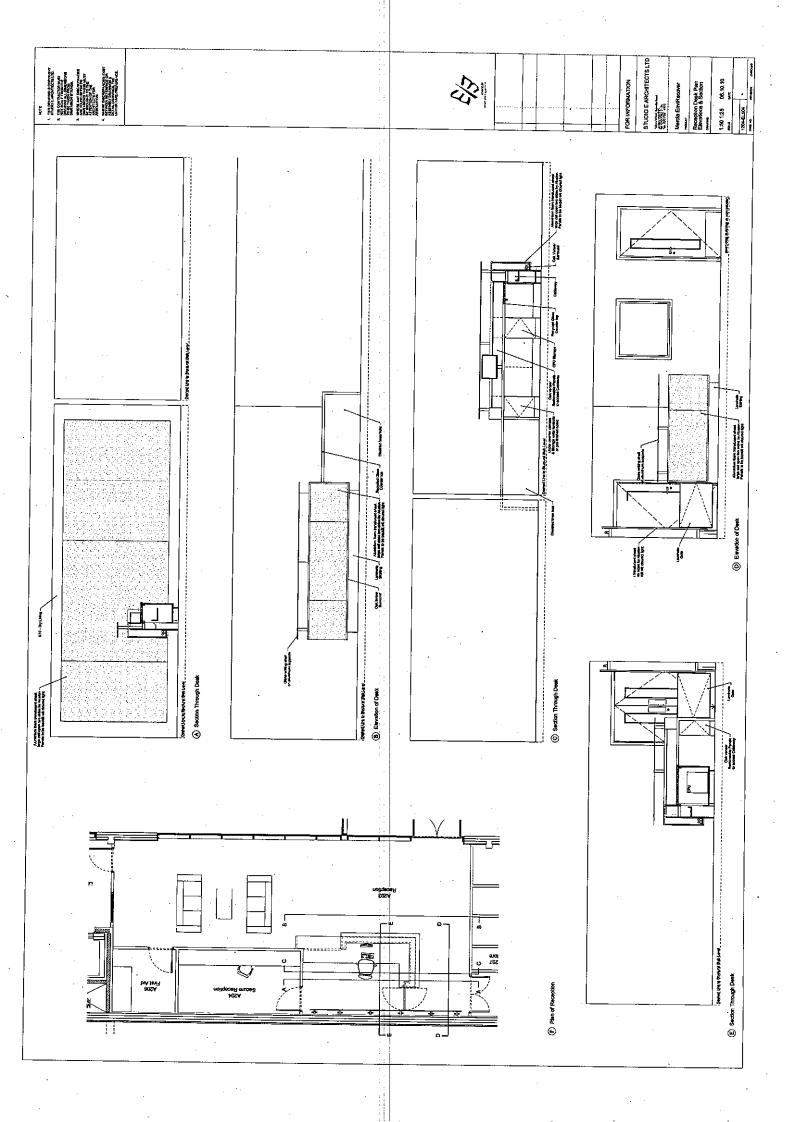
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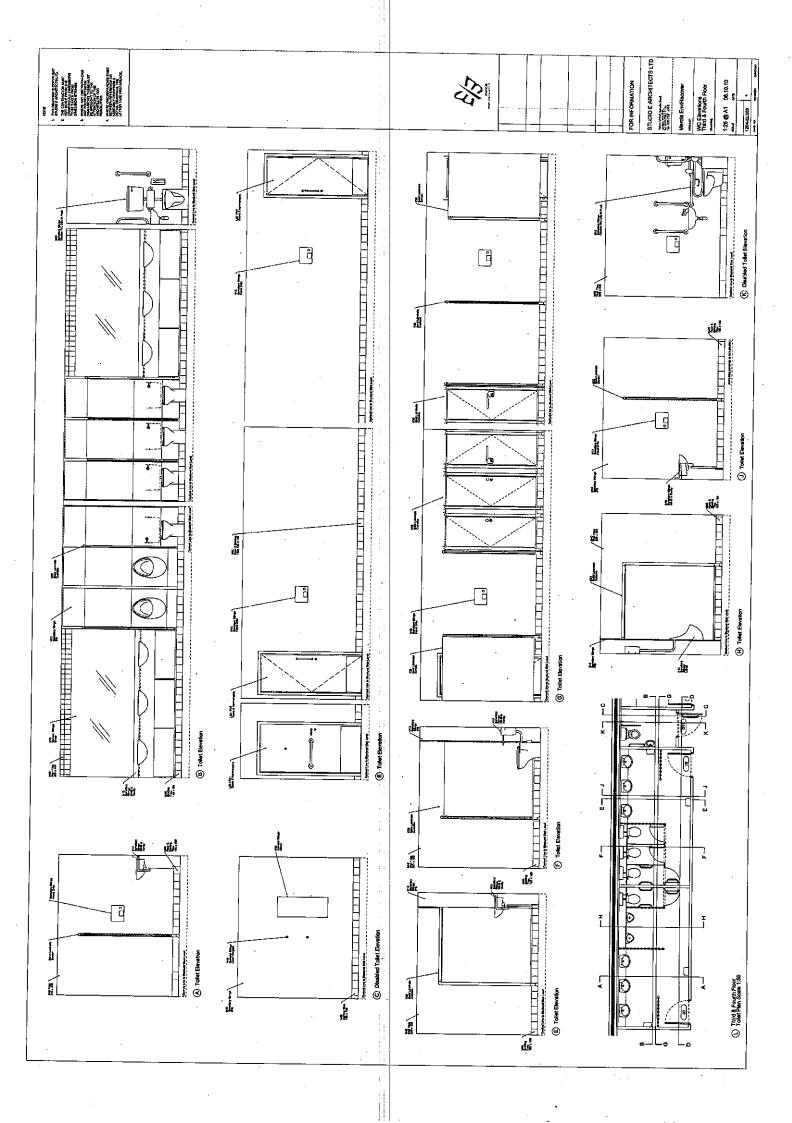
The Contractor will take into account all the information provided by the Purchaser included within this Schedule. The information included in this Schedule is Disclosed Data, which may be varied as appropriate to enable the development of the works. It is acknowledged that all parties have had ample opportunity prior to Contract award to review and familiarise themselves with the content of these documents, addressing any such significant errors or inconsistencies at this time.

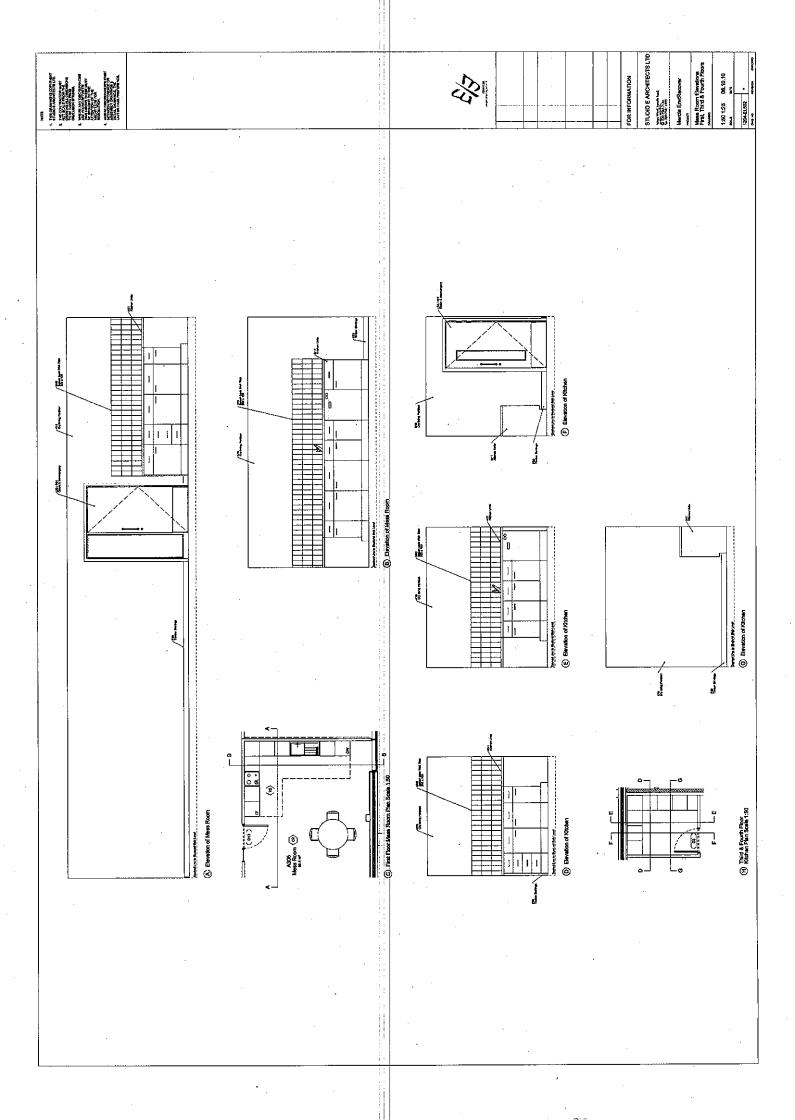
MERCIA WASTE MANAGEMENT

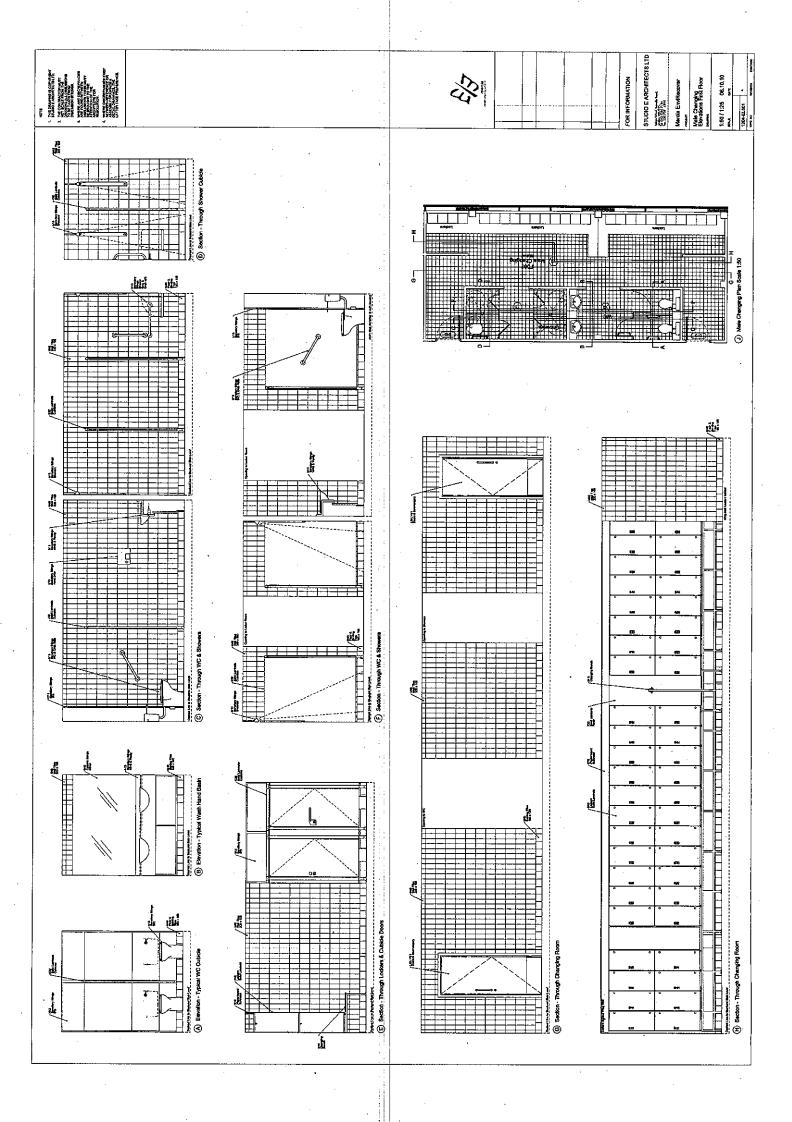
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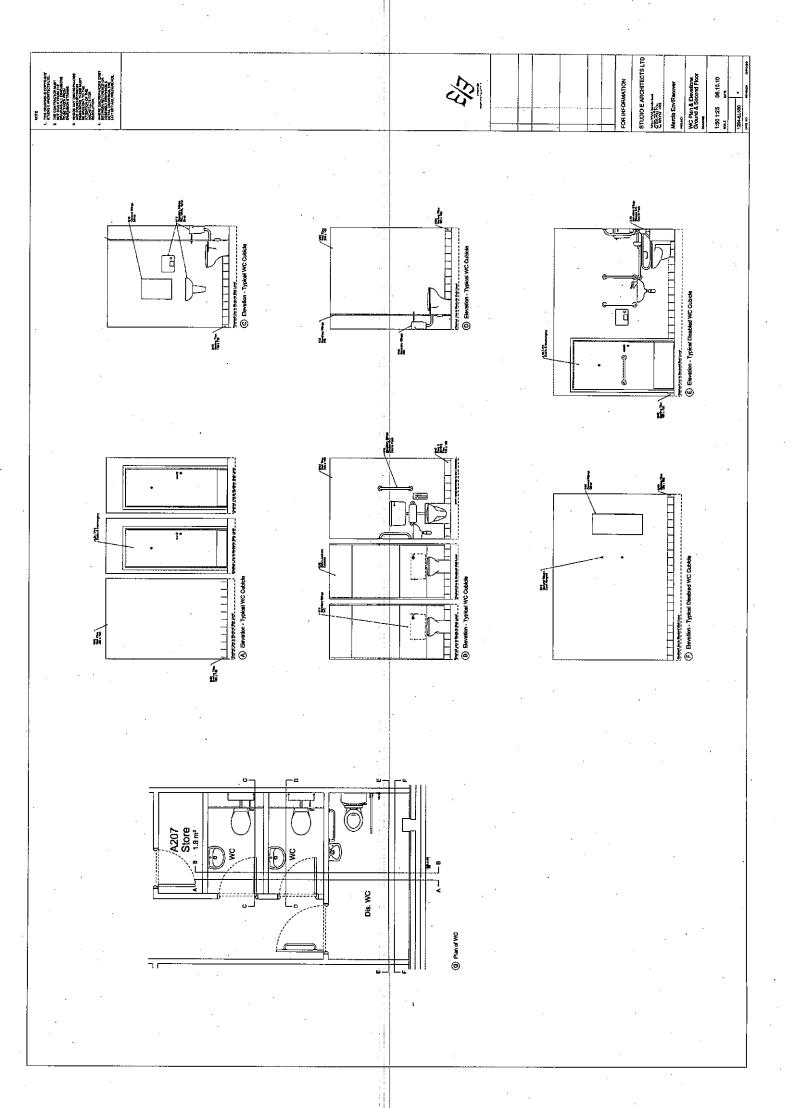
Appendix A – Architects Drawings

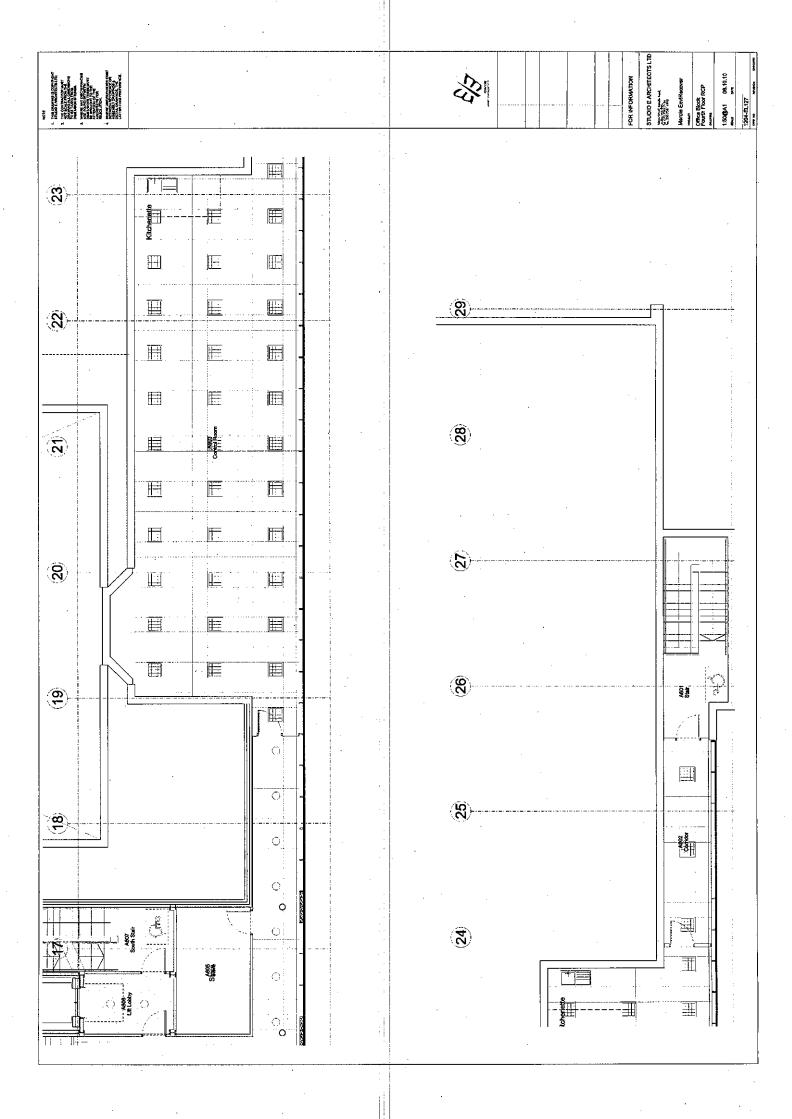


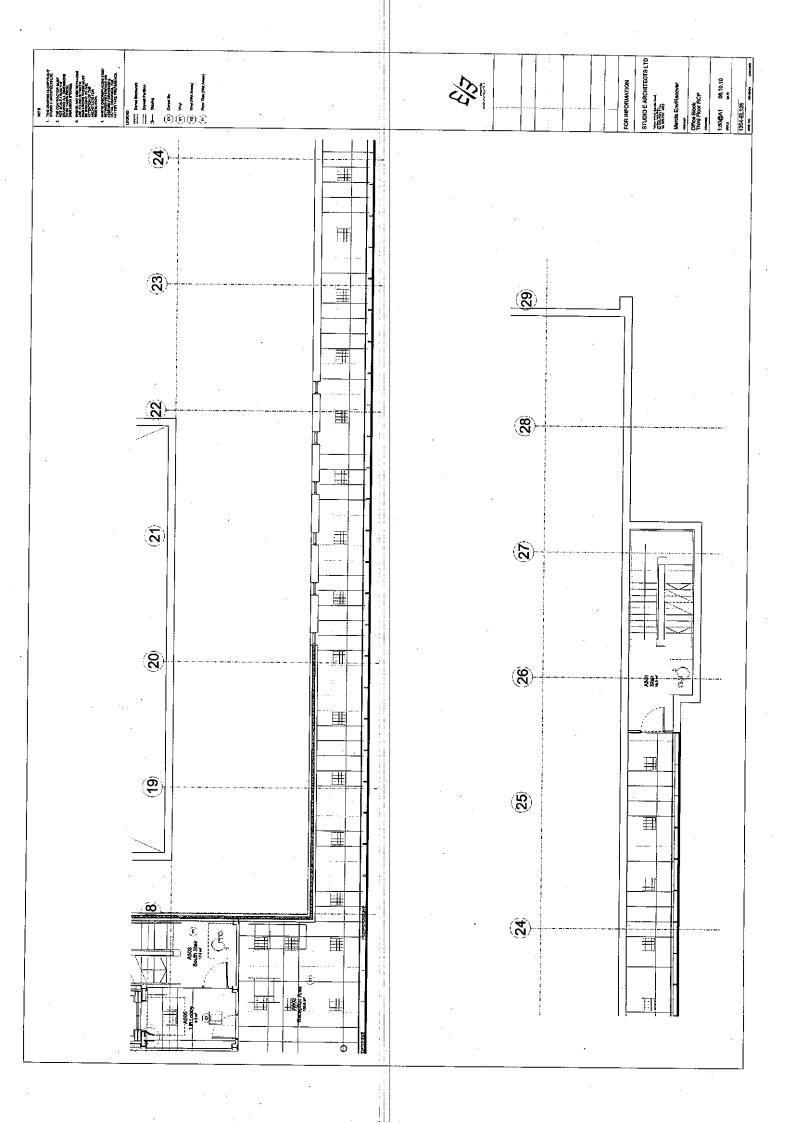


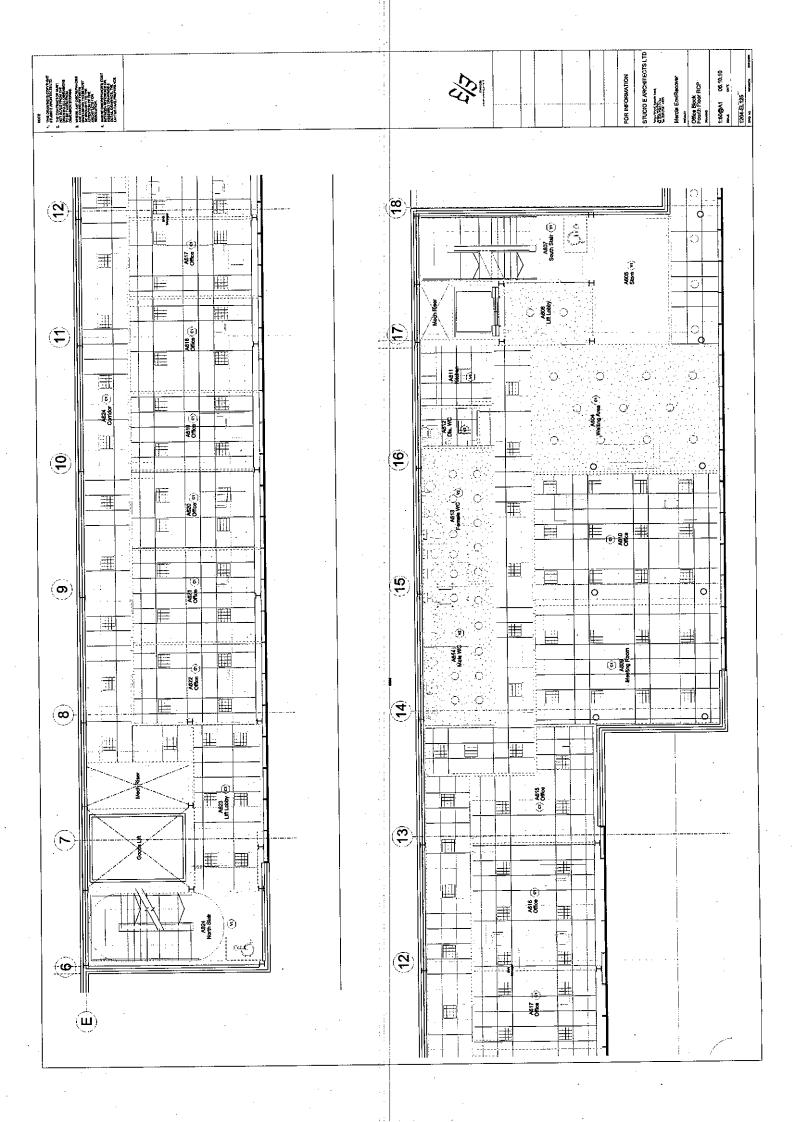


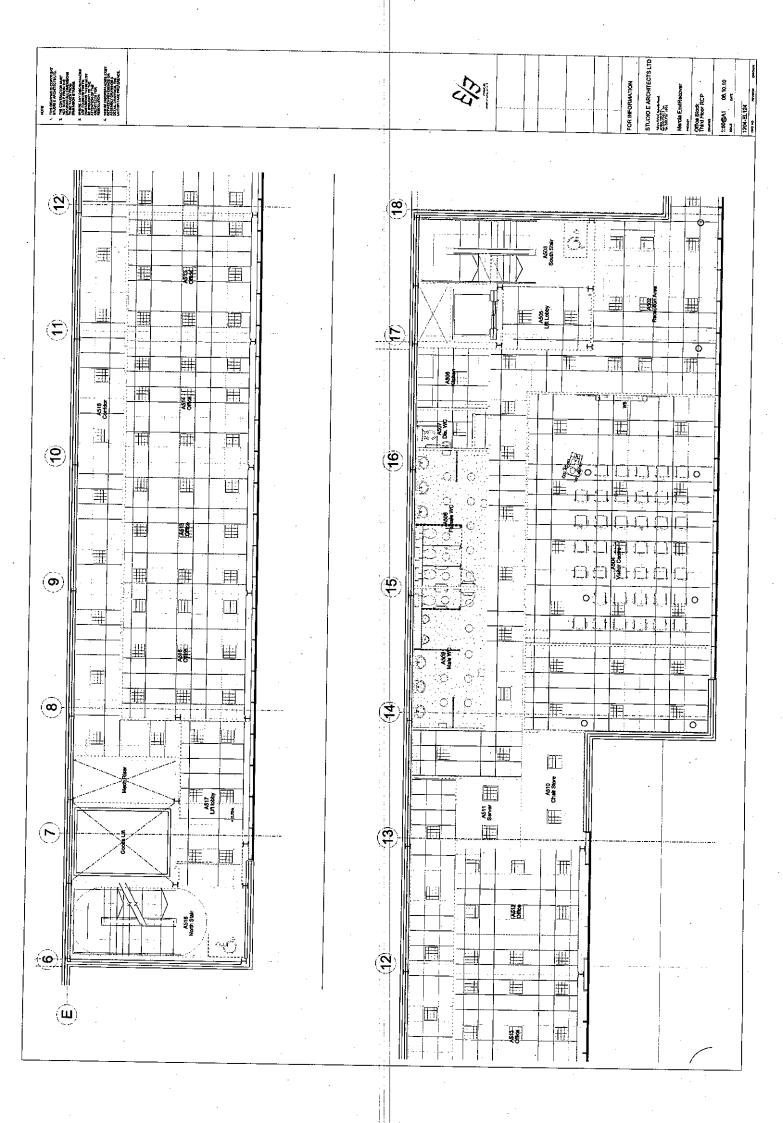


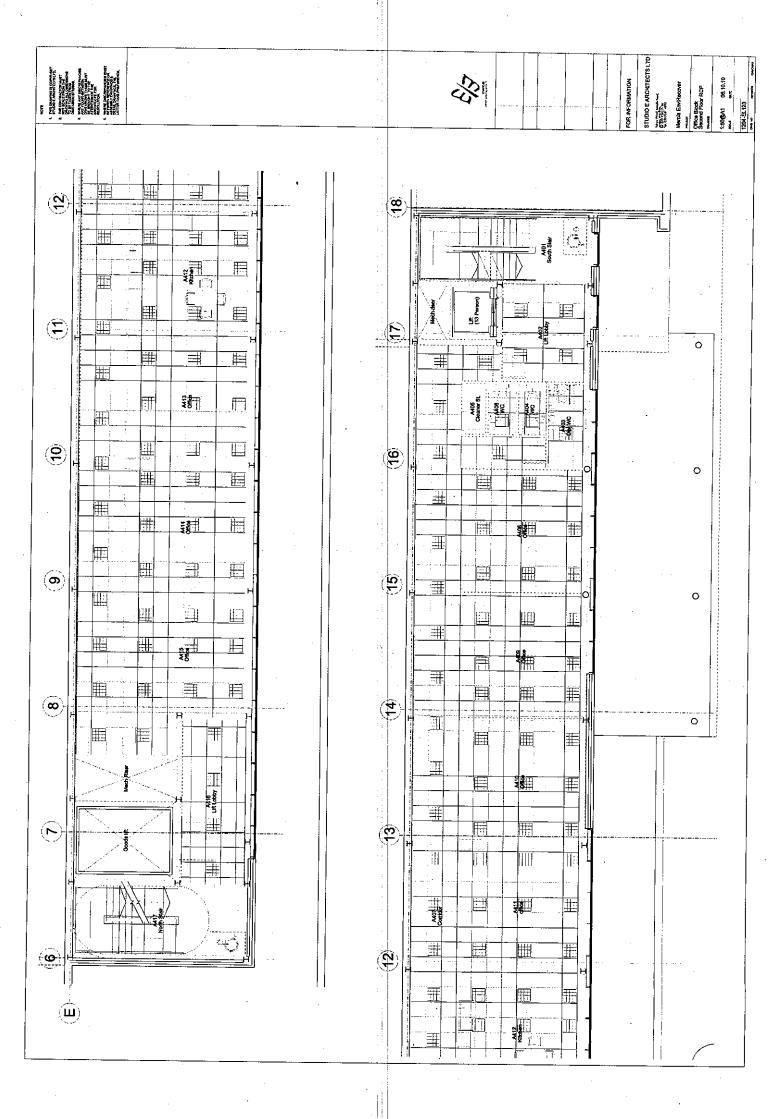


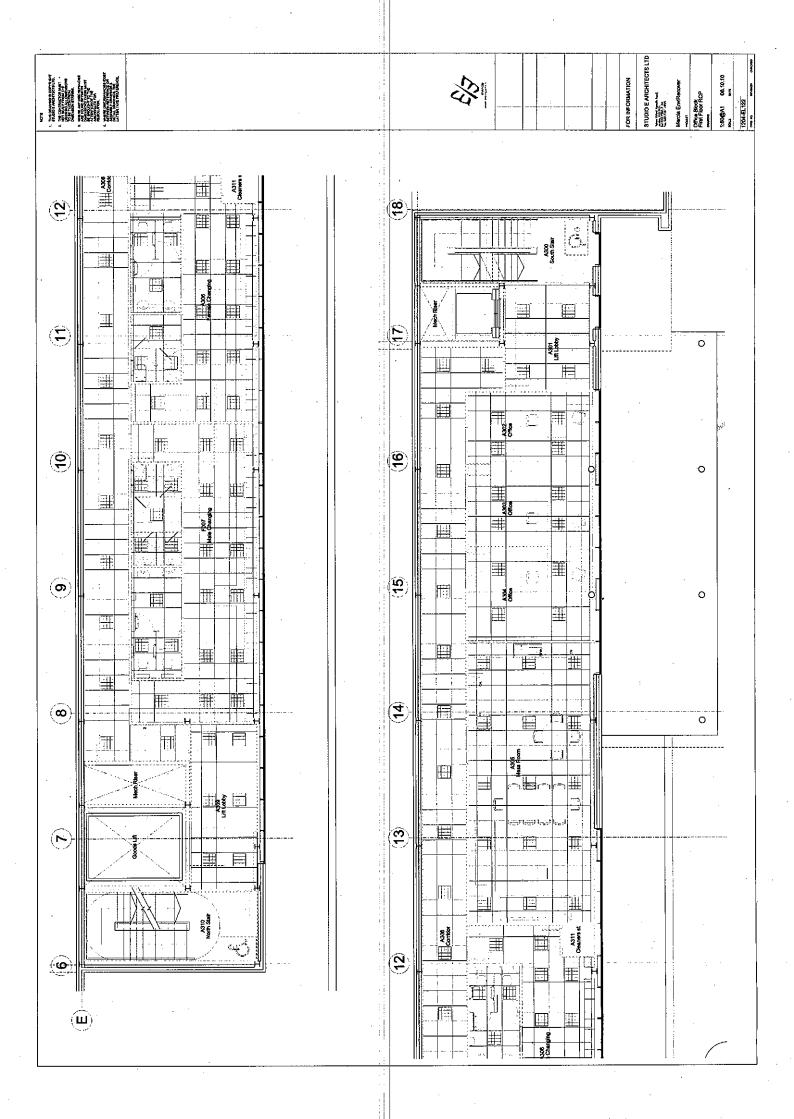


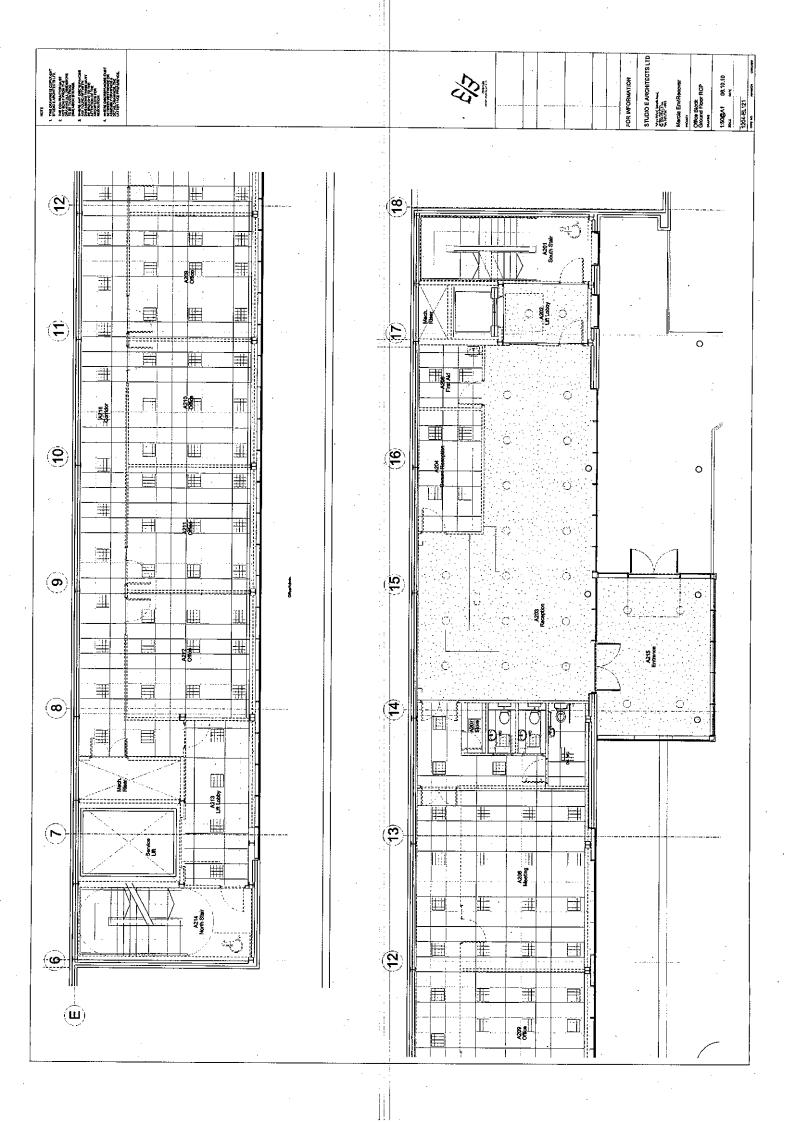


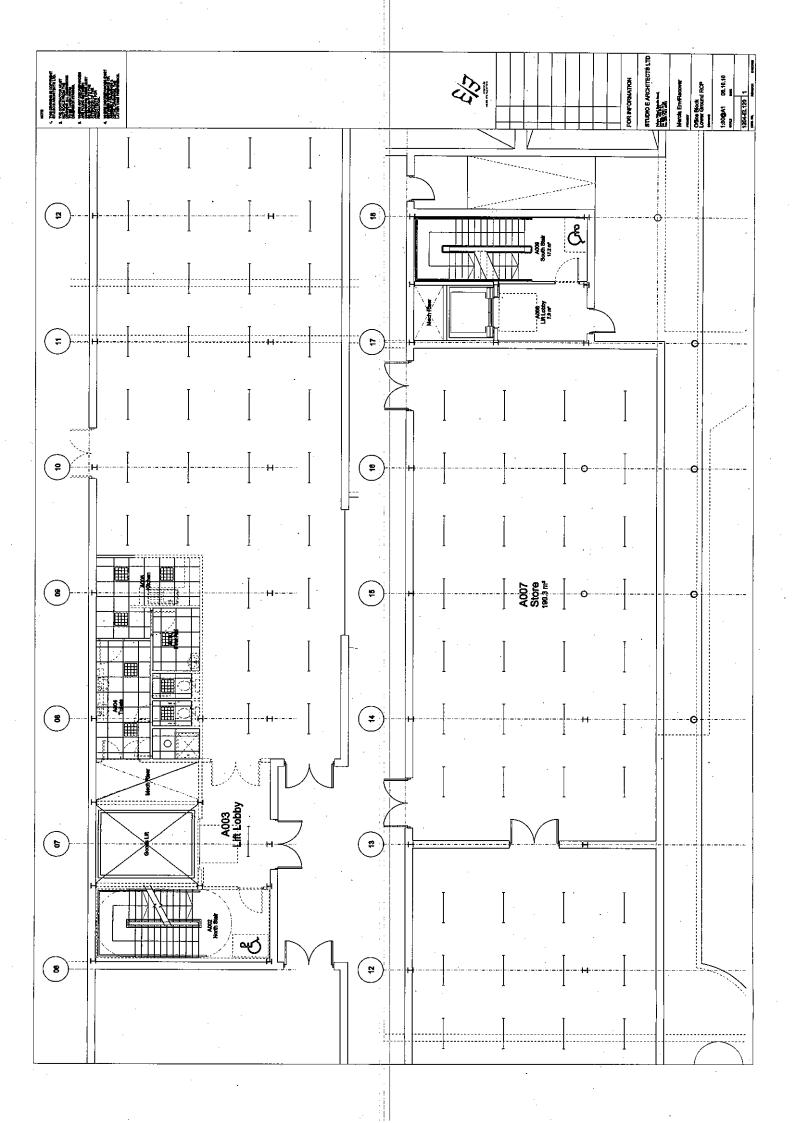


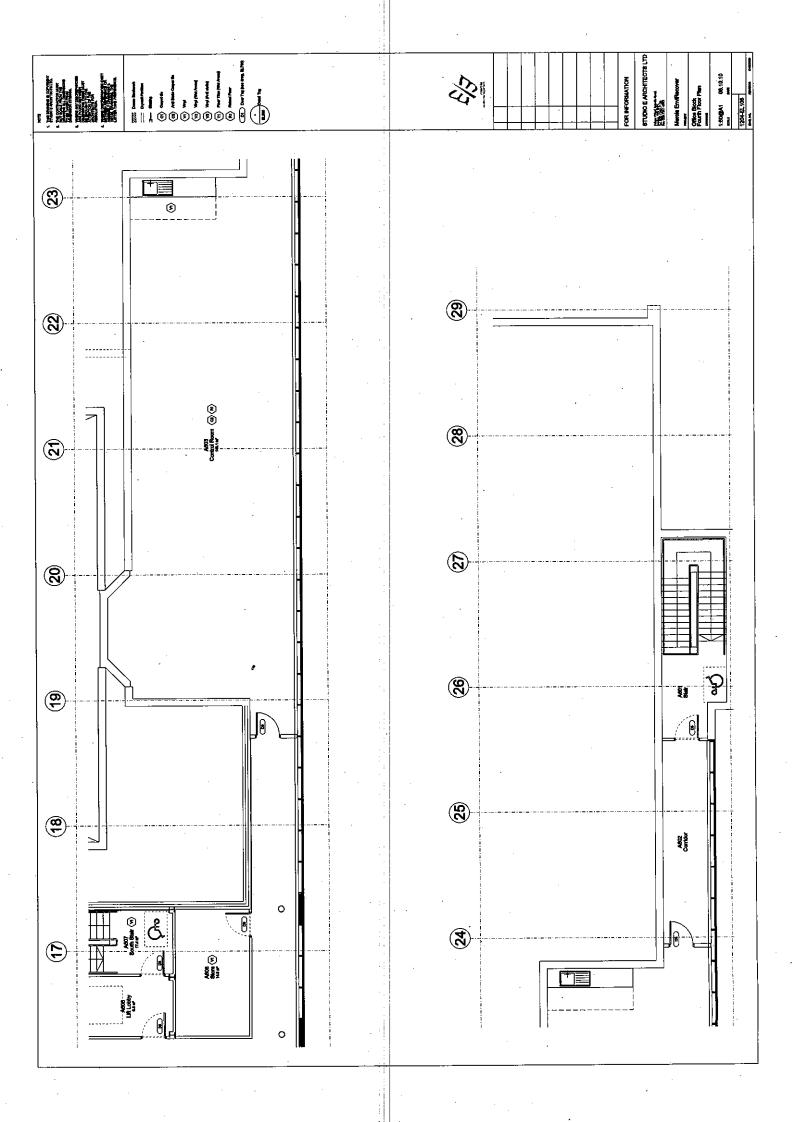


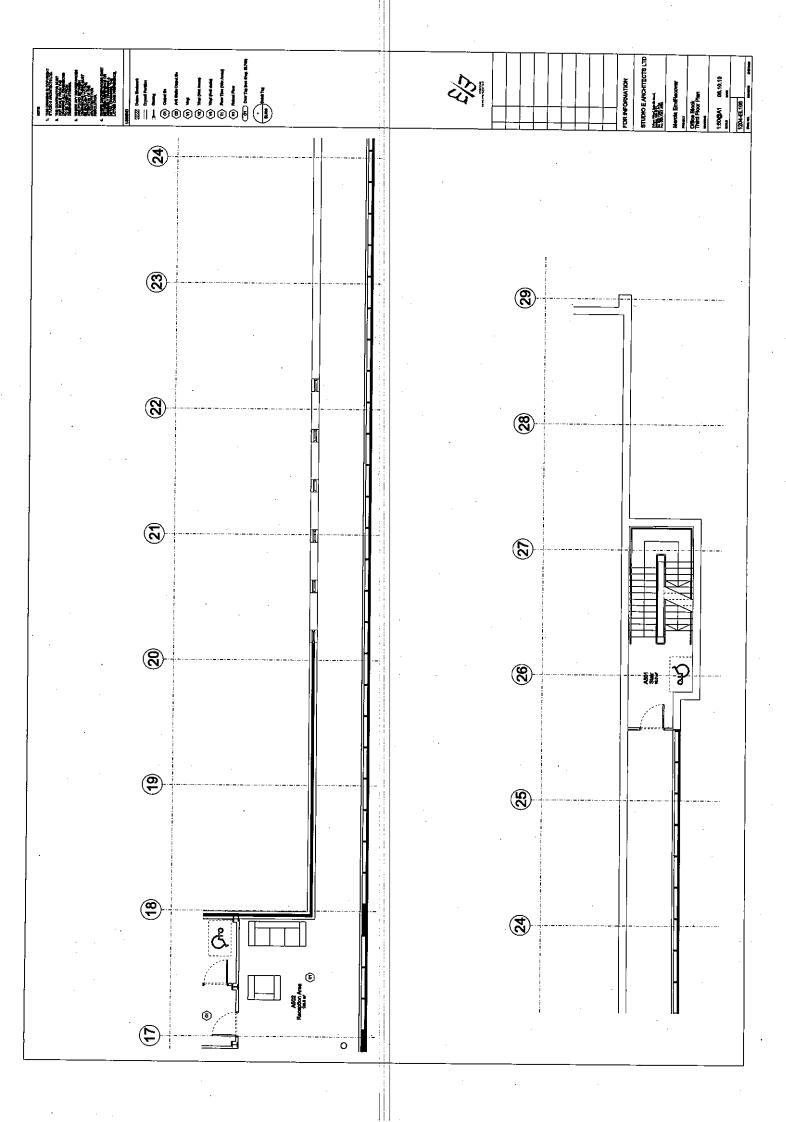


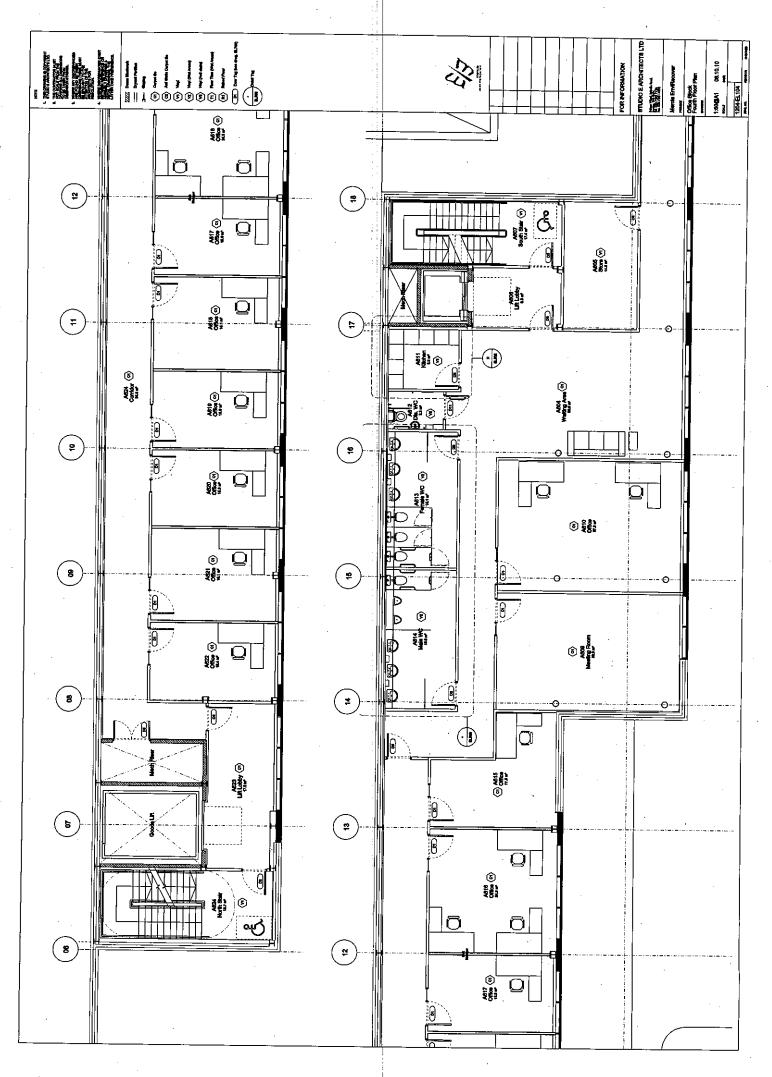


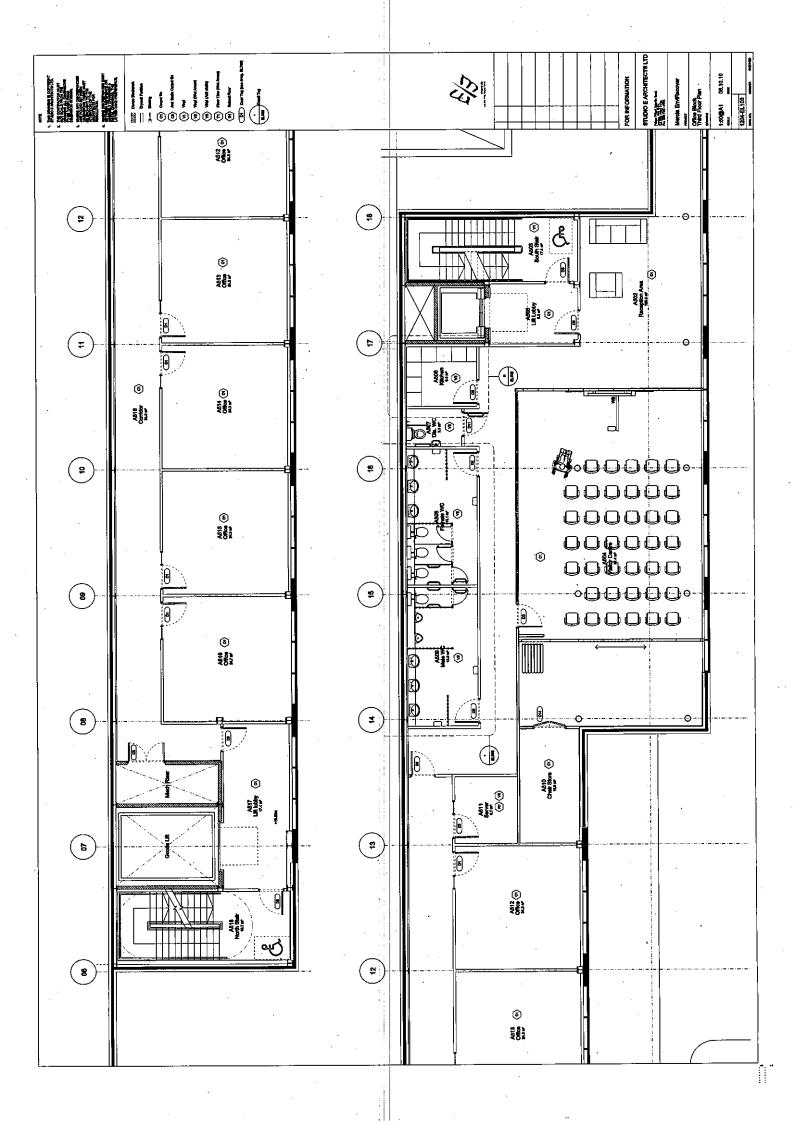


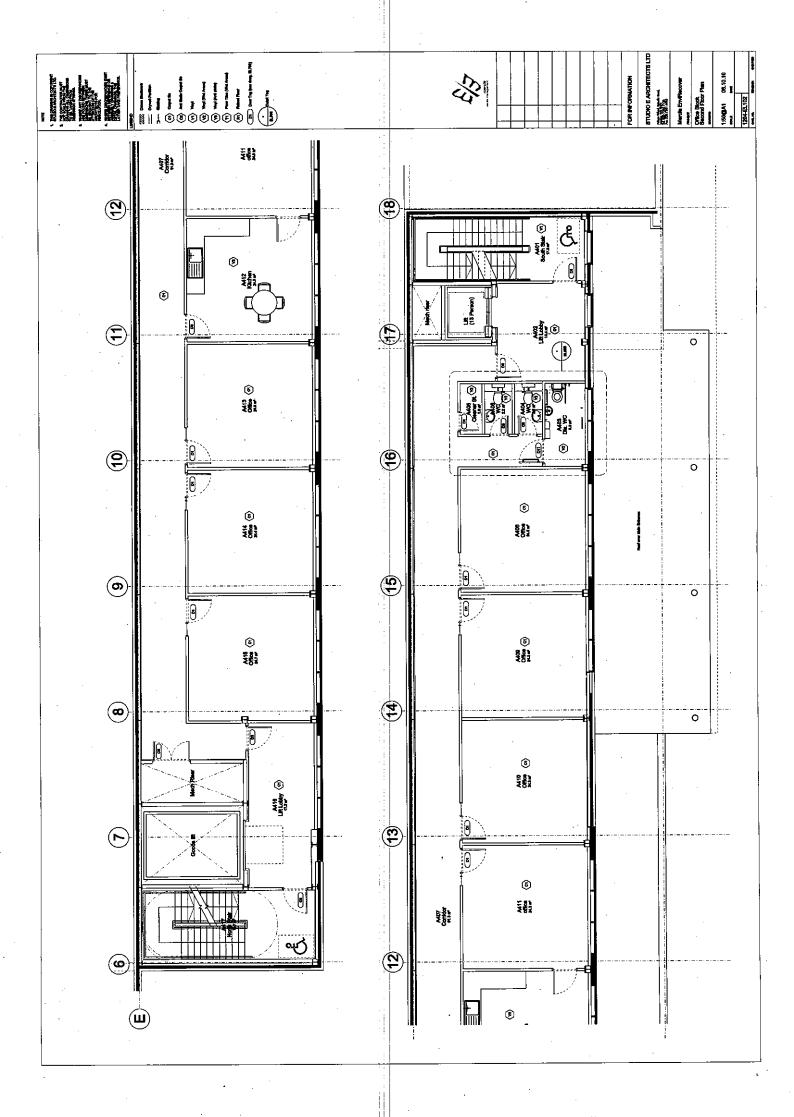


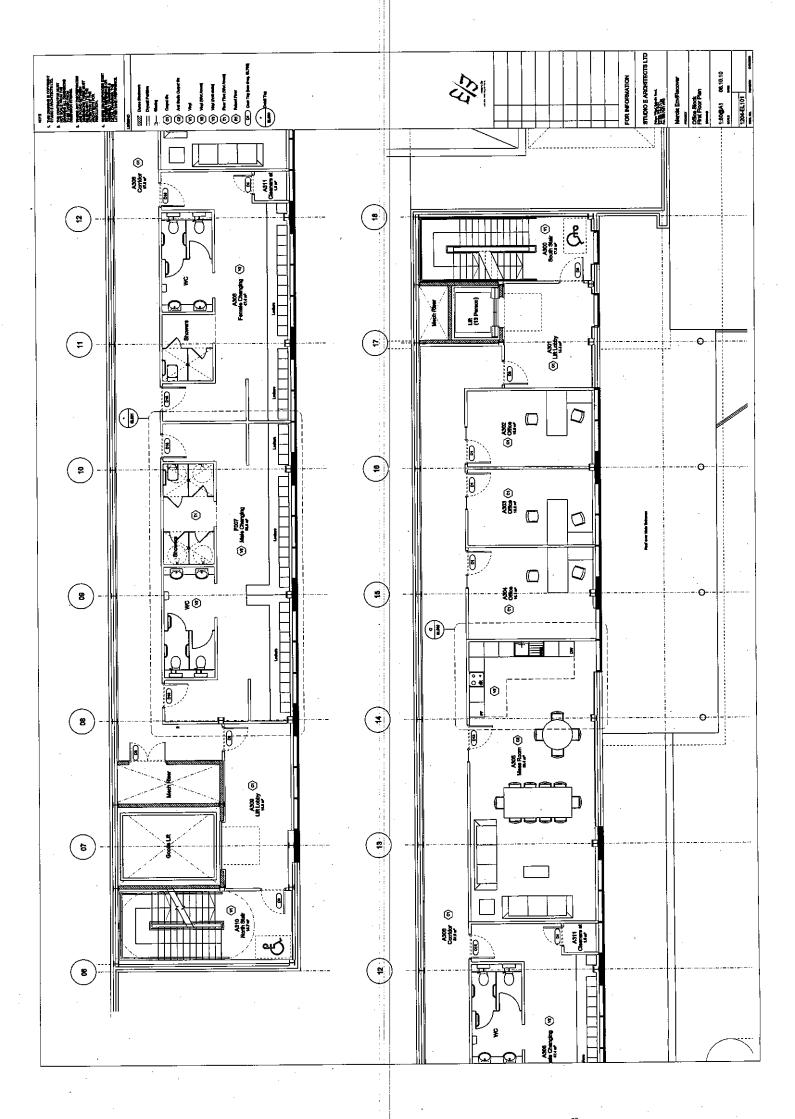


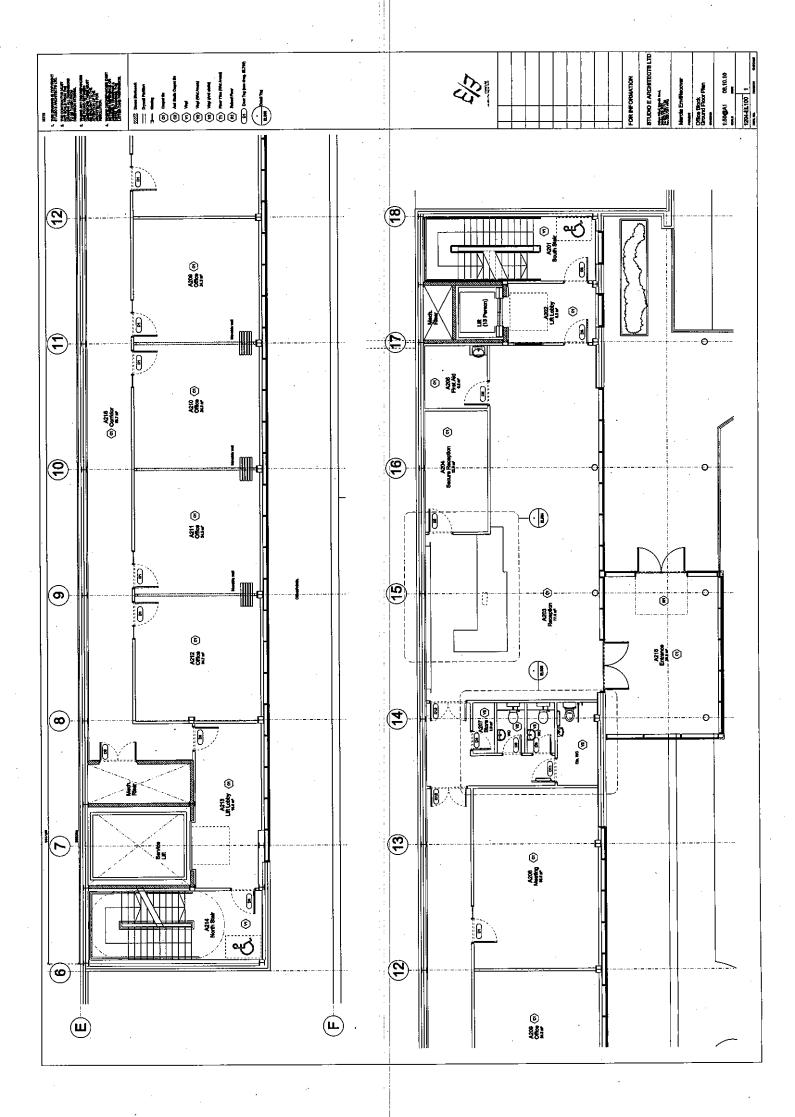


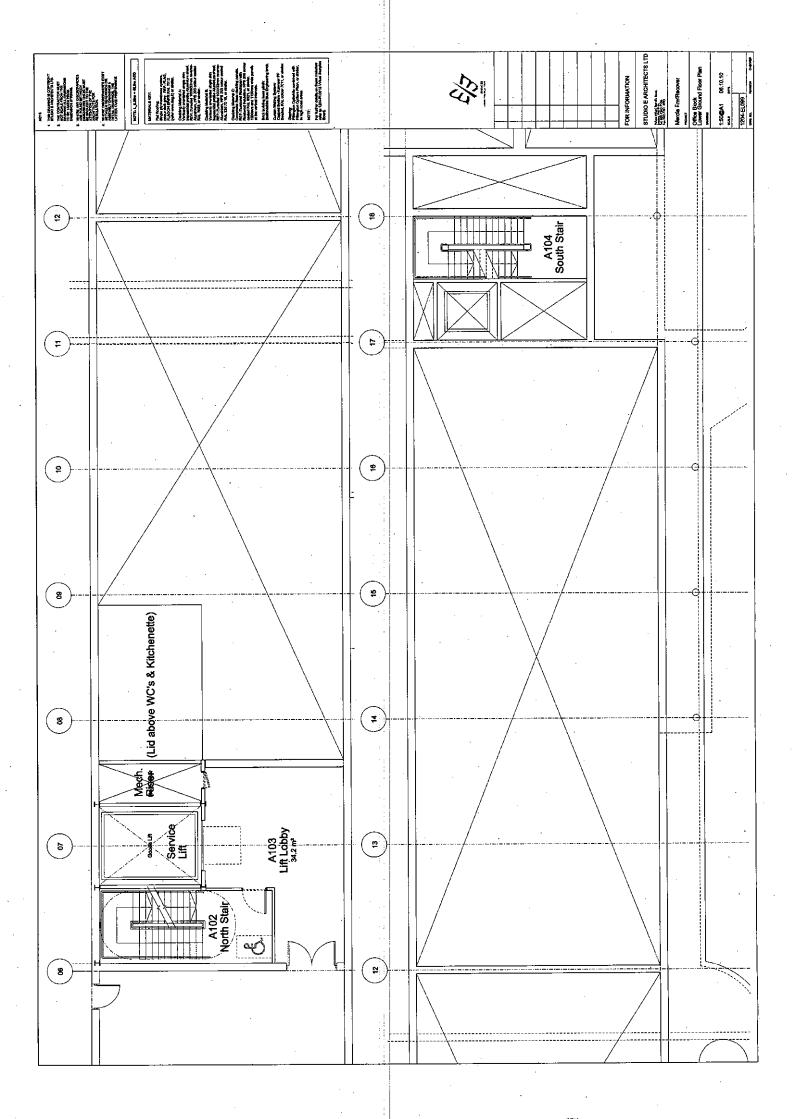


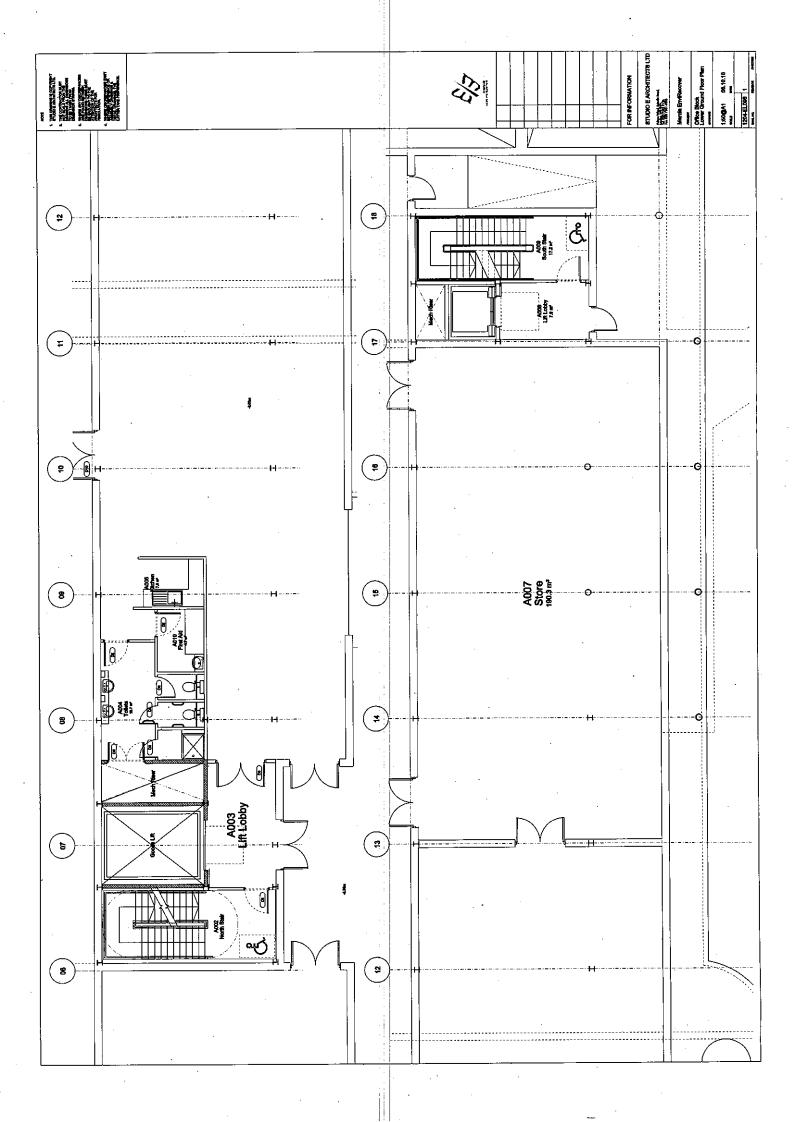


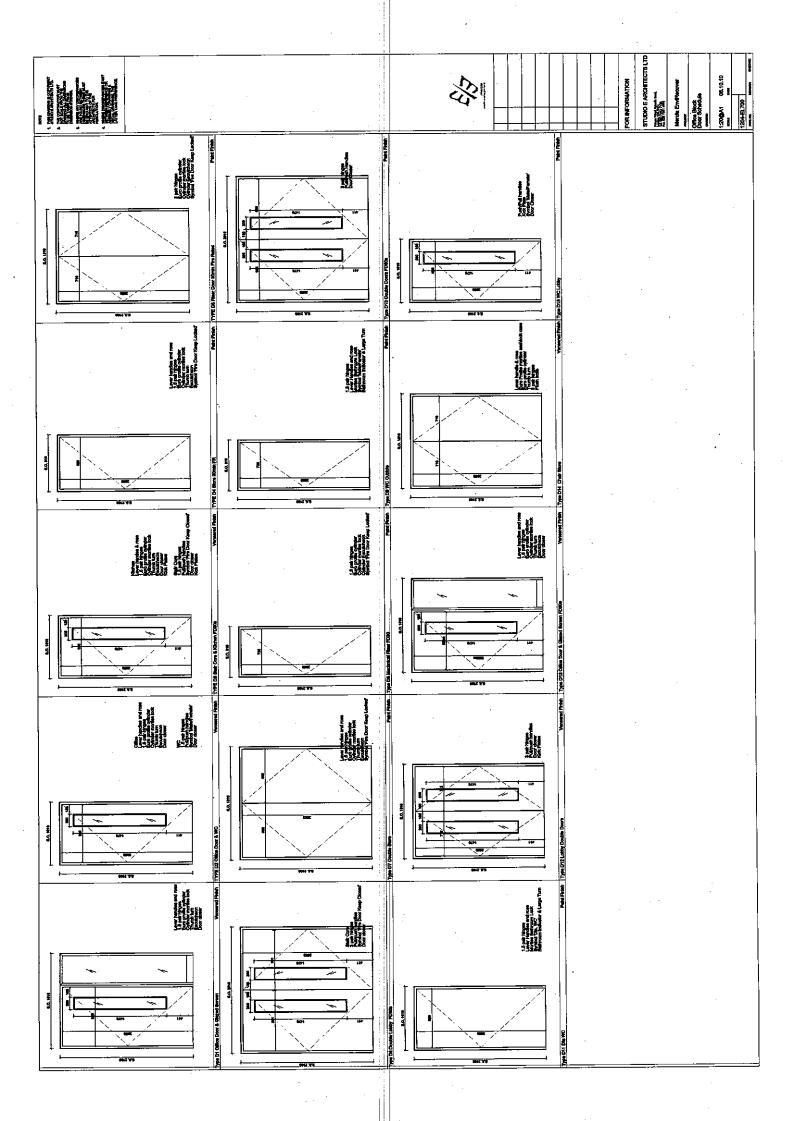












Appendix B - Architect Specification

1204 Mercia EnviRecover Office Accommodation – Finishes and Fittings Specification

NBS Spec reference E				
	Element	Description	Supplier and reference	
	Partitions/Dry lining	Metal stud & plasterboard partitions generally: - 1 x 12.5mm plasterboard to both sides of 70mm stud @ 600mm cts. - Taped and skimmed joints - Boards to extend full height for acoustic separation between rooms. - 25mm isowool insulation to achieve a max. 42dB acoustic insulation throughout.	British Gypsum	
ì	round	nm fire line ormance	British Gypsum	-
K10 b	Wall lining system to blockwork	1 layer of plasterboard to liner channel	British Gypsum	-
K40 8	Suspended Ceilings	Lay in grid ceilings generally: - 600 x 600 24mm grid - Mineral acoustic tiles	Armstrong "Dune Max Tegular"	
			-	
K40	Plasterboard margins/cellings	Gypsum MF system 1 layer of 12.5mm plasterboard	British Gypsum	
150	Veneer Doors Fire and non fire rated	44mm thk. Solid timber doors veneered with Hardwood lipping refer to door schedule and plans	FSC accredited	
120	Paint Grade Riser Doors Fire and non Fire Rated	44mm thk. Paint Grade doors refer to door schedule and plans	FSC accredited	
170	Doors – sliding folding	Acoustic rating: 44dB	Kaba Hufcor, London Wall etc	,
P20	Architraves/skirting/window board	Timber architraves to match door veneer Painted MDF Skirting Painted MDF window boards	FSC accredited FSC accredited FSC accredited	
P20	Pattress	Internal quality plywood inserted into partitions to provide fixing points for handrails.	FSC accredited	



,					
	NBS Spec reference	Element	Description	Supplier and reference	
	P21	Ironmongery	Satin Stainless steel Refer to door schedule	NT Laidlaw - Orbis Range	
			·		
		Access Control	Keypad/swipe card access as necessary		
	L10	Internal glazed screens	12.8mm laminated glass to offices	Optima 117	
	L10	Fire rated Internal glazed screens to GF lobby and kitchen	15mm pyrostop		
	M50	Floor Coverings – offices, passages,	Carpet tile 500x500	Desso "Essence"	
	MSO	Floor finish – toilets, kitchen, mess room	Sheet vinyl anti-slip	Armstrong "Safeguard"	
<u></u>	M50	Floor finishes – wet areas	Ceramic tile 150x150 Category "C" slip resistance Universal skirting tiles"	Swedecor "Kartal"	
<u></u>	М60	Stairs – handrails	Painted steel	1,000	



1204 Mercia EnviRecover Office Accommodation – Finishes and Fittings Specification

	1			
NBS Spec reference	Element	Description	Supplier and reference	e Property of the Property of
M50	Stairs - Flooring	Vinyl as above		
		Nosings: Aluminium nosing strips with PVC inserts	Gradus	ジング
	· .			
M60	Paint finish	Emulsion walls and ceilings	Crown paints	
		Gloss to timber		
		GIOSS TO TIESE WOLK		
Sanitaryware				
N13	WC / Wash hand basins	Mid-range	Twyford Galerie	
		- Wall mounted WC pans with concealed cisterns - Vanity inset wash hand basins		
ļ				
N13	Ambulant WC	Part M package	Twyford	
	Brassware	To M&E engineer		
N10	Entrance mat		Nuway Tuftiguard Classic 12mm - Aluminium scraper hars	
			1	
	-	The state of the s		
Fittings				



1204 Mercia EnviRecover Office Accommodation – Finishes and Fittings Specification

stable transpersent				
NBS Spec reference	Element	Description	Supplier and reference	
N10	Toilet and shower Cubicles	Solid grade laminate cubicles and doors Solid grade laminate duct panel systems	Prospec Marathon 600/700	
N10	Lockers	Solid grade laminate doors; aluminium door frames Standard CAM locking	Prospec Marathon Lockers	
N10	Reception desk	Back lit Aluminium Foam Panels for front of desk & Wall cladding	Alusion Large Cell Open Two Sides (Translucent) AL-FG-0,5-LG-2S	
	Reception desk	Counter / worktop	Glasseco Ecocrete Lite	
N10	Blinds	Internal roller blinds to external windows	Levolux 710 Roller Blind	
N11	Kitchen	Base/wall units as indicated on drawings	-	
-				

STUDIO E ARCHITECTS

DOM DATAS				<u> </u>			
		14			File Ref		
m Name	Corridor				Date of origin:	Aug-10	
m Number	A625				Level		
General		<u> </u>		il		1 001111 1001 (4)	
Use	Corridor	7		++	·	 	-
						•	
Occupancy		·		+	-	 -	
1		•			•		
Dimensions	Area (m2)	54.5		1	· -		
						•	
	1			1			
	<u></u>			:	<u> </u>		•
Fire				-	<u></u>		
<u> </u>							
					Spec Ref		
	T				M10	-	
Finish	Carpet						
				;			
100.00				1			
Walls							-
		Lining	•	-		•	
i Finish	Paint				M60		**
Callings	1 - 1 - 1 - 1 - 1 - 1			+	·	·	
Cellings	Lay in Mineral Tile	!		-	K10		
Doorle &	NI/A				 		<u></u>
							•
Cock Type		•		.			,
Degree of				+	-		
	[-			
	N/A			+			· <u>.</u>
Glazed Screen	N/A					 -	
		•				-	
Services - Refer to	Services Specific	ation		\dagger			-
Environment	Winter Temp °C		Air Humidity	1	Vent supply	Vent Extract	Control
	20degC	not controlled	not controlle	_	not controlled	not controlled	none
Lighting			Control			Control Gear	
				1.1			
	light along comidor	to light faces	E or other	Н.	Time control		
	light along corridor	to light faces	W-97-000-07-000-07-000-07-000-07-000-07-000-07-000-07-000-07-07		Manual switching		
Acoustic Req'mts	light along corridor	to light faces	Management of the Control of the Con			<u> </u>	
Requirements			8000 (80 A) 10 A) 17 A) 18 A) A) 18 A) 18 A) 18 A) 18 A)				· .
Requirements	light along comdor	to light faces Computer	Fax			FM socket	Other
Requirements Communications	Telephone		Fax		Manual switching	FM socket	Other
Requirements			Fax		Manual switching	FM socket	Other
Requirements Communications Power sockets	Telephone Cleaners socket		Fax	-	Manual switching	FM socket	Other
Requirements Communications Power sockets Panic Alarm/	Telephone		Fax		Manual switching	FM socket	Other
Requirements Communications Power sockets Panic Alarm/ Security	Telephone Cleaners socket		Fax		Manual switching	FM socket	Other
Requirements Communications Power sockets Panic Alarm/	Telephone Cleaners socket		Fax		Manual switching	FM socket	Other
Requirements Communications Power sockets Panic Alarm/ Security	Telephone Cleaners socket		Fax		Manual switching	FM socket	Other
	General Use Occupancy Dimensions Planning Relationships Fire Building Elements Floors Finish Walls Finish Ceilings Door/s & Lock Type Degree of Privacy Windows Glazed Screen Services - Refer to Environment	m Name	m Name Corridor M Number A625 General Use Corridor Occupancy Dimensions Area (m2) 54.5 Planning Relationships Fire Building Elements Floors Finish Carpet Walls Plasterboard Partitions Plasterboard Wall Lining Paint Ceilings Lay in Mineral Tile Door/s & N/A Lock Type Degree of Privacy Windows N/A Glazed Screen N/A Services - Refer to Services Specification Environment Winter Temp °C Summer Temp °C 20degC not controlled	m Name Corridor m Number A625 General Use Corridor Occupancy Dimensions Area (m2) 54.5 Planning Relationships Fire Building Elements Floors Finish Carpet Walls Plasterboard Partitions Plasterboard Wall Lining Paint Ceilings Lay in Mineral Tile Door/s & N/A Lock Type Degree of Privacy Windows N/A Glazed Screen N/A Services - Refer to Services Specification Environment Winter Temp °C Summer Temp °C Air Humidity 20degC not controlled not controlled	m Name	Manumber A625	m Name

STUDIO **E** ARCHITECTS

	OM DATA S					_	Fil- D-f			
Ргоје		1204					File Ref	A.v. 40		
		North Stair			:		Date of origin:	Aug-10		
Roor	n Number	A624					Level	Fourth Floor (4)		
_	General		·		Ш					
1.1	Use	Stair			.					
1.2	Occupancy			٠			•		-	
1.3	Dimensions	Area (m2)								•
1.4	Planning Relationships									
1.5	Fire									
2.0	Building Elements						Spec Ref			
		Floating Screed			1		M10			
	Finish	Vinyl with contrastir	ng nosing				M50 ·			
2.2	Walls	Plasterboard Partiti	ons				K10			
		140mm Blockwork	,				F10			
		Plasterbord Wall Li	ning		:		K10			
	Finish	Paint					`M60			
2.3	Ceilings	Painted Soffit				•	M60 .			
2.4	Door/s &	Solid Timber Vened	ered				L20			
	Lock Type								,	
2.5	Degree of Privacy						<u> </u>			
2.6	Windows	N/A								
2.7	Glazed Screen	N/A		· · ·						
3.0	Services - Refer to									
3.1	Environment	Winter Temp °C	Summer Temp °C				Vent supply	Vent Extract	Control	
		20degC	not controlled	not contro	lled		not controlled	not controlled	none	
3.2	Lighting	150 lux on all tread	\$	Control	TOTAL TOTAL OF	:	High Frequency (Manual switching			
3.3	Acoustic Req'mts Requirements		· · · · · ·							
3.3	Communications	Telephone	Computer	Fax	400		TV socket	FM socket	Other	
3.4	Power sockets	Cleaners socket								
3.5	Panic Alarm/				П					
<u></u>	Security									
3.6	Other	Pressurised - depe	ndent on fire strate	gy						
4.0	Fittings .	·					Spec Ref			
	Painted 40mm dia	nandrails					L30			
	Painted MDF Skirting	ngs			.		P20	ı		

STUDIO E ARCHITECTS

_	JOWI DATA				Ц.				
	ject	1204		- :		File Ref			
	om Name	Lift Lobby				Date of origin:	Aug-10		
_	om Number	A623				Level	Fourth Floor (4)	
1.0								_	
1.1	Use	Lift Lobby				····	" .	·	
1.2	Occupancy		,						
1.3	Dimensions	Area (m2)	17.2			· · · · · · · · · · · · · · · · · · ·	·		
1.4	Planning	-				<u>, </u>			
1.5	Relationships Fire			 .		<u> </u>			<u>-</u> .
2.0	Building Element	s	 .			Spec Ref			
2.1	Floors	Floating Screed	<u>.</u>		-	M10			
į	Finish	Carpet				M50			
	:								
2.2	Walls	Plasterboard Partiti	ons	Fire rated		K10	 -		
		140mm Blockwork				K10			
		Plasterbord Wall Li	ning			K10			
	Finish	Paint				M60			
2.3	Ceilings	Lay in Mineral Tile		:		K10			
2.4	Door/s &	Solid Timber Vened	ered			L20		<u> </u>	
	Lock Type						•		
2.5	Degree of Privacy			!					
2.6	Windows	N/A		<u></u> <u>:</u>		<u>. </u>			
2.7	Glazed Screen	_		<u>.</u>		. <u>:</u> -	<u>-</u>		 ·
3,0	Services - Refer to	Services Specifica	tion			:		<u>-</u>	 -
3.1	Environment		Summer Temp °(Vent supply	Vent Extract	Control	
			not controlled	not controlle	d	not controlled	not controlled	none	
3.2	Lighting	200 lux Lighting to the lift controls and		Control		High Frequency C Manual switching	ontrol Gear		<u></u> :
	Acoustic Req'mts Requirements								· · ·
	Communications	Telephone (Computer	Fax		TV socket	FM socket	Other	
3.4	Power sockets	Cleaners socket	· · · · · · · · · · · · · · · · · · ·			•			
3.5	Panic Alarm/ Security		· · · · · · · · · · · · · · · · · · ·	770		· · · · · · · · · · · · · · · · · · ·			
3.6	Other	Pressurised - depen	dent on fire strate	∍gy	-	<u> </u>			
	Fittings				+	Spec Ref			
I	Internal blinds			· · · · · ·	i				

INC	OM DATA S	MEEI					
Proje	ect	1204	•		File Ref		
Root	m Name	Office			Date of origin:	Aug-10	
Rooi	m Number	A622			Level	Fourth Floor (4)	
1.0	General				. 1		
1.1	Use	Office					
12	Occupancy					1	
ļ.	` ′						
13	Dimensions	Area (m2)	15.4		- ':		
		' '			. :		
						i	
1.4	Planning						
	Relationships	!			:		
15	Fire	ĺ					
2.0	Building Elements	•			Spec Ref		
2.1	Floors	Floating Screed .			M10	1	
	Finish	Carpet tile			M50		
		'			:		
	·					İ	
1						İ	İ
22	Walls	Plasterboard Partit	ions		K10	1	
ſΤ	Finish	Paint	·•		M60		
1	""	l					
1	l	l			-	1	
23	Ceilings	Lay in Mineral Tile			K10	† - · · · · · · · · · · · · · · · · · · 	
"	Cennigs	Lay III Millerai Tile			NIU :		
2.4	Dooris &	Solid Timber Vege	ered with glazed sid	e light '	1 204 10		
2.4		Salia Limber vener	ereo wiin giazeo sio	e ngru	L20/L10		
	Lock Type				1	1	
<u> </u>							
25	Degree of	· ·				1	
-	Privacy				 		
2.6	Windows	N/A					
<u>_</u>						<u> </u>	
2.7	Glazed Screen	See door Schedule	9				
		<u> </u>	4.		- 1		
3.0	Services - Refer to			I	<u> </u>		
	Services - Refer to Environment	Winter Temp C	Summer Temp C		Vent supply	``	Control
		Winter Temp C FCU - 20degC	Summer Temp C FCU 22+/-2degC	FCU 55% +/-10	Vent supply 10l/s per person.	Average of 15-16l/s	BMS Control.
	Environment FCU= Fan Coil Units or VRF	Winter Temp C FCU - 20degC min	Summer Temp C FCU 22+/-2degC 24max	FCU 55% +/-10 CHB 45% +/-10	Vent supply 101/s per person, person at Air Ha	Average of 15-16l/s ndling Unit to take	BMS Control. Local Room
	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled	Winter Temp C FCU - 20degC min CHB - 22degC	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC	FCU 55% +/-10	Vent supply 10l/s per person, person at Air Ha account of meeti	Average of 15-16l/s ndling Unit to take ng rooms.	BMS Control.
	Environment FCU= Fan Coil Units or VRF	Winter Temp C FCU - 20degC min	Summer Temp C FCU 22+/-2degC 24max	FCU 55% +/-10 CHB 45% +/-10	Vent supply 10l/s per person, person at Air Ha account of meeti	Average of 15-16l/s ndling Unit to take	BMS Control. Local Room
3.1	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight F	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max actor 5% (min 0 5)	FCU 55% +/-10 CHB 45% +/-10	Vent supply 10Vs per person, person at Air Ha account of meeti Extract 80% of si extracted via action	Average of 15-16l/s ndling Unit to take ng rooms. upply, with remainder acont machinome Control Gear	BMS Control. Local Room Controllers
3.1	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight F 300-500lux (minim	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max actor 5% (min 0 5) um 200lux).	FCU 55% +/-10 CHB 45% +/-10 Min 35%	Vent supply 10Vs per person. person at Air Hal account of meeti extract 80% of s extracted sa add High Frequency Daylight linked o	Average of 15-16l/s ndling Unit to take ng rooms. upply, with remainder acout wackrooms Control Gear ontrol to office perimet	BMS Control. Local Room Controllers
3.1	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight F 300-500lux (minim 30% of light on soft	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max actor 5% (min 0 5) um 200lux). fit.	FCU 55% +/-10 CHB 45% +/-10 Min 35%	Vent supply 10Vs per person. person at Air Hal account of meeti extract 80% of si extracted sa add High Frequency Daylight linked of Manual Switching	Average of 15-16l/s ndling Unit to take ng rooms. upply, with remainder control Gear ontrol to office perimet	BMS Control. Local Room Controllers ter zones.
3.1	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight F 300-500lux (minim) 30% of light on soft	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max actor 5% (min 0 5) um 200lux), fit. en based work or	FCU 55% +/-10 CHB 45% +/-10 Min 35%	Vent supply 10l/s per person, person at Air Hal account of meeti Extract 80% of s extracted sea definition Daylight linked of Manual Switchin Separate switchin	Average of 15-16l/s ndling Unit to take ng rooms. upply, with remainder acout wackrooms Control Gear ontrol to office perimet	BMS Control. Local Room Controllers ter zones.
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3.1	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight F 300-50Dlux (mixim 300-50Dlux (mixim 300 for purely scree 500 for mixed or m tasks.	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max actor 5% (min 0 5) um 200lux). fit ten based work or ainly paper-based	FCU 55% +/-10 CHB 45% +/-10 Min 35%	Vent supply 10/s per person, person at Air Ha account of meeti Extract 80% of substantial and High Frequency Daylight linke Manual Switchin Separate switchi Time control	Average of 15-16l/s ndling Unit to take ng rooms. upply, with remainder control Gear ontrol to office perimet	BMS Control. Local Room Controllers ter zones. meter zones.
3.1	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams	Winter Temp C FCU - 20deg C min CHB - 22deg C min Average Daylight F 300-500lux (minim) 30% of light on soft 300 for purely scree 500 for mixed or m tasks. Colour rendering of	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max actor 5% (min 0 5) um 200lux), fit. en based work or ainly paper-based f Ra80 or above.	FCU 55% +/-10 CHB 45% +/-10 Min 35%	Vent supply 10/s per person, person at Air Ha account of meeti Extract 80% of substantial and High Frequency Daylight linke Manual Switchin Separate switchi Time control	Average of 15-16/s ndling Unit to take ng rooms, upply, with remainder control Gear ontrol to office perimet g	BMS Control. Local Room Controllers ter zones. meter zones.
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3.1	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams	Winter Temp C FCU - 20deg C min CHB - 22deg C min and CHB - 22deg C min 300-500lux (minim 30% of light on soft 300 for purely scree 500 for mixed or m tasks. Colour rendering of Uniformity 0.8 in we	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max actor 5% (min 0 5) um 200lux). fit. en based work or ainly paper-based f Ra80 or above. orking zone. 2W/m2	FCU 55% +/-10 CHB 45% +/-10 Min 35%	Vent supply 10/s per person, person at Air Ha account of meeti Extract 80% of substantial and High Frequency Daylight linke Manual Switchin Separate switchi Time control	Average of 15-16/s ndling Unit to take ng rooms, upply, with remainder control Gear ontrol to office perimet g	BMS Control. Local Room Controllers ter zones. meter zones.
3.1	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight F 300-500lux (minim 30% of light on soft 300 for purely scre- 500 for mixed or m tasks. Colour rendering of Uniformity 0.8 in w Max lighting load 1	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max actor 5% (min 0 5) um 200lux). fit. en based work or ainly paper-based f Ra80 or above. orking zone. 2W/m2	FCU 55% +/-10 CHB 45% +/-10 Min 35%	Vent supply 10/s per person, person at Air Ha account of meeti Extract 80% of substantial and High Frequency Daylight linke Manual Switchin Separate switchi Time control	Average of 15-16/s ndling Unit to take ng rooms, upply, with remainder control Gear ontrol to office perimet g	BMS Control. Local Room Controllers ter zones. meter zones.
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3.1	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams	Winter Temp C FCU - 20deg C min CHB - 22deg C min Average Daylight F 300-500lux (minim) 30% of light on soft 300 for purely scre- 500 for mixed or m tasks. Colour rendering of Uniformity 0.8 in w Max lighting load 1 200 lux in circulation	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max actor 5% (min 0 5) um 200lux), fit. en based work or ainly paper-based of Ra80 or above, orking zone. 2W/m2 on zones	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control	Vent supply 10/s per person, person at Air Ha account of meeti Extract 80% of substantial and High Frequency Daylight linke Manual Switchin Separate switchi Time control	Average of 15-16/s ndling Unit to take ng rooms, upply, with remainder control Gear ontrol to office perimet g	BMS Control. Local Room Controllers ter zones. meter zones.
3.1	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting	Winter Temp C FCU - 20deg C min CHB - 22deg C min Average Daylight F 300-500lux (minim) 30% of light on soft 300 for purely scre- 500 for mixed or m tasks. Colour rendering of Uniformity 0.8 in w Max lighting load 1 200 lux in circulation	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max actor 5% (min 0 5) um 200lux), fit. en based work or ainly paper-based of Ra80 or above, orking zone. 2W/m2 on zones	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control	Vent supply 10/s per person, person at Air Ha account of meeti Extract 80% of substantial and High Frequency Daylight linke Manual Switchin Separate switchi Time control	Average of 15-16/s ndling Unit to take ng rooms, upply, with remainder control Gear ontrol to office perimet g	BMS Control. Local Room Controllers ter zones. meter zones.
3.1	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting	Winter Temp C FCU - 20deg C min CHB - 22deg C min Average Daylight F 300-500lux (minim) 30% of light on soft 300 for purely scre- 500 for mixed or m tasks. Colour rendering of Uniformity 0.8 in w Max lighting load 1 200 lux in circulation	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max actor 5% (min 0 5) um 200lux), fit. en based work or ainly paper-based of Ra80 or above, orking zone. 2W/m2 on zones	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control	Vent supply 10/s per person, person at Air Ha account of meeti Extract 80% of substantial and High Frequency Daylight linke Manual Switchin Separate switchi Time control	Average of 15-16/s ndling Unit to take ng rooms, upply, with remainder control Gear ontrol to office perimet g	BMS Control. Local Room Controllers ter zones. meter zones.
3.1	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting Acoustic Req mts	Winter Temp C FCU - 20deg C min CHB - 22deg C min Average Daylight F 300-500lux (minim) 30% of light on soft 300 for purely scree 500 for mixed or m tasks. Colour rendering of Uniformity 0.8 in w Max lighting load 1 200 lux in circulatio	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max cort 5% (min 0 5) um 200lux), fit. en based work or ainly paper-based f Ra80 or above, orking zone, 2W/m2 un zones	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control	Vent supply 101/s per person, person at Air Ha account of meet Extract 80% of s extracted use and High Frequency Daylight linked o Manual Switchin Separate switchin Time control Manual controlle	Average of 15-16/s ndling Unit to take ng rooms. upply, with remainder control Gear ontrol to office perimet g. ng to internal and pen d blinds for glare control	BMS Control. Local Room Controllers ter zones. meter zones. rol.
3.1	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting Acoustic Req mts	Winter Temp C FCU - 20deg C min CHB - 22deg C min 300-500lux (minim 30% of light on soft 300 for purely scree 500 for mixed or m tasks. Colour rendering of Uniformity 0.8 in w Max lighting load 1 200 lux in circulatio	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max actor 5% (min 0 5) um 200ux). fit. en based work or ainly paper-based f Ra80 or above. orking zone. 2W/m2 un zones with office empty ar	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control of no carpet fitted	Vent supply 101/s per person, person at Air Ha account of meet Extract 80% of s extracted use and High Frequency Daylight linked o Manual Switchin Separate switchin Time control Manual controlle	Average of 15-16/s ndling Unit to take ng rooms. upply, with remainder control Gear ontrol to office perimet g. ng to internal and pen d blinds for glare control	BMS Control. Local Room Controllers ter zones, meter zones. rol.
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333	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting Acoustic Regimts Communications	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight F 300-500lux (minim 30% of light on soft 300 for purely scre- 500 for mixed or m tasks. Colour rendering of Uniformity 0.8 in w Max tighting load 1 200 lux in circulatio NR 38 - measured Telephone Yes	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control d no carpet fitted Fax For Secretaries	Vent supply 10Vs per person, person at Air Ha account of meet Extract 80% of is extracted use and High Frequency Daylight linked o Manual Switchin Separate switch Time control Manual controlle	Average of 15-16/s ndling Unit to take ng rooms, upply, with remainder accet was brooms. Control Gear ontrol to office perimet g. ng to internal and peri d blinds for glare control FM socket	BMS Control. Local Room Controllers ter zones. meter zones. rol. Other
3.1 3.2 3.3 3.4	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting Acoustic Req mts Communications Power sockets	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight F 300-500lux (minim 30% of light on soft 300 for purely scre- 500 for mixed or m tasks. Colour rendering of Uniformity 0.8 in ww Max lighting load 1 200 lux in circulation NR 38 - measured Telephone Yes Small Power Load points.	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max actor 5% (min 0 5) um 200lux). fit. en based work or ainly paper-based of Ra80 or above. orking zone. 2W/m2 or zones with office empty ar Computer Min 2 data sockets per 25W/m2 (+ 5W/m2	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control d no carpet fitted Fax For Secretaries	Vent supply 10Vs per person, person at Air Ha account of meet Extract 80% of is extracted use and High Frequency Daylight linked o Manual Switchin Separate switch Time control Manual controlle	Average of 15-16/s ndling Unit to take ng rooms, upply, with remainder accet was brooms. Control Gear ontrol to office perimet g. ng to internal and peri d blinds for glare control FM socket	BMS Control. Local Room Controllers ter zones. meter zones. rol. Other
3.1 3.2 3.3 3.4	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting Acoustic Regimts Communications Power sockets Panic Alarm/	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight F 300-500lux (minim 30% of light on soft 300 for purely scre- 500 for mixed or m tasks. Colour rendering of Uniformity 0.8 in ww Max lighting load 1 200 lux in circulation NR 38 - measured Telephone Yes Small Power Load	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max actor 5% (min 0 5) um 200lux). fit. en based work or ainly paper-based of Ra80 or above. orking zone. 2W/m2 or zones with office empty ar Computer Min 2 data sockets per 25W/m2 (+ 5W/m2	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control d no carpet fitted Fax For Secretaries	Vent supply 10Vs per person, person at Air Ha account of meet Extract 80% of is extracted use and High Frequency Daylight linked o Manual Switchin Separate switch Time control Manual controlle	Average of 15-16/s ndling Unit to take ng rooms, upply, with remainder accet was brooms. Control Gear ontrol to office perimet g. ng to internal and peri d blinds for glare control FM socket	BMS Control. Local Room Controllers ter zones. meter zones. rol. Other
3.1 3.2 3.3 3.4 3.5	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting Acoustic Req mts Communications Power sockets	Winter Temp C FCU - 20deg C min CHB - 22deg C min CHB - 22deg C min Average Daylight F 300-500lux (minim 30% of light on soft 300 for purely scree 500 for mixed or m tasks. Colour rendering of Uniformity 0.8 in w Max lighting load 1 200 lux in circulatio NR 38 - measured Telephone Yes Small Power Load points. PIR detectors and v	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max CHB 20+/-2degC 26max in 200lux), fit. en based work or ainly paper-based f Ra80 or above. orking zone. 2W/m2 m zones with office empty ar Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 window contactors.	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control d no carpet fitted Fax For Secretaries in hot spots). 4 soci	Vent supply 10 //s per person, person at Air Ha account of meeting the frequency of the frequency or any of the frequency or any of the frequency or any of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of the frequency of th	Average of 15-16/s ndling Unit to take ng rooms. upply, with remainder control Gear ontrol to office perimet g. ng to internal and pen d blinds for glare control FM socket	BMS Control. Local Room Controllers ter zones. meter zones. rol. Other
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	OOM DATA S	SHEET	<u> </u>				
Proj	ect	1204			F	ile Ref	
Roo	m Name	Office			C	ate of origin: Aug-10	
Roo	m Number	A621			L	evel Fourth Floor (4	1)
1.0	General				1		
1.1	Use	Office				· · · · · · · · · · · · · · · · · · ·	
1.2	Occupancy	Ī				 ·	-
1.3	Dimensions	Area (m2)	18.1			•	
1.4	Planning						
	Relationships		_				
1.5	Fire					# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· <u> </u>
2.0	Building Element				S	pec Ref	
2.1	Floors	Floating Screed			M	10	
	Finish	Carpet tile			M	50	•
2.2	Walls	Plasterboard Partit	ions		K	10 .	
	Finish	Paint			- 1	60	
2.3	Ceilings	Lay in Mineral Tile			K	10	
2.4	Door/s &	Solid Timber Vener	ered with glazed sid	le light	L	20/L10	
	Lock Type				:		
2.5	Degree of				- :		
2.6	Privacy Windows	N/A	·	·			·
٥.٠	**************************************	TVA					
2.7	Glazed Screen	See door Schedule			:		
3.0	Services - Refer to	Services Specifica	ıtion	· - -	11.		
_	Environment	Winter Temp C	Summer Temp C	Air Humidity	Īν	ent supply Vent Extract	Control
		FCU - 20degC	FCU 22+/-2degC		_	l/s per person. Average of 15-16	
	FCU≃ Fan Coil Units	min	24max	CHB 45% +/-10		rson at Air Handling Unit to take	Local Room
	or VRF	CHB - 22degC	CHB 24+/-2degC	Min 35%		count of meeting rooms.	Controllers
	CHB=Active Chilled Beams	min	26max		E	tract 80% of supply, with remain	der
	bealls				ex	tracted via adjacent washrooms	1
	Lighting	Average Daylight F. 300-500lux (minimu) 30% of light on soffi 300 for purely scree 500 for mixed or matasks. Colour rendering of Uniformity 0.8 in wo Max lighting load 12 200 lux in circulation	im 200lux). it. en based work or ainly paper-based Ra80 or above. rking zone. eW/m2		Da Ma Se Til	gh Frequency Control Gear aylight linked control to office peri anual Switching. parate switching to internal and ne control anual controlled blinds for glare c	perimeter zones.
3.3	Acoustic Req'mts	NR 38 - measured v	with office empty ar	id no carpet fitted			
3.3	Communications		Computer	Fax	7	socket FM socket	Other
			Min 2 data	For Secretaries	74		
			sockets per		Ш	<u> </u>	
3.4	Power sockets	Small Power Load 2 points.	5W/m2 (+ 5W/m2	n hot spots). 4 soc	kets	per person. Additional sockets a	t printer/photocopier
- 1	Panic Alarm/ Security	PIR detectors and w	indow contactors.		7	:	
_	Other	Average Office Occ	manay Deneity: 1	noman 10m2 Have	Office	Rooms 1 person 2.5m2	
		Air Leakage Rate 5r		poisum Tumiz. Mee	enijõ	rooms i person 2.5m2	
- 1		_	• •				
- 1	:	Ambient Design Co		•			
		Summer Dry Bulb 29	•	•	7		
		Summer Wet Bufb 2	•				-
- 1		Winter Dry Bulb -4d Winter Wet Bulb -4d	•		-		
- 1							
- - -	Fittings	AANTIGE AACT DOID -40	eyc	· · · · · · · · · · · · · · · · · · ·		ec Ref	

Office Date of origin: Aug-10 Level Fourth Floor (4). General Use Office Dimensions Area (m2) 18.1 Planning Relationships Fire Building Elements Spec Refi Floors Floating Screed M10 Carpet tile M50 Walls Plasterboard Partitions K10 Finish Paint M60 Ceillings Lay in Mineral Tile K10 Door/s & Lock Type Degree of Privacy	_	OOM DATA	120	14		Cit- D-*	 	<u> </u>	
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General Description							rigin:	Aug-10	
Use Office						Level	<u> </u>	Fourth Floor (4)	
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500 for mixed or mainly paper-based tasks. Colour rendering of Ra80 or above. Uniformity 0.8 in working zone. Max lighting load 12W/m2 200 lux in circulation zones Acoustic Req'mts NR 38 - measured with office empty and no carpet filted Communications Telephone Yes Min 2 data sockets For Secretaries per person Power sockets Small Power Load 25W/m2 (+ 5W/m2 in hot spots). 4 sockets per person. Additional sockets at printer/photocopie points. Panic Alarm/ Security Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2 5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC Fittings Time control Manual controlled blinds for glare control. Manual controlled blinds for glare control. Manual controlled blinds for glare control. Manual controlled blinds for glare control. The control Manual controlled blinds for glare control. Manual controlled blinds for glare control. The control Manual controlled blinds for glare control. The control Manual controlled blinds for glare control. The control Manual controlled blinds for glare control. The control Manual controlled blinds for glare control. The control Manual controlled blinds for glare control. The control Manual controlled blinds for glare control. The control Manual controlled blinds for glare control. The control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	1					Manual Swit	tching.		
tasks. Colour rendering of Ra80 or above. Uniformity 0.8 in working zone. Max lighting load 12W/m2 200 lux in circulation zones Acoustic Req'mts NR 38 - measured with office empty and no carpet fitted Communications Telephone Yes Min 2 data sockets For Secretaries per person Power sockets Small Power Load 25W/m2 (+ 5W/m2 in hot spots). 4 sockets per person. Additional sockets at printer/photocopie points. Panic Alarm/ Security Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2 5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb 3-degC Winter Wet Bulb 3-degC Winter Wet Bulb 3-degC Winter Wet Bulb 3-degC Spec Ref	l							to internal and per	imeter zones.
Colour rendering of Ra80 or above. Uniformity 0.8 in working zone. Max lighting load 12W/m2 200 lux in circulation zones Acoustic Req'mts NR 38 - measured with office empty and no carpet fitted Communications Telephone Yes Min 2 data sockets For Secretaries per person Power sockets Small Power Load 25W/m2 (+ 5W/m2 in hot spots). 4 sockets per person. Additional sockets at printer/photocopie points. Panic Alarm/ Security Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2 5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb 4degC Fittings Spec Ref	l			amiy paper-based					
Uniformity 0.8 in working zone. Max lighting load 12W/m2 200 lux in circulation zones Acoustic Req'mts NR 38 - measured with office empty and no carpet fitted Communications Telephone Yes Min 2 data sockets For Secretaries per person Power sockets Small Power Load 25W/m2 (+ 5W/m2 in hot spots). 4 sockets per person. Additional sockets at printer/photocopie points. Panic Alarm/ Security Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2 5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb 4degC Spec Ref	ı			Ra80 or ahous		manual cont	noilea di	linds for glare conf	rof.
Max lighting load 12W/m2 200 lux in circulation zones Acoustic Req'mts NR 38 - measured with office empty and no carpet fitted Communications Telephone Yes Min 2 data sockets For Secretaries per person Small Power Load 25W/m2 (+ 5W/m2 in hot spots), 4 sockets per person. Additional sockets at printer/photocopie points. Panic Alarm/ Security Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2 5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC Spec Ref									
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Power sockets Small Power Load 25W/m2 (+ 5W/m2 in hot spots). 4 sockets per person. Additional sockets at printer/photocopie points. Panic Alarm/ PR detectors and window contactors. Security Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2 5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Surmmer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb 4degC Fittings Spec Ref	L				<u> </u>	TV encket		M sockat	Othor
Panic Alarm/ Penic Alarm/ Security Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2 5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb 4degC Fittings Spec Ref	L		Telephone	Computer	Fax	TV socket	ŀ	M socket	Other
Panic Alarm/ Security Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2 5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb 4degC Fittings Spec Ref	L		Telephane Yes	Computer Min 2 data sockets per person	Fax For Secretaries		-		
Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2 5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb 4degC Fittings Spec Ref	Ċ	Communications	Telephone Yes Small Power Load 2	Computer Min 2 data sockets per person	Fax For Secretaries		-		
Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb -4degC Fittings Spec Ref	P	Communications Cower sockets Canic Alarm/	Telephone Yes Small Power Load 2 points.	Computer Min 2 data sockets per person 25W/m2 (+ 5W/m2 i	Fax For Secretaries		-		
Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb -4degC Fittings Spec Ref	P	communications ower sockets anic Alarm/	Telephane Yes Small Power Load 2 points. P R detectors and w	Computer Min 2 data sockets per person 15W/m2 (+ 5W/m2 i indow contactors.	Fax For Secretaries n hot spots), 4 soc	kets per perso	n. Addit	ional sockets at p	
Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb -4degC Frittings Spec Ref	PS	communications ower sockets anic Alarm/	Telephane Yes Small Power Load 2 points. P R detectors and w	Computer Min 2 data sockets per person 15W/m2 (+ 5W/m2 i indow contactors.	Fax For Secretaries n hot spots), 4 soc	kets per perso	n. Addit	ional sockets at p	
Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb -4degC Frittings Spec Ref	P	Communications Cower sockets anic Alarm/ ecurity	Telephane Yes Small Power Load 2 points. P R detectors and w Average Office Occu	Computer Min 2 data sockets per person 25W/m2 (+ 5W/m2 i indow contactors. upancy Density: 1 p	Fax For Secretaries n hot spots), 4 soc	kets per perso	n. Addit	ional sockets at p	
Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb -4degC Frittings Spec Ref	PS	ower sockets anic Alarm/ ecurity	Telephone Yes Small Power Load 2 points. P R detectors and w Average Office Occi	Computer Min 2 data sockets per person 15W/m2 (+ 5W/m2 i nindow contactors. upancy Density: 1 g n3/hr/m2 @50pa.	Fax For Secretaries n hot spots), 4 soc	kets per perso	n. Addit	ional sockets at p	
Winter Dry Bulb -4degC Winter Wet Bulb -4degC Fittings Spec Ref	P	communications cower sockets anic Alarm/ ecurity	Telephone Yes Small Power Load 2 points. P R detectors and w Average Office Occi	Computer Min 2 data sockets per person 25W/m2 (+ 5W/m2 i indow contactors. upancy Density: 1 g n3/hr/m2 @50pa. pnditions:	Fax For Secretaries n hot spots), 4 soc	kets per perso	n. Addit	ional sockets at p	
Winter Wet Bulb -4degC Fittings Spec Ref	P	communications cower sockets anic Alarm/ ecurity ther	Telephone Yes Small Power Load 2 points. P R detectors and w Average Office Occi Air Leakage Rate 5n Ambient Design Cc Summer Dry Bulb 25	Computer Min 2 data sockets per person 25W/m2 (+ 5W/m2 i indow contactors. upancy Density: 1 g n3/hr/m2 @50pa. onditions: BdegC	Fax For Secretaries n hot spots), 4 soc	kets per perso	n. Addit	ional sockets at p	
Fittings Spec Ref	P	communications cower sockets anic Alarm/ ecurity ther	Telephone Yes Small Power Load 2 points. P R detectors and w Average Office Occi Air Leakage Rate 5n Ambient Design Cc Summer Dry Bulb 28 Summer Wet Bulb 28	Computer Min 2 data sockets per person 25W/m2 (+ 5W/m2 i indow contactors. upancy Density: 1 g n3/hr/m2 @50pa. onditions: 8degC 1degC	Fax For Secretaries n hot spots), 4 soc	kets per perso	n. Addit	ional sockets at p	
loto — al Miada	P	communications cower sockets anic Alarm/ ecurity ther	Telephone Yes Small Power Load 2 points. P R detectors and w Average Office Occi Air Leakage Rate 5r Ambient Design Co Summer Dry Bulb 25 Summer Wet Bulb 2 Winter Dry Bulb 4d	Computer Min 2 data sockets per person 25W/m2 (+ 5W/m2 i indow contactors. upancy Density: 1 g n3/hr/m2 @50pa. unditions: 8degC 1degC egC	Fax For Secretaries n hot spots), 4 soc	kets per perso	n. Addit	ional sockets at p	
NIU · i ·	PSO	communications cower sockets communications cower sockets communications	Telephone Yes Small Power Load 2 points. P R detectors and w Average Office Occi Air Leakage Rate 5r Ambient Design Co Summer Dry Bulb 25 Summer Wet Bulb 2 Winter Dry Bulb 4d	Computer Min 2 data sockets per person 25W/m2 (+ 5W/m2 i indow contactors. upancy Density: 1 g n3/hr/m2 @50pa. unditions: 8degC 1degC egC	Fax For Secretaries n hot spots), 4 soc	kets per perso	n. Addit	ional sockets at p	

_	DOM DATA							
	ject	120	14	-	Fi	ile Ref		
	m Name	Office			D	ate of origi	n: Aug-10	
Roo	m Number	A619_			L	evel	Fourth Floor (4)
1.0	General		<u> </u>				·	-
1.1	Use	Office			.!			-
4.0		 						
1.2	Occupancy	1						
1.3 1.4	Dimensions Planning	Area (m2)	15				-	
1,4	Relationships							
1.5	Fire		-		1		_	
•••	""	-						
2.0	Building Element	5	 		Sr	ec Ref	-	
_	Floors	Floating Screed	<u>_</u>		M ²		<u> </u>	
	Finish	Carpet tile			MS	1		
2.2	Walls	Plasterboard Parti	tions		K1	1		
	Finish	Paint			ME	1		
2.3	Ceilings	Lay in Mineral Tile	:		K1	1		
2.4	Door/s &		ered with glazed sid	de light	- 1	0/L10		
	Lock Type			. • •				
2.5	Degree of					T		
	Privacy				-			
2.6	Windows .	N/A		<u>-</u>				
2.7	Glazed Screen	See door Schedule						
	Olubba Col Coll	oce door schedul	-		1		•	
3.0	Services - Refer to	Services Specific	ation		11	 -		<u>.</u>
	Environment	Winter Temp C	Summer Temp C	Air Humidity	3.1	nt supply	Vent Extract	Control
	FCU= Fan Coil Units	FCU - 20degC	FCU 22+/-2degC	FCU 55% +/-10			n. Average of 15-16I/	
	or VRF	min	24max	CHB 45% +/-10	per	son at Air H	landling Unit to take	Local Room
•	CHB=Active Chilled	CHB - 22degC	CHB 24+/-2degC	Min 35%	acc	ount of mee	eting rooms.	Controllers
\sqcup	Beams	min	26max		Ext	ract 80% of	supply, with remaind	er
3.2	Lighting		actor 5% (min 0.5)	Control	Hig	h Frequenc	y Control Gear	
		300-500lux (minim	. '	<u></u>	Day	light linked	control to office penn	neter zones.
.3	Acoustic Req'mts	NR 38 - measured	with office empty ar	nd no carpet fitted.	ADVINES.			
.3	Communications	Telephone	Computer	Fav	717			- <u></u>
-	·	Yes	Computer Min 2 data	Fax For Secretaries	1 1	socket	FM socket	Other
			sockets per	i or occidines				
.4	Power sockets	Small Power Load		in hot snots). 4 coo	kote .	ner nemer	Additional sockets at	ncintarinhatasas':
ſ		points,		o. opoloj. + 500		AI PEISUII.	noullional SUCKERS at	burren/huorocobies
.5	Panic Alarm/	PIR detectors and	window contactors.		-11	:		
	Security			•	BOAT TO			
_		Average Office Occ	cupancy Density: 1	person 10m2. Med	etina l	Rooms 1 ne	rson 2.5m2	
- 1		Air Leakage Rate 5				, , , , , , , , , , , , , , , , , , ,	Elonia	
		Ambient Design C	• ,			1:		
- 1		Summer Dry Bulb 2				:		
- [.		Summer Wet Bulb			-			
		Winter Dry Bulb -4	•		1			
_[J	Winter Wet Bulb -4d	-			1 .		
	ittings			•••	Spe	c Ref		
	nternal blinds		·		N10			
t	painted MDF skirting				P20	!		
					ı i			
						1		

_	JOIN DATA					
Pro	-	120	4			Ref
	om Name	Office			Date	e of origin: Aug-10
	om Number	A620			Lev	el Fourth Floor (4)
1.0	General					
1.1	Use	Office			:	
1.2	Occupancy		·	<u> </u>		
1.3	Dimensions	Area (m2)	15			
			,,	•		
		<u> </u>				
1.4	Planning		-			
	Relationships	<u> </u>				
1.5	Fire				- 1	
	<u> </u>	<u> </u>	·	· .	<u>:</u>	
2.0	Building Element		<u> </u>		Spec	c Ref
2.1	Floors	Floating Screed			M10	
	Walis	Plasterboard Part			K10	
2.3	Ceilings	Lay in Mineral Tile			K10	•
2.4	Door/s &	Solid Timber Vene	eered with glazed si	de light	L20/I	L10
2.5	Lock Type					
	Degree of Privacy					
2.6	Windows	N/A		<u> </u>		<u> </u>
		170			:	
2.7	Glazed Screen	See door Schedul	<u> </u>		- 1	<u> </u>
	l					
.0	Services - Refer to			· · · · · · · · · · · · · · · · · · ·	\square	
3.1	Environment	Winter Temp C	Summer Temp C			supply Vent Extract Control
	FCU= Fan Coil Units	FCU - 20degC min	FCU 22+/-2degC 24max	4		per person. Average of 15-16i/s BMS Control.
	or VRF CHB=Active Chilled	CHB - 22degC	CHB 24+/-2degC	CHB 45% +/-10 Min 35%		on at Air Handling Unit to take Local Room unt of meeting rooms. Controllers
	Beams	min	26max	141111 00 70	Extra	ct 80% of supply, with remainder
3.2	Lighting	Average Daylight	actor 5% (min 0.5)	Control		Frequency Control Gear
		300-500lux (minim	um 200lux).	Contact	-11	ght linked control to office perimeter zones.
.3	Acoustic Regimts			nd no carpet fitted	/-	o contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of
			19-	L		
.3	Communications	Telephone	Computer	Fax	TV sc	ocket FM socket Other
		Yes	Min 2 data	For Secretaries		
	<u></u>		sockets per		9	
	_					
.4	Power sockets		25W/m2 (+5W/m2	in hot spots). 4 soc	kets pe	er person. Additional sockets at printer/photocopic
		points.		in hot spots), 4 soc	kets p	er person. Additional sockets at printer/photocopio
.5	Panic Alarm/	points.	25W/m2 (+5W/m2 window contactors.	in hot spots). 4 soc	ckets pe	er person. Additional sockets at printer/photocopid
.5	Panic Alarm! Security	points. PIR detectors and	window contactors.	·	41.	
.5	Panic Alarm/	points. PIR detectors and Average Office Oc	window contactors.	·	41.	er person. Additional sockets at printer/photocopic
.5	Panic Alarm! Security	points. PIR detectors and Average Office Oc Air Leakage Rate 9	window contactors. cupancy Density: 1 5m3/hr/m2 @50pa.	·	41.	
.5	Panic Alarm! Security	points. PIR detectors and Average Office Oc Air Leakage Rate ! Ambient Design (window contactors. cupancy Density: 1 5m3/hr/m2 @50pa. conditions:	·	41.	
.5	Panic Alarm! Security	points. PIR detectors and Average Office Oc Air Leakage Rate t Ambient Design (Summer Dry Bulb	window contactors. cupancy Density: 1 5m3/hr/m2 @50pa. conditions: 29degC	·	41.	
.5	Panic Alarm! Security	points. PIR detectors and Average Office Oc Air Leakage Rate S Ambient Design (Summer Dry Bulb Summer Wet Bulb	window contactors. cupancy Density: 1 5m3/hr/m2 @50pa. conditions: 29degC 21degC	·	41.	
.5	Panic Alarm! Security	points. PIR detectors and Average Office Oc Air Leakage Rate 5 Ambient Design (Summer Dry Bulb Summer Wet Bulb Winter Dry Bulb 4	window contactors. cupancy Density: 1 im3/hr/m2 @50pa. conditions: 29degC 21degC degC	·	41.	
.6	Panic Alarm! Security	points. PIR detectors and Average Office Oc Air Leakage Rate S Ambient Design (Summer Dry Bulb Summer Wet Bulb	window contactors. cupancy Density: 1 im3/hr/m2 @50pa. conditions: 29degC 21degC degC	·	41.	coms 1 person 2.5m2

roj		1204		•	File Re			
800	m Name	Office			Date of	forigin:	Aug-10	
Roo	m Number	A617			Level		Fourth Floor (4)	
1.0	General					E.		
1.1	Use	Office			- 1			
1.2	Occupancy				!			
			.					
1.3	Dimensions	Area (m2)	15		•			
1.4	Diagning							
1.4	Planning Relationships							
1.5	Fire						•	
1.0					:			
2.0	Building Elements				Spec R	ef		
2.1	Floors	Floating Screed			M10			
2.2	Walls.	Plasterboard Partit	ions		K10			
2.3	Ceilings	Lay in Mineral Tile			K10 :			
2.4	Door/s &	Solid Timber Vene	ered with glazed sid	fe light	L20/L1	0 -		
	Lock Type							
2.5	Degree of		•					
	Privacy							
2.6	Windows	N/A						
2.7	Glazed Screen	See door Schedule					···	
3.0	Services - Refer to			E	102 31	<u>:</u>	15	10
3.1	Environment	Winter Temp C FCU - 20degC	Summer Temp C FCU 22+/-2degC		Vent st		Vent Extract Average of 15-16l/s	Control BMS Control.
	FCU= Fan Coil Units	min	24max	CHB 45% +/-10			dling Unit to take	Local Room
	or VRF CHB=Active Chilled	CHB - 22degC	CHB 24+/-2degC	Min 35%		t of meetin	•	Controllers
	Beams	min ·	26max		3 1		pply, with remainder	-
3.2	Lighting	Average Daylight F	actor 5% (min 0.5)	Control	High Fr	equency (Control Gear	<u> </u>
		300-500lux (minim			- 1 i l		ntrol to office perime	eter zones.
3.3	Acoustic Regimts	NR 38 - measured	with office empty a	nd no carpet fitted				
					!			
3.3	Communications	Telephone	Computer	Fax	TV soc	ket	FM socket	Other
		Yes	Min 2 data	For Secretaries			•	
	!	* *	sockets per					
			<u> </u>		111			nnntariahatasa
3.4	Power sockets		25W/m2 (+ 5W/m2	in hot spots), 4 so	ckets per	person. A	dditional sockets at p	prantempratition
		points.	<u> </u>		ckets per	person. A	dditional sockets at p	prakenphotoco
	Panic Alarm/	points.	25W/m2 (+5W/m2 window contactors.		ckets per	person. A	dditional sockets at p	printeriphotoco
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3.3 Acoustic Req'mts NR 38 - measured with office empty and no carpet fitted 3.3 Communications Telephone Computer Fax TV socket FM socket Other Yes Min 2 data For Secretaries sockets per 3.4 Power sockets Small Power Load 25W/m2 (+ 5W/m2 in hot spots). 4 sockets per person. Additional sockets at printer/points. 3.5 Panic Alarm/ Security 3.6 Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2.5m2 Air Leakage Rate Sm3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb 4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC	1					Extra	C	ct 80% of supply, with remainder	
3.3 Communications Telephone Computer Fax TV socket FM socket Other Yes Min 2 data For Secretaries sockets per 3.4 Power sockets Small Power Load 25W/m2 (+ 5W/m2 in hot spots). 4 sockets per person. Additional sockets at printer/points. 3.5 Panic Alarm/ Security 3.6 Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2.5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb 4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC	3.2 Lighti	ng			Control				
3.3 Communications Telephone Computer Fax TV socket FM socket Other Yes Min 2 data For Secretaries sockets per 3.4 Power sockets Small Power Load 25W/m2 (+ 5W/m2 in hot spots). 4 sockets per person. Additional sockets at printer/points. 3.5 Panic Alarm/ Security 3.6 Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2.5m2 Air Leakage Rate Sm3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb -4degC Winter Wet Bulb -4degC	22 4	A Declara				Daylig	g	thinked control to office perimeter zone	3.
Yes Min 2 data For Secretaries sockets per 3.4 Power sockets Small Power Load 25W/m2 (+5W/m2 in hot spots). 4 sockets per person. Additional sockets at printer/points. 3.5 Panic Alarm/ Security 3.6 Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2.5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb -4degC Winter Wet Bulb -4degC Winter Wet Bulb -4degC	o.o Acous	suc xeq mis	NR 36 - measured	with office empty a	nd no carpet titted	3			
Yes Min 2 data For Secretaries sockets per 3.4 Power sockets Small Power Load 25W/m2 (+5W/m2 in hot spots). 4 sockets per person. Additional sockets at printer/points. 3.5 Panic Alarm/ Security 3.6 Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2.5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb 4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC	3.3 Comm	nunications	Telephone	Computer	Fax	TVec	00	cket EM socket Other	
sockets per 3.4 Power sockets Small Power Load 25W/m2 (+ 5W/m2 in hot spots). 4 sockets per person. Additional sockets at printer/points. 3.5 Panic Alarm/ Security 3.6 Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2.5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb 4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC			, -	•				Unit I W SOCKET OTHER	
points. 3.5 Panic Alarm/ Security 3.6 Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2.5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb -4degC 4.0 Fittings Spec Ref									
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Security 3.6 Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2.5m2 Air Leakage Rate Sm3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb 4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC Summer Wet Bulb 4degC Winter Wet Bulb 4degC			points.	• •					
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Air Leakage Rate Sm3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb -4degC 4.0 Fittings Spec Ref				· ·			Ц		
Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb -4degC Winter Wet Bulb -4degC 4.0 Fittings Spec Ref	o.o Other				person 10m2. Me	eting R	ÇO(ooms 1 person 2.5m2	
Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb -4degC 4.0 Fittings Spec Ref						;		*	
Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb -4degC 4.0 Fittings Spec Ref			_			4.44			
Winter Dry Bulb -4degC Winter Wet Bulb -4degC 4.0 Fittings Spec Ref	-			-		1			
Winter Wet Bulb -4degC 4.0 Fittings Spec Ref				-					
4.0 Fittings Spec Ref		,							
	4.0 Fitting	s				Spec	R	Ref	
Internal outo	Interna	l blinds							

	ject	120	4		File Ref			
Roc	om Name	Office			Date of origin:		Aug-10	
Roc	om Number	A615			Level	i	Fourth Floor (4)	
1.0	General				1	H		·
1.1	Use	Office	<u> </u>			Ħ		
					·	!		
1,2	Оссиралсу		•		•			
1.3	Dimensions	Area (m2)	17.8			1		
		1 4 6 6 (1112)	17.0			İ		
		İ				i		
1,4	Planning					H		
	Relationships					1		
1.5	Fire							
2.0	Building Elemen	Je			0 0 1	H		
_	Floors	Floating Screed			Spec Ref 1 M10	H	·	
2.2	Walls	Plasterboard Part	itions		K10			
		1						
	1							
_	0.11	<u> </u>			<u> </u>	ij	<u> </u>	
2.3	Ceilings	Lay in Mineral Tite	ı		K10	I		
	i							
2.4	Door/s &	Solid Timber Vene	ered with glazed s	ide light	L20/L10	-		
	Lock Type				CEVILIU	H		
.5	Degree of		·-	-		i		-
_	Privacy					İ		
.6	Windows	N/A			•			
7	Glazed Screen	See door Schedul				1		
		Joseph Contraga	•					
.0	Services - Refer t	o Services Specific	ation			Ħ		
.1	Environment	Winter Temp C	Summer Temp C				ent Extract	Control
	FCU= Fan Coil Units	FCU - 20degC min	FCU 22+/-2degC 24max		10t/s per person.			
	or VRF	CHB - 22degC	CHB 24+/-2degC	CHB 45% +/-10 Min 35%	person at Air Han account of meetin	dki	ng Unit to take	Local Room Controllers
	CHB=Active Chilled Beams	min	26max .		Extract 80% of su			Controllers
ļ	Deartis			1	remainder extract	ed	via adjacent	
.2	Lighting		2014					L
- 1		Average Daylight F	actot 5% (min	Control	High Frequency C	ÒП	trol Gear	
- 1		0 5)	•	Control	High Frequency C Daylight linked co	ηtη		iter zones.
		0 5) 300-500lux (minim	um 200lux).	Control	Daylight linked co Manual Switching	ntr	ol to office perime	
		0 5) 300-500lux (minim 30% of light on sof	um 200lux). fit.	Control	Daylight linked co	ntr	ol to office perime	
		0 5) 300-500lux (minim 30% of light on sof 300 for purely scre 500 for mixed or m	um 200lux). fit. en based work or	(Control	Daylight linked co Manual Switching Separate switching	ntr g t	ol to office perime	imeter zones.
		0 5) 300-500lux (minim 30% of light on sof 300 for purely scre 500 for mixed or m tasks.	um 200lux). fit en based work or ainly paper-based	Control	Daylight linked co Manual Switching Separate switchin Time control	ntr g t	ol to office perime	imeter zones.
		0 5) 300-500lux (minim 30% of light on sof 300 for purely scre 500 for mixed or m tasks. Colour rendering o	um 200lux). fit en based work or ainly paper-based f Ra80 or above.	Control	Daylight linked co Manual Switching Separate switchin Time control	ntr g t	ol to office perime	imeter zones.
	-	0 5) 300-500lux (minim 30% of light on sof 300 for purely scre 500 for mixed or m tasks. Colour rendering o Uniformity 0.8 in wh Max lighting load 1	um 200lux). fit. en based work or ainly paper-based f Ra80 or above. orking zone. 2W/m2	Control	Daylight linked co Manual Switching Separate switchin Time control	ntr g t	ol to office perime	imeter zones.
	-	0 5) 300-500lux (minim 30% of light on sof 300 for purely scre 500 for mixed or m tasks. Colour rendering o Uniformity 0.8 in wi Max lighting load 1 200 lux in circulatio	um 200lux). fit. en based work or ainly paper-based f Ra80 or above. orking zone, 2W/m2 π zones		Daylight linked of Manual Switching Separate switchin Time control Manual controlled	ntr g t	ol to office perime	imeter zones.
3	Acoustic Req [*] mts	0 5) 300-500lux (minim 30% of light on sof 300 for purely scre 500 for mixed or m tasks. Colour rendering o Uniformity 0.8 in wh Max lighting load 1	um 200lux). fit. en based work or ainly paper-based f Ra80 or above. orking zone, 2W/m2 π zones		Daylight linked of Manual Switching Separate switchin Time control Manual controlled	ntr g t	ol to office perime	imeter zones.
		0 5) 300-500lux (minim 30% of light on sof 300 for purely scree 500 for mixed or m tasks. Colour rendering o Uniformity 0.8 in wi Max lighting load 1 200 lux in circulatio NR 38 - measured	um 200lux). if the number of the paper based or above. orking zone. 2W/m2 it zones with office empty a	nd no carpet fitted	Daylight linked co Manual Switching Separate switchin Time control Manual controlled	ntri g ta	ol to office penime	imeter zones.
	Acoustic Req'mts Communications	0 5) 300-500lux (minim 30% of light on sof 300 for purely scree 500 for mixed or m tasks. Colour rendering o Uniformity 0.8 in wi Max lighting load 1 200 lux in circulatio NR 38 - measured Telephone	um 200lux). fit. en based work or ainly paper-based f Ra80 or above. orking zone. 2W/m2 n zones with office empty a	nd no carpet fitted	Daylight linked of Manual Switching Separate switchin Time control Manual controlled	ntri g ta	ol to office perime	imeter zones.
		0 5) 300-500lux (minim 30% of light on sof 300 for purely scre 500 for mixed or m tasks. Colour rendering o Uniformity 0.8 in wi Max lighting load 1 200 lux in circulatio NR 38 - measured Telephone Yes	um 200lux). if the number of the paper based or above. orking zone. 2W/m2 it zones with office empty a	nd no carpet fitted	Daylight linked co Manual Switching Separate switchin Time control Manual controlled	ntri g ta	ol to office penime	imeter zones.
3 (0 5) 300-509lux (minim 30% of light on sof 300 for purely scre 500 for mixed or m tasks. Colour rendering o Uniformity 0.8 in w Max lighting load 1 200 lux in circulatio NR 38 - measured Telephone Yes	um 200lux). fit en based work or ainly paper-based f Ra80 or above. orking zone. 2W/m2 n zones with office empty a Computer Min 2 data sockets per	nd no carpet fitted Fax For Secretaries	Daylight linked co Manual Switching Separate switchin Time control Manual controlled	ntro g ta b)i	ol to office perime o internal and per nds for glare cont	imeter zones.
3 (Communications Power sockets	0 5) 300-509lux (minim 30% of light on sof 300 for purely scre 500 for mixed or m tasks. Colour rendering o Uniformity 0.8 in wh Max lighting load 1 200 lux in circulatio NR 38 - measured Telephone Yes Small Power Load i	um 200lux). fit. en based work or ainly paper-based f Ra80 or above. orking zone. 22Wim2 n zones with office empty a Computer Min 2 data sockets per 25Wim2 (+ 5Wim2 points.	nd no carpet fitted Fax For Secretaries	Daylight linked co Manual Switching Separate switchin Time control Manual controlled	ntro g ta b)i	ol to office perime o internal and per nds for glare cont	imeter zones.
3 (4 J	Communications Power sockets Panic Alarmy	0 5) 300-509lux (minim 30% of light on sof 300 for purely scre 500 for mixed or m tasks. Colour rendering o Uniformity 0.8 in wh Max lighting load 1 200 lux in circulatio NR 38 - measured Telephone Yes Small Power Load	um 200lux). fit. en based work or ainly paper-based f Ra80 or above. orking zone. 22Wim2 n zones with office empty a Computer Min 2 data sockets per 25Wim2 (+ 5Wim2 points.	nd no carpet fitted Fax For Secretaries	Daylight linked co Manual Switching Separate switchin Time control Manual controlled	ntro g ta b)i	ol to office perime o internal and per nds for glare cont	imeter zones.
3 (4)	Communications Power sockets Panic Alarm/ Security	0 5) 300-500lux (minim 30% of light on sof 300 for purely scre 500 for mixed or m tasks. Colour rendering o Uniformity 0.8 in w Max lighting load 1 200 lux in circulatio NR 38 - measured Telephone Yes Small Power Load printer/photocopier PIR detectors and w	um 200lux). fit. en based work or ainly paper-based f Ra80 or above. orking zone. 22W/m2 n zones with office empty a Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 points. vindow contactors.	nd no carpet fitted Fax For Secretaries in hot spots), 4 so	Daylight linked co Manual Switching Separate switchin Time control Manual controlled TV socket	g t	ol to office perime o internal and per nds for glare cont M socket	imeter zones.
3 (4)	Communications Power sockets Panic Alarmy	0 5) 300-500lux (minim 30% of light on sof 30% of light on sof 300 for purely scre 500 for mixed or m tasks. Colour rendering o Uniformity 0.8 in w Max lighting load 1 200 lux in circulatio NR 38 - measured Telephone Yes Small Power Load printer/photocopier PIR detectors and v Average Office Occ	um 200lux). fit. en based work or ainly paper-based f Ra80 or above. orking zone. 20V/m2 n zones with office empty a Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 points. vindow contactors.	nd no carpet fitted Fax For Secretaries in hot spots), 4 so	Daylight linked co Manual Switching Separate switchin Time control Manual controlled	g t	ol to office perime o internal and per nds for glare cont M socket	imeter zones.
3 (4)	Communications Power sockets Panic Alarm/ Security	0 5) 300-500lux (minim 30% of light on sof 300 for purely scre 500 for mixed or m tasks. Colour rendering o Uniformity 0.8 in wi Max lighting load 1 200 lux in circulatio NR 38 - measured Telephone Yes Small Power Load printer/photocopier PIR detectors and v Average Office Occ Air Leakage Rate 5	um 200lux). fit. en based work or ainly paper-based f Ra80 or above. orking zone. 2Wim2 n zones with office empty a Computer Min 2 data sockets per 25Wim2 (+ 5Wim2 points. vindow contactors. upancy Density: 1 m3/hr/m2 @50pa.	nd no carpet fitted Fax For Secretaries in hot spots), 4 so	Daylight linked co Manual Switching Separate switchin Time control Manual controlled TV socket	g t	ol to office perime o internal and per nds for glare cont M socket	imeter zones.
3 (4)	Communications Power sockets Panic Alarm/ Security	0 5) 300-500lux (minim 30% of light on sof 300 for purely scree 500 for mixed or m tasks. Colour rendering o Uniformity 0.8 in wi Max lighting load 1 200 lux in circulatio NR 38 - measured Telephone Yes Small Power Load printer/photocopier PIR detectors and v Average Office Occ Air Leakage Rate 5 Ambient Design C	um 200lux). fit. en based work or ainly paper-based f Ra80 or above. orking zone. 2W/m2 n zones with office empty a Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 points. vindow contactors. upancy Density: 1 m3/hr/m2 @50pa. onditions:	nd no carpet fitted Fax For Secretaries in hot spots), 4 so	Daylight linked co Manual Switching Separate switchin Time control Manual controlled TV socket	g t	ol to office perime o internal and per nds for glare cont M socket	imeter zones.
3 (4 J	Communications Power sockets Panic Alarm/ Security	0 5) 300-500lux (minim 30% of light on sof 300 for purely scree 500 for mixed or m tasks. Colour rendering o Uniformity 0.8 in wi Max lighting load 1 200 lux in circulatio NR 38 - measured Telephone Yes Small Power Load printer/photocopier PIR detectors and v Average Office Occ Air Leakage Rate 5 Ambient Design C Summer Dry Bulb 2	um 200lux). fit. en based work or ainly paper-based f Ra80 or above. orking zone. 2W/m2 n zones with office empty a Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 points. vindow contactors. upancy Density: 1 m3/hr/m2 @50pa. onditions: 9degC	nd no carpet fitted Fax For Secretaries in hot spots), 4 so	Daylight linked co Manual Switching Separate switchin Time control Manual controlled TV socket	g t	ol to office perime o internal and per nds for glare cont M socket	imeter zones.
3 (4 J	Communications Power sockets Panic Alarm/ Security	0 5) 300-500lux (minim 30% of light on sof 300 for purely scree 500 for mixed or m tasks. Colour rendering o Uniformity 0.8 in wi Max lighting load 1 200 lux in circulatio NR 38 - measured Telephone Yes Small Power Load printer/photocopier PIR detectors and v Average Office Occ Air Leakage Rate 5 Ambient Design C	um 200lux). fit. en based work or ainly paper-based if Ra80 or above. orking zone. 2W/m2 in zones with office empty a Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 points. vindow contactors. upancy Density: 1 m3/hr/m2 @50pa. onditions: 9degC	nd no carpet fitted Fax For Secretaries in hot spots), 4 so	Daylight linked co Manual Switching Separate switchin Time control Manual controlled TV socket	g t	ol to office perime o internal and per nds for glare cont M socket	imeter zones.
3 (4 J)	Communications Power sockets Panic Alarm/ Security	0 5) 300-500lux (minim 30% of light on sof 300 for purely scree 500 for mixed or m tasks. Colour rendering o Uniformity 0.8 in wi Max lighting load 1 200 lux in circulatio NR 38 - measured Telephone Yes Small Power Load: printer/photocopier PIR detectors and v Average Office Occ Air Leakage Rate 5 Ambient Design C Summer Dry Bulb 2 Summer Wet Bulb 2	um 200lux). fit. en based work or ainly paper-based f Ra80 or above. orking zone. 22W/m2 n zones with office empty a Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 points. vindow contactors. upancy Density: 1 m3/hr/m2 @50pa. onditions: 9degC tidegC	nd no carpet fitted Fax For Secretaries in hot spots), 4 so	Daylight linked co Manual Switching Separate switchin Time control Manual controlled TV socket	g t	ol to office perime o internal and per nds for glare cont M socket	imeter zones.

	DOM DATA	SHEET						
	ject	120				e Ref		
Roc	om Name	Meeting Ro	om		Da	te of origin:	Aug-10	•
Roc	om Number	A609			Le	1 .	Fourth Floor (4)	
1.0	General		·				1 0011111001 (1)	
1.1	Use	Office	70.				· ·	
1.2	Occupancy		<u>-</u>					
1.3	Dimensions	Area (m2)	33.9		- !	<u> -</u>		
1.4	Planning	<u> </u>						· ·
1.4	Relationships	1						
1.5	Fire	-	_	 -	÷			
L_						•		
2.0	Building Element				Spe	c Ref		
2.1	Floors	Floating Screed			M10	i		
	Finish	Carpet tile			M50			
2.2	Walls	Plasterboard Part	titions		K10)		
	Finish	Paint			M60	d _.		
ĺ .	·							
2.3	Ceilings	Lay in Mineral Tile	9		K10	<u> </u>	_	··
					•			
2.4	Door/s &	Solid Timber Venu	eered with glazed si	ide light	1.20	/L10	<u> </u>	
	Lock Type	Total Tambor You	cored Willi glazed a	ide tigiti	LZŲ	10		
2.5	Degree of		· · · · · ·					.
	Privacy				- :			
2.6	Windows	N/A					_	-
2.7	Glazed Screen	See door Schedul	e					
3.0	Services - Refer to	Services Specific	ration					
	Environment	Winter Temp C	Summer Temp C	Air Humiditu	Vást	supply	Vant Extract	10
	FCU= Fan Coil Units	FCU - 20degC		FCU 55% +/-10			Vent Extract upply and extract	Control PIR Control
	or VRF	min	24max	CHB 45% +/-10	1.0	poi poisorisi	uppiy and extract	(hi/lo).
	CHB=Active Chilled	CHB - 22degC	CHB 24+/-2degC	Min 35%				Local temperature
	Beams	min	26max					and fan control
3.2	Lighting	300 lux for normal	meetings 500lux	Control	Mani	ual switching i	n hanke	
		where more intens			High	Frequency C	ontrol Gear	
		writing is carried or			Sepa	rate switching	to internal and pe	rimeter zones.
- 1		Lighting trach for s	pot lights		Time	control		
					Manı	al controlled	blinds for glare cor	itrol.
ļ					477.4			
3.3	Acoustic Regimts	NR35		<u> </u>		<u> </u>		
	Requirements							
_		Telephone	Computer	Fax	TV st	ncket	FM socket	Othor
[Yes	yes	, un	yes	JONE!	yes .	Other Projector
3.4		Floor boxes under			,50		,00	1 TOJECIOI
- 1	. +		ver sockets for proje	ector	-]]			
3.5 F	anic Alarm/		Proje		2007	<u> </u>		
	Security							
-	Other	<u> </u>		<u> </u>			<u>_</u>	
	****		<u> </u>					
	ittings	.	.		Spec	Ref		
	ntemal Blinds				N10			
Į,	ainted MDF skirting	js			P10			l
						1		

ject	12	04		File	Ref		
om Name	Office			Dat	e of origin	. Aug-10	
m Number	A610			Lev	el	-	
General			-				
Use	Office	<u> </u>					
Occupancy		<u> </u>			-	<u></u>	
Dimensions	Area (m2)	37.8					
Planning Relationships	<u> </u>			- :			
Fire		-	·		<u> </u>	<u> </u>	
				Spe	c Ref		
arans .	Plasterboard Par	titions		K10			
Calliana		. ·		<u>:</u>			
Celings	Lay in Mineral Til	е		K10			
Doorle &	Solid Timbor Von	nored with alexadic	4 - P. D.	<u>i</u>			
Lock Type	Solid Hillber Ven	eered with glazed sid	1e light	L20/I	10		
Degree of		· · · · ·		+	<u> </u> 		 -
Windows	N/A .	<u> </u>		÷	<u> </u> 		
Glazed Screen	See door Schedul	e	<u> </u>		<u> </u>		· · ·
Services - Refer to	Services Specific	ation		- 1	:		
Environment	Winter Temp C	Summer Temp C	Air Humidity	Vent	supply	Vent Extract	Control
FCU= Fan Coil Units	, ,		FCU 55% +/-10	10l/s	per person.	Average of 15-16l/s	BMS Control.
or VRF		24max	CHB 45% +/-10	perso	n at Air Har	ndling Unit to take	Local Room
CHB=Active Chilled Beams	CHB - 22degC min	CHB 24+/-2degC 26max	Min 35%	accou Extra	nt of meeti t 80% of st	ng rooms, upply, with remainder	Controllers
Lighting	Average Daylight I 300-500lux (minim	Factor 5% (min 0.5) ium 200lux).	Control	High i	requency	Control Gear	<u> </u>
Acoustic Regimts			d no carpet fitted			onico to onico penate	ter zones.
Communications	Telephone Yes	Computer Min 2 data	Fax For Secretaries	TV so	cket	FM socket	Other
Power sockets	Small Power Load		n hot spots). 4 soc	kets per	person. Ac	Iditional sockets at pr	inter/photocopier
anic Alarmi	<u> </u>	window contactors		31	 	<u> </u>	<u></u>
Security	actoolors allu	mandow costaciors.	•				
	Average Office Occ	cupancy Density: 1	nerson 10m2 Mac	ating Do	ome 1 som	on 2 5m2	
,	Air Leakage Rate 5	im3/hr/m2 @50pa.	2013011 TOJAIZ. 19166	Stilly FO	oms rpers	011 2.31112	
				7			
				100	!		
				4			
	•	-					
ittings	Winter Wet Bulb -4	degC					
	m Name m Number General Use Occupancy Dimensions Planning Relationships Fire Building Element Floors Walls Door/s & Lock Type Degree of Privacy Windows Glazed Screen Services - Refer to Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/ Decurity Services - Refer to Degree of Privacy Windows Communications Dower sockets Panic Alarm/ Decurity	m Name Office m Number A610 General Use Office Occupancy Dimensions Area (m2) Planning Relationships Fire Building Elements Floating Screed Walls Plasterboard Par Ceilings Lay in Mineral Til Door/s & Solid Timber Ven Lock Type Degree of Privacy Windows N/A Glazed Screen See door Schedul Services - Refer to Services Specific Environment Winter Temp C FCU= Fan Coil Units or VRF CHB=Active Chilled Geams Lighting Average Daylight I 300-500lux (minim Acoustic Req'mts NR 38 - measured Communications Telephone Yes Power sockets Small Power Load points. Panic Alarm/ Pecurity Other Average Office Occ Air Leakage Rate & Ambient Design C Summer Dry Bulls 2 Summer Wet Bulls Summer Wet Bulls Summer Wet Bulls	Mane A610	Minimum Age Age Age Age Age Age Age Age Age Age	m Name A610 Lew A610 Lew Mumber A610 Lew A610 Lew A610 Lew Mumber A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew A610 Lew	m Name Office A610 General Use Office Office Occupancy Dimensions Area (m2) 37.8 Planning Relationships Fire Building Elements Floors Floating Screed M10 Plasterboard Partitions K10 Ceilings Lay in Mineral Title K10 Door/s & Lock Type Degree of Privacy Windows N/A Glazed Screen See door Schedule Services - Refer to Services Specification Environment FOLU = Folu - 20deg C FOLU 2247-2deg C FOLU 55% + 710 Tolks per person. Accoustic Req mits New 24max CHB 45% + 710 Tolks per person. Person Highly Factor 55% (min 0.5) 300-500lux (minimum 200lux). Communications Telephone Computer Fax TV socket Yes Min 2 data For Secretaries sockets per Person. Accoustic Req mits Place of Services and window contactors. Samic Place of Prover Load 25W/m2 (+ 5W/m2 in hot spots). 4 sockets per person. Accoustic Red min Place of Services and window contactors. Samic Alamn/ Picked and window contactors. Summer Dy Biblic 29deg C Summer Wet Bulb 2 1deg C Summer Wet Bulb 2 1deg C Summer Wet Bulb 2 1deg C Summer Wet Bulb 2 1deg C Summer Wet Bulb 2 1deg C Summer Wet Bulb 2 1deg C Summer Wet Bulb 2 1deg C Summer Wet Bulb 2 1deg C Summer Wet Bulb 2 1deg C Summer Wet Bulb 2 1deg C Summer Wet Bulb 2 1deg C	m Name Office Date of origin: Aug-10 Level Fourth Floor (4) General Use Office Occupancy Dimensions Area (m2) 37.8 Planning Relationships Fire Building Elements Floors Malls Plasterboard Partitions M10 K10 Ceitings Lay in Mineral Tile K10 Door/s & Lock Type Seed Solid Timber Veneered with glazed side light L200L10 Door/s & Lock Type Seed Seed Seed Seed Seed Seed Seed Se

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	•	120	4			File Ref		
	om Name	Male WC				Date of origin:	Aug-10	
	m Number	A614				Level	Fourth Floor (4)	
1.0	General	<u>. </u>						
1.1	Use	Toilets				-		
								•
1.2	Occupancy							
1.3	Dimensions	Area (m2)	15.5		+-	· ·		
1.4	Planning		•					
	Relationships			,	٠ .		•	
1.5	Fire							-
					:			
2,0	Building Element	S .	-		T	Spec Ref		
2.1	Floors	Floating Screed			+	M10		
	Finish	Non slip Vinyl				M50		
2.2	Walls	Plasterboard Part	itions	•		K10		
	Finish	Paint				M60		
2,3	Ceilings		Acoustic performa	ance	:	K10	•	
	Door/s &	Solid Timber Vene				L20	-	
	Lock Type	John Timbor Volk	ocicu .			L20 .	•	
					-			
2.5	Degree of				-			
	Privacy							
	Windows	N/A			1			
ا ``	TTIII GOWS	IVO.						
.7	Glazed Screen	N/A			. 		·	<u> </u>
,	Glazeu Gereen	IWA						
.0	Services - Refer to	Somione Canalific			<u>. </u>		<u>.</u>	
	Environment	Winter Temp °C			<u> </u>	1		
"	LIMITORITIER		Summer Temp °C	Air Humiar	у	Vent supply	Vent Extract	Control
ı		19degC min.	26max if cooling	Not control	led	8 air changes per	10 air changes	PIR control on
┩	·· ··· ·	200 lux	provided	ļ	Ц.	hour.	per hour	fans and lighting
ر ا	Lighting			Control		PIR control and sw	itch	
.2					11 :	in tooming and si	ILGIT	
	- •	IP65 fittings						
.3	Acoustic Req'mts							
		NR45					· · · · · · · · · · · · · · · · · · ·	
	Acoustic Req'mts	NR45	Computer	Fax		TV socket	FM socket	Other
.3	Communications	NR45 Telephone		Fax		TV socket	FM socket	Other
.3		NR45		Fax		TV socket	FM socket	Other
.3	Communications Power sockets	NR45 Telephone		Fax		TV socket	FM socket	Other
.3	Communications Power sockets Panic Alarm/	NR45 Telephone		Fax		TV socket	FM socket	Other
.3	Communications Power sockets	NR45 Telephone Fuse spurs for ha	and dryers	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		TV socket	FM socket	Other
.3 4 5	Communications Power sockets Panic Alarm/	NR45 Telephone Fuse spurs for ha		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		TV socket	FM socket	Other
.3 4 5	Communications Power sockets Panic Alarm/ Security	NR45 Telephone Fuse spurs for ha	and dryers	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		TV socket	FM socket	Other
.3 4 5	Communications Power sockets Panic Alarm/ Security	NR45 Telephone Fuse spurs for ha	and dryers	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s			FM socket	Other
3 4 5 6	Communications Power sockets Panic Alarm/ Security Other	NR45 Telephone Fuse spurs for ha	and dryers	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		Spec Ref	FM socket	Other
3 4 5 0	Communications Power sockets Panic Alarm/ Security Other	NR45 Telephone Fuse spurs for ha	and dryers	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		Spec Ref N13	FM socket	Other
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3 4 5 6 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Communications Power sockets Panic Alarm/ Security Other Fittings Urinals WC pans Vanity units	NR45 Telephone Fuse spurs for his	and dryers	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		Spec Ref N13 N13 N13	FM socket	Other
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.3 .4 .5 .5 .0	Communications Power sockets Panic Alarm/ Security Other Fittings Urinals WC pans Vanity units Duct panels througo Vanity screen	NR45 Telephone Fuse spurs for harmonic water connections	and dryers	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		Spec Ref N13 N13 N13	FM socket	Other
3 4 5 6 0	Communications Power sockets Panic Alarm/ Security Other Fittings Urinals WC pans Vanity units Duct panels througo Vanity screen Ambulent package t	NR45 Telephone Fuse spurs for harmonic water connections	and dryers	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		Spec Ref N13 N13 N13 K32 K32	FM socket	Other
.3 .4 .4 .5 .5 .6 .0	Communications Power sockets Panic Alarm/ Security Other Fittings Urinals WC pans Vanity units Duct panels througo Vanity screen	NR45 Telephone Fuse spurs for harmonic water connections out	and dryers	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		Spec Ref N13 N13 N13 K32	FM socket	Other

	JOW DATA				Ц_		•	
Pro		120	4			File Ref		-
	om Name	Female WC				Date of origin:	Aug-10	
Roc	om Number	A613		:		Level	Fourth Floor (4)	
1.0	General			1		-		<u> </u>
1.1	Use	Toilets				· ·	:	
1.2	Occupancy		· · · · · · · · · · · · · · · · · · ·	-				
1.3	Dimensions	Area (m2)	15.5					
1.4	Planning	ļ						
	Relationships							
1.5	Fire	<u> </u>		-			- , -	 .
2.0	Building Element	5				Spec Ref	- -	
2.1	Floors	Floating Screed				M10		<u> </u>
	Finish	Non slip Vinyl		•		,0		
2.2	Walls.	Plasterboard Part	tions	,		K10		
	Finish	Paint	•			NIO .		
2.3	Ceilings	Lay in Mineral Tile	Acoustic performa	ince .		K10		
	Door/s &	Solid Timber Vene				L20		
	Lock Type					LZV		
	Degree of							
	Privacy						•	
2.6	Windows	N/A			-		·	
	Glazed Screen	N/A						
_	Services - Refer to		ation	- · ·			 	
	Environment	Winter Temp °C	Summer Temp °C	Air Humidit		Vent supply	V450 1	<u> </u>
•		19degC min.	26max if cooling	All Fluidicity	-	8 air changes per	Vent Extract	Control
			provided	Not controll	d	hour.	10 air changes per hour	PIR control on
		200 lux		<u> </u>		moun.	per riour	fans and lighting
3.2	Lighting	IP65 fittings		Control		PIR control and sw	vitch	
				- 4				
3.3	Acoustic Req'mts	NR45			<u> </u>	· · · · · · · · · · · · · · · · · · ·		·
		, , , , ,						•
3,3	Communications	Telephone	Computer	Fax	!	TV analysis	Ett. i.e.	
_		rolophone	Computer	rax		TV socket	FM socket	Other
.4	Power sockets	Fuse spurs for ha	and dryers		 	 		
		acc oparo ioi iii	and drycra					
.5	Panic Alarm/		.		 -		<u> </u>	
	Security							
		Water connections	to MC and week he	and books				
"	outer :	vvater confidentions	to WC and wash na					····
.0	Fittings					Cura D. C		
	WC pans				μ.	Spec Ref	r -	
	Vanity units		•	·		N13		•
	varity units Duct panels througo	uit			i	N13		
	Vanity screen	· ·			i,	K32		
	vanity screen Ambulent package to	n WC				N13		
	rmoulent package to Hand dryers	U WVC						
		· .	•			N13		
1,	Mirrors above vani	ıty			i	N13		

	DOM DATA		n4		_			
	om Name	120 Dia 140	U4			File Ref		
		Dis. WC				Date of origin	i: Aug-10	
	om Number	A612			:	Level	Fourth Floor (4))
1.0		luo	· <u> </u>		Ш			
1.1	Use	wc			-			<u> </u>
1.2	Occupancy						 <u>-</u>	
1.3	Dimensions	Area (m2)	3.3		-	<u> </u>	· · · · ·	
	1	, , ,			:	_		
1,4	Planning			.	<u>:</u>			
1.5	Relationships							
1.5	Fire		,		.:			
2.0	Building Element	ls	.		ŦÌ	Spec Ref	<u></u>	
2.1	Floors	Floating Screed		<u> </u>		M10		
	Finish	Non Slip vinyl			- 1			
2.2	Walls	Plasterboard Par	titions		-	K10		
	Finish	Paint			:			•
					:			
2.3	Ceilings	Lay in Mineral Til	e		+	K10		
					÷			•
2,4	Door/s &	Solid Timber Ven	eered		-	L20		
	Lock Type				1			
2.5	Degree of			-	1	<u> </u>		-
	Privacy	1						
2.6	Windows	N/A						_
2.7	Glazed Screen	N/A				<u> </u>		
3.0	Services - Refer to	Sancions Specifi	antion .	· · · · · · · · · · · · · · · · · · ·	-+-			
	Environment	Winter Temp C	Summer Temp	C Air Humidibe	1 1	/ent supply	Vent Extract	Control
		21degC min.	Common Temp	O Fill Fidinially	+1	Vent Supply	10 air changes	PIR control on
	_		Not controlled	Not controlled		!	per hour	fans and lighting
.2	Lighting	200 lux IP65 fittings		Control	F	IR control and	switch	
					1			
.3	Acoustic Req'mts	NR45		-		:		·-
.3	Communications	Telephone .	Computer	Fax	Ť	V socket	FM socket	Other
.4	Power sockets	Fuse spur for ha	nd dryers		- Trompo	1		 .
.5	Panic Alarm/	Disabled Toilet Ala			4		·	<u> </u>
	Panic Atarm/ Security	Disabled Tollet Ala	16 (1)		and the same			
7		Deisgned to meet	Doc M.	 -	#	·		
Je	Other	Floor gulley Water connections to WC and wash hand basin				,		
.6							,	
	Cittlene				111	: :		
	Fittings					pec Ref		
	Part M package					13		<u> </u>

Proj	ect	1204					File Ref		
Roo	Name Kitchen Number A611				:		Date of origin:	Aug-10	
Roo	m Number	A611			:		Level	Fourth Floor (4)	
1.0	General				İ				
1.1	Use	Kitchen						*	*
		ľ							
1.2	Occupancy						17		*-
					:			•	
1.3	Dimensions	Area (m2)	6.6				-	- .:-	
	-						•	•	
					ļ				
1.4	Planning								•
	Relationships							•	
1.5	Fire	1							
			<u> </u>		ان		·		
	Building Elements		·		Ц	<u> </u>	Spec Ref		
1.1	Floors	Floating Screed	•		-		M10		
	Finish	Non Slip vinyl			:				
2.2	Walls	Plasterboard Partin	tions		-		K10		
	Finish	Vinyl							
	Ceilings	Lay in Mineral Tile					K10		
	Door/s &	Solid Timber Vene	ered				L20		
	Lock Type	ĺ						•	
2.5	Degree of				j				
_	Privacy				_		*		· · · · · · · · · · · · · · · · · · ·
	Windows	N/A						•	
	Glazed Screen	N/A							·
_	Services - Refer to				-		 .		
3.1	Environment	Winter Temp °C	Summer Temp °C		-		Vent supply	Vent Extract	Control
		18degC	not controlled	not control	ed		Extract hood over		Local Controls
.2	Lighting	500lux		Control			High Frequency C		
.3	Acquetic Declara				1	-	Manual Switching	·	
٠.٥	Acoustic Req'mts					:			-
.3	Communications	Talanhana	Computer	Fax	H		T) / a a alvat	Etttt	0.1
۳ ا	Continuincations	Yes	Computer	FdX		•	TV socket	FM socket	Other
.4	Power sockets		supplies to electrica	Landianoso					·
·	· Otter Souncis	Power sockets abo		appliances					•
.5	Panic Alarm/	· OVIOI GOORGIS GBC	· · · · · · · · · · · · · · · · · · ·		-				<u>.</u>
	Security								•
_	Other	Gas connections to	cookers and hobs.		H			-	······································
.			water connections						
		amago ana nac		aa raquiicu					
							•		
	_								
			•				•		
\dashv	Fridge	<u> </u>			-		N11		- -
- 1							1111		

Proj	ect	1204			H		File Ref		
Roo	m Name	Store					Date of origin:	Aug-10	
Roo	m Number	A605					Level	Fourth Floor (4)	
	General				<u>: </u> 			Tourant loor (1)	
	Use	Control Room			+				
					:				
1,2	Occupancy								
								•	
1.3	Dimensions	Area (m2)	14.8		Ì				
							•		
						_			•
1.4	Planning			• • •	- 1			•	
	Relationships				:				
.5	Fire								
		<u> </u>						· · · · · · · · · · · · · · · · · · ·	
	Building Elements				Ш		Spec Ref		
.1	Floors	Floating Screed	•	:			K41		
	Finish	Vinyl			:		M50		
.2	Walls	Plasterboard Partit	ions	Fire rated	1		K10		
	Finish	Paint		•	1		M60		
	Ceilings	Lay in Mineral Tile					K10		
	Door/s &	Solid Timber Vene	ered	Fire rated			L20		
	Lock Type				-				
2.5	Degree of	·							
	Privacy								
	Windows	N/A			:				•
	Glazed Screen	N/A ·			1				
_	Services - Refer to			1	Ц		·		
.1	Environment		Summer Temp °C				Vent supply	Vent Extract	Control
		15 degC	not controlled	not contro	lle	1	not controlled	not controlled	not controlled
	Lighting	200 Lux for simple		Control			Manual Switching		
.2		300 Lux for storage small items. 200 Lu		į			Timer		•
		fronts of shelving	ix vertically for	1			.*		
		nonts of sitering		. Alexandra					
				1					
.3	Acoustic Reg'mts	None				:			
	Requirements			1		:			
.3	Communications	Telephone	Computer	Fax			TV socket	FM socket	Other
_					Ц	1 -			
.4	Power sockets	Yes							.*
_	Danis Aleres			- 1	11				
3.5	Panic Alarm/			4					
	Security			4	Н	· 	-,		
3.6	Other	1		1000			•		

_	ON DATA 3		· · · · · · · · · · · · · · · · · · ·			
Proj	ect	1204				File Ref
Roo	m Name	Lift Lobby			H	Date of origin: Aug-10
Roo	m Number	A606	•		!	Level Fourth Floor (4)
1.0	General	11000			H	
	Use	Stair			! !	
		Sidil				
1.2	Occupancy					
1.3	Dimensions	Area (m2)	8.3	• :		
1.4	Planning Relationships			-		
1.5	Fire					
2.0	Building Elements			i	Ħ	Spec Ref
	Floors	Floating Screed			H	M10
	1 10013	Trouting objects				19110
0.0						
2.2	Walls	Plasterboard Partit 140mm Blockwork Plasterbord Wall Li				K10 F10 K10
2.3	Ceilings	Lay in Mineral Tile	·			K10
		0 51 25 1 14		-		
2.4	Door/s &	Solid Timber Vene	erea			L20
	Lock Type		,			•
2.5	Degree of Privacy			•		
2.6	Windows	N/A		•	1	•
2.0	Wildows	IN/A				
2.7	Glazed Screen	N/A		-		
3.0	Services - Refer to	Services Specific	ation	1	ή	
	Environment		Summer Temp °C	Air Humidit	V	Vent supply Vent Extract Control
ľ'.'	-itali olillietif	20degC	not controlled	not control		
3.2	Lighting	200 lux Lighting to the lift controls and doorways	TIDE COTIBORES	Control		High Frequency Control Gear Manual switching
3.3	Acoustic Req'mts Requirements					· · · · · · · · · · · · · · · · · · ·
3.3	Communications	Telephone	Computer	Fax		TV socket FM socket Other
3.4	Power sockets	Cleaners socket		·		· · · · · · · · · · · · · · · · · · ·
3.5	Panic Alarm/ Security			- Control for the second		
3.6	Other	Pressurised - depe	ndent on fire strate	ЭУ		
					H	

	UN DATAS		<u> </u>				
Projec	ct 1 Name	1204 South Stair	•		File Ref		
		South Stair		!	Date of origin:	Aug-10	
	Number	A607	··		Level	Fourth Floor (4)	<u> </u>
	General Jse	Stair					
	Jse 	Stair					
1.2	Occupancy						
1.3	Dimensions	Area (m2)		. !			
	Planning Relationships					<u>,</u>	
	ire		· ·		<u> </u>	-	
2.0 B	Building Elements	<u> </u>	-	1 1	Spec Ref		
_	loors	Floating Screed		<u>: </u>	M10		
			•				
				:			,
		Ī				•	
2.2 W	Valls	Plasterboard Partit	ions	-	K10		
		140mm Blockwork			F10		
		Plasterbord Wall L	ining	:	K10		
2.3 C	eilings	Lay in Mineral Tile			K10		<u>.</u>
2.4 D	ooris &	Solid Timber Vene	ered		L20		
L	ock Type			:			
	egree of rivacy		,,,		_	<u> </u>	
	/indows	N/A			-		
2.7 G	lazed Screen	N/A	· ·				· · · · · · · · · · · · · · · · · · ·
3.0 S	ervices - Refer to	Services Specific	ation				•
	nvironment		Summer Temp °C	Air Humidity	Vent supply	Vent Extract	Control
		20degC	not controlled	not controlled	not controlled	not controlled	none
	ighting	150 lux on all tread	s	Control	High Frequency (Manual switching	Control Gear	
	coustic Req'mts equirements			100, 400, 100			
		Telephone	Computer	Fax	TV socket	FM socket	Other
.4 Pc	ower sockets	Cleaners socket	<u> </u>				<u> </u>
	anic Alarm/ ecurity				· · · · · · · · · · · · · · · · · · ·		
		Pressurised - deper	ndent on fire strateg	jy			
.0 Fit	ttings ainted 40mm dia h		 ,		Spec Ref		<u></u> .
				L30			

	JOM DATA S						<u> </u>	
Pro _.	ject	120			1	File Ref		
Roc	m Name	Waiting Area	3		i	Date of origin:	Aug-10	
Roo	m Number	A604			1	Level	ThirdFloor (3)	
1.0	General	·			i	<u> </u>		
1.1	Use	Waiting Area			•	<u> </u>		
1.2	Occupancy				1			
					-			
1.3	Dimensions	Area (m2)	89		- :			
					1			
		<u></u>		-	1			
1.4	Planning	.,,	<u>- </u>	<u> </u>	1			-
	Relationships							
1.5	Fire							
					-	<u> </u>		
2.0	Building Elements				1	Spec Ref		
2.1	Floors	Floating Screed				K41		
	Walls	Plasterboard Parti				K10		
2.3	Ceilings	Lay in Mineral Tile				K10		
		1			-	<u> </u>		
2.4	Door/s &	Called Timber Mana			i			
2.4	1	Solid Timber Vene	erea			L20		
	Lock Type					! !		
2.5	Degree of	-	· ·		1	<u> </u>	· · · · · · · · · · · · · · · · · · ·	
0	Privacy	İ	•		-			
2.6	Windows	N/A			-	1	 	_ .
		[""			:			
2,7	Glazed Screen	N/A			÷	<u> </u>	-	
					:			
3.0	Services - Refer to	Services Specific	ation		i	· · · ·		•
.1	Environment	Winter Temp °C	Summer Temp °C	Air Humidity	T	Vent supply	Vent Extract	Control
		20degC min.	26deg C max	Not controlled		101/s person	As supply	BMS Controls
.2	Lighting		00 lux over seating	Control		Manual switching		
		areas.						
			ant areas, displays,					•
_		notice boards etc		<u> </u>]		
.3	Acoustic Req'mts	NR38		:				
		_ .						· · · · · · · · · · · · · · · · · · ·
1.3		Telephone	Computer	Fax		TV socket	FM socket	Other
.4		Yes Floor boxes under	tabla		1	Yes	Yes	
.4	rower sockers			ounted display		·	الماسمال	
.5	Panic Alarm/	i owei allo dala	sockets for wall m	ounted display	S	creens (i v and r	NEIMOLK)	
	Security							
	Other					 		· .
٠.	O11161							
.0	Fittings				#	Spec Ref	.	
	Internal Blinds			<u> </u>	1	N10		·
					- 1	INTO		

_	oject	12			4			·
	om Name	Corridor	U 4			File Ref		
	om Number	- A602				Date of origin:		
	General	AUUZ			#	Level	Lower Ground	Floor (-2)
1.1		Corridor	<u></u>		Щ			
ļ	030	Cornadi						
1.2	Occupancy	 	_		+			
	i vocapanioy		•					
1.3	Dimensions	Area (m2)	14.3		+			
			1110					
		1						
1.4	Planning	<u> </u>			+			
	Relationships	1						
1.5	Fire			<u>_</u>	+	-:		
	<u> </u>	1	•		:			
2.0	Building Element	s			1	Spec Ref		
2.1	Floors	Floating screed	-	-	+			
	Walls	Plasterboard Partitions		Fire rated	i	K10		•
2.3	Ceilings					K10		
	1							•
2.4	Door/s &	Solid Timber Pair	t Grade	Fire door	3	L20		
	Lock Type							
								4
2.5	Degree of		·	•				
	Privacy						•	
2.6	Windows	N/A						
		<u></u>						
2.7	Glazed Screen	N/A						
لب		<u> </u>						
1.0	Services - Refer to	Services Specific						
.1	Environment	Winter Temp °C	Summer Temp °			Vent supply	Vent Extract	Control
.2	I task 4tm m	not controlled	not controlled	not contro	iled	not controlled	not controlled	not controlled
ا ''	Lighting	200 Lux		Control		Manual Switching		<u> </u>
.3	Acoustic Regimts	None			111	<u> </u>		
	Requirements					•		
	Communications	Telephone	Computer	Fax	7	TV socket	EM applied	04.
_			- ompator	1 UA	A. C.	i a zocket	FM socket	Other
4	Power sockets	cleaners socket	-		\mathbb{H}		- ·	
			•					
5	Panic Alarm/	- -	<u> </u>	.	₩			
	Security							
6 (Other	·		 -	1	<u> </u>	- i .	
Υ I'								

	JOIN DATA	SHEE!				,		
	ject	120		- <u>-</u>		File Ref		
Roc	om Name	Escape Stai	r			Date of origin:	Aug-10	
Roc	om Number	A601				Level	Lower Ground	Floor (-2)
_	General		_	_	11			
1.1	Use	Stair					 	
4.0	<u> </u>	 						
1.2	Occupancy						· · ·	
1.3	Dimensions	Aroa (m2)	 					
1.0	Dillensions	Area (m2)						
		1						
1.4	Planning	 			+			
	Relationships	ŀ						
1.5	Fire				11-			
						<u> </u>		
2.0	Building Element					Spec Ref		-
2.1 2.2	Floors	Precast Concrete						
2.2 2.3	Walls Ceilings	140mm Blockwor	k Paint Grade			F10		
۷.۷	Cellings	N/A						
	ŀ							
2.4	Door/s &	Solid Timber Pain	t Grade	Fire door	<u>e </u>	L20		
	Lock Type	i i i i i i i i i i i i i i i i i i i	Columb	THE GOOD	3	L20		
] "							
2.5	Degree of		<u> </u>		-	<u>_</u>		
	Privacy	<u>L</u>						
2.6	Windows	N/A						
			. <u></u>		_		_	. •
2.7	Glazed Screen	N/A						
 1.0	Sandana Bafarta	Pariless Saudin			11 :			
	Services - Refer to Environment	Winter Temp °C		NA: II	111	- La - La - La - La - La - La - La - La	·	· ·
"	Livitotilletit	not controlled	Summer Temp °(not controlled			Vent supply	Vent Extract	Control
.2	Lighting	150 lux on all tread		not control	Ni60	not controlled	not controlled	none
	J			100,100	and the second	High Frequency C Manual switching		
.3	Acoustic Reg'mts					·		<u>_</u>
ļ	Requirements				11.			
.3	Communications	Telephone	Computer	Fax	11	TV socket	FM socket	Other
\Box			·	<u>. </u>	de l'on			
.4	Power sockets				7			
_	Danie Alessat		 -					
	Panic Alarm/ Security							
		Pressurised - depe	ndont on fire etc-1-					
_	Othar		nuent on the strate	:UV	111			
_	Other	r rosouriseu - uepe		<i>5</i> ,				
6	Other Fittings	Troodanioa - depe		 -		Spec Ref		

roje		1204			- 1	File Ref Date of origin:	. 40	
Roor	n Name	Number A603					Aug-10	
Roor	n Number .	A603	•			Level	ThirdFloor (3)	
	General				1			<u> </u>
	Use	Control Room	_					
			- <u></u>					
1.2	Occupancy							
					4			
1.3	Dimensions	Area (m2)	140.1		i			
	011							
1.4	Planning Deletionships							
1.5	Relationships Fire							
1.5	I'''e							
2.0	Building Elements			-	Ш	Spec Ref		
2.1	Floors	Raised Floor		<u>-</u>		K41		
	Walls	Plasterboard Partit	ions		- :	K10		
2.3	Ceilings	Lay in Mineral Tile						
2.4	Dooris &	Solid Timber Veneered				L20	,	•
	Lock Type							
2.5	Degree of							
	Privacy		 		-			_
2.6	Windows	N/A						
	ļ		. 		- 1			· · ·
2.7	Glazed Screen	N/A						
3.0	Services - Refer to	Sandres Specific	ration		П			
3.1	Environment	Winter Temp C	Summer Temp C		- Perfect	Vent supply	Vent Extract	Control
5, 1	Littionine	20degC min	24+/-2degC		200	10l/s person	10l/s	Local Room
	,		26max	·	or or or or	<u></u>		Controller
3.2	Lighting	500lux		Control	000	Manual Switchir	ng	
		Linear fluorescent			1			
3.3	Acoustic Regimts	NR 38						
				<u> </u>	111		FM socket	Other
3.3	Communications	Telephone	Computer		20.00	TV socket	FM socket	Other
L		Yes	Yes	Yes	11	Yes		<u>-</u>
3.4	Power sockets	Dedicated 3 phas	e suppiy.		4			
۰		UPS back-up Restricted Access	Control	<u> </u>	1			·
3.5		Restricted Access	COMIN					
2 6	Security	Gaseous Fire Pro	tection System?					
3.6	Other	Caseous i lie i ic					<u></u>	
40	Fittings	<u> </u>			Ш	Spec Ref		
7.0	Internal Blinds					N10		
					- 1	NIA4		
	Kitchen Base and	Wall Units			- 1	N11		

Proje		1204 Corridor	-	-		File Ref Date of origin:	Aug-10	
		A602				Level	Lower Ground Fl	oor (-2)
	General	HOOL		- 1	+		201101 010011011	00. (2)
		Corridor			,			
1.2	Occupancy							
1.3	Dimensions	Area (m2)	•		-			
	Planning Relationships	i .				·		
1.5	Fire .							
2.0	Building Elements			, see .		Spec Ref		
		Precast Concrete s Plasterboard Partit		Fire rated		K10		
2.3	Ceilings	Lay in mineral tile		· .		K10		
2.4	Dooris & Lock Type	Solid Timber Paint	Grade	Fire doors		L20		
2.5	Degree of		- -	-				
2.6	Privacy Windows	N/A	_					
2.7·	Glazed Screen	N/A						
3.0	Services - Refer to	Services Specific						
3.1	Environment	Winter Temp °C	Summer Temp °C			Vent supply	Vent Extract	Control
		not controlled	not controlled	not control	ed	not controlled	not controlled	not controlled
3.2	Lighting	200 Lux		Control		Manual Switching	j	•
3.3	Acoustic Req'mts Requirements	None .	,					
3.3	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other
3.4	Power sockets	cleaners socket						·.
3.5	Panic Alarm/ Security					•		
3.6	Other _			· contrament				

Pro	ject	1204		1	File Ref	<u>.</u>	
Ro	om Name	Escape Stair			Date of origin:	Aug-10	
Roc	om Number	A601			Level .	Lower Ground	Floor (-2)
1.0	General	<u> </u>		Ť			1 1001 (2)
1.1	Use	Stair	·			· · · · · ·	-
1.2	Occupancy			<u> </u>			
1.3	Dimensions	Area (m2)	·				<u> </u>
1,4	Planning Relationships						· · · · ·
1.5	Fire						
2.0	Building Elements	T		Ĺ	Spec Ref		-
2.1 2.2	Floors Walls	Precast Concrete stairs 140mm Blockwork Paint Grade			F10		
2.3	Ceilings	N/A					
2.4	Door/s & Lock Type	Solid Timber Paint Grade	Fire doors		L20		
2.5	Degree of Privacy				· · · · · · · · · · · · · · · · · · ·	_	
2.6	Windows	N/A					
2.7	Glazed Screen	N/A			<u> </u>		
		Services Specification		Ť.		-	
3,1	Environment	Winter Temp °C Summer Temp °	C Air Humidity		Vent supply	Vent Extract	Control
		not controlled not controlled	not controlle	d	not controlled	not controlled	none
	Lighting	150 lux on all treads	Control		High Frequency C Manual switching	ontrol Gear	
	Acoustic Reg'mts Requirements	-					
3.3	Communications	Telephone Computer	Fax		TV socket	FM socket	Other
3.4	Power sockets						
	Panic Alarm/ Security						,
_		Pressurised - dependent on fire strate	egy		 	•	
	Fittings			+	Spec Ref		
ı	Painted 40mm dia h	andrails	•		L30		

		. i	-		
			Ref		
•	Da	ate	of origin:	Aug-10	
	Le	VE	el	Third Floor (3)	
		1			
					<u> </u>
 -		1			
_		1			-
		-	<u> </u>		
		-	<u> </u>		-
		<u>.</u>	Ref		· · ·
	<u>Sp</u> M1	-	1461		
Fire	rated K1			-	
, ,,,	K1				
Fire	rated L20				
	CZ(-			
		- 1			
		i	 		
		Ŧ	_	:	
Temp C Air H	umidity Ver	it s	Supply	Vent Extract	Control
			35 air chan		BMS and Local
				air handling unit.	controllers
1	Ext	rac	t canopy ov	er cooking range	Fans linked to
	(spe	scia	al installatio	n).	Gas Safe Guard
	Flue	tc	roof.		Panel .
Cont	trol High	h F	requency C al Switching	Control Gear	<u>.t</u> .
			Juniorang	<u> </u>	
г Fax	TV		cket	Eld as alred	0
office		SUL	xet:	FM socket	Other
n board.		<u> </u>		 -	
electrical appli	ances	1			
urfaces			ļ		
		+	1	 -	
		1			
and hobs.		11	1 .		
ma nosa.		4400	:		
nections as soc	utited	78.65.00			
nections as 160 xtraction exeten	juileu. Nover dishwashar	1			
aouon ayaten	. Over mailwavilei.		-		
	_	1	 		<u> </u>
·					
rı x1	ections as req traction systen		traction system over dishwasher.	traction system over dishwasher.	ections as required. traction system over dishwasher. Spec Ref

-	JOW DATA				<u>.</u>		·	<u> </u>
	ject	120	14		d	File Ref		
	om Name	Dis. WC				Date of origin	n: Aug-10	
	om Number	A507		·		Level	Third Floor (3)	
<u>1.0</u>		-			ŦŢ			
1.1	Use	WC						<u> </u>
1.2	Occupancy							
1.3	Dimensions	Area (m2)	3.3				 	· · · · · · · · · · · · · · · · · · ·
1.4	Planning	 		· ·	- !			
	Relationships	·			- :			•
1.5	Fire							
2.0	Building Elemen	ts			त्तं	Spec Ref		
2,1	Floors	Floating Screed			+	M10		
_			<u></u>					
2.2	Walls	Plasterboard Part	itions		:	K10		
	·				:			
.3	Ceilings	Lay in Mineral Tile				K10		
.4	Door/s &	Solid Timber Vend	ered		- +	L20		
	Lock Type				-	L20		
.5	Degree of	 	- —		+	<u> </u>		
	Privacy							
	Windows	N/A			1		 	
7	Glazed Screen	N/A			-	<u> </u>	·	· · ·
ᆚ	0	<u> </u>			+		<u> </u>	
		Services Specific		<u> </u>	1			
.1	Environment	Winter Temp C	Summer Temp C	Air Humidity		Vent supply	Vent Extract	Control
		21degC min.	Not controlled	Not controlled			10 air changes per hour	PIR control on fans and lighting
2	Lighting	200 lux IP65 fittings		Control	1	IR control and	switch	
3	Acoustic Req'mts	NR45			Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Commen	:		
3	Communications	Telephone	Computer	Fax		V socket	FM socket	Other
4 1	Power sockets	Fuse spur for ha	nd dryers		2		<u></u> .	
	Panic Alarm/ Security	Disabled Toilet Ala				<u>-</u>		· · ·
3	Other	Deisgned to meet I Water connections Floor gully	Doc M. to WC and wash ha	and basin.	A			· · · · · · · · · · · · · · · · · · ·
'				· ·	4.1	1		
	ittings				1 -	pec Ref	 	

Project	12	<u></u>		Fir. D. 4		
Room Name	Female WC		. :	File Ref		
			1	Date of origin	•	
Room Number	A508			Level	Third Floor (3)	
1.0 General	I= '11 /					
1.1 Use	Toilets		:	-		
1.2 Occupancy		 			<u> </u>	
1.3 Dimensions	Area (m2)	15.1	 		<u> </u>	
			:		•	
1.4 Planning					<u> </u>	
Relationships 1.5 Fire	- 	<u> </u>				-
			. :			
2.0 Building Elemen				Spec Ref		
2.1 Floors	Floating Screed		. :	M10		
2.2 Walls	Plasterboard Part	itions		K10	<u> </u>	
.3 Ceilings	Lay in Mineral Tile	Acoustic performa	ance	K10		·
4 Door/s &	Solid Timber Vene	eered		L20		
Lock Type						
5 Degree of Privacy		· .				<u> </u>
6 Windows	N/A		<u>-</u> _		_ _	
	IN/A					
7. Glazed Screen	N/A					
0 Services - Refer to	Services Specific	ation	- i		<u> </u>	
1 Environment	Winter Temp °C	Summer Temp °C	Air Humidity	Montainali	he e	·
	19degC min.	26max if cooling provided	Not controlled	Vent supply 8 air changes per hour.	Vent Extract 10 air changes per hour	PIR control on
2 Lighting	200 lux IP65 fittings	<u>, , , , , , , , , , , , , , , , , , , </u>	Control	PIR control and s	<u> </u>	fans and lighting
Acoustic Req'mts	NR45	-			<u>.</u> .	<u> </u>
Communications	Telephone	Computer	Fax	TV socket	FM socket	Other
Power sockets	Fuse spurs for ha	nd dryers		:		
Panic Alarm/ Security		<u> </u>				· · · · · · · · · · · · · · · · · · ·
Other	Water connections	to WC and wash ha	and basin		·	<u> </u>
<u> </u>		- 110011110	and busin			
						.

	DOM DATA	SHEET						
Pro	ject	12	04		+-	File Ref		
Roc	om Name	Male WC	••			Date of origin:	Aug-10	
Roc	m Number	A509				Level	Third Floor (3)	
1.0	General		-		₩.		1111141 1001 (3)	
1.1	Use	Toilets	1		1	<u> </u>		
1.2	Occupancy	ļ						
1.3	D' 1	 				<u> </u>		
1.3	Dimensions	Area (m2)	15.5		1			
	1				-			
1.4	Planning	 						
	Relationships		•					
.5	Fire				+-			
	<u>.</u>	ļ						
	Building Element				1	Spec Ref		
.1	Floors	Floating Screed				M10		
i		1			-			
						÷		
		Ī			:		•	
.2	Walls	Plasterboard Part						
-	TTOIS	riasterboard Pan	itions			K10		
		1			: .			
.3	Ceilings	Lay in Mineral Tile	Acoustic performa	ince	+	K10		
			•					
_		<u> </u>						
- 1	Door/s &	Solid Timber Vene	eered			L20		
-	Lock Type	,						
5	Degree of							·
	Privacy.				-			
	Windows	N/A			+		-	<u> </u>
	<u>.</u>							
7	Glazed Screen	N/A						
Т			·					
) (Services - Refer to	Services Specific						
1	Environment	Winter Temp °C	Summer Temp °C	Air Humidi	ly 📗		Vent Extract	Control
		19degC min.	26max if cooling provided	Not control	lled		10 air changes	PIR control on
+		200 lux	Provided	<u> </u>	##	hour.	per hour	fans and lighting
չ	ighting.	IP65 fittings		Control		PIR control and swi	itch	
		Ĭ			4			-
1	coustic Reg'mts	NR45						
\perp								• .
C	ommunications	Telephone	Computer	Fax	\prod	TV socket	FM socket	Other
4	laura a set a t	Funn and 5			Ш_			
P	ower sockets	Fuse spurs for ha	and dryers			_ 		
P	anic Alarmi	 -			1 1			
15	ecurity						•	
S			•		111			
	ther							

ROOM DATA Project		204		Fire		
Room Name	Visitors Co			File Ref		
Room Number	A504	enue		Date of origin	ŭ	
1.0 General	A304			Level	Third Floor (3	<u> </u>
1.1 Use	Auditiorium		<u>_</u>			
i.i juse	Auditionam					
1.2 Occupancy						
1.3 Dimensions	Area (m2)	97.4				
1.4 Planning	 				·	
Relationships 1.5 Fire		<u> </u>			·	
File		•				
2.0 Building Elemen				Spec Ref		
2.1 Floors	Floating Screed			M10		
2.2 Walls	Plasterboard Pa			K10		
2.3 Ceilings	Lay in Mineral T	ile Acoustic perform	ance	K10		
2.4 Door/s &	Solid Timber Ve	neered	<u> </u>	L20		
Lock Type	Solid Villiago VO			1420		
2.5 Degree of		_	<u> </u>		<u> </u>	<u> </u>
Privacy						
2.6 Windows	N/A	•				
.7 Glazed Screen	Optima glazing	System		L10.		
.0 Services - Refer	io Services Speci	fication		1		
.1 Environment	Winter Temp C		C Air Humidity	Vent supply	Vent Extract	Control
	22-23degC	24-25degC	50%+/-10%	10l/s person	10l/s person	BMS Controlled
2 Lighting	300 lux general. 500 lux at screer		Control		ighting Control Sys	tem
.3 Acoustic Regimts			<u> </u>			
.3 Communications	Telephone	Computer	Fax	TV socket	- FM and the	011
	Yes	Yes		Yes	FM socket Yes	Other Induction Loop/ RF Radio Reinforcement system
4 Power sockets	For projector and	computer locations.				
5 Panic Alarm/ Security	PIR detectors			W		 :
6 Other	Air Leakage Rate	5m3/hr/m2 @50pa.	· · · · ·			· · · · · · · · · · · · · · · · · · ·
0 Fittings	<u> </u>		.	Spec Ref		
Manifestation			<u> </u>	LI10		· · · · · · · · · · · · · · · · · · ·
Black Out Blinds		,		N10		
Dividing Partition				1.1		
•			•	L'20		

Proj	OM DATA		204				
_	m Name	Chair Store			File Ref		
	m Number	A512	U		Date of origin	•	•
	General	AUIZ			Level	Third Floor (3	<u> </u>
_	Use	Office			<u>·</u>		
1.2	Occupancy		· .				
1.3	Dimensions	Area (m2)	10.8		<u></u>		
		Area (IIIZ)	10.0				- · · ·
	Planning	 	<u> </u>				
	Relationships Fire	 			<u> </u>		
				:			<u> </u>
	Building Element				Spec Ref		
2.1	Floors	Floating Screed		—— 	M10		
-		1	•				
				-			
				:			
	 						
2.2	Valls	Plasterboard Par	rtitions	:	K10		
-		1	•	. :			
.3 0	eilings	Lay in Mineral Ti	le		K10		
-					-		
.4	oor/s &	Solid Timber Ven	neered			<u></u>	·
	ock Type	Sour LINDSLAGI			L20		
	egree of	,	· ·				
	rivacy /indows	N/A				· .	
_	<u> </u>				•		
7 G	lazed Screen			!			-
		Services Specifi	cation		· · · · · · · · · · · · · · · · · · ·	<u> </u>	
	nvironment	Winter Temp °C	Summer Temp °0	C Air Humidity	Vent supply	Vent Extract	Control
\bot		15 degC	not controlled	not controlled	not controlled	not controlled	not controlled
₂ Li	ghting	200 Lux		Control	Manual Switching Timer		Joer oblita oned
	oustic Reg'mts	None		V-100	<u> </u>		<u> </u>
	quirements					•	
Co	mmunications	Telephone	Computer	Fax	TV socket	FM socket	Other
Po	wer sockets						
	nic Alarm/	<u> </u>				·	
Pa	the Midially 1			3.1			
	curity				:		•

	DOM DATA		· · · · · · · · · · · · · · · · · · ·						
Ргој Вас	ect m Name		04			File Ref			
		Sever				Date of origin	: Aug-10		
_	m Number	A512				Level	Third Floor (3)	
1.0 1.1	General Use	low		<u> </u>	1			_	-
1.1	Use	Office							
1.2	Occupancy		 		,		<u> </u>		
	Josephinoy								
1.3	Dimensions	Area (m2)	5.7	_	+				
	Planning				Ħ	<u> </u>	<u> </u>	<u> </u>	
	Relationships								
.5	Fire								
	Dulle - Et	<u> </u>							
	Building Element Floors				Ш	Spec Ref			
., 1	riou(5	Floating Screed			. :	M10			
			•						
ı		}							-
	-	1			:				
2	Walls	Plasterboard Part	titions			K10			
- 1						KIO			
					- :		•		
_									
3 (Ceilings	Lay in Mineral Tile	e	<u> </u>	- 1	K10			_
- 1						-			
4 [Door/s &	Colid Timbos Van	and the least	1 0 14	-:				
	ock Type	Sour Filliper vene	eered with glazed si	de light		L20/L10			
- [1				•			
5 C	Degree of		· · · · · ·						
P	rivacy		•				•		
6 V	Vindows	N/A			1				
7 G	Slazed Screen	See door Schedul	e		- !				
ŤŤ		<u> </u>		<u>.</u>			·		
) S	ervices - Refer to nvironment	Services Specific			1				
۱ ا ^د	MAHORIMENT	Winter Temp C 18degC	Summer Temp C 22degC			Vent supply	Vent Extract	Control	
		Todayo	Zzueyc	50% +/-10	440	10l/s per person.		Close Co	
) Li	ighting	500lux	<u></u>	Control	1	High Frequency (Control Coon	Local Cor	itrollers
ı				COMMO	7	Manual Switching	Control Gear		
Ā	coustic Req'mts	NR 45		·			<u> </u>		
		<u> </u>	•	•		•			
C		Telephone	Computer	Fax		TV socket	FM socket	Other	
╀		Yes	Yes		7		•		
Po	ower sockets	Dedicated Distribut	ion board with 3 ph	aśe supply					-
Pa	anic Alarm/	·					<u></u>		
	ecurity								
_		UPS back-up			##				
]"			nstallation - VRV sp	lite	7000		-		
1	ľ	Gaseous Fire Supp	ression System?	щэ.					
1		очер							

	oject om Name	Office 120	•		File Ref	dain.	
	om Number	A512			Date of o		
1.0		ADIZ			Level	Third F	00(3)
1.1		Office					
,	1036	Ollice			:		
1,2	Occupancy	 				 	
	1	l					
1.3	Dimensions	Area (m2)	24 3			<u> </u>	
			243				
							4
1.4	Planning					<u> </u>	
	Relationships	1 .	•		,		
1.5	Fire					 	
	<u> </u>	1					
2.0	Building Elemen	ts			Spec Ref		
	Floors	Floating Screed			M10	<u> </u>	
	Walls	Plasterboard Parti	tions		K10	!	•
	Ceilings	Lay in Mineral Tile			. K10		
2.4	Door/s &	Solid Timber Vene	ered with glazed si	ide light	L20/L10		-
	Lock Type	1			!		
2.5	Degree of	 			:	<u> </u>	<u> </u>
	Privacy				:	ļ.	
2.6	Windows	N/A				<u> </u>	
	- Indows						
.7	Glazed Screen	See door Scheduk				 	
		000 000, 00,,600,6	•				
.0	Services - Refer t	o Services Specific	ation			:	
	Environment	Winter Temp C	Summer Temp C	Air Humidity	Vent supply		ant Control
J		FCU - 20degC	FCU 22+/-2degC	FCU 55% +/-10		rson. Average of	
	FCU= Fan Coil Units	min .	24max	CHB 45% +/-10	person at Ai	r Handling Unit to	take Local Room
	or VRF CHB=Active Chilled	CHB - 22degC	CHB 24+/-2degC	Min 35%	account of n	neeting rooms.	Controllers
- 1	Beams	min .	26max		Extract 80%	of supply, with re	emainder
					extracted via	adjacent washr	emox
.2	Lighting	Average Daylight F	actor 5% (min 0 5)	Control	High Freque	ncy Control Gear	······································
		300-500tux (minimu	ım 200lux).		Daylight link	ed control to office	e perimeter zones,
- 1	•	30% of light on sof	it.		Manual Swit	ching.	
		300 for purely scree	n based work or	i	Separate sw	itching to internal	and perimeter zones.
		500 for mixed or ma	inly paper-based			1	
- 1		tacke			Time control		_
		tasks.	Ra80 or above		Time control	rolled blinds for g	lare control.
		tasks. Colour rendering of			Time control		lare control.
		tasks.	rking zone.		Time control		lare control.
		tasks. Colour rendering of Uniformity 0.8 in wo	rking zone. 2W/m2		Time control		lare control.
		tasks. Colour rendering of Uniformity 0.8 in wo Max lighting load 12 200 tux in circulation	irking zone. 2W/m2 n zones		Time control		lare control
3 4	Acoustic Req mis	tasks. Colour rendering of Uniformity 0.8 in wo Max lighting load 12	irking zone. 2W/m2 n zones	d no carpet fitted	Time control		lare control.
		tasks. Colour rendering of Uniformity 0.8 in wo Max lighting load 12 200 lux in circulation NR 38 - measured v	orking zone. 2W/m2 n zones with office empty an		Time control Manual cont	olled blinds for g	
	Acoustic Regimbs	tasks. Colour rendering of Uniformity 0.8 in wo Max lighting load 12 200 [ux in circulation NR 38 - measured v Telephone	orking zone. 2W/m2 In zones with office empty an Computer	Fax	Time control		
		tasks. Colour rendering of Uniformity 0.8 in wo Max lighting load 12 200 [ux in circulation NR 38 - measured v Telephone Yes	rking zone. 2W/m2 n zones with office empty an Computer Min 2 data sockets	Fax	Time control Manual cont	olled blinds for g	
3 C	Communications	tasks. Colour rendering of Uniformity 0.8 in wo Max lighting load 12 200 lux in circulation NR 38 - measured v Telephone Yes	rking zone. W/m2 n zones with office empty an Computer Min 2 data sockets per person	Fax For Secretaries	Time control Manual cont	olled blinds for g	Öther
3 C	Communications	tasks. Colour rendering of Uniformity 0.8 in wo Max lighting load 12 200 lux in circulation NR 38 - measured v Telephone Yes	rking zone. W/m2 n zones with office empty an Computer Min 2 data sockets per person	Fax For Secretaries	Time control Manual cont	olled blinds for g	
3 C	Communications Power sockets	tasks. Colour rendering of Uniformity 0.8 in wo Max lighting load 12 200 lux in circulation NR 38 - measured v Telephone Yes Small Power Load 2 points.	rking zone. 2W/m2 n zones with office empty an Computer Min 2 data sockets per person 15W/m2 (+ 5W/m2 in	Fax For Secretaries	Time control Manual cont	olled blinds for g	Öther
3 C	Communications Power sockets	tasks. Colour rendering of Uniformity 0.8 in wo Max lighting load 12 200 lux in circulation NR 38 - measured v Telephone Yes Small Power Load 2	rking zone. 2W/m2 n zones with office empty an Computer Min 2 data sockets per person 15W/m2 (+ 5W/m2 in	Fax For Secretaries	Time control Manual cont	olled blinds for g	Öther
3 C	Communications Power sockets Panic Alarm/ Security	tasks. Colour rendering of Uniformity 0.8 in wo Max lighting load 12 200 lux in circulation NR 38 - measured v Telephone Yes Small Power Load 2 points. P R detectors and w	rking zone. 2W/m2 n zones with office empty an Computer Min 2 data sockets per person 55W/m2 (+ 5W/m2 in indow contactors.	Fax For Secretaries n hot spots). 4 soc	Time control Manual cont	olled blinds for g FM socket	Öther
3 C	Communications Power sockets Panic Alarm/ Security	tasks. Colour rendering of Uniformity 0.8 in wo Max lighting load 12 200 lux in circulation NR 38 - measured v Telephone Yes Small Power Load 2 points. P R detectors and w Average Office Occu	urking zone. 2W/m2 n zones with office empty an Computer Min 2 data sockets per person 55W/m2 (+ 5W/m2 in indow contactors. upancy Density: 1 p	Fax For Secretaries n hot spots). 4 soc	Time control Manual cont	olled blinds for g FM socket	Öther
3 C	Communications Power sockets Panic Alarm/ Security Other	tasks. Colour rendering of Uniformity 0.8 in wo Max lighting load 12 200 lux in circulation NR 38 - measured v Telephone Yes Small Power Load 2 points. P R detectors and w	urking zone. 2W/m2 n zones with office empty an Computer Min 2 data sockets per person 55W/m2 (+ 5W/m2 in indow contactors. upancy Density: 1 pn3/hr/m2 @50pa.	Fax For Secretaries n hot spots). 4 soc	Time control Manual cont	olled blinds for g FM socket	Öther
3 C	Communications Power sockets Panic Alarm/ Security Other	tasks. Colour rendering of Uniformity 0.8 in wo Max lighting load 12 200 lux in circulation NR 38 - measured v Telephone Yes Small Power Load 2 points. P R detectors and w Average Office Occu Air Leakage Rate 5n	urking zone. 2W/m2 n zones with office empty an Computer Min 2 data sockets per person 55W/m2 (+ 5W/m2 in indow contactors. upancy Density: 1 pn3/hr/m2 @50pa. unditions:	Fax For Secretaries n hot spots). 4 soc	Time control Manual cont	olled blinds for g FM socket	Öther
3 C	Communications Power sockets Panic Alarm/ Decurity Other	tasks. Colour rendering of Uniformity 0.8 in wo Max lighting load 12 200 lux in circulation NR 38 - measured v Telephone Yes Small Power Load 2 points. P R detectors and w Average Office Occu Air Leakage Rate 5n Ambient Design Co	urking zone. W/m2 n zones with office empty an Computer Min 2 data sockets per person 55W/m2 (+ 5W/m2 ii indow contactors. upancy Density: 1 p n3/hr/m2 @50pa. conditions: RdegC	Fax For Secretaries n hot spots). 4 soc	Time control Manual cont	olled blinds for g FM socket	Öther
3 C	Communications Power sockets Panic Alarm/ Security Other	tasks. Colour rendering of Uniformity 0.8 in wo Max lighting load 12 200 lux in circulation NR 38 - measured v Telephone Yes Small Power Load 2 points. P R detectors and w Average Office Occi. Air Leakage Rate 5n Ambient Design Cc Summer Dry Bulb 25	urking zone. W/m2 n zones with office empty an Computer Min 2 data sockets per person 55W/m2 (+ 5W/m2 is indow contactors. upancy Density: 1 p n3/hr/m2 @50pa. conditions: degC IdegC	Fax For Secretaries n hot spots). 4 soc	Time control Manual cont	olled blinds for g FM socket	Öther
3 C	Communications Power sockets Panic Alarm/ Decurity Other	tasks. Colour rendering of Uniformity 0.8 in wo Max lighting load 12 200 lux in circulation NR 38 - measured v Telephone Yes Small Power Load 2 points. P R detectors and w Average Office Occi Air Leakage Rate 5n Ambient Design Co Summer Dry Bulb 25 Summer Wet Bulb 2	urking zone. W/m2 n zones with office empty an Computer Min 2 data sockets per person 55W/m2 (+ 5W/m2 in indow contactors. upancy Density: 1 p n3/hr/m2 @50pa. unditions: ddegC ddegC egC	Fax For Secretaries n hot spots). 4 soc	Time control Manual cont	olled blinds for g FM socket	Öther

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	•	120	J4		- 1	File Ref		
	om Name	Office			1	Pate of origin:	Aug-10	
$\overline{}$	om Number	A513			- 1	evel	Third Floor (3)	
1.0				-	Ŧ			
1.1	Use	Office			T			
1.2	Occupancy	<u> </u>			1			
1.3	Dimensions	Area (m2)	24.3		+		<u> </u>	
1.4	Planning	(2)	24.0		- -			
	Relationships	·						
1.5	Fire	-			+			
2.0	Building Element	<u></u>	 		ile	noo Dof		
2,1	Floors	Floating Screed				pec Ref	 -	
2.2	Walls	Plasterboard Pari	titions			10		
2.3	Ceilings	Lay in Mineral Til				10		
		1						
2.4	Door/s &	Solid Timber Ven	eered with glazed s	ide light		207.40		
	Lock Type	Total Timber Veri	cered with grazed Si	ide light		20/L10		
	"	1	*					
2.5	Degree of	i	<u> </u>		+	<u> </u>		
	Privacy							
2.6	Windows	N/A			+	<u> </u>		
2.7	Glazed Screen	See door Schedul			-			
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	Services - Refer to		cation		T		· · · · · · · · · · · · · · · · · · ·	
3.1	Environment	Winter Temp C	Summer Temp C		Vε	nt supply	Vent Extract	Control
	FCU= Fan Coil Units	FCU - 20degC	FCU 22+/-2degC		10	l/s per person, A	verage of 15-16l/s	BMS Control.
	or VRF	min CHB - 22degC	24max CHB 24+/-2degC	CHB 45% +/-10	рe	rson at Air Hand	ling Unit to take	Local Room
	CHB=Active Chilled		IUDB 24+1-20e01.	Min 35%	lain	count of meeting	I MAME	Controllers
				ſ	ام		, 1001110.	
	Beams	min	26max		Ex	tract 80% of sup	ply, with	
3.2		min Average Daylight I	26max	Control	Ex	tract 80% of sup th Frequency Co	ply, with	
	Beams Lighting	min Average Daylight I 0.5)	26max Factor 5% (min	İ	Ex	tract 80% of sup th Frequency Co	ply, with	
	Beams	min Average Daylight I 0.5)	26max Factor 5% (min	İ	Ex	tract 80% of sup th Frequency Co	ply, with	
3.3	Beams Lighting Acoustic Req'mts	min Average Daylight I 0.5) NR 38 - measured	26max Factor 5% (min with office empty a	nd no carpet fitted	Hiệ Da	tract 80% of sup th Frequency Co ylight linked con	ply, with ontrol Gear trol to office perime	eter zones.
3.3	Beams Lighting	min Average Daylight I 0.5) NR 38 - measured Telephone	26max	nd no carpet fitted	Hiệ Da	tract 80% of sup th Frequency Co	ply, with ontrol Gear trol to office perime	
3.3	Beams Lighting Acoustic Req'mts	min Average Daylight I 0.5) NR 38 - measured	26max -actor 5% (min with office empty al Computer Min 2 data	nd no carpet fitted	Hiệ Da	tract 80% of sup th Frequency Co ylight linked con	ply, with ontrol Gear trol to office perime	eter zones.
3.3	Beams Lighting Acoustic Req'mts Communications	min Average Daylight I 0.5) NR 38 - measured Telephone Yes	26max -actor 5% (min with office empty an Computer Min 2 data sockets per	nd no carpet fitted Fax For Secretaries	High Da	tract 80% of sup th Frequency Co ylight linked con Socket	ply, with ontrol Gear trol to office perime	eter zones.
3.3	Beams Lighting Acoustic Req'mts	min Average Daylight I 0.5) NR 38 - measured Telephone Yes	26max -actor 5% (min with office empty al Computer Min 2 data	nd no carpet fitted Fax For Secretaries	High Da	tract 80% of sup th Frequency Co ylight linked con Socket	ply, with ontrol Gear trol to office perime	eter zones.
3.3 3.3 3.4	Beams Lighting Acoustic Req'mts Communications Power sockets	min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load points.	26max	nd no carpet fitted Fax For Secretaries	High Da	tract 80% of sup th Frequency Co ylight linked con Socket	ply, with ontrol Gear trol to office perime	eter zones.
3.3 3.4 3.5	Beams Lighting Acoustic Req'mts Communications Power sockets	min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load	26max	nd no carpet fitted Fax For Secretaries	High Da	tract 80% of sup th Frequency Co ylight linked con Socket	ply, with ontrol Gear trol to office perime	eter zones.
3.3 3.3 3.4 3.5	Beams Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/ Security	min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load points. PIR detectors and Average Office Occ	26max	nd no carpet fitted Fax For Secretaries in hot spots). 4 soc	High Da	tract 80% of sup th Frequency Co ylight linked con socket	ply, with ontrol Gear trol to office perime FM socket	eter zones.
3.3 3.3 3.4 3.5	Beams Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other	min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load points. PIR detectors and Average Office Occ Air Leakage Rate 5	26max	nd no carpet fitted Fax For Secretaries in hot spots). 4 soc	High Da	tract 80% of sup th Frequency Co ylight linked con socket	ply, with ontrol Gear trol to office perime FM socket	eter zones.
3.3 3.3 3.4 3.5	Beams Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other	min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load points. PIR detectors and Average Office Occ	26max	nd no carpet fitted Fax For Secretaries in hot spots). 4 soc	High Da	tract 80% of sup th Frequency Co ylight linked con socket	ply, with ontrol Gear trol to office perime FM socket	eter zones.
3.3 3.3 3.4 3.5	Beams Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other	min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load points. PIR detectors and Average Office Occ Air Leakage Rate 5	26max Factor 5% (min with office empty at Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 window contactors. cupancy Density: 1 m3/hr/m2 @50pa. conditions:	nd no carpet fitted Fax For Secretaries in hot spots). 4 soc	High Da	tract 80% of sup th Frequency Co ylight linked con socket	ply, with ontrol Gear trol to office perime FM socket	eter zones.
3.3 3.3 3.4 3.5	Beams Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other	min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load points. PIR detectors and Average Office Occ Air Leakage Rate 5 Ambient Design C Summer Dry Bulb 2	26max	nd no carpet fitted Fax For Secretaries in hot spots). 4 soc	High Da	tract 80% of sup th Frequency Co ylight linked con socket	ply, with ontrol Gear trol to office perime FM socket	eter zones.
3.3 3.3 3.4 3.5	Beams Lighting Acoustic Req'mts Communications Power sockets Panic Alarm! Security Other	min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load points. PIR detectors and Average Office Occ Air Leakage Rate 5 Ambient Design C Summer Dry Bulb 2 Summer Wet Bulb	26max Factor 5% (min with office empty at Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 window contactors. supancy Density: 1 m3/hr/m2 @50pa. onditions: 19degC 21degC	nd no carpet fitted Fax For Secretaries in hot spots). 4 soc	High Da	tract 80% of sup th Frequency Co ylight linked con socket	ply, with ontrol Gear trol to office perime FM socket	eter zones.
3.3 3.3 3.4 3.5	Beams Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other	min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load points. PIR detectors and Average Office Occ Air Leakage Rate 5 Ambient Design C Summer Dry Bulb 2 Summer Wet Bulb 4	26max Factor 5% (min with office empty at Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 window contactors. supancy Density: 1 m3/hr/m2 @50pa. conditions: 19degC 21degC degC	nd no carpet fitted Fax For Secretaries in hot spots). 4 soc	High Da	tract 80% of sup th Frequency Co ylight linked con socket	ply, with ontrol Gear trol to office perime FM socket	eter zones.
3.3 3.4 3.5	Beams Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other	min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load points. PIR detectors and Average Office Occ Air Leakage Rate 5 Ambient Design C Summer Dry Bulb 2 Summer Wet Bulb	26max Factor 5% (min with office empty at Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 window contactors. supancy Density: 1 m3/hr/m2 @50pa. conditions: 19degC 21degC degC	nd no carpet fitted Fax For Secretaries in hot spots). 4 soc		tract 80% of sup th Frequency Co ylight linked con socket	ply, with ontrol Gear trol to office perime FM socket	eter zones.

110	ject	120	04		File	Ref		
Roc	om Name	Office				e of origin:	Aug 10	•
Roo	m Number	A514			- 1	•	Aug-10	
1.0	General	7014			Lev	eı	Third Floor (3)	
1.1	Use	Office			3			
				·	:			
1.2	Occupancy							
	' '					,		
1.3	Dimensions	Area (m2)	24.3		-+			
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		·	• •					
1.4	Planning	1	<u></u>		- 11			
	Relationships		· .		. 1			
1.5	Fire					,		
		<u> </u>		<u> </u>	i		•	
	Building Element	~			Spe	c Ref		
	Floors	Floating Screed			M10			
2.2	Walls	Plasterboard Part			K10			•
٠.٠	Ceilings	Lay in Mineral Tile	Э		K10			
		1						
2.4	Door/s &	Solid Timbor 1/2-2	openducitie electric	al Ricks				
	Lock Type	Toolid Tilliber Velli	eered with glazed si	ue lignt	L20/	L10		
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.5	Degree of	 			\dashv			
- 1	Privacy		•	•	:			
_	Windows	N/A			- +	<u> </u>		
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.7	Glazed Screen	See door Schedul	e		- +			
		<u>L.</u>		-	:			
.0	Services - Refer to	Services Specific	ation		П			
ا ا.	Environment	Winter Temp C	Summer Temp C	Air Humidity	Vent	supply	Vent Extract	Control
	FCU= Fan Coil Units	FCU - 20degC	FCU 22+/-2degC		10I/s	per person.	Average of 15-16l/s	BMS Control.
	or VRF	min	24max	CHB 45% +/-10	perso	n at Air Han	dling Unit to take	Local Room
	CHB=Active Chilled Beams	CHB - 22degC min	CHB 24+/-2degC 26max	Min 35%	accou	int of meetin	g rooms.	Controllers
-4	<u> </u>					ct 80% of su		
2 1	Lighting	Average Daylight F 0.5)	-actor 5% (min	Control		Frequency C		
_		[U.3]				ahtiotra di aa.	ntrol to office perime	ter zones.
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3 /	Acoustic Req'mts	NR 38 - measured	with office empty ar	I nd no carpet fitted	Dayrig	ini inikeu coi		
_L		<u></u>			AAA			
_L	Acoustic Req'mts Communications	Telephone	Computer	Fax	TV so			Other
_L		Telephone Yes	Computer Min 2 data		AAA			
3. 0		Telephone Yes	Computer Min 2 data sockets per	Fax For Secretaries	TV so	cket	FM socket	
3. 0	Communications	Telephone Yes	Computer Min 2 data sockets per 25W/m2 (+ 5W/m2	Fax For Secretaries	TV so	cket	FM socket	
3 · C	Communications	Telephone Yes Small Power Load printer/photocopier	Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 points.	Fax For Secretaries	TV so	cket	FM socket	
3 · C	Communications Power sockets	Telephone Yes Small Power Load	Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 points.	Fax For Secretaries	TV so	cket	FM socket	
3 · C	Communications Power sockets Panic Alarmi	Telephone Yes Small Power Load printer/photocopier PIR detectors and	Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 points. window contactors.	Fax For Secretaries in hot spots), 4 soc	TV so	cket r person. Ad	FM socket ditional sockets at	
3 · C	Communications Power sockets Panic Alarm/ Security	Telephone Yes Small Power Load printer/photocopier PIR detectors and	Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 points. window contactors. cupancy Density: 1	Fax For Secretaries in hot spots), 4 soc	TV so	cket r person. Ad	FM socket ditional sockets at	
3 · C	Communications Power sockets Panic Alarm/ Security	Telephone Yes Small Power Load printer/photocopier PIR detectors and Average Office Occ	Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 points. window contactors. cupancy Density: 1 m3/hr/m2 @50pa.	Fax For Secretaries in hot spots), 4 soc	TV so	cket r person. Ad	FM socket ditional sockets at	
3 · C	Power sockets Panic Alarm/ Recurity	Telephone Yes Small Power Load printer/photocopier PIR detectors and Average Office Occ Air Leakage Rate 5 Ambient Design C Summer Dry Bulb 2	Computer Min 2 data sockets per 25W/m2 (+5W/m2 points. window contactors. cupancy Density: 1 m3/hr/m2 @50pa. conditions: 19degC	Fax For Secretaries in hot spots), 4 soc	TV so	cket r person. Ad	FM socket ditional sockets at	
3 · C	Power sockets Panic Alarm/ Recurity	Telephone Yes Small Power Load printer/photocopier PIR detectors and Average Office Occ Air Leakage Rate 5 Ambient Design C	Computer Min 2 data sockets per 25W/m2 (+5W/m2 points. window contactors. cupancy Density: 1 m3/hr/m2 @50pa. conditions: 19degC	Fax For Secretaries in hot spots), 4 soc	TV so	cket r person. Ad	FM socket ditional sockets at	
3 · C	Power sockets Panic Alarm/ Decurity	Telephone Yes Small Power Load printer/photocopier PIR detectors and Average Office Occ Air Leakage Rate 5 Ambient Design C Summer Dry Bulb 2 Summer Wet Bulb 3	Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 points. window contactors. cupancy Density: 1 m3/hr/m2 @50pa. conditions; 29degC 21degC degC	Fax For Secretaries in hot spots), 4 soc	TV so	cket r person. Ad	FM socket ditional sockets at	
3 · C	Power sockets Panic Alarm/ Decurity	Telephone Yes Small Power Load printer/photocopier PIR detectors and Average Office Occ Air Leakage Rate 5 Ambient Design C Summer Dry Bulb 2 Summer Wet Bulb 1	Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 points. window contactors. cupancy Density: 1 m3/hr/m2 @50pa. conditions; 29degC 21degC degC	Fax For Secretaries in hot spots), 4 soc	TV so	cket r person. Ad	FM socket ditional sockets at	

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	ject	120	4		File	Ref		
Ro	om Name	Office			Dat	e of origin	Aug-10	
Ro	om Number	A515			Lev	rel	Third Floor (3)	
1.0	General				- 1	<u> </u>		·
1.1	Use	Office	-	<u> </u>		 	-	.
L	<u>L</u> .							
1.2	Occupancy				-			
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1.3	Dimensions	Area (m2)	24.3		i		· ·	
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1,4	Planning	1					-	
1.5	Relationships			<u>.</u> _	- 1	<u>i</u>	<u></u>	
1.5	Fire							•
2.0	Building Element	<u> </u>				<u> </u>	 	
2.1	Floors	Floating Screed	·- <u>-</u> -	<u></u>		c Ref		
2.2	Walls	Plasterboard Parti	tions		M10	1		
2.3	Ceilings	Lay in Mineral Tile			K10	i	•	
2.4	Door/s &		ered with glazed si	do liabt	K10		•	
J	Lock Type	Colla Tilliber Vella	cied with glazed Si	ue light	L20/	LIU	4	
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2.5	Degree of	_				1.	.	
	Privacy							
2.6	Windows	N/A		· · · · · · · · · · · · · · · · · · ·		<u> </u>		
					:			
2.7	Glazed Screen	See door Schedule	=		- :		<u> </u>	
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3.0	Services - Refer to	Services Specific			il			
3.1	Environment	Winter Temp C	Summer Temp C	Air Humidity	Vent	supply	Vent Extract	Control
	FCU= Fan Coil Units	FCU - 20degC	FCU 22+/-2degC				. Average of 15-16l/s	BMS Control.
	or VRF	min	24max	CHB 45% +/-10	pers	on at Air Ha	ndling Unit to take	Local Room
	CHB=Active Chilled Beams	CHB - 22degC min	CHB 24+/-2degC 26max	Min 35%	acco	unt of meet act 80% of s	ing rooms.	Controllers
2.0	<u> </u>	<u> </u>				<u> </u>		
3.2	Lighting	Average Daylight F 0.5)	actor 5% (min	Control			Control Gear	
3.3	Acquetia Barlesta		with affine and the		Day	ignt linkea c	ontrol to office perim	eter zones.
J.J	Acoustic Req'mts	NK 30 - measuled	with office empty a	nd no carpet litted				
3.3	Communications	Telephone	Computer	Fax	TV s	i Doğumlar	EM analyst	· -
		Yes	Min 2 data	For Secretaries	IV S	ockei	FM socket	Other
			sockets per	· Or Georgianes		:		
3.4	Power sockets	Small Power Load		in hot spots), 4 so	ckets n	er person	Additional sockets at	·
		printer/photocopier	points.	, ,	20,000			
3.5	Panic Alarm/	PIR detectors and	window contactors.			<u> </u>		
	Security	٠			1		•	
3.6	Other	Average Office Occ		person 10m2. Me	eting i	Rooms 1 pe	rson 2.5m2	
		Air Leakage Rate 5	im3/hr/m2 @50pa.					
		Ambient Design C					•	.]
		Summer Dry Bulb 2	•					
		Summer Wet Bulb	_					
		Winter Dry Bulb -4				1		
	F:142	Winter Wet Bulb -4	degC	<u>.</u>		<u> </u>		
	Fittings		·		Spec	Ref		
J	Blinds	•			N10			

Proj	ect	120-	<u> </u>			File Ref		·
-	m Name	Reception	•	٠.	-	Date of origin:	Aug-10	
Ron	m Number	A502				Level	-	
	General	AUUL			: - 	Level	Third Floor (3)	
	Use	Lift Lobby	· .		 		-	·
					-			
1.2	Occupancy	1			+-		<u> </u>	
		· .	_					
1.3	Dimensions	Area (m2)	136.6			-	·	
		ļ						
1.4	Diam'r -	-	· · · · · · · · · · · · · · · · · · ·		:			
1.4	Planning Relationships							
1,5	Fire	 . 	<u> </u>	-	4	<u> </u>		
2.0	Building Elements	<u>. </u>		j	+	Spec Ref	.	<u> </u>
	Floors	Floating Screed		<u> </u>		M10		-
2.2	Walls	Plasterboard Parti	tions			K10		
2.3	Ceilings	Lay in Mineral Tile				K10		•
							•	
				<u>.</u>				
.4	Door/s &	Solid Timber Vene	ered			L20		
	Lock Type						•	•
.5	Degree of				-			
	Privacy				-		•	•
.6	Windows	N/A						
7	0110-	11/4						
!.7	Glazed Screen	N/A						
 .0	Services - Refer to	Services Specific	ation		H	.	 -	
	Environment	Winter Temp °C	Summer Temp °C	Air Humid	itv	Vent supply	Vent Extract	Control
		19degC min.		1		· · · · · · · · · · · · · · · · · · ·		
		Local heating to	26deg C max	Not contro	lled	101/s person	As supply	Local Controls
.2	Lighting	200 lux general, 30		Control		Manual switching	with time clock	
_		reception desks an	d seating areas.					
.3	Acoustic Req'mts	NR38		4				
.3	Communications	Telephone	Computer		# :	- T) () (511	<u></u>
۱ "	Communications	Yes	Computer Yes	Fax Yes		TV socket Yes	FM socket	Other
4	Power sockets	To reception desk			25	168	Yes	Induction Loop
						ns (TV and Network)		
5	Panic Alarm/							······································
	Security	<u> </u>	_				·	
6	Other				П	· <u>-</u>		
\perp								<u> </u>
	ittings			_		Spec Ref		
- 1	Blinds			_	1	N10	·	-

Proj	ect	1204				File Ref	•	
_	m Name	Lift Lobby	•			Date of origin:	Aug-10	
	m Number	A503				Level	-	
	General	A303		1			Third Floor (3)	
1.1	Use	Lift Lobby		1	<u> </u>			 -
1.2	Occupancy		N.					
1.3	Dimensions	Area (m2)	8.3					
1.4	Planning Relationships						•	· · · · · · · · · · · · · · · · · · ·
1.5	Fire							
	Building Elements		, 	THE PERSON NAMED IN		Spec Ref		
2.1	Floors	Floating Screed				M10		
2.2	Walls	Plasterboard Partii	iions	· · ·		K10	·	
2.3	Ceilings	Lay in Mineral Tile	·			K10		
2.4	Door/s &	Solid Timber Vene	ered			L20	-	
	Lock Type							
2.5	Degree of Privacy							
2.6	Windows	N/A						
2.7	Glazed Screen		·					
	Services - Refer to					_		
3.1	Environment		Summer Temp °C			Vent supply	Vent Extract	Control
	Lighting	20degC 200 lux Lighting to the lift controls and doorways	not controlled	not control	led	not controlled High Frequency C Manual switching	not controlled control Gear	none
3.3	Acoustic Req'mts Requirements			A china man china				,
3.3	Communications	Telephone	Computer	Fax	-:	TV socket	FM socket	Other
3.4	Power sockets	Cleaners socket						-
3.5	Panic Alarm/ Security							••••
3.6	Other	Pressurised - depe	ndent on fire strate	gy .				v.
			···········		1			

Pro	ject	120-	4			File Ref		·	
	om Name	Lift Lobby	•	:		Date of origin:	Aug-10		
	om Number	A517		!		=	=		
		ADIT	<u>. </u>			Level	Third Floor (3)	-	
-	General	Irona ara			<u> </u>	<u> </u>	- · ·		
1.1	Use	Lift Lobby							
1.2	Occupancy	<u> </u>			 	<u> </u>			
'.~	Оссирансу								
1.3	Dimensions	Area (m2)	17.1			· 			
''`	Difficusions	Alea (IIIZ)	17.1			•			
ļ				· :				•	
1.4	Planning	- .			 				
''-	Relationships			• •					
1.5	Fire	 			 	<u>-</u>	 .		
''	1 "16"	1							
2.0	Building Elements	<u> </u>		- 1		Saca Def			
	Floors	Floating Screed			-	Spec Ref M10			
'	10013	I loating screed				MIO			
		1							
				:					
					į				
2.2	Maria	District 10 0			-				
2.2	Walls	Plasterboard Parti	tions			K10			
		ĺ		:					
2.2	0.00		 ·						
2.3	Ceilings	Lay in Mineral Tile				K10			
	,	<u> </u>							
2.4	D	0-5-1-77-1			<u> </u>				_ 4
2.4	Door/s &	Solid Timber Vene	ered	:		L20		•	
	Lock Type			:		•			
2.5	D				 	.	<u> </u>		_
2.5	Degree of								
2.6	Privacy	NUA.				78		<u> </u>	
2.0	Windows	N/A							•
2.7	Clamad Onion			-					
2.7	Glazed Screen								
2.0	Cardan Dafanta		-4"	11	<u>i</u>				
	Services - Refer to Environment	Winter Temp °C			1	lu .	h	1- "	
ا.ن	Custonment	20degC	Summer Temp °C			Vent supply	Vent Extract	Control	
3.2	Lighting	200 lux	not controlled	not controlle	30	not controlled	not controlled	none	
۷,۷	Lighting	Lighting to the lift		Control	1	High Frequency Commonweal Manual switching	ontroi/Gear		
		controls and				ivianuai switching			i
		doorways							
3.3	Annuatia Danimta	doorways		<u> </u>		·			
	Acoustic Reg'mts	•							ĺ
	Requirements Communications	Tolophore	Compute-	Fau.	<u> </u>	T1/			
J.J	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other	
3.4	Power sockets	Cleaners socket			-				
J.7	I DMCI SUCKER	Olegners Socker							
3.5	Panic Alarm/							·	
	Security					·			
_		Drecuried dans	ndent on fire strates	ער	1 :				
٥.٥	Gulei	птерептере - аере	nuent on lite strate(Jy .			-		. [
	<u>. </u>			- 1	<u> </u>				- 1

Proj	ect	1204			11	File Ref		
Roo	m Name	North Stair				Date of origin:	Aug-10	•
Roo	m Number	A518	-			Level	Third Floor (3)	•
1.0	General	7.010			 	LCVCI		
1.1	Use	Stair		!		<u> </u>		<u>. </u>
1	USE	Siaii						
1.2	Occupancy	· .			 	**-		" .
1.2	Occupancy							
1.3	Dimensions	Area (m2)		.	<u> </u>		**	
1.3	Dimensions	Alea (IIIZ)					•	•
1.4	Planning				11			•
1.4		•						
1.5	Relationships Fire				-			
1.0	Fire				1.			
2.0	D.::1-21	<u> </u>		- 1		0 0 (
2.0 2.1	Building Elements		·	1	11	Spec Ref		 _
۷, ۱	Floors	Floating Screed	•			M10		
			•		1		•	
		}						
l							4	
			·					
2.2	Walls	Plasterboard Partit				K10		
	•	140mm Blockwork				F10		
		Plasterbord Wall Li	ning			K10		
2.3	Ceilings	Lay in Mineral Tile				K10		
			•					·
2,4	Door/s &	Solid Timber Vene	ered	. •	11.	L20		
	Lock Type		•					
1						·	•	ű.
2.5	Degree of							
	Privacy						•	
2,6	Windows	N/A						
2.7	Glazed Screen	N/A	***					·
	· .							
3.0	Services - Refer to	Services Specific	ation	1	ii :			
3.1	Environment		Summer Temp °C	Air Humidi	ty	Vent supply	Vent Extract	Control
			not controlled	not control		not controlled	not controlled	none
3.2	Lighting	150 lux on all tread	S	Control		High Frequency C		<u>'</u>
						Manual switching		
3.3	Acoustic Regimts			-	Ħ ·		····	
	Requirements			200-1				
3.3	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other
						T COUNTRY		0.11,01
3.4	Power sockets	Cleaners socket		3			••	
3.5	Panic Alarm/			:				
	Security			-		. •	•	
3.6	Other	Pressurised - depe	ndent on fire strate	ΩV	+			
5,5	welled	i issourioed - depe	HACIR ON INC SHALE	37			•	
4.0	Fittings				++	Spec Ref		
	Painted 40mm dia h	andrails				L30		-
	. amica sommula i	undiale.			1	LOU .		1

Pro	oject	120	04	· -	 	File Ref		·
	om Name	South Stair				Date of origin:	Aug. 40	
	om Number	A501		:			_	
	General	AJUI			<u> </u>	Level	Third Floor (3)	
1.1		IFanana Otair			_			
["	Use	Escape Stair		:				
1.2	0	 			<u>. </u>	<u> </u>	<u> </u>	
'-2	Occupancy		•					
1 2	Dimensions	A (0)	 -		<u> </u>	<u>.</u> .	<u> </u>	
'."	Dimensions	Area (m2)						
				:				
1.4	Discourse	 			<u> </u>			<u> </u>
1.4				:				
1.5	Relationships Fire				<u> </u>			
1.3	rire	· ·						
20	Duildian Clausant	<u></u>	_		 	· 		
2.0 2.1	Building Element			i		Spec Ref		
2.1	FIDOIS	Floating Screed				M10		
l		1						
			-					
		1						•
İ	ļ	1						
	<u> </u>	<u> </u>	<u></u>		İ			
2.2	Walls	Plasterboard Part				K10		
	ľ	140mm Blockwort			:	F10	•	
		Plasterbord Wall I	_ining		:	K10		
ļ					1			
2.3	Ceilings	Lay in Mineral Tile				K10		
					!			
-					<u> </u>	·		
2.4	Door/s &	Solid Timber Vene	eered	:	1	L20	-	
	Lock Type							
	<u> </u>			:	j			
2.5	Degree of	ļ			1		•	
	Privacy							
2.6	Windows	N/A						
						_		
2.7	Glazed Screen	N/A		-	-			-
					<u> </u>			
	Services - Refer to			-				
3.1	Environment	Winter Temp °C	Summer Temp °C			Vent supply	Vent Extract	Control
		not controlled	not controlled	not controlle	<u>d</u>	not controlled	not controlled	none
3.2	Lighting	150 lux on all tread	is	Control		High Frequency C	ontrol Gear	
•						Manual switching	<u> </u>	
3.3	Acoustic Req'mts							, -
	Requirements				<u> </u>			
3.3	Communications	Telephone	Computer	Fax	:	TV socket	FM socket	Other
3.4	Power sockets							
_					1	· .		
	Panic Alarm/							
_	Security							
3.6	Other	Pressurised - depe	ndent on fire strated	y I				
1	Fitting				-		<u>. </u>	
	Fittings		<u> </u>		1	Spec Ref		
ı	Painted 40mm dia ha	andrails		!	!	L30		

_	ON DATA 3				<u> </u>		·
Proj		1204			File Ref		
Roo	m Name	Office			Date of or	igin: Aug-10	
Roo	m Number	A516			Level	Third Floor (3)	
1.0	General		·				
1.1	Use	Office					
1.2	Occupancy	·					
1.3	Dimensions	Area (m2)	24.7				
	Planning Relationships			•			
1.5	Fire						
2.0	Building Elements				Spec Ref		
	Floors	Floating Screed			M10		
1	Walls	Plasterboard Partit	ions		K10		i
2.3	Ceilings	Lay in Mineral Tile			K10		i
2.4	Door <i>i</i> s &	Solid Timber Vene	ered with glazed sid	de light	L20/L10		
	Lock Type						
2.5	Degree of						
2.6	Privacy Windows	N/A		<u> </u>	<u> </u>	· .	
L		- F					·
2.7	Glazed Screen	See door Schedule	•			•	
3.0	Services - Refer to	Services Specific	ation	1	11 .		
3.1	Environment	Winter Temp C	Summer Temp C	Air Humidity	Vent supply	y Vent Extract	Control
	FCU= Fan Coil Units	-	FCU 22+/-2degC	1		erson. Average of 15-161/s	
	or VRF	min	24max	CHB 45% +/-10	13.7	Air Handling Unit to take	Local Room
	CHB=Active Chilled Beams	CHB - 22degC min	CHB 24+/-2degC 26max	Min 35%	10 1	meeting rooms. % of supply, with	Controllers
32	Lighting	Average Daylight F	actor 5% (min	Control	و بالل	ency Control Gear	1
-	Ligitality	0.5)	actor o ro (min	001101	11.5	ked control to office perim	eter zones.
3.3	Acoustic Req'mts	NR 38 - measured	with office empty a	nd no carpet fitted		· · · · · · · · · · · · · · · · · · ·	
3.3	Communications	Telephone	Computer	Fax	TV socket	FM socket	Other
		Yes	Min 2 data	For Secretaries			
			sockets per				
3.4	Power sockets	Small Power Load	25W/m2 (+ 5W/m2	in hot spots). 4 so	ckets per per	son. Additional sockets at	printer/photocopier
		points.					
3.5	Panic Alarm/	PIR detectors and	window contactors.				
	Security	·			<u> </u>		
3.6	Other	_	cupancy Density: 1	· ·	eting Rooms	s 1 person 2.5m2	
		Air Leakage Rate !		Į			
		Ambient Design (l
		Summer Dry Bulb			•		. [
	•	Summer Wet Bulb		777	:		
		Winter Dry Bulb -4	-				· [
L		Winter Wet Bulb -4	degC		1		
					! !		

1.0 (1.1 (1.2 (1.3) 1.3 (1.4)	oct n Name n Number General Use	Reception A502			File Ref Date of origin:	Aug-10	
1.0 (1.1 (1.2 (1.3) 1.3 (1.4)	n Number General	=	•	1	Date of origin:	Aug-10	
1.0 (1.1 (1.2 (1.3 (1.3 (1.4 (1.4 (1.4 (1.4 (1.4 (1.4 (1.4 (1.4	General	A502					
1.1 1.2 1.3 1.4					Level	Third Floor (3)	·
1.2 (Use					· ·	
1.3		Lift Lobby	•				
1.4	Occupancy					· · · · · · · · · · · · · · · · · · ·	
	Dimensions	Area (m2)	136.6				
						·	•
	Planning Relationships		•.				
1.5	Fire		-				
2.0	Building Elements				Spec Ref		
	Floors	Floating Screed		. 11	M10		
						· .	
2.2	Walls	Plasterboard Partit	ions		K10 .	•	
2.0							
2.3	Ceilings	Lay in Mineral Tile			K10 _		
2.4	Door/s &	Solid Timber Vene	ered		L20		
1	Lock Type						•
2.5	Degree of						
<u> </u>	Privacy			: 1	•		
2.6	Windows	N/A				·	
2.7	Glazed Screen	N/A		. !			· · · · · · · · · · · · · · · · · · ·
3.0	Services - Refer to	Services Specific	ation				•
	Environment		Summer Temp °C	Air Humidity	Vent supply	Vent Extract	Control
		19degC min. Local heating to	26deg C max	Not controlled	10l/s person	As supply	Local Controls
3.2	Lighting	200 lux general, 30 reception desks an		Control	Manual switchin	ng with time clock	•
3.3	Acoustic Req'mts		·				
3.3	Communications	Telephone	Computer	Fax	TV socket	FM socket	Other
		Yes	Yes	Yes	Yes	Yes	Induction Loop
	Power sockets		ckets for wall mou	nted display scr	eens (TV and Netwo	rk)	
	Panic Alarm/ Security	Security Panels at	near reception des	k (CCTV, IDS, 7	Access Control)	:	
3.6	Other						
4.0	Fittings				Spec Ref		
	Blinds				N10		

<u> </u>	-4	1204			 File Ref		
Ргоје -						Aug 10	
Roon	•	Lift Lobby		- 1	Date of origin:	Aug-10	
Roor	n Number	A503			Level	Third Floor (3)	
1.0	General						
1.1	Use	Lift Lobby					
1.2	Оссирапсу	_		<u>. i l</u>		٠.	
1.3	Dimensions	Area (m2)	8.3		,		
1.4	Planning Relationships	•					
1.5	Fire						
2.0	Building Elements	<u> </u>		- 1	 Spec Ref		
		Floating Screed			M10		
	· 				 	<u> </u>	
2.2	Walls	Plasterboard Partiti	ions		K10		
2.3	Ceilings	Lay in Mineral Tile			 K10		
2.4	Door/s & Lock Type	Solid Timber Vene	ered		L20		
2.5	Degree of Privacy			!			
2.6	Windows	N/A					
		INA	·				
2.7	Glazed Screen			i i			
3.0	Services - Refer to	Services Specific	ation				<u> </u>
3.1	Environment	Winter Temp °C	Summer Temp °C		Vent supply	Vent Extract	Control
		20degC	not controlled	not controlle	not controlled	not controlled	none
3.2	Lighting	200 lux Lighting to the lift controls and doorways		Control	High Frequency (Manual switching		
3.3	Acoustic Reg'mts						·
_	Requirements			- 11	 TMacalist	Thi contrat	Othor
3.3	Communications	Telephone	Computer *	Fax	TV socket	FM socket	Other
3.4	Power sockets	Cleaners socket			 	· 	· .
3.5	Panic Alarm/ Security					*.	
3.6	Other	Pressurised - depe	endent on fire strat	egy			
4.0	Fittings	.1			Spec Ref		
						 -	

	OW DATA SI				 			-
Ргоје		1204		. į	1	File Ref		
Roon	n Name	Lift Lobby				Date of origin:	Aug-10	
Roon		A517		:		Level	Third Floor (3)	
	General	71011	<u></u>				:	
		Lift Lobby	· · · · · ·		<u> </u>			
1.1	Use	LIIT LODBY		:				:
1.2	Occupancy							
1.3	Dimensions	Area (m2)	17.1	:		-		1.
	Planning Relationships			:				
	Fire		•		!			
		·	-	;				•
	Building Elements			1		Spec Ref		
2.1	Floors	Floating Screed	,	. !	-	M10	,	
2.2	Walls	Plasterboard Partiti	one	<u> </u>		K10		
£.£	realis .	i justos board i artitu	O I I					
2.3	Ceilings	Lay in Mineral Tile				K10		
		0.19.77		<u>.</u>	ļ <u>.</u>	100		
2.4	Door/s & Lock Type	Solid Timber Vene	erea	:	 - -	L20		*
2.5	Degree of Privacy			:			.	
100		N/A						
2.6	Windows	ווייה						
	Glazed Screen			:				
3.0	Services - Refer to	Services Specific	ation					
3.1	Environment	Winter Temp °C	Summer Temp °	C Air Humidi	ty	Vent supply	Vent Extract	Control
		20degC	not controlled	not control		not controlled	not controlled	none
3.2	Lighting	200 lux Lighting to the lift controls and doorways		Control		High Frequency Manual switching		
3.3	Acoustic Regimts			77	·	•		
	Requirements			. 1				· ·
3.3	Communications	Telephone	Computer-	Fax		TV socket	FM socket	Other
3.4	Power sockets	Cleaners socket		1000				
3.5	Panic Alarm/ Security							
3.6	Other	Pressurised - depe	endent on fire stra	tegy			-	
4.0	Fittings		·			Spec Ref	·	
					-			

	OWI DATA S				 	Fil. D. f			
Proje		1204				File Ref	1 40	•	
	m Name	North Stair				Date of origin:	Aug-10		
	m Number	A518		 ;	<u> Ш</u>	Level	Third Floor (3)		
		I	·		<u> </u>	 			
1.1	Use	Stair							
1.2	Occupancy	····-							
1.3	Dimensions	Area (m2)				·			
1 /	Planning			-,	<u> </u>				
	Relationships					_		· -	-
1.5	Fire								
2.0	Building Elements					Spec Ref			
	Floors	Floating Screed			\prod	M10			
		ĺ							
		1					·		
	-								
			-	:			•		
2.2	144-15-	DI	*		-	1/40			
2.2	Walis	Plasterboard Partit 140mm Blockwork				K10 F10			
		Plasterbord Wall Li				K10			
	•	Piasterbord Wall Li	ming			KIU			
2.3	Ceilings	Lay in Mineral Tile			+-	K10			
_,,,	g								
2.4	Door/s &	Solid Timber Vene	ered			L20			•
	Lock Type								
				<u> </u>			<u> </u>		
2,5	Degree of						•		
	Privacy				Ш				
2.6	Windows	N/A							
2.7	Glazed Screen	N/A			#		· · · · · · ·		
					Ш_	· .			
	Services - Refer to			1	4.1		h=.	10	
3.1	Environment		Summer Temp °C			Vent supply	Vent Extract	Control	
3.2	Linhting	18degC 150 lux on all tread	not controlled	not control		not controlled High Frequency	not controlled	none	
J.Z	Lighting	130 lux on all lieat	15	Control		Manual switching			
3.3	Acoustic Req'mts			-	+	,	<u> </u>		
0.0	Requirements			SAMEN C. IS					
3.3	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other	
3.4	Power sockets	Cleaners socket						,	
2 5	Dania Alarent	·			 -				
3.5	Panic Alarm/ Security	'		Wash 7 Chee			-		
3.6	Other	Pressurised - deno	endent on fire strate	nv .	#:				
3.0	Cite	i ressuriseu - depe	ANGER OF THE SHALE	לפ			•		
	<u></u>				+	Casa Daf			
4.0	Fittings				11 .	Spec Ref			

	ON DATA 5				—			
Proje		1204			File			•
Rooi	m Name	South Stair		!		of origin:	Aug-10	
Rooi	m Number	A503		1.1	Leve	:l	Third Floor (3)	
1.0	General				•			
1.1	Use	Stair		. !!				
1.2	Occupancy							
1.3	Dimensions	Area (m2)		:				
1.4.	Planning Relationships			-				
1.5	Fire							
2.0	Building Elements	l		- 11	Spec	Ref		
		Floating Screed			M10			
- , 1		i localing corood			·			
	•			:				
2.2	Walls	Plasterboard Partit	ions	i	K10			
	,	140mm Blockwork			F10			
		Plasterbord Wall Li	ining	:	K10			:
2.3	Ceilings	Lay in Mineral Tile		:	K10	·	•	
0.4	D/- 0	Solid Timber Vene	ara d		. 100			٠
2.4	Door/s &	Solia Timber vener	erea		L20			
	Lock Type	!	·					
2.5	Degree of Privacy						•	
2.6	Windows	N/A						
2.7	Glazed Screen	N/A		, ! ! !				
3.0	Services - Refer to		ation .	. 1				
3.1	Environment	Winter Temp °C	Summer Temp °C			supply	Vent Extract	Control
	· · · · · · · · · · · · · · · · · · ·	18degC	not controlled	not controll		controlled	not controlled	none
3.2	Lighting	150 lux on all tread	ls	Control		Frequency ual switching	Control Gear	
3.3	Acoustic Req'mts Requirements	·	÷.					
3.3	Communications	Telephone	Computer	Fax	TVs	ocket	FM socket	Other
3.4	Power sockets	Cleaners socket		1.00				
3.5	Panic Alarm/ Security							
2.0	Other	Pressurised - depe	endent on fire strate	gy				
3.6				1				
	Fittings			1	Spec	c Ref	•	· · · · · · · · · · · · · · · · · · ·

RC	OM DATA S	HEET		_				
Ргој	ect	1204				File Ref		
Roos	m Name	Cleaners Sto	re			Date of origin:	Aug-10	
Roo	m Number	A405			ii	Level	Second Floor (2)	
1.0	General					•	- *	
1.1	Use	Store				•		
1.2	Occupancy							
					i			
1.3	Dimensions	Area (m2)	1.8	:				
			•					
4 4	Division			· · · · · ·	+			
1.4	Planning			·				
1 5	Relationships Fire				+			
1.0			·			•		
2.0	L Building Elements		 -		†	Spec Ref		
	Floors	Floating Screed			++	M10		
	Walls	Plasterboard Parti	tions			K10		•
	Ceilings	Lay in Mineral Tile				K10		
	Door/s &	Solid Timber Veneered				L20		
	Lock Type							· ·
	Privacy							
2.6	Windows	N/A						
2.7	Glazed Screen	N/A						•
3.0	Services - Refer to	Services Specific	ation			,		
3.1	Environment	Winter Temp C	Summer Temp (C Air Humidity		Vent supply	Vent Extract	Control
		not controlled	not controlled	not controlled		Extract 6 air chan		PIR controlled
			Hot sondon		Щ		acent WC extract	T II Y GOTH TONG
3.2	Lighting	200 Lux	•	Control		Manual switching		•
				1	Ш	Timer		
3.3	Acoustic Req'mts	None						
-	Requirements				Ш			
3.3	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other
3.4	Dawas a alkata	·			-			
J.4	Power sockets							·
3.5	Panic Alarm/	ļ			H		.	
0.0	Security					•		
3.6	Other	sink with hot and	cold water			5		
J		floor gully		Š		: .		
4.0	Fittings	,			П	Spec Ref		
	WC pan	•				N13		
					1.1			
	WHB	•				N13		

	DOM DATA S						•
Proj	ect	1204			File Ref		
Roo	m Name	WC			Date of origin:	Aug-10	
Roo	m Number	A406			Level	Second Floor (2)	
1.0	General						
1.1	Use	WC					
		L					
1.2	Occupancy	,					
1.3	Dimensions	Area (m2)	2.2				
1.4	Planning			* :			
1.5	Relationships Fire		•				
'	rite						
2.0	Building Elements	<u> </u>			Spec Ref	<u> </u>	
2.1	Floors	Floating Screed			M10		
						•	
2.2	Walls	Plasterboard Partit	ions		K10		
				:			•
<u> </u>							
2.3	Ceilings	Lay in Mineral Tile		- 1	K10		
2.4	Door/s &	Solid Timber Vene	ered		L20		
2.4	Lock Type	Colla Filliber Verie	ereu		LZU		
	Lock Type					·	
2.5	Degree of	· · · · · · · · · · · · · · · · · · ·					
	Privacy	•					
2.6	Windows	N/A				•	
2.7	Glazed Screen	N/A					
3.0	Services - Refer to	Santices Specific	ation			· · · · · · · · · · · · · · · · · · ·	
3.1	Environment	Winter Temp °C	Summer Temp °C	LAir Humidity	Vent supply	Vent Extract	Control
"'	Livi Oillicit			7 til Trainianty	8 air changes per		
	l .	119deaC min	IZHMAX IT COOIIDO	1.1	io ali chances dei	I IU all Changes	IPIK control on
ı		19degC min.	26max if cooling provided	Not controlled			PIR control on fans and lighting
_			provided		hour.	per hour	fans and lighting
3.2	Lighting	_		Not controlled Control		per hour	4
3.2		200 lux IP65 fittings			hour.	per hour	4
3.2	Lighting Acoustic Req'mts	200 lux IP65 fittings			hour.	per hour	4
3.3	Acoustic Req'mts	200 lux IP65 fittings NR45	provided	Control	hour. PIR control and sw	per hour vitch	fans and lighting
L		200 lux IP65 fittings			hour.	per hour	4
3.3	Acoustic Req'mts Communications	200 lux IP65 fittings NR45	provided	Control	hour. PIR control and sw	per hour vitch	fans and lighting
3.3	Acoustic Req'mts	200 lux IP65 fittings NR45	provided	Control	hour. PIR control and sw	per hour vitch	fans and lighting
3.3	Acoustic Req'mts Communications	200 lux IP65 fittings NR45	provided	Control	hour. PIR control and sw	per hour vitch	fans and lighting
3.3 3.3 3.4	Acoustic Req'mts Communications Power sockets	200 lux IP65 fittings NR45 Telephone Fuse spurs for ha	provided Computer and dryer	Control Fax	hour. PIR control and sw	per hour vitch	fans and lighting
3.3 3.3 3.4	Acoustic Req'mts Communications Power sockets Panic Alarm/	200 lux IP65 fittings NR45 Telephone Fuse spurs for ha	provided	Control Fax	hour. PIR control and sw	per hour vitch	fans and lighting
3.3 3.4 3.5 3.6	Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other	200 lux IP65 fittings NR45 Telephone Fuse spurs for ha	provided Computer and dryer	Fax and basin	hour. PIR control and sw TV socket	per hour vitch	fans and lighting
3.3 3.4 3.5 3.6	Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other	200 lux IP65 fittings NR45 Telephone Fuse spurs for ha	provided Computer and dryer	Control Fax	hour. PIR control and sw TV socket Spec Ref	per hour vitch	fans and lighting
3.3 3.4 3.5 3.6	Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other Fittings WC pan	200 lux IP65 fittings NR45 Telephone Fuse spurs for ha	provided Computer and dryer	Fax and basin	hour. PIR control and sw TV socket Spec Ref N13	per hour vitch	fans and lighting
3.3 3.4 3.5 3.6	Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other Fittings WC pan WHB	200 lux IP65 fittings NR45 Telephone Fuse spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for	provided Computer and dryer	Fax and basin	TV socket Spec Ref N13 N13	per hour vitch	fans and lighting
3.3 3.4 3.5 3.6	Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other Fittings WC pan	200 lux IP65 fittings NR45 Telephone Fuse spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for harmonic spurs for	provided Computer and dryer	Fax and basin	hour. PIR control and sw TV socket Spec Ref N13	per hour vitch	fans and lighting

	UN DATA SI					E1. P. *		
Proje		1204				File Ref		
Roor		WC	-		-	Date of origin:	Aug-10	
Rooi	n Number	A404			<u> </u>	Level	Second Floor (2)	
1.0	General							
1.1	Use	WC				· .		
1.2	Оссирапсу							
1.3	Dimensions	Area (m2)	2.2	••				
	•							
1.4	Planning Relationships							
1.5	Fire							
2.0	Building Elements					Spec Ref		
		Floating Screed			1	M10		
2.2	Walls	Plasterboard Partit	ons			K10		
		, i						
	·	·	<u> </u>					· · · · ·
2.3	Ceilings	Lay in Mineral Tile	•			K10		
2.4	Door/s &	Solid Timber Vene	ered		+	L20	,	
	Lock Type				`			
2.5	Degree of							
<u> </u>	Privacy							
2.6		N/A						
2.7	Glazed Screen	N/A						
3.0	Services - Refer to				1 .		·	
3.1	Environment		Summer Temp °C			Vent supply	Vent Extract	Control
		_	26max if cooling provided	Not conti	olled	8 air changes per hour.	10 air changes per hour	PIR control on fans and lighting
3.2	Lighting	200 lux IP65 fittings		Control	TO THE PERSON WITH THE PERSON WAS AND ADDRESS OF THE PERSON WITH THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS AND ADDRESS OF THE PERSON WAS ADDRESS OF THE PERSON WAS ADDRESS OF THE PERSON WAS ADDRESS OF THE PERSON WAS ADDRESS OF THE PERSON WAS ADDRESS OF THE PERSON WAS ADDRESS OF THE PERSON WAS ADDRESS OF THE PERSON WAS ADDRESS OF THE	PIR control and sy	vitch	
3.3	Acoustic Regimts	NR45		<u> </u>	1	· · · · · · · · · · · · · · · · · · ·		
3.3	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other
3.4	Power sockets	Fuse spurs for h	and dryer					
3.5	Panic Alarm/ Security							· .
3,6	Other	Water connections	to WC and wash h	nand basin				
	·							
4.0	Fittings				Щ	Spec Ref		
	WC pan					N13		
	WHB					N13]
J	HPL Duct panelling				.	K32		ļ

	OM DATA 5			i	<u> </u>	FU D .		
Proje		1204				File Ref		
Rool	m Name	Dis WC				Date of origin:	Aug-10	
२००	m Number	A403		į	İ	Level	Second Floor (2)	
1.0	General		<u></u>	<u>. i</u>				
1.1	Use	wc			!			
					<u> </u>		-	
1.2	Occupancy			į				
-	0	A (0)	5.3		<u> </u>		V.	
1.3 1.4	Dimensions	Area (m2)	5.5		-			
1.4	Planning Relationships			:	ļ			
1.5	Fire				 			
2.0	Building Elements	<u>. </u>		- 1		Spec Ref		
2.1	Floors	Floating Screed				M10		
2.2	Walls	Plasterboard Partit	ions	:		K10		
	Ceilings	Lay in Mineral Tile			'	K10	-	
2.4	Door/s &	Solid Timber Vene	ered	:		L20		•
	Lock Type					•		
2.5	Degree of			i				
	Privacy	<u> </u>			<u> </u>		·	
2.6	Windows	N/A						
2.7	Glazed Screen	N/A			<u> </u>			
3.0	Services - Refer to			1		T	L	1
3.1	Environment	Winter Temp °C	Summer Temp °C	Air Humidity	<u> </u>	Vent supply	Vent Extract	Control PIR control on
		21degC min.	26max if cooling provided	Not controlled		8 air changes per hour.	10 air changes per hour	fans and lighting
	Lighting	200 lux		Control		PIR control and sv	vitch	
3.2		IP65 fittings						
		ND 45			<u> </u>	· · · · · · · · · · · · · · · · · · ·		
3.3	Acoustic Req'mts	NR45						
3.3	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other
3.4	Power sockets	Fuse spurs for h	and dryers	3				· · · · · · · · · · · · · · · · · · ·
3.5	Dania Alamai	Disabled Toilet Ala						:
3.3	Panic Alarm/ Security	Disabled Tollet Ale	11111					
		Deisgned to meet		i i				
	۵.,			! !	İ			
3.6	Other	Water connections	to WC and wash h	and basin				
3.6	Other		to WC and wash h	and basin				
	Other Fittings		to WC and wash h			Spec Ref		
3.6 4.0		Water connections	to WC and wash h			Spec Ref N13		

Proj	oct	1204				File Ref	· · · · · · · · · · · · · · · · · · ·	
			•				4 - 40	
	m Name	South Stair				Date of origin:	Aug-10	
	m Number	A401				Level ,	Second Floor (2)
0,1	General			·il				•
1.1	Use	Stair		!				
1.2	Occupancy			. !			· ·	
1.3	Dimensions	Area (m2)				· ·		
1.4	Planning Relationships							·
i.5	Fire						<u>.</u>	
.0	Building Elements	<u> </u>				Spec Ref		
	Floors	Floating Screed	<u>-</u>	4		M10		
	FIOGIS	I loating screed		. !		WITU		
	. •							
							•	
2.2	Walls	Plasterboard Parti	tions			K10		
		140mm Blockwork				F10		
		Plasterbord Wall L				K10 .		
2.3	Ceilings	Lay in Mineral Tile		- 1		K10		·
		20, 11 10110101 1110				,	•	
	D	Callel Timb and Vana				100		
2.4	Door/s &	Solid Timber Vene	erea			L20		
	Lock Type			:				•
2.5	Degree of							<u>-</u> -
	Privacy	,		:	J <u>.</u>			
2.6	Windows	N/A		:				
2.7	Glazed Screen	N/A						
				: !				•
	Services - Refer to							
.1	Environment		Summer Temp °C		-	Vent supply	Vent Extract	Control
		18degC	not controlled	not control	led	not controlled	not controlled	none
.2	Lighting	150 lux on all treat	ds	Control		High Frequency C Manual switching		
3.3	Acoustic Req'mts							
	Requirements			1	<u> </u>		÷	
.3	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other
.4	Power sockets	Cleaners socket	. ,					~ .
3.5	Panic Alarm/ Security			-			······································	
		Pressurised - depe	endent on fire strate	9y				
3.6	Other		-	1	i I			
3.6 1.0	Other Fittings			<u> </u>		Spec Ref		

	OM DATA S						,	
Ргој		1204		il		File Ref .		
	m Name	Lift Lobby		i		Date of origin:	Aug-10	
Roos	m Number	A402		ii		Level	Second Floor (2)
	General			i I				
1.1	Use	Lift Lobby						
1.2	Occupancy							
1.3	Dimensions	Area (m2)	13.4			•		
		*					·	
1.4	Planning Relationships							
1.5	Fire				,			
2.0	Building Elements					Spec Ref		
	Floors	Floating Screed				M10		
							•	
		-						
				- :				
2.2	Marita	Disease the good Double	·	: 1		V10		
2.2	Walls	Plasterboard Partiti	ions			K10		
				:				
						-		
2.3	Ceilings	Lay in Mineral Tile		!		K10		•
								·
2.4	Door/s &	Solid Timber Vene	ered	!		L20	· ·	
	Lock Type						•	
2.5	Degree of							
	Privacy							
2.6	Windows	N/A						
2 7	Glazed Screen							
2.7	Glazed Screen		-					
3.0	Services - Refer to	Services Specific	ation					
	Environment	Winter Temp °C	Summer Temp °C	Air Humidity		Vent supply	Vent Extract	Control
		20degC	not controlled	not controlle		not controlled	not controlled	none
3.2	Lighting	200 lux		Control	·	High Frequency C	ontrol Gear	
		Lighting to the lift				Manual switching		
		controls and			:			
		doorways	,	1 !!!	•			•
J.3	Acoustic Req'mts							
3.3	Requirements Communications	Telephone	Computer	Fax		TV socket	FM socket	Other
	Communications	, siopriorio	Computer	. 47		, v sooket	, in cooks.	Cilidi
3.4	Power sockets	Cleaners socket	· · · · · · · · · · · · · · · · · · ·		•			
3.5	Panic Alarm/							
L	Security	<u></u>	·	4				·
3.6	Other	Pressurised - depe	ndent on fire strate	gy				
				ill				
				1.1				

	ject	12	04		Fil	e Ref		
Roc	om Name 🕧	Office		2	i	te of origin:	Aug-10	
Roc	om Number	A415			Le	_	•	
1.0	General				1161	VEI	Second Floor (2)	<u> </u>
1.1	Use	Office		-	_ ! -			
1.2	Occupancy				_			
								Control BMS Control Local Room Controllers
1.3	Dimensions	Area (m2)	24.7					
		1						
4.4	ļ <u>.</u>	<u> </u>						
1.4	Planning							
1.5	Relationships Fire							
1.5	rite	ĺ			. !			
2.0	Building Elemen	- <u> </u>	<u> </u>				·	
_	Floors	Floating Screed				c Ref	_	
	Walls	Plasterboard Part	titions		M1€ K10	1		
2.3	Ceilings	Lay in Mineral Til		•	K10	i	•	
]				NIU			
			٠		İ	 		
2.4	Doorls &	Solid Timber Ven	eered with glazed si	ide liaht	L20/	110		
	Lock Type	}	•					
		<u> </u>						
2.5	Degree of				1			
	Privacy				ĺ			
2.6	Windows	N/A						 -
.								
2.7	Glazed Screen	See door Schedul	e		ļ			
$\overline{}$		1 .						
	Consince Defent	· Candaga Carrie						
		Services Specific						
i.i	Environment	Winter Temp C	Summer Temp C	Air Humidity	Vent	supply	Vent Extract	
.1	Environment FCU= Fan Coil Units	Winter Temp C FCU - 20degC	Summer Temp C FCU 22+/-2degC	FCU 55% +/-10	Vent 10l/s	supply per person. Av	erage of 15-16l/s	BMS Control.
.1	Environment	Winter Temp C FCU - 20degC min	Summer Temp C FCU 22+/-2degC 24max	FCU 55% +/-10 CHB 45% +/-10	Vent 10l/s perso	supply per person. Av on at Air Handli	erage of 15-16l/s ng Unit to take	BMS Control. Local Room
1.1	Environment FCU= Fan Coil Units or VRF	Winter Temp C FCU - 20degC	Summer Temp C FCU 22+/-2degC 24max	FCU 55% +/-10	Vent 10l/s perso acco	supply per person. Aven at Air Handli	erage of 15-16l/s ng Unit to take rooms.	BMS Control. Local Room
i.1	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled	Winter Temp C FCU - 20degC min CHB - 22degC min	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max	FCU 55% +/-10 CHB 45% +/-10 Min 35%	Vent 10l/s perso acco Extra	supply per person. Avenue Ar Air Handli unt of meeting of the Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Solution of Supplement Soluti	rerage of 15-16l/s ng Unit to take rooms. ly, with	BMS Control. Local Room
i.1	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams	Winter Temp C FCU - 20degC min CHB - 22degC	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max	FCU 55% +/-10 CHB 45% +/-10	Vent 10l/s perso acco Extra High	supply per person. Aven at Air Handli unt of meeting ct 80% of supp	rerage of 15-16l/s ng Unit to take rooms. ly, with	BMS Control. Local Room Controllers
.1	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight I 0.5)	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max Factor 5% (min	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control	Vent 10l/s perso acco Extra High	supply per person. Aven at Air Handli unt of meeting ct 80% of supp	rerage of 15-16l/s ng Unit to take rooms. ly, with	BMS Control. Local Room Controllers
.1	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight I 0.5)	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control	Vent 10l/s perso acco Extra High	supply per person. Aven at Air Handli unt of meeting ct 80% of supp	rerage of 15-16l/s ng Unit to take rooms. ly, with	BMS Control. Local Room Controllers
.2	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight I 0.5) NR 38 - measured	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max Factor 5% (min	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control	Vent 10l/s perso accol Extra High Dayli	supply per person. Av on at Air Handli unt of meeting ct 80% of supp Frequency Cor ght linked contr	erage of 15-16l/s ing Unit to take rooms. ily, with introl Gear iol to office perime	BMS Control. Local Room Controllers ter zones.
.2	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting Acoustic Req'mts	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight I 0.5) NR 38 - measured	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control Ind no carpet fitted	Vent 10l/s perso acco Extra High	supply per person. Av on at Air Handli unt of meeting ct 80% of supp Frequency Cor ght linked contr	rerage of 15-16l/s ng Unit to take rooms. ly, with	BMS Control. Local Room Controllers ter zones.
.2 .3 .3 .3	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting Acoustic Req'mts Communications	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight I 0.5) NR 38 - measured Telephone	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control nd no carpet fitted Fax For Secretaries	Vent 10l/s perso accor Extra High Dayli	supply per person. Av n at Air Handli unt of meeting ct 80% of supp Frequency Cor ght linked contr	erage of 15-16l/s ng Unit to take rooms. lly, with ntrol Gear ol to office perime	BMS Control. Local Room Controllers ter zones.
.2 .3 .3 .3	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting Acoustic Req'mts	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load	Summer Temp C FCU 22+f-2degC 24max CHB 24+f-2degC 26max	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control nd no carpet fitted Fax For Secretaries	Vent 10l/s perso accor Extra High Dayli	supply per person. Av n at Air Handli unt of meeting ct 80% of supp Frequency Cor ght linked contr	erage of 15-16l/s ng Unit to take rooms. lly, with ntrol Gear ol to office perime	BMS Control. Local Room Controllers ter zones.
.2	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting Acoustic Req'mts Communications Power sockets	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load printer/photocopier	Summer Temp C FCU 22+f-2degC 24max CHB 24+f-2degC 26max	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control nd no carpet fitted Fax For Secretaries	Vent 10l/s perso accor Extra High Dayli	supply per person. Av n at Air Handli unt of meeting ct 80% of supp Frequency Cor ght linked contr	erage of 15-16l/s ng Unit to take rooms. lly, with ntrol Gear ol to office perime	BMS Control. Local Room Controllers ter zones.
.1 .2 .3 .3 .4 F	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load	Summer Temp C FCU 22+f-2degC 24max CHB 24+f-2degC 26max	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control nd no carpet fitted Fax For Secretaries	Vent 10l/s perso accor Extra High Dayli	supply per person. Av n at Air Handli unt of meeting ct 80% of supp Frequency Cor ght linked contr	erage of 15-16l/s ng Unit to take rooms. lly, with ntrol Gear ol to office perime	BMS Control. Local Room Controllers ter zones.
.1 .2 .1 .3 .3 .4 .F .5 .5 .5 .5	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/ Security	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load printer/photocopier PIR detectors and	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control Ind no carpet fitted Fax For Secretaries in hot spots), 4 soc	Vent 10l/s perso acco Extra High Dayli	supply per person. Av n at Air Handli unt of meeting ct 80% of supp Frequency Cor ght linked contr cket F	erage of 15-16l/s ng Unit to take rooms. ly, with ntrol Gear ol to office perime M socket	BMS Control. Local Room Controllers ter zones.
.2 .3 .3 .4 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load printer/photocopier PIR detectors and Average Office Occ	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control Ind no carpet fitted Fax For Secretaries in hot spots), 4 soc	Vent 10l/s perso acco Extra High Dayli	supply per person. Av n at Air Handli unt of meeting ct 80% of supp Frequency Cor ght linked contr cket F	erage of 15-16l/s ng Unit to take rooms. ly, with ntrol Gear ol to office perime M socket	BMS Control. Local Room Controllers ter zones.
.2 .3 .3 .4 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5 F .5	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/ Security	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load printer/photocopier PIR detectors and Average Office Occ Air Leakage Rate 5	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max Factor 5% (min with office empty ai Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 points. window contactors. cupancy Density: 1 im3/hr/m2 @50pa.	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control Ind no carpet fitted Fax For Secretaries in hot spots), 4 soc	Vent 10l/s perso acco Extra High Dayli	supply per person. Av n at Air Handli unt of meeting ct 80% of supp Frequency Cor ght linked contr cket F	erage of 15-16l/s ng Unit to take rooms. ly, with ntrol Gear ol to office perime M socket	BMS Control. Local Room Controllers ter zones.
.2 .3 .3 .4 F .5 F .5 F .5 F .5	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/ Security	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load printer/photocopier PIR detectors and Average Office Occ Air Leakage Rate 5 Ambient Design C	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control Ind no carpet fitted Fax For Secretaries in hot spots), 4 soc	Vent 10l/s perso acco Extra High Dayli	supply per person. Av n at Air Handli unt of meeting ct 80% of supp Frequency Cor ght linked contr cket F	erage of 15-16l/s ng Unit to take rooms. ly, with ntrol Gear ol to office perime M socket	BMS Control. Local Room Controllers ter zones.
.2 .3 .3 .4 F .5 F .5 F .5 F .5	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load printer/photocopier PIR detectors and Average Office Occ Air Leakage Rate 5 Ambient Design C Summer Dry Bulb 2	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max Factor 5% (min with office empty and Computer Min 2 data sockets per 25W/m2 (+5W/m2 points. window contactors. cupancy Density: 1 im3/hr/m2 @50pa. conditions:	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control Ind no carpet fitted Fax For Secretaries in hot spots), 4 soc	Vent 10l/s perso acco Extra High Dayli	supply per person. Av n at Air Handli unt of meeting ct 80% of supp Frequency Cor ght linked contr cket F	erage of 15-16l/s ng Unit to take rooms. ly, with ntrol Gear ol to office perime M socket	BMS Control. Local Room Controllers ter zones.
.2 .3 .3 .4 F .5 F .5 F .5 F .5	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load printer/photocopier PIR detectors and Average Office Occ Air Leakage Rate 5 Ambient Design C Summer Dry Bulb 2 Summer Wet Bulb	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control Ind no carpet fitted Fax For Secretaries in hot spots), 4 soc	Vent 10l/s perso acco Extra High Dayli	supply per person. Av n at Air Handli unt of meeting ct 80% of supp Frequency Cor ght linked contr cket F	erage of 15-16l/s ng Unit to take rooms. ly, with ntrol Gear ol to office perime M socket	BMS Control. Local Room Controllers ter zones.
.1 .2 .1 .3 .3 .4 .F .5 .5 .5 .5	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting Acoustic Regimts Communications Power sockets Panic Alarm/ Security Other	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load printer/photocopier PIR detectors and Average Office Occ Air Leakage Rate 5 Ambient Design C Summer Dry Bulb 2 Summer Wet Bulb 4	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control Ind no carpet fitted Fax For Secretaries in hot spots), 4 soc	Vent 10l/s perso acco Extra High Dayli	supply per person. Av n at Air Handli unt of meeting ct 80% of supp Frequency Cor ght linked contr cket F	erage of 15-16l/s ng Unit to take rooms. ly, with ntrol Gear ol to office perime M socket	BMS Control. Local Room Controllers ter zones.
.1 .2 .3 .4 .F .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams Lighting Acoustic Regimts Communications Power sockets Panic Alarm/ Security Other	Winter Temp C FCU - 20degC min CHB - 22degC min Average Daylight I 0.5) NR 38 - measured Telephone Yes Small Power Load printer/photocopier PIR detectors and Average Office Occ Air Leakage Rate 5 Ambient Design C Summer Dry Bulb 2 Summer Wet Bulb	Summer Temp C FCU 22+/-2degC 24max CHB 24+/-2degC 26max	FCU 55% +/-10 CHB 45% +/-10 Min 35% Control Ind no carpet fitted Fax For Secretaries in hot spots), 4 soc	Vent 10l/s perso acco Extra High Dayli	supply per person. Av n at Air Handli unt of meeting ct 80% of supp Frequency Cor ght linked contr cket F er person. Addi	erage of 15-16l/s ng Unit to take rooms. ly, with ntrol Gear ol to office perime M socket	BMS Control. Local Room Controllers ter zones.

	OOM DATA	SHEET			i			
	oject	120	04		Fil	e Ref		
Ro	om Name	Office			Da	te of origin	n: Aug-10	
Ro	om Number	<u>A</u> 414			Le	vel	Second Floor (2)	1
1.0	General				\neg	 		
1.1	Use	Office	<u> </u>		+			
_	<u> </u>	<u> </u>			1			
1.2	Occupancy							
4.0	In:	+						
1.3	Dimensions	Area (m2)	24.4		1			-
			•		- 1			•
1.4	Planning	 	_	_		<u> </u>		
,	Relationships							
1.5	Fire	-			-	 		
						!		
2.0	Building Element	s			Sne	c Ref		
2.1	Floors	Floating Screed			M1		<u> </u>	
2,2	Walls	Plasterboard Part	titions		K1(1	-	-
2.3	Ceilings	Lay in Mineral Tile			K10	1		
2.4	Door/s &	Solid Timber Vend	eered with glazed si	ide light	L20	/L10		•
	Lock Type					: 1		
2.5	Down of					<u> </u>		
2.0	Degree of Privacy	1 .			- !			
2.6	Windows	N/A						
2.0	Trilluows	IN/A	-		- 1			
2.7	Glazed Screen	See door Schedut	Δ	·	-	 	<u> </u>	
					- 1			
3.0	Services - Refer to	Services Specific	cation	-	- 11	 -		
	Environment	Winter Temp C	Summer Temp C	Air Humidity	Ven	supply	Vent Extract	Control
	FCU= Fan Coil Units	FCU - 20degC					n. Average of 15-16I/s	BMS Control.
	or VRF	min	24max	CHB 45% +/-10	pers	on at Air Ha	andling Unit to take	Local Room
	CHB=Active Chilled Beams	CHB - 22degC	CHB 24+/-2degC	Min 35%	acc	unt of mee	ting rooms.	Controllers
	Dealis	lmin .	26max		I E viti-	act 80% of 4	supply, with	
.2			<u></u>		J-Xu			
	Lighting	Average Daylight F	actor 5% (min	Control	High	Frequency	Control Gear	<u> </u>
		0.5)	·		High	Frequency		ter zones.
			·		High	Frequency	Control Gear	ter zones.
.3	Acoustic Req'mts	0.5) NR 38 - measured	with office empty a	nd no carpet fitted	High Dayl	Frequency ight linked o	Control Gear control to office perime	
.3		0.5) NR 38 - measured Telephone	with office empty at	nd no carpet fitted	High Dayl	Frequency	Control Gear	eter zones.
3.3	Acoustic Req'mts	0.5) NR 38 - measured	with office empty as Computer Min 2 data	nd no carpet fitted	High Dayl	Frequency ight linked o	Control Gear control to office perime	
1.3	Acoustic Req'mts	0.5) NR 38 - measured Telephone Yes	with office empty at Computer Min 2 data sockets per	nd no carpet fitted Fax For Secretaries	High Dayl	Frequency ight linked of ocket	Control Gear control to office perime FM socket	
1.3	Acoustic Req'mts Communications Power sockets	0.5) NR 38 - measured Telephone Yes Small Power Load printer/photocopier	with office empty as Computer Min 2 data sockets per 25W/m2 (+5W/m2 points,	Fax For Secretaries in hot spots). 4 soc	High Dayl	Frequency ight linked of ocket	Control Gear control to office perime	
3.3	Acoustic Req'mts Communications Power sockets Panic Alarm/	0.5) NR 38 - measured Telephone Yes Small Power Load printer/photocopier	with office empty at Computer Min 2 data sockets per 25W/m2 (+ 5W/m2	Fax For Secretaries in hot spots). 4 soc	High Dayl	Frequency ight linked of ocket	Control Gear control to office perime FM socket	
.3	Acoustic Req'mts Communications Power sockets Panic Alarm/ Security	0.5) NR 38 - measured Telephone Yes Small Power Load printer/photocopier PIR detectors and	with office empty at Computer Min 2 data sockets per 25W/m2 (+5W/m2 points, window contactors,	nd no carpet fitted Fax For Secretaries in hot spots). 4 soc	High Dayl	Frequency ight linked of ocket er person.	Control Gear control to office perime FM socket	
.3	Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other	0.5) NR 38 - measured Telephone Yes Small Power Load printer/photocopier PIR detectors and a	with office empty at Computer Min 2 data sockets per 25W/m2 (+5W/m2 points. window contactors. cupancy Density: 1	nd no carpet fitted Fax For Secretaries in hot spots). 4 soc	High Dayl	Frequency ight linked of ocket er person.	Control Gear control to office perime FM socket	
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Environment FCU= Fan Coil Units or VRF CHB=Active Chilled Beams CHB=Active Chilled Beams CHB=Active Chilled CHB 22degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 24+/-2degC CHB 2	3.0	Services - Refer to	Services Specific	ation	· · ·	1 -			
min CHB -22degC min Schilled Beams min CHB 24-4-2degC 26max	3.1	Environment	Winter Temp C	Summer Temp C	Air Humidity	Vent s	supply	Vent Extract	Control
or VRF CHB-Active Chilled Beams min CHB 224egC min CHB 24+/-2degC 26max CHB 24+/-2degC 26max CHB 35% +/-10 Min 35% Extract 80% of supply, with Average Daylight Factor 5% (min 0.5) Acoustic Req'mts NR 38 - measured with office empty and no carpet fitted 3.3 Acoustic Req'mts NR 38 - measured with office empty and no carpet fitted Telephone Yes Min 2 data Sockets per Small Power Load 25W/m2 (+ 5W/m2 in hot spots). 4 sockets per person. Additional sockets at printer/photocopier points. 3.5 Panic Alarm/ Security 3.6 Other Average Office Occupancy Density: 1 person 10m2. Meeting Aberta Room COntrollers Control High Frequency Control Gear Daylight linked control to office perimeter zones. TV/ socket FM socket Other Other Other Fax TV/ socket FM socket Other FM socket Other About 1 person. Additional sockets at printer/photocopier points. About 2 data Sockets per person. Additional sockets at printer/photocopier points. Are Leakage Rate 5m3/ftr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb 4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC	ŀ	FCU≐ Fan Coil Units							BMS Control.
Beams min 26max Extract 80% of supply, with 3.2 Lighting Average Daylight Factor 5% (min 0.5) High Frequency Control Gear Daylight linked control to office perimeter zones. 3.3 Acoustic Req'mts NR 38 - measured with office empty and no carpet fitted 3.3 Communications Telephone Computer Fax TV socket FM socket Other Yes Min 2 data For Secretaries sockets per 3.4 Power sockets Small Power Load 25W/m2 (+ 5W/m2 in hot spots). 4 sockets per person. Additional sockets at printer/photocopier points. 3.5 Panic Alarm/ Security 3.6 Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2.5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29deg C Summer Wet Bulb 21deg C Winter Dry Bulb 4deg C Winter Wet Bulb 4deg C Winter Wet Bulb 4deg C Winter Wet Bulb 4deg C						7 1 1		-	
0.5) Daylight linked control to office perimeter zones. NR 38 - measured with office empty and no carpet fitted Telephone Yes Min 2 data Sockets per Small Power Load 25W/m2 (+ 5W/m2 in hot spots). 4 sockets per person. Additional sockets at printer/photocopier points. Security Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2.5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb -4degC Winter Wet Bulb -4degC Winter Wet Bulb -4degC Fittings Spec Ref			_	_	Min 35%				Controllers
Acoustic Req'mts NR 38 - measured with office empty and no carpet fitted 3.3 Communications Telephone Computer Fax TV socket FM socket Other Yes Min 2 data For Secretaries sockets per 3.4 Power sockets Small Power Load 25W/m2 (+ 5W/m2 in hot spots). 4 sockets per person. Additional sockets at printer/photocopier points. 3.5 Panic Alarm/ Security 3.6 Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2.5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb -4degC Winter Wet Bulb -4degC Winter Wet Bulb -4degC Spec Ref	3.2	Lighting		actor 5% (min	Control				eter zones.
Yes Min 2 data For Secretaries sockets per 3.4 Power sockets Small Power Load 25W/m2 (+ 5W/m2 in hot spots). 4 sockets per person. Additional sockets at printer/photocopier points. 3.5 Panic Alarm/Security 3.6 Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2.5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb -4degC Winter Wet Bulb -4degC Winter Wet Bulb -4degC Winter Wet Bulb -4degC Spec Ref	3.3	Acoustic Req'mts	NR 38 - measured	with office empty a	nd no carpet fitted	man, cca		,	
printer/photocopier points. 3.5 Panic Alarm/Security 3.6 Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2.5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb -4degC Winter Wet Bulb -4degC Spec Ref	3.3	Communications		Min 2 data		TV so	cket	FM socket	Other ·
Security 3.6 Other Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2.5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb 4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC Spec Ref	3.4	Power sockets	1		in hot spots), 4 so	ckets pe	er person. A	dditional sockets at	-
Average Office Occupancy Density: 1 person 10m2. Meeting Rooms 1 person 2.5m2 Air Leakage Rate 5m3/hr/m2 @50pa. Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb 4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC Spec Ref	3.5	ŀ	PIR detectors and	window contactors.					
Ambient Design Conditions: Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb 4degC Winter Wet Bulb 4degC Winter Wet Bulb 4degC Spec Ref	3.6	Other	Average Office Oc	cupancy Density: 1	person 10m2. Me	eting R	ooms 1 per	son 2.5m2	
Summer Dry Bulb 29degC Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb -4degC 4.0 Fittings Spec Ref			Air Leakage Rate	5m3/hr/m2 @50pa.	. •	2 1			
Summer Wet Bulb 21degC Winter Dry Bulb -4degC Winter Wet Bulb -4degC 4.0 Fittings Spec Ref			Ambient Design	Conditions:					
Winter Dry Bulb -4degC Winter Wet Bulb -4degC 4.0 Fittings Spec Ref			Summer Dry Bulb	29degC					
Winter Wet Butb -4degC 4.0 Fittings Spec Ref			Summer Wet Bulb	21degC	•				
4.0 Fittings Spec Ref	1		Winter Dry Bulb -	ldegC		1			
			Winter Wet Bulb -	-					
Blinds N10	_						Ref	·	•
	l	Blinds				N10			

	OW DATA S				- i		 -
Proj		1204 Kitahan	•		- 1	File Ref	
	m Name	Kitchen			- 1	Date of origin: Aug-10	E4 (0)
	m Number	A412			i	Level Second	Floor (2)
	General Use	Kitchen			1	:	·
1.2	Occupancy				-		
1.3	Dimensions	Area (m2)	24,3		ļ		
1.4	Planning Relationships				7		
1.5	Fire		·			! !	
2.0	Building Elements	<u> </u>			;	Spec Ref	
	Floors	Floating Screed			_	M10	
					:	:	
					1		- ·
					:		
2.2	Walls	Plasterboard Part	itions			K10	
2.3	Ceilings	Lay in Mineral Tile	•			K10	·
						:	
2.4	Door/s &	Solid Timber Vend	eered	•		Ĺ20	
	Lock Type						. *
2.5	Degree of Privacy						
2.6	Windows	N/A		 			
2.7	Glazed Screen	N/A			1		
3.0	Services - Refer to	Services Specifi	cation		1		
3.1	Environment	Winter Temp C	Summer Temp	C Air Humidity		Vent supply Vent Ext	tract Control
	·	18degC	not controlled	not controlled	2	Up to 35 air changes hour. Dedicated supply air handlin Extract canopy over cooking (special installation).	
3.2	Lighting	500lux	<u></u>	Control		High Frequency Control Ge Manual Switching.	ar .
3.3	Acoustic Req'mts			. 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
3.3	Communications	Telephone Yes	Computer in kitchen office	Fax	100	TV socket FM sock	et Other
3.4	Power sockets	dedicated 3 phase Hard wired power	e distribution board supplies to electri		or twitter to the control		
3.5	Panic Alarm/ Security						
3.6	Other		to cookers and hol				
	Fridge	Drainage and H&	C water connection	ns as required.	TOTAL .	N11	
						1	

Room 1.0 C 1.1 L 1.2 C 1.3 L 1.4 F F 1.5 F 2.0 E 2.1 F 2.2 V	n Name n Number General Use Occupancy Dimensions Planning Relationships Fire Building Elements	Office A411 Office Area (m2)	24.3		File Ref Date of origin: Aug-10 Level Second Floor	r (2)
Room 1.0 C 1.1 L 1.2 C 1.3 L 1.4 F F 1.5 F 2.0 E 2.1 F 2.2 V	n Number General Use Occupancy Dimensions Planning Relationships Fire Building Elements	A411 Office Area (m2)	24.3			r (2)
1.0 C 1.1 U 1.2 C 1.3 C 1.3 C 1.4 F F F F F F F F F F F F F F F F F F F	General Use Occupancy Dimensions Planning Relationships Fire Building Elements	Office Area (m2)	24,3		Level Second Floor	(2)
1.1 L 1.2 C 1.3 E 1.4 F 1.5 F 2.0 E 2.1 F 2.2 V	Use Occupancy Dimensions Planning Relationships Fire Building Elements	Area (m2)	24.3			
1.2 C 1.3 C 1.4 F 1.5 F 2.0 E 2.1 F 2.2 V	Occupancy Dimensions Planning Relationships Fire Building Elements	Area (m2)	24.3			
1.4 F 1.5 F 2.0 E 2.1 F 2.2 V	Dimensions Planning Relationships Fire Building Elements		24.3			
1.4 F 1.5 F 2.0 E 2.1 F 2.2 V	Planning Relationships Fire Building Elements Floors		24.3			
1.4 F 1.5 F 2.0 E 2.1 F 2.2 V	Planning Relationships Fire Building Elements Floors					
2.0 E 2.1 F 2.2 V	Relationships Fire Building Elements Floors					
1.5 F 2.0 E 2.1 F 2.2 V	Fire Building Elements Floors		· · · · · · ·			
2.0 E 2.1 F 2.2 V	Building Elements				· · · · · · · · · · · · · · · · · · ·	
2.1 F 2.2 V	Floors					
2.1 F 2.2 V	Floors	•			Spec Ref	
2.2 V		Floating Screed			* -	•
	Walls	Plasterboard Partit	iono	•	M10	
د.ت إل	wans Ceilings		IUS		K10	
2.4 C	Denings Door/s &	Lay in Mineral Tile	المحمد المعمل المعمد المعمد المعمد	do light	K10	
- 1-		Sour Limber Aeue	ered with glazed sid	ae rignt	L20/L10	
ľ	Lock Type					
2.5	Degree of					
F	Privacy					
2.6 V	Nindows	N/A	-			
2,7	Glazed Screen	See door Schedule	:			
3,0 S	Services - Refer to	Services Specific	ation		-	· ·
_	Environment	Winter Temp C	Summer Temp C	Air Humidity	Vent supply Vent Extract	Control
ا	-CU≃ Fan Coil Units		FCU 22+/-2degC		10l/s per person. Average of 15-1	
	or VRF .	min	24max	CHB 45% +/-10	person at Air Handling Unit to tak	
- 1	CHB=Active Chilled	CHB - 22degC	CHB 24+/-2degC	Min 35%	account of meeting rooms.	Controllers
В	Beams	min	26max .		Extract 80% of supply, with	
3.2 L	_ighting	Average Daylight F 0.5}	actor 5% (min	Control	High Frequency Control Gear Daylight linked control to office pe	erimeter zones.
3.3 A	Acoustic Req'mts	NR 38 - measured	with office empty a	nd no carpet fitted		
3.3	Communications	Telephone	Computer	Fax	TV socket FM socket	Other
		Yes	Min 2 data sockets per	For Secretaries	VCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	
3.4 P	Power sockets	Small Power Load printer/photocopier		in hot spots). 4 so	els per person. Additional socket	s at
3.5 P	Panic Alarm/	PIR detectors and			1	
	Security			•		
_	Other .	Average Office Occ	cupancy Density: 1	person 10m2. Me	ting Rooms 1 person 2.5m2	
	•	Air Leakage Rate 5				
- 1		Summer Dry Bulb 2			3	
ŀ	.	Summer Wet Bulb	-			
		Winter Dry Bulb -4	•			
		Winter Wet Bulb -4	-			
\$,0 F	ittings		u=		Spec Ref	•
	Blinds		·		N10	

RO	<u>OM DATA S</u>	HEET						
Proje	ect	1204			Fji	e Ref		
Roos	m Name	Office			D	te of origin: Aug	j-10	
Root	m Number	A410			Le	vel Sec	ply, with Introl Gear trol to office perimeter zones. FM socket Other ditional sockets at	
1,0	General				1	•		
1.1	Use	Office	•					
1.2	Occupancy				į			
ł					i			!
1.3	Dimensions	Area (m2)	24.3					
					- 1			
L					<u>.</u> į			
1.4	Planning							
ــــا	Relationships				4	•		•
1.5	Fire -					• .		
<u>.</u>	D. Halland Elements	<u> </u>			_	as Daf		
2.0 2.1	Building Elements	Floating Screed	·		M M	ec Ref		
ŀ	Walls	Plasterboard Partit	ione		K.			
ı	Ceilings	Lay in Mineral Tile			K.			
	Door/s &	l '	ered with glazed sid	de liaht	- :	0/L10		
-"	Lock Type		oroa min giazoa an	50 light	-			
2.5	Degree of							
	Privacy			,	- 1			
2.6	Windows	N/A			T			
						•		
2.7	Glazed Screen	See door Schedule	· ·					
匚								
3.0	Services - Refer to		•					
3.1	Environment	Winter Temp C	Summer Temp C					
1	FCU= Fan Coil Units	FCU - 20degC	FCU 22+/-2degC 24max	CHB 45% +/-10	110	l/s per person. Avera	ige of 35-16l/s Unit to take	
	or VRF CHB=Active Chilled	min CHB - 22degC	CHB 24+/-2degC	Min 35%		count of meeting roo		
	Beams	min	26max			tract 80% of supply,		o sitta o ii o i o
3.2	Lighting	Average Daylight F	actor 5% (min	Control		gh Frequency Contr	.14 1	<u> </u>
٥2	Lighting	(0.5)	2001 0 70 (IIIII)					eter zones.
3.3	Acoustic Regimts	· ·	with office empty a	nd no camet fitted	- 2 !			•
					4	.*		
3.3	Communications	Telephone	Computer	Fax.	T	socket FM	socket	Other
		Yes	Min 2 data	For Secretaries	4	,		
			sockets per					
3.4	Power sockets			in hot spots). 4 so	cket	s per person. Additio	nal sockets at	
		printer/photocopie	·		1			
3.5	Panic Alarm/	PIR detectors and	window contactors.	,				
Ļ	Security	<u> </u>			4			
3.6	Other				eetir	g Rooms 1 person 2	5m2	•
		1 -	5m3/hr/m2 @50pa.					
		Ambient Design			7	. •	*	
		Summer Dry Bulb						
]		Summer Wet Bulb	-		200			•
		Winter Dry Bulb → Winter Wet Bulb →						
4.0	Fittings	France Mer Out -	racgo		Ś	ec Ref		·····
٣	Blinds					10		
ı	1				- 1	-		

	ject .	120	4		- 1	e Ref		
Roc	om Name	Office			Da	te of origin:	Aug-10	•
Roc	m Number	A409		·	Le	vel	Second Floor (2)	
1,0	General				- [·
1.1	Use	Office	<u></u>					
							·	
1.2	Occupancy							
1.3	Dimensions	Area (m2)	24.3			 	 -	-
		ŀ	•					
77		 	·		_	<u> </u>	·	<u> </u>
1.4	Planning							
1.5	Relationships		•			<u>i </u>		
1.0	Fire				:			
2.0	Building Elements				64	ec Ref		
2.1	Floors	Floating Screed			M1			
2.2	Walis	Plasterboard Part	itions		K10	1		
2.3	Ceilings	Lay in Mineral Tile	·		K10	1		
2.4	Door/s &		, eered with glazed si	de liaht	- 1)/L10		
	Lock Type		Sideod of	"8"	٠	, C10		
] "	1			į			
2.5	Degree of	1				!		
	Privacy							
2.6	Windows	N/A				†		
					1			
2.7	Glazed Screen	See door Schedul	e				<u> </u>	
	<u> </u>						·	
3.0	Services - Refer to				I			
3,1	Environment	Winter Temp C	Summer Temp C		_	supply	Vent Extract	Control
	FCU= Fan Coil Units	FCU - 20degC	FCU 22+/-2degC				Average of 15-16l/s	BMS Control.
	or VRF	min CHB - 22degC	24max CHB 24+/-2degC	CHB 45% +/-10			dling Unit to take	Local Room
	CHB=Active Chilled Beams	min	26max	Min 35%		ount of meetin ract 80% of su		Controllers
2.2					3.1			<u> </u>
3.2	Lighting	Average Daylight (0.5)	ractor 5% (min	Control		h Frequency C	ontrol Gear ntrol to office perime	tor zoner
3.3	Acoustic Regimts	·	with office empty o	nd no carnot fitted	Jay	ngrit milkeu (X)	mor to onice perime	ici zunes.
	vacant sed ups	medauleu	mai onice empty a	na no carperniteu	-			
3.3	Communications	Telephone	Computer	Fax	TV	socket	FM socket	Other
		Yes	Min 2 data	For Secretaries	-		i in accinct	Julei
			sockets per					
3.4	Power sockets	Small Power Load	25W/m2 (+5W/m2	in hot spots). 4 so	ckets	per person. Ad	iditional sockets at	· .
		printer/photocopie	r points.		: -	1		
3.5	Panic Alarm/	PIR detectors and	window contactors.		7	İ		-
	Security					<u> </u>		
.6	Other		cupancy Density: 1	person 10m2. Me	eting	Rooms 1 pers	on 2.5m2	
		Air Leakage Rate	5m3/hr/m2 @50pa.	•	A CONTRACTOR			
,		Ambient Design (Conditions:		W 1.791.10			
	ĺ	Summer Dry Bulb	29degC					
٠,		Summer Wet Bulb			*			
		Winter Dry Bulb -4						
		Winter Wet Bulb -4	•		4			
			 _		Spec Ref			
.0	Fittings				Sne	c Ref		

	JON DATA S				<u> 1</u>			
Pro	ject	12	04			File Ref		.
Roc	m Name	Office				Date of origin:	Aug-10	
Roc	m Number	A408				Level	Second Floor (2)	-
1.0	General			1			000011001 (2)	
1.1	Use	Office			 	 		
		1						
1.2	Occupancy							
		<u> </u>						
1.3	Dimensions	Area (m2)	24.3			· ·	-	
				:				
1.4	Planning				ļ	· .		
1.4	Relationships	1		:				
1.5	Fire	 	-	<u>. : : : : : : : : : : : : : : : : : : :</u>	<u> </u>			
	1 110							
2.0	Building Element	\$		- 1	-	Spec Ref		<u> </u>
2.1	Floors	Floating Screed			+	M10	· · · · · ·	
2.2	Walls	Plasterboard Par	titions			K10		
2.3	Ceilings	Lay in Mineral Ti	le		-	K10		
2.4	Door/s &	Solid Timber Ver	neered with glazed si	ide light		L20/L10		
-	Lock Type]		•				
		<u> </u>		_				
2.5	Degree of	•	-					<u>-</u>
	Privacy					<u> </u>		
2.6	Windows	N/A		•			.,	
2,7	Olerad Barrer	0		·;				<u></u>
2,7	Glazed Screen	See door Schedu	lie				•	
3.0	Services - Refer to	Services Specif	ication		 		<u> </u>	
	Environment	Winter Temp °C		Air Humidin		Vent-supply	Vent Extract	Control
1	FCU= Fan Coil Units	FCU - 20degC	FCU 22+/-2degC					BMS Control.
	or VRF	min	24max	CHB 45%	/-10	person at Air Hand		Local Room
	CHB=Active Chilled	CHB - 22degC	CHB 24+/-2degC	Min 35%] -	account of meeting		Controllers
	Beams	min	26max	1		Extract 80% of sup		
.2	Lighting	Average Daylight	Factor 5% (min 0.5)	Control		High Frequency Co	ontrol Gear	l
		300-500lux (minii			1		ntrol to office perime	ter zones.
3.3	Acoustic Req'mts	NR 38 - measure	d with office empty a	nd no carpet	fitted			
.3	Communications	•	Computer	Fax		TV socket	FM socket	Other
		Yes	Min 2 data	For Secreta	ries			
_			sockets per			_	· .	
.4	Power sockets	Small Power Load	25W/m2 (+ 5W/m2	in hot spots)	. 4 so	ckets per person. Ad	ditional sockets at p	rinter/photocopier
ᅴ	Danie Ale	points.		- 4	<u> </u>	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
- 1	Panic Alarm/	PIR detectors and	window contactors.					
	Security Other	Augross Office O	Annancii Di III					
ا ٥.	Otuel	Average Office Of	ccupancy Density: 1	person 10m	2. Me	eting Rooms 1 perso	on 2.5m2	
			5m3/hr/m2 @50pa.	and the second	:			
- 1		Ambient Design	1	200	:			
- 1		Summer Dry Bulb						
ı		Summer Wet Bulk	_					
	,	LAP - L - D - D - D		<u>i</u> 1	1			
		Winter Dry Bulb -	_	1				
	-i4tinas	Winter Dry Bulb - Winter Wet Bulb -	_					
	Fittings Blinds		_			Spec Ref		

	ON DATA S	1204		i i	1	File Ref	 		
Proje	ect m Name						Åug 10		
		Lift Lobby				Date of origin:	Aug-10	•	
	M Number	A416	-	1	1	Level	Second Floor (2)	
	General Use	Lift Lobby		1	1				,
	٠.	Lift Cobby							
1.2	Occupancy								
1.3	Dimensions	Area (m2)	17.2						
							•		
1.4	Planning Relationships	·		-				•	
1.5	Fire			-					
2.0	Building Elements			-		Spec Ref			
	Floors	Floating Screed	•		 	M10			
				İ					• .
2.2	Walls	Plasterboard Partit	ions			K10			
	,			-					
2.3	Ceilings	Lay in Mineral Tile				K10			• .
2.4	Door/s &	Solid Timber Vene	ered	1		L20			
	Lock Type			•					•
2.5	Degree of Privacy			,					
2.6	Windows	N/A							
2.7	Glazed Screen	See door Schedule					·		
	·								
3.0	Services - Refer to					T	L	<u> </u>	
3.1	Environment	Winter Temp °C	Summer Temp °C			Vent supply	Vent Extract	Control	
2.0	I inhaire	20degC	not controlled	not controll	ed:	not controlled	not controlled	none	
3.2	Lighting	200 lux Lighting to the lift		Control		High Frequency C Manual switching			
		controls and		al formula		manual switching			
		doorways		,	1				!
3.3	Acoustic Req'mts		•	1					-
L	Requirements	<u> </u>		and a second			<u> </u>	<u>. </u>	
3.3	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other	
3.4	Power sockets	Cleaners socket		TOTAL TERMS CANADA					
3.5	Panic Alarm/				<u> </u>				
L	Security	<u></u>			<u> </u>				
3.6	Other	Pressurised - depe	ndent on fire strate	gy	:				
<u> </u>		L		. !	1				

	JOM DATA S				<u> </u>				
Proj		1204	ļ			File Ref	-	_	_
Roo	m Name	North Stair			İ	Date of origin:	. Aug-10		
Roo	m Number	A417				Level	Second Floor (2)	
1.0	General	<u></u>	·-· ,		1			-,	
1.1	Use	Stair				.	-		
1									
1.2	Occupancy	 							 -
1.3	Dimensions	Area (m2)	<u> </u>		1				
				:		1	•		•
				:					
1.4	Planning	1							
	Relationships								
1.5	Fire	1			Ì				
<u> </u>		<u> </u>							•
2.0	Building Element	S			İ	Spec Ref			
2.1	Floors	Floating Screed				M10			
				:					
				:					
				:					
2.2	Walis	Plasterboard Parti	tions	!	İ	K10			
		140mm Blockwork				F10			
		Plasterbord Wall L	ining ·			K10			
			•						
2.3	Ceilings	Lay in Mineral Tile		!	1	K10			
					į			*	
	Door/s &	Solid Timber Vene	ered			L20			
	Lock Type	`	•	:			•	٠	
				1					
	Degree of								
	Privacy			<u> </u>	<u> </u>				
2.6	Windows	N/A		:					
								<u> </u>	
2.7	Glazed Screen	N/A							
لبِ	<u> </u>				ļ				
	Services - Refer to			<u> </u>	_			· · · · ·	
3.1	Environment	Winter Temp °C	Summer Temp °C			Vent supply	Vent Extract	Control	
3.2	Lighting	18degC	not controlled	not controlle	d	not controlled	not controlled	none	
J.Z	Lighting	150 lux on all tread	5	Control		High Frequency C	ontrol Gear		
3.3	Aggreetic Desilent			L		Manual switching			
	Acoustic Regimts			7			v		
	Requirements Communications	Tolonkana	Comert	-	1	-			
ນ.ນ	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other	
3.4	Power sockets	Cleaners socket	 -				<u> </u>		
J.7	FOWEI SUCREIS	Oleaners Sucket		7					i
3.5	Panic Alarm/		-	. 1.1	<u> </u>	·		<u> </u>	
- 1	Panic Alarmy Security		. •						
	Other	Draccuriond doc-	ndont on Ess about	70.1	-				
v.u	· ·	Pressurised - depe	nuent on fire strate	9 y					
4.0 i	Fittings					Care Def	 		
	Painted 40mm dia h	andraile	· - -		 -	Spec Ref	<u> </u>		
ľ	Carroo Tommi dia 11	unumana		:	į	L30]

Ргој	ect	1204	ļ			File Ref		
Roo	m Name	Corridor		•		Date of origin:	Aug-10	
Roo	m Number	A407		•		Level	Second Floor (2)	
1.0	General						<u> </u>	
1.1	Use	Lift Lobby						
1.2	Occupancy							
1.3	Dimensions	Area (m2)	91.3	· ·		<u> </u>	_	
1.4	Planning Relationships							. <u>-</u>
1.5	Fire						••	
2.0	Building Elements					Spec Ref		
2.1	Ficors	Floating Screed				M10		
2.2	Walls	Plasterboard Parti Plasterboard Wall				K10 K10		
2.3	Ceilings	Lay in Mineral Tile				K10		
2.4	Door/s & Lock Type	N/A		·				
2.5	Degree of Privacy		- <u>-</u> -			-		
2.6	Windows	N/A		,				-
2.7	Glazed Screen	N/A						
3.0	Services - Refer to	Services Specific	ation	i				
3.1	Environment		Summer Temp °C			Vent supply	Vent Extract	Control
		not controlled	not controlled	not controll	ed	not controlled	not controlled	not controlled
	Lighting	200 Lux		Control		Manual Switching		
3.3	Acoustic Req'mts Requirements	None						
	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other
3.4	Power sockets	cleaners socket						-
	Panic Alarm/ Security			- 1				······································
3.6	Other							

	JOIN DATA S				₩			
Proj		120	1			File Ref		
	m Name	South Stair				Date of origin:	Aug-10	
Roo	m Number	A300	•			Level	First Floor (1)	
1.0	General		-	-				
1.1	Use	Stair	*	÷		.		-
1.2	Occupancy		. 	-		·	<u>-</u> .	
1.3	Dimensions	Area (m2)						
1.4	Planning		<u>.</u>	<u> </u>		· ·	· •	
1.5	Relationships Fire	 	<u>.</u>			<u> </u>		
		<u> </u>	 _					
2.0	Building Element				1	Spec Ref		
2.1	Floors	Floating Screed				M10		
							÷	
							•	
2.2	Walls	Plasterboard Parti		47		K10		
		140mm Blockwork				F10		
	·	Plasterbord Wall Lining				K10		
2.3	Ceilings	Lay in Mineral Tile				K10		<u> </u>
		O-E-I Timb						
2.4	Door/s &	Solid Timber Vene	erea			L20		
	Lock Type						· .	
	Degree of Privacy		4					
2.6	Windows	N/A		-		-		
2.7	Glazed Screen	N/A						
.0	Services - Refer to	Services Specific	ation		-			
	Environment		Summer Temp °C	Air Humidi	fy	Vent supply	Vent Extract	Control
		18degC	not controlled	not control		not controlled	not controlled	none
.2	Lighting	150 lux on all tread		Control·		High Frequency (Manual switching	Control Gear	
.3	Acoustic Reg'mts			•	· · ·			
		ŀ		. 1	1.1			
	Requirements Communications	Telephone	Computer	Fax		TV socket	FM socket	Other
1.3	Requirements	Telephone Cleaners socket	Computer	Fax		TV socket	FM socket	Other
.4	Requirements Communications Power sockets Panic Alarm/		Computer	Fax		TV socket	FM socket	Other
.3 .4 .5	Requirements Communications Power sockets			And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		TV socket	FM socket	Other
.3 .4 .5	Requirements Communications Power sockets Panic Alarm/ Security	Cleaners socket		And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		TV socket	FM socket	Other

	DOM DATA S				<u> </u>			
Proj		120)4			File Ref		
	m Name	Corridor		-	ŀ	Date of origin:	Aug-10	
	m Number	A308				Level	First Floor (1)	
1.0	General							
1.1	Use	Lift Lobby		· .		<u></u>		
1.2	Occupancy	· [<u> </u>		
1.3	Dimensions	Area (m2)	87	•				<u>-</u>
1.4	Planning		-		-	·	· 	
	Relationships		<u> </u>					
1.5	Fire							
2.0	Building Element	5				Spec Ref		
2.1	Floors	Floating Screed			Ϊ	M10	<u> </u>	
į	·			•				
							· .	
2.2	Walls	Plasterboard Part	itions			K10		
		Plasterboard Wal	Lining			K10		•
2.3	Ceilings	Lay in Mineral Tile	- 			K10	<u> </u>	
2.4	Door/s &	N/A			\vdash			
	Lock Type						•	
	Degree of Privacy					· · ·	.	
	Windows	N/A	-	:			<u> </u>	
2.7	Glazed Screen	N/A	· · · · · · · · · · · · · · · · · · ·	<u> </u>		· · · · · · · · · · · · · · · · · · ·		
	Services - Refer to		cation	1	H	· ·		
3.1	Environment	Winter Temp °C	Summer Temp °C	Air Humidit	y :	Vent supply	Vent Extract	Control
[· .	not controlled	not controlled	not controlle		not controlled	not controlled	not controlled
3.2	Lighting	200 Lux		Control		Manual Switching		
	Acoustic Req¹mts	None		T. Vojetnika	1 :	·		
	Requirements	~ ()			-			
3.3	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other
3.4	Power sockets	cleaners socket						
	Panic Alarm/ Security			THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S				
	Other	· · · · · · · · · · · · · · · · · · ·		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon			<u> </u>	
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	ON DATA S				<u> </u>	Élla D. C			
Proj -		1204				File Ref			
Roo	m Name	North Stair				Date of origin:	Aug-10		
Roo	m Number	A310			il.	Level	First Floor (1)		
1.0	General						-		
1.1	Use	Stair							
1.2	Occupancy								
1.3	Dimensions	Area (m2)	16.9	-			·		
4.4									
	Planning Relationships								
1.5	Fire							٠.	
2.0						Spec Ref			
2.1	Floors	Floating Screed		·		M10			é
• • •					<u> </u>				
2,2	Walls	Plasterboard Partit				K10			
		140mm Blockwork				F10		•	
		Plasterbord Wall Li			K10				
2.3	Ceilings	Lay in Mineral Tile				K10			
<u> </u>						,			
2.4	Door/s &	Solid Timber Vene	ered			L20			
	Lock Type								
2.5	Degree of						•		
	Privacy					•			
2.6	Windows	N/A							
2.7	Glazed Screen	N/A							
3.0	Services - Refer to	 Services Specific	ation						
	Environment		Summer Temp °C			Vent supply	Vent Extract	Control	
			not controlled	not contr		not controlled	not controlled	none	
3.2	Lighting	150 lux on all tread		Control		High Frequency (Manual switching	Control Gear	pione	
3.3	Acoustic Req mts						·		
	Requirements					· · · · · · · · · · · · · · · · · · ·			
3.3	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other	
3.4	Power sockets	Cleaners socket							
3.5	Panic Alarm/ Security						·		
3.6		Pressurised - depe	ndent on fire strate	gy					
4.0	Fittings	•		:	İ	Spec Ref			
	Painted 40mm dia h	nandrails				L30			

Pı	roject	12	204		Fil	le Ref	 -	
	oom Name	Cleaners S				ite of origin:	A 40	
	oom Number	A311			i	=	Aug-10	
_	O General	AUII	<u> </u>		Le	vel	First Floor (1)	
	Use	Store			 	·		
		[5.5.5						•
1.3	2 Occupancy				 	_		
	',							
1.3	Dimensions	Area (m2)	1.5	 i	 		 _	
		` ′		!				
L	<u></u>							
1.4	Planning				<u> </u>		 _	<u> </u>
L	Relationships							
1.5	Fire		- ,					
L	<u> </u>	•						
2.0					Spe	ec Ref		
2.1	Floors	Floating Screed		,	M10	0		
		1						
١.	•						•	
		ĺ		:				
ı			•					
2.2	Walls	Pt / 1 P	····		<u> </u>	<u> </u>		
2.2	Ivvaiis	Plasterboard Par	titions		K10	,		
ĺ	•							
2.3	Ceilings	Lay in Mineral Til			1440		·	<u></u>
	ge	Lay in Mineral III	C		K10			
		•						
2.4	Door/s &	N/A			 		<u> </u>	
	Lock Type	*		:	•			
		1						· .
2.5	Degree of		· · · · · · · · · · · · · · · · · · ·				 .	
	Privacy			:			•	ı
2.6	Windows	N/A						- <u>-</u>
		<u> </u>				•		
2.7	Glazed Screen	N/A					_	
	<u> </u>	<u> </u>	_ _	:				
3.0	Services - Refer to							
3.1	Environment	Winter Temp °C	Summer Temp °C	Air Humidity		supply	Vent Extract	Control
3.2	l imbein n	not controlled	not controlled	not controlled		ct 6 air chang	es hour.	PIR controlled
J.Z	Lighting	200 Lux		Control		ual switching		
3.3	Acoustic Reg'mts	None		L	Time	<u>r </u>	.	
٠.٠	Requirements	I VOIC		and the	1			
3.3		Telephone	Computer	Fax	71.	 		
		reiopriorie	Computer	rax	TV so	ocket	FM socket ,	Other
3.4	Power sockets				1			
					1			
3.5	Panic Alarm/				1			
	Security		•	APPENDIC	1:			1
.6	Other	sink with hot and c	old water	1	 			
		floor gully						
	Fittings				Spec	Ref		
	Butlers sink				N12			
ı	Shelving				N10			

Proj	act	1204				File Ref		
-	m Name		•		:			
	m Number	Lift Lobby			:	Date of origin:	Aug-10	
	*	A309		· i		Level	First Floor (1)	
1.0 1.1	General	E		1			<u> </u>	•
	Use	Lift Lobby						
1.2	Occupancy			-				
1.3	Dimensions	Area (m2)	16.9					
1.4	Planning Relationships					-	•	-
1.5	Fire							•••
2.0	Building Elements	,	,	4		Spec Ref		
2.1		Floating Screed				M10		
		, reasing coloca					÷	
						· .		
2.2	Walls	Plasterboard Partit	ions	·		K10		. '
2.3	Ceilings	Lay in Mineral Tile				K10		
	ocimi g a	Lay III Williera Tile				KIU		
2.4	Door/s & Lock Type	Solid Timber Vene	ered	, .		L20		
2.5	Degree of Privacy							
2.6	Windows	N/A				-		
2.7	Glazed Screen	See door Schedule)					
3.0	Services - Refer to	Services Specific						
3.1	Environment	Winter Temp °C	Summer Temp °C	Air Humid	ity	Vent supply	Vent Extract	Control
		20degC	not controlled	not contro		not controlled	not controlled	none
	Lighting	200 lux Lighting to the lift controls and doorways		Control		High Frequency C Manual switching		
	Acoustic Req'mts							
_	Requirements							
	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other
	Power sockets	Cleaners socket						
	Panic Alarm/ Security							
3.6	Other	Pressurised - depe	ndent on fire strate	gy				

Proj	DOM DATA							
-		120			- 1	le Ref		
	m Name	Male Chang	ıng	•	D	ate of origin:	Aug-10	
	m Number	A307			Le	evel	First Floor (1)	
1.0	General	· ·			- 4	:		
1.1	Use	Changing/Wet Ar	ea			_		
1.2	Occupancy		·					
1.3	Dimensions	Area (m2)	58.8			 		
				,				
	Planning Relationships			<u></u>				- , <u></u>
1.5	Fire							
	Building Element	s			So	ec Ref		
	Floors	Floating Screed			M1		_	_
I	Finish	Non Stip Tiling			M5			
2.2	Walls	Plasterboard Part	itions	Fire rated	K1			
	Finish	Full height tiling to		. no rated	M5			
		Paint			CIVI	U .		
2.3	Ceilings	Lay in Mineral Tile	,		174	,		
	Door/s &	Solid Timber Vene			K10			
	Lock Type	Colid Tillidel Velle	sereu .		L2Ċ	וי		
	Degree of							
$\overline{}$	Privacy							
.6	Windows	N/A						
.7	Glazed Screen	N/A	-	<u>.</u>				
3.0 \$	Services - Refer to	Services Specific	ation			1:		-
	Environment	Winter Temp C	Summer Temp C	Air Humidibe		t supply	Vant Futant	10
		22degC min.	26max if cooling				Vent Extract	Control
4		zzogo min,	provided	Not controlled	hou	r changes per r.	10 air changes per hour	PIR control on fans and lighting
	· -		<u> </u>					
.2	Lighting	200 lux IP65 fittings	<u>. </u>	Control	PIR	control and sv	vitch	
.2		IP65 fittings		Control .	PIR	control and sv	witch	-
.2	Lighting Acoustic Req'mts	IP65 fittings	<u> </u>	Control .	PIR	control and sv	vitch	
.2		IP65 fittings		Control	PIR	control and sv	witch	
.3		IP65 fittings	Computer	Control	***************************************	control and sv	FM socket	Other
.3 A	Acoustic Req'mts	IP65 fittings NR45	Computer		***************************************			Other
.3 A .3 C	Acoustic Req'mts Communications Power sockets	IP65 fittings NR45 Telephone	Computer		***************************************			Other
.2 .3 A .3 C 4 P 5 P	Acoustic Req'mts Communications Power sockets Panic Alarm/	IP65 fittings NR45 Telephone	Computer		***************************************			Other
.2 .3 A .3 C .4 P .5 P	Acoustic Req'mts Communications Power sockets Panic Alarm/ Security	IP65 fittings NR45 Telephone Fuse spurs for ha	Computer and dryers .		TV 9	dcket		Other
3 A 3 C 4 P 5 P S	Acoustic Req'mts Communications Power sockets Panic Alarm/	IP65 fittings NR45 Telephone Fuse spurs for ha	Computer and dryers	Fax	Y	dcket		Other
3 A P P S S 6 O	Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other	IP65 fittings NR45 Telephone Fuse spurs for ha	Computer and dryers	Fax	TV see	ocket		Other
3 A A A A A A A A A A A A A A A A A A A	Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other	IP65 fittings NR45 Telephone Fuse spurs for ha Floor gullies in chai	Computer and dryers	Fax	TV s	cket		Other
3 A P P S S S D F H	Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other Sittings	IP65 fittings NR45 Telephone Fuse spurs for ha Floor gullies in char Water connections	Computer and dryers	Fax	TV's	cket		Other
3 A P P S S 6 O F H H	Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other Sittings IPL Duct panelling IPL shower cubicle	IP65 fittings NR45 Telephone Fuse spurs for ha Floor gullies in char Water connections	Computer and dryers	Fax	vers Spec	cket		Other
3 A P S S P S S H H H V	Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other Sittings IPL Duct panelling IPL shower cubicle (anity Unit	IP65 fittings NR45 Telephone Fuse spurs for ha Floor gullies in char Water connections	Computer and dryers	Fax	TV's	cket		Other
3 A P S S G O F H H H H W A A	Acoustic Req'mts Communications Cower sockets Canic Alarm/ Security Other Cittings IPL Duct panelling IPL shower cubicle anity Unit mbulent WC pack	IP65 fittings NR45 Telephone Fuse spurs for ha Floor gullies in char Water connections	Computer and dryers	Fax	vers Spec	cket		Other
.3 A A A A A A A A A A A A A A A A A A A	Acoustic Req'mts Communications Cower sockets Canic Alarm/ Security Other Cittings IPL Duct panelling IPL shower cubicle Canity Unit Mbulent WC pack and dryer	IP65 fittings NR45 Telephone Fuse spurs for ha Floor gullies in char Water connections	Computer and dryers	Fax	vers Spec	cket		Other
.3 A A A A A A A A A A A A A A A A A A A	Acoustic Req'mts Communications Cower sockets Canic Alarm/ Security Other Cittings IPL Duct panelling IPL shower cubicle anity Unit mbulent WC pack	IP65 fittings NR45 Telephone Fuse spurs for ha Floor gullies in char Water connections	Computer and dryers	Fax	vers Spec	cket		Other
3 6 0 F H H H D D	Acoustic Req'mts Communications Cower sockets Canic Alarm/ Security Other Cittings IPL Duct panelling IPL shower cubicle Canity Unit Mbulent WC pack and dryer	IP65 fittings NR45 Telephone Fuse spurs for ha Floor gullies in char Water connections	Computer and dryers	Fax	TV s sers Specification (K32 K32 N10	cket		Other
3 A P S S P S S A A A A A A A A A A A A A	Acoustic Req'mts Communications Cower sockets Canic Alarm/ Security Other Cittings IPL Duct panelling IPL shower cubicle can'ity Unit mbulent WC pack and dryer is. Shower pack	IP65 fittings NR45 Telephone Fuse spurs for ha Floor gullies in char Water connections	Computer and dryers	Fax	vers Spec	cket		Other

ect n Name n Number General Use Occupancy Dimensions	Female Cha A306	inging		D	ile Ref ate of origin: evel	Aug-10 First Floor (1)	
n Number General Use Occupancy	A306		· 			_	
General Use Occupancy		rea				_	
Use Occupancy	Changing/Wet A	rea		 T			
Occupancy	Changing/Wet Ai	rea		1		1 110(1 100) (1)	
Dimensions	1			-		· · · · · · · · · · · · · · · · · · ·	
	Area (m2)	47.4				<u> </u>	<u> </u>
Planning	 				<u> </u>		
Relationships	 	<u> </u>				<u> </u>	
Fire				:			
Building Florant					<u> </u>		
							
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			Tata (1 de pr			r	
		26may if applied	All Humidity	Ver	nt supply		Control
	220090 111111,	provided	Not controlled	hou hou	r changes per	10 air changes per hour	PIR control on fans and lighting
ighting	200 lux IP65 fittings		Control	-	 	itch	T and signing
coustic Reg'mts	NR45						
ommunications	Telephone	Computer	Fax	TV	socket	FM socket	Other
ower sockets	Fuse spurs for ha	and dryers	· .	No.		-	
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ttings					c Ref	<u>.</u>	· ·
							
^P L shower cubicles	3				1		
nity Unit							
nbulent WC pack							
and dryer							
s. Shower pack							
ckers				N10			
nching				N10			
FEAT COLOMBINE IN TO TO THE BEST WINDS	Floors Finish Valls Finish Valls Finish Valls Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finish Finis	inish Valls Plasterboard Part Full height tiling to Paint Lay in Mineral Tile Soors & Solid Timber Vene egree of rivacy Findows Plaster to Services Specific Invironment Winter Temp C 22degC min. Country Country Country Country Country Plaster Country Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster Country Plaster 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Refer to Services Specification Invironment Winter Temp C Summer Temp C 22degC min. 26max if cooling provided ghting Roustic Req'mts NR45 Dommunications Fuse spurs for hand dryers Inic Alarm/ curity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity Incurity 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Mineral Tile Solid Timber Veneered Non Slip Tiling Plasterboard Partitions Full height tiling to showers Paint Lay in Mineral Tile Solid Timber Veneered N/A Sock Type Regree of Rivacy Rindows Regree Specification Rivironment Winter Temp C Summer Temp C Air Humidity Regree Specification Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment Rivironment 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Valls Plasterboard Partitions Fire rated K1 Plasterboard Partitions Fire rated K2 Paint Lay in Mineral Tile Solid Timber Veneered Food's & Solid Timber Veneered N/A Partition N/A Partition N/A Paint Lay in Mineral Tile Solid Timber Veneered N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A Partition N/A 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Paint Lay in Mineral Tile K10 Solid Timber Veneered L20 Solid Timber Veneered L20 Indoors Refer to Services Specification Invironment Winter Temp C Summer Temp C Air Humidity Ven supply 22degC min. 26max if cooling provided Not controlled Not controlled Not controlled Not control and sw 1965 fittings Control PIR control and sw 200 lux 1965 fittings Control PIR control and sw 200 lux 1965 fittings Control PIR control and sw 200 lux 1965 fittings Control PIR control and sw 200 lux 1965 fittings Control PIR control and sw 200 lux 1965 fittings Control PIR control and sw 200 lux 1965 fittings Control PIR control and sw 200 lux 1965 fittings Control PIR control and sw 200 lux 1965 fittings Control PIR control and sw 200 lux 1965 fittings Control PIR control and sw 200 lux 1965 fittings Control PIR control and sw 200 lux 1965 fittings Control PIR control and sw 200 lux 200 lux 200 lux 200 lux 200 lux 200 lux 200 lux 200 lux 200 lux 200 lux 200 lux 200 lux 200 lux 200 lux 200 lux 200 lux 200 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Vall Plasterboard Partitions Fire rated Vall Plasterboard Partitions Fire rated Vall Plasterboard Partitions Fire rated Vall Vall Plasterboard Partitions Fire rated Vall Vall Vall Vall Vall Vall Vall Val

	iect	100					
Proj	ject om Name	120 Maga Bagw	-		File Ref	_	
		Mess Room			Date of origin	: Aug-10	•
	m Number	A305			Level	First Floor (1)	
1.0	General			· _			
1.1	Use	Mess room	·				
1.2	Occupancy	 			<u> </u>		
1.3	Dimensions	Area (m2)	55.4		· · · · · · · · · · · · · · · · · · ·		<u> </u>
	Planning	" " GG (1112)	00,4				
	Relationships	.					
1.5	Fire						-
	<u> </u>	<u> </u>	<u>_</u>				
	Building Element		<u> </u>		Spec Ref		
2.1	Floors	Floating Screed		. !	M10		
ŀ	Finish .	Carpet		i	M50		* 2
ا ي	ļ 	Vinyl to Kitchen A			M50		
- 1	Walls	Plasterboard Parti	tions	Fire rated	K10		·
ı	lFinish	Paint			M60	•	
i		3 tile splash back	to kitchen units	`:	M50		
┙		MDF Skirting			P20		
	Ceilings	Lay in Mineral Tile			K10	<u> </u>	
	Door/s &	Solid Timber Vene	ered	:	L20	•	
	Lock Type	•					
.5	Degree of			*			
	Privacy						
	Windows	N/A					
.7	Glazed Screen	Glazed side light 3	0/30 Fire resistance	, 1	L10		
0 :	Services - Refer to						
	Environment		ation	4			
- 1	THAILOUILIGHT	Winter Temp °C		Air Humidity	Vent sunnly	Vent Extract	Control
- 1	Filanolillicht	Winter Temp °C	Summer Temp °C		Vent supply	Vent Extract	Control
2	Lighting			Not controlle	d 10l/s person	As supply	Control Local Controls
2 1	<u> </u>	Winter Temp °C 21degC min. 150-300 lux,	Summer Temp °C 26deg C max		d 10l/s person		
	<u> </u>	Winter Temp °C 21degC min. 150-300 lux, Lighting scheme to	Summer Temp °C 26deg C max	Not controlle	d 10l/s person	As supply	
3 /	Lighting Acoustic Req'mts	Winter Temp °C 21degC min. 150-300 lux, Lighting scheme to NR40	Summer Temp °C 26deg C max create enhanced	Not controlle	d 10l/s person	As supply	
3 /	Lighting	Winter Temp °C 21degC min. 150-300 lux, Lighting scheme to NR40	Summer Temp °C 26deg C max create enhanced	Not controlle	d 10l/s person	As supply	
3 (Lighting Acoustic Req'mts Communications	Winter Temp °C 21degC min. 150-300 lux, Lighting scheme to NR40 Telephone Yes	Summer Temp °C 26deg C max create enhanced Computer	Not controlle Control	d 10l/s person Manual switchin TV socket Yes	As supply g and time clock FM socket Yes	Local Controls
3 /	Lighting Acoustic Req'mts Communications	Winter Temp °C 21degC min. 150-300 lux, Lighting scheme to NR40 Telephone Yes	Summer Temp °C 26deg C max create enhanced Computer	Not controlle Control	d 10l/s person Manual switchin TV socket	As supply g and time clock FM socket Yes	Local Controls
3 <i>(</i> 4 F	Lighting Acoustic Req'mts Communications Power sockets	Winter Temp °C 21degC min. 150-300 lux, Lighting scheme to NR40 Telephone Yes Electrical supplies	Summer Temp °C 26deg C max create enhanced Computer	Not controlle Control	d 10l/s person Manual switchin TV socket Yes	As supply g and time clock FM socket Yes	Local Controls
3 /4 F	Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/	Winter Temp °C 21degC min. 150-300 lux, Lighting scheme to NR40 Telephone Yes	Summer Temp °C 26deg C max create enhanced Computer	Not controlle Control	d 10l/s person Manual switchin TV socket Yes	As supply g and time clock FM socket Yes	Local Controls
3 A 3 G 4 F 5 F	Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/ Security	Winter Temp °C 21degC min. 150-300 lux, Lighting scheme to NR40 Telephone Yes Electrical supplies	Summer Temp °C 26deg C max create enhanced Computer to Fridge. Dishwash window contactors.	Not controlle Control	d 10l/s person Manual switchin TV socket Yes	As supply g and time clock FM socket Yes	Local Controls
3 A 3 G 4 F 5 F	Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other	Winter Temp °C 21degC min. 150-300 lux, Lighting scheme to NR40 Telephone Yes Electrical supplies of PIR detectors and winders.	Summer Temp °C 26deg C max create enhanced Computer to Fridge. Dishwash window contactors. m3/hr/m2 @50pa.	Pax Fax er, Microwave	d 10l/s person Manual switchin TV socket Yes	As supply g and time clock FM socket Yes	Local Controls
3 / 4 F S S S C	Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other	Winter Temp °C 21degC min. 150-300 lux, Lighting scheme to NR40 Telephone Yes Electrical supplies of PIR detectors and winders.	Summer Temp °C 26deg C max create enhanced Computer to Fridge. Dishwash window contactors.	Pax Fax er, Microwave	d 10l/s person Manual switchin TV socket Yes Oven, Hob, Hot Wate	As supply g and time clock FM socket Yes	Local Controls
3 /4 F S S S C C S S C C S S C C S S C C S S C C S S C C S S C C S S C C S S C C S S C C S S C C S S C C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S	Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other	Winter Temp °C 21degC min. 150-300 lux, Lighting scheme to NR40 Telephone Yes Electrical supplies of PIR detectors and winders.	Summer Temp °C 26deg C max create enhanced Computer to Fridge. Dishwash window contactors. m3/hr/m2 @50pa.	Pax Fax er, Microwave	d 10l/s person Manual switchin TV socket Yes Oven, Hob, Hot Wate	As supply g and time clock FM socket Yes	Local Controls
3 A F F S S S S S S S S S S S S S S S S S	Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other Fittings nternal Blinds	Winter Temp °C 21degC min. 150-300 lux, Lighting scheme to NR40 Telephone Yes Electrical supplies PIR detectors and of Air Leakage Rate 5 Sink with hot and co	Summer Temp °C 26deg C max create enhanced Computer to Fridge. Dishwash window contactors. m3/hr/m2 @50pa.	Pax Fax er, Microwave	d 10l/s person Manual switchin TV socket Yes Oven, Hob, Hot Wate	As supply g and time clock FM socket Yes r Boiler.	Local Controls
3 A F S S S S S S S S S S S S S S S S S S	Lighting Acoustic Req'mts Communications Power sockets Panic Alarm/ Security Other	Winter Temp °C 21degC min. 150-300 lux, Lighting scheme to NR40 Telephone Yes Electrical supplies PIR detectors and v Air Leakage Rate 5 Sink with hot and co	Summer Temp °C 26deg C max create enhanced Computer to Fridge. Dishwash window contactors. m3/hr/m2 @50pa.	Pax Fax er, Microwave	d 10l/s person Manual switchin TV socket Yes Oven, Hob, Hot Wate	As supply g and time clock FM socket Yes r Boiler.	Local Controls

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	om Name	Office	4		- !	File Ref		
	om Number				- :	Date of orig	in: Aug-10	
_		A304	<u></u> .	<u> </u>	Щ	Level	First Floor (1)	
1.0	General Use	Office	<u> </u>	-				
1,1	USE	Office					•	
1.2	Occupancy	 -					·	
1.2	Occupancy	1						
1.3	Dimensions	Area (m2)	18,1		-			<u> </u>
		raca (mz)	10,1		!			
			-					
1.4	Planning	T	-		Ħ		<u> </u>	 .
	Relationships	1.			:			
1.5	Fire				1			
2.0	Building Element					Spec Ref	-	
	Floors	Floating Screed	-			M10		 -
	Walls	Plasterboard Parti				K10		
2.3	Ceilings	Lay in Mineral Tile				K10		
2.4	Door/s &	Solid Timber Vene	Solid Timber Veneered with glazed side light			L20/L10		
1 E	Lock Type							
2.5	Degree of						•	
.6	Privacy Windows	N/A						
	Glazed Screen	See door Schedule		•				_
		Services Specific			11	<u></u>		<u> </u>
	Environment	Winter Temp °C	Summer Temp °C	Air Hum	112.	IVtt		1
ĺ	FCU= Fan Coil Units	FCU - 20degC	FCU 22+/-2degC			Vent supply	Vent Extract	Control
	or VRF	min	24max	CHB 459			on. Average of 15-16i/s Handling Unit to take	BMS Control. Local Room
	CHB=Active Chilled	CHB - 22degC	CHB 24+/-2degC	Min 35%	1	account of me		Controllers
	Beams	min	26max				of supply, with remainder	Contioners
.2	Lighting	Average Daylight F	actor 5% (min 0.5)	Control			cy Control Gear	'
		300-500lux (minima	ım 200lux).				d control to office perime	eter zones
.3	Acoustic Req'mts	NR 38 - measured		nd no carr	et fitted	1		20103,
_	<u> </u>			Ì		-	•	
.3	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other
			Min 2 data	For Secr	etaries			- 11121
-1			sockets per				<u> </u>	
.4	Power sockets	Small Power Load	25W/m2 (+ 5W/m2 i	n hot spo	ts). 4 sc	ockets per person	. Additional sockets at p	rinter/photocopier
5	Danie Alexani	points.	·					
- 1	Panic Alarm/ Security	PIR detectors and v	vindow contactors.					
_	Other	Average Office Oce	Imanau Danaitii. 4		<u> </u>			<u>.</u>
Υľ	Other	Average Office Occ Air Leakage Rate 5	upancy Density: 1]	person 10	ımz. ∙M	eeting Rooms 1 p	erson 2.5m2	
		Ambient Design C						
		winnieur nealây e						
		Summer Dry Rulh 2	9dea€					
		Summer Dry Bulb 2 Summer Wet Bulb 2						
	٠ ;	Summer Wet Bulb 2	ldegC					
		Summer Wet Bulb 2 Winter Dry Bulb -46	l1degC legC					
)))		Summer Wet Bulb 2	l1degC legC			Spec Ref		

_	OUN DATA	 _			<u>ii </u>			
	ject	12	04			File Ref		
	om Name	Office				Date of origin	: Aug-10	
_	om Number	A303		<u>.</u>		Level	First Floor (1)	
1.0	General	T						
1.1	Use	Office	•					
1.2	Occupancy	-						
12	Di-			: 		<u> </u>		
1.3	Dimensions	Area (m2)	15			·		
			×					
1.4	Planning	 			<u> </u>			
	Relationships	1						
.5	Fire	 	<u> </u>		<u> </u>			·
.0	Building Element				 	Spec Ref		
.1	Floors	Floating Screed			 	M10		
.2	Walls	Plasterboard Part				K10		
.3	Ceilings	Lay in Mineral Tile	₹			K10		
4	Door/s &	Solid Timber Vene	eered with glazed si	de light		L20/L10	•	
	Lock Type	1						
5	Degree of	 		<u> </u>	<u> </u>		· .	
•	Privacy		•				_	
6	Windows	N/A			 - -		<u>·</u>	
		""	-					
7	Glazed Screen	See door Schedule	e		 			
			<u> </u>					
0	Services - Refer to	Services Specific	ation					
1	Environment	Winter Temp °C	Summer Temp °C			Vent supply	Vent Extract	Control
	FCU= Fan Coil Units	FCU - 20degC	FCU 22+/-2degC			10l/s per person.	Average of 15-16l/s	BMS Control.
- 1	or VRF	min	24max	CHB 45%	+/-10	person at Air Har	ndling Unit to take	Local Room
	CHB=Active Chilled Beams	CHB - 22degC	CHB 24+/-2degC	Min 35%		account of meeting	ng rooms.	Controllers
4		min	26max actor 5% (min 0.5)	- In the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of		Extract 80% of su	upply, with remainder	
<u>ר</u>	Lighting	TAVerage Daviight F	-actor 5% (min 0.5)	Control	11 :			
		300.500luv (minim	actor 570 (min 0.5)	00111101		High Frequency		
1	Acquetic Pegimte	300-500lux (minim	um 200lux).	-			Control Gear ontrol to office perime	ter zones.
1	Acoustic Regimts	300-500lux (minimi NR 38 - measured	um 200lux).	-	t fitted			ter zones.
┙	· .	300-500lux (minimi NR 38 - measured	um 200lux). with office empty ar	nd no carpe	et fitted	Daylight linked co	ontrol to office perime	
┙	· .	300-500lux (minim	um 200lux). with office empty ar Computer	nd no carpe				ter zones.
	· .	300-500lux (minimi NR 38 - measured Telephone Yes	um 200lux). with office empty ar Computer Min 2 data sockets per	nd no carpe Fax For Secret	taries	Daylight linked co	ontrol to office perime	Other
	· .	300-500lux (minimi NR 38 - measured Telephone Yes	um 200lux). with office empty ar Computer Min 2 data sockets per	nd no carpe Fax For Secret	taries	Daylight linked co	ontrol to office perime	Other
3 4	Communications Power sockets	300-500lux (minimi NR 38 - measured Telephone Yes Small Power Load 2 points.	um 200lux). with office empty ar Computer Min 2 data sockets per 25W/m2 (+5W/m2 i	nd no carpe Fax For Secret	taries	Daylight linked co	ontrol to office perime	Other
- F	Communications Power sockets Panic Alarm/	300-500lux (minimi NR 38 - measured Telephone Yes	um 200lux). with office empty ar Computer Min 2 data sockets per 25W/m2 (+5W/m2 i	nd no carpe Fax For Secret	taries	Daylight linked co	ontrol to office perime	Other
F	Communications Power sockets Panic Alarm/ Security	300-500lux (minimi NR 38 - measured Telephone Yes Small Power Load 2 points.	um 200lux). with office empty ar Computer Min 2 data sockets per 25W/m2 (+5W/m2 i	Fax For Secret	taries	Daylight linked co	ontrol to office perime FM socket Iditional sockets at pr	Other
F	Communications Power sockets Panic Alarm/ Security Other	300-500lux (minimin NR 38 - measured Telephone Yes Small Power Load 2 points. PIR detectors and vivial Average Office Occ	um 200lux). with office empty ar Computer Min 2 data sockets per 25W/m2 (+5W/m2 i	Fax For Secret	taries	Daylight linked co	ontrol to office perime FM socket Iditional sockets at pr	Other
F	Communications Power sockets Panic Alarm/ Security Other	300-500lux (minimi NR 38 - measured Telephone Yes Small Power Load 2 points. PIR detectors and v Average Office Occ Air Leakage Rate 5	um 200lux). with office empty ar Computer Min 2 data sockets per 25W/m2 (+5W/m2 i window contactors. supancy Density: 1 i m3/hr/m2 @50pa.	Fax For Secret	taries	Daylight linked co	ontrol to office perime FM socket Iditional sockets at pr	Other
F	Communications Power sockets Panic Alarm/ Security Other	300-500lux (minimin NR 38 - measured Telephone Yes Small Power Load : points. PIR detectors and v Average Office Occ Air Leakage Rate 5i Ambient Design Co	um 200lux). with office empty ar Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 i window contactors. cupancy Density: 1 i m3/hr/m2 @50pa. onditions:	Fax For Secret	taries	Daylight linked co	ontrol to office perime FM socket Iditional sockets at pr	Other
F	Communications Power sockets Panic Alarm/ Security Other	300-500lux (minimin NR 38 - measured Telephone Yes Small Power Load 2 points. PIR detectors and vice Average Office Occ Air Leakage Rate 5: Ambient Design County Bulb 2	um 200lux). with office empty ar Computer Min 2 data sockets per 25W/m2 (+ 5W/m2 i window contactors. cupancy Density: 1 i m3/hr/m2 @50pa. onditions: 9degC	Fax For Secret	taries	Daylight linked co	ontrol to office perime FM socket Iditional sockets at pr	Other
F	Communications Power sockets Panic Alarm/ Security Other	300-500lux (minimi NR 38 - measured Telephone Yes Small Power Load 2 points. PIR detectors and value and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the secon	um 200lux). with office empty ar Computer Min 2 data sockets per 25W/m2 (+5W/m2 i window contactors. supancy Density: 1 i m3/hr/m2 @50pa. onditions: 9degC 21degC	Fax For Secret	taries	Daylight linked co	ontrol to office perime FM socket Iditional sockets at pr	Other
F	Communications Power sockets Panic Alarm/ Security Other	300-500lux (minimi NR 38 - measured Telephone Yes Small Power Load 2 points. PIR detectors and value Average Office Occ Air Leakage Rate 50 Ambient Design Columner Dry Bulb 2 Summer Wet Bulb 2 Winter Dry Bulb 400 Winter Dry Bulb 400 Ambient Design Columner Wet Bulb 2 Winter Dry Bulb 400 Ambient Dry Bulb 400 Winter Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bu	um 200lux). with office empty ar Computer Min 2 data sockets per 25W/m2 (+5W/m2 i window contactors. supancy Density: 1 i m3/hr/m2 @50pa. onditions: 19degC 21degC degC	Fax For Secret	taries	Daylight linked co	ontrol to office perime FM socket Iditional sockets at pr	Other
F	Communications Power sockets Panic Alarm/ Security Other	300-500lux (minimi NR 38 - measured Telephone Yes Small Power Load 2 points. PIR detectors and value and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the secon	um 200lux). with office empty ar Computer Min 2 data sockets per 25W/m2 (+5W/m2 i window contactors. supancy Density: 1 i m3/hr/m2 @50pa. onditions: 19degC 21degC degC	Fax For Secret	taries	Daylight linked co	ontrol to office perime FM socket Iditional sockets at pr	Other
F	Communications Power sockets Panic Alarm/ Security Other	300-500lux (minimi NR 38 - measured Telephone Yes Small Power Load 2 points. PIR detectors and value Average Office Occ Air Leakage Rate 50 Ambient Design Columner Dry Bulb 2 Summer Wet Bulb 2 Winter Dry Bulb 400 Winter Dry Bulb 400 Ambient Design Columner Wet Bulb 2 Winter Dry Bulb 400 Ambient Dry Bulb 400 Winter Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bulb 400 Ambient Dry Bu	um 200lux). with office empty ar Computer Min 2 data sockets per 25W/m2 (+5W/m2 i window contactors. supancy Density: 1 i m3/hr/m2 @50pa. onditions: 19degC 21degC degC	Fax For Secret	taries	Daylight linked co	ontrol to office perime FM socket Iditional sockets at pr	Other

Рго	ject	120)4		 	File Ref		
Roc	om Name	Office				Date of origin	. Au- 40	
Roo	m Number	A302				_	•	
1.0	General	- 1002			₩	Level	First Floor (1)	
1.1	Use	Office		<u> </u>	<u> </u>	<u> </u>		
1.2	Occupancy			 .		<u> </u>		
1.3	Dimensions	Area (m2)	15	-				
	·					•		
1.4	Planning				_		 -	
1.5	Relationships	 						
1.5	Fire							
2.0	Building Element	S				Spec Ref		
	Floors	Floating Screed	<u> </u>			M10		
	Walls	Plasterboard Parti	tions			K10		
	Ceifings	Lay in Mineral Tile				K10		
.4	Door/s &	Solid Timber Vene	ered with glazed si	de light		L20/L10		
	Lock Type	1	Ť	0		220/210		
.5	Degree of			•	i			
- 1	Privacy	1	•			•		
6	Windows	N/A			 			
- 1	Glazed Screen	See door Schedule				•		•
		Services Specific		 -	 			
1	Environment			A in 1 location	<u> </u>	for a second		
- 1		FCU - 20degC	Summer Temp °C FCU 22+/-2degC			Vent supply	Vent Extract	Control
ľ	FCU= Fan Coil Units or VRF	min	24max			10l/s per person	. Average of 15-16l/s	BMS Control.
	CHB=Active Chilled	CHB - 22degC		CHB 45%	+/-10	person at Air Ha	Indling Unit to take	Local Room
- 1	Beams	min	26max	Min 35%		account of meet	ing rooms.	Controllers
2 1	inhti	L i			<u> </u>	Extract 80% of s	upply, with remainder	
ן ב	Lighting	Average Daylight F 300-500lux (minimu	actor 5% (min 0.5) ım 2001(12)	Control		High Frequency	Control Gear	
3 /	Acoustic Req'mts	NR 38 - measured		d no carpe	t fitted	Daylight linked o	ontrol to office perime	er zones.
3 0	Communications	Telephone	Computer	<u> </u>			<u> </u>	
				Fax	l I.	TV socket	FM socket	Other
-	•			For Secre	aries			
I F	ower sockets		sockets per		<u> </u>	·		
۱,	OMEI SUCKEIS	oniali Power Load 2	:>w/m2 (+5W/m2 i	n hot spots). 4 soc	kets per person. A	dditional sockets at pr	inter/photocopier
 -		points.			<u> </u>		<u> </u>	•
		PIR detectors and w	indow contactors.					
_	ecurity							
O	Other	Average Office Occi	pancy Density: 1	erson 10n	2. Mee	eting Rooms 1 per	son 2.5m2	
		Air Leakage Rate 5r	n3/hr/m2 @50pa.	***************************************		- 1	•	
1.		Ambient Design Co						
		Summer Dry Bulb 29			'			
.		Summer Wet Bulb 2			•			
1		Winter Dry Bulb -4d						•
		Winter Wet Bulb -4de		20.00				
Fi		FERROR FYST DUID -401	-go		 - - - - - - - - - 	Spec Ref	· .	
			Fittings					
BI	เทศร					N10		

ject m Name	12 Corridor	U4			File Ref		
	Corridor						
					Date of origin:	Aug-10	
m Number	A216			1	Level	Ground Floor	(0)
General	Lean III		· .	Ш			
Use	Lift Lobby					<u></u>	
000000000000000000000000000000000000000				Щ			
Occupancy					•		-
Dimensions	Araa (m2)	62.7		4			
	Alea (IIIZ)	03.7					
					•	•	
Planning	 						
Relationships	' '						
Fire				$^{+}$	· · · · · · · · · · · · · · · · · · ·		
				Π	Spec Ref		
Floors	Floating Screed		-		M10	·- · · · ·	
	Ī			11			÷
	1						
ı						•	
:				:			•
	<u> </u>					· .	
Walts					K10		
•							
	Plasterbord Wall I	Lining			K10		
Ceilings	l av in Minoral Ta		_	4			<u> </u>
90	Lay in Willieral Tile	;			K10		
	1						
Door/s &	Solid Timber Vene	eered		+	1.20	-	
Lock Type		· · - -		-	LZU		
							• *
Degree of				Ħ		- <u>-</u>	
Privacy	<u></u>						
Windows	N/A	<u></u> -		1	<u> </u>		
					·		
Blazed Screen	N/A						
Parisina - Paris	0-1-1-						
ervices - Refer to							
							Control .
				0			none
1	of light along comin	or to light faces	COULTO			ontrol Gear	
		to again added		-	THIS COURS		-
lequirements			Ē		-	•	
	Telephone	Computer	Fax		TV socket	EM poolest	Other
	<u>. </u>				1 & DOUNGE	1 IN SOCKEL	Other
ower sockets	Cleaners socket			\parallel			
	Intruder detection						
			<u> </u>		· •		•
ther							
	Relationships Fire Building Element Floors Walts Ceilings Door/s & Cock Type Degree of Privacy Vindows Glazed Screen Services - Refer to invironment ighting coustic Req'mts equirements ommunications ower sockets	Dimensions Area (m2) Planning Relationships Fire Building Elements Floors Floating Screed Walls Plasterboard Part 140mm Blockword Plasterbord Wall I Ceilings Lay in Mineral Title Ceilings Solid Timber Vene Lock Type Degree of Privacy Vindows N/A Glazed Screen N/A Gervices - Refer to Services Specific Invironment Winter Temp °C 20degC Ighting 100 Lux at floor lev of light along corrid coustic Req'mts equirements ommunications Telephone ower sockets Cleaners socket anic Alarm/ ecurity	Dimensions Area (m2) 63.7 Planning Relationships Fire Building Elements Floors Floating Screed Walls Plasterboard Partitions 140mm Blockwork Plasterbord Wall Lining Ceilings Lay in Mineral Tile Door/s & Solid Timber Veneered Oegree of Privacy Vindows N/A Slazed Screen N/A Services - Refer to Services Specification Invironment Winter Temp °C Summer Temp °C 20degC not controlled ighting 100 Lux at floor level with good flow of light along corridor to light faces coustic Req'mts equirements ommunications Telephone Computer ower sockets Cleaners socket anic Alarm/ ecurity	Dimensions Area (m2) 63.7 Planning Relationships Fire Building Elements Floors Floating Screed Walls Plasterboard Partitions 140mm Blockwork Plasterbord Wall Lining Ceilings Lay in Mineral Tile Door/s & Solid Timber Veneered Degree of Privacy Vindows N/A Blazed Screen N/A Services - Refer to Services Specification Invironment Winter Temp °C Summer Temp °C Air Humidify 20degC not controlled not controlle ighting 100 Lux at floor level with good flow of light along corridor to light faces coustic Req'mts equirements ommunications Telephone Computer Fax Dower sockets Cleaners socket Intruder detection ecurity	Dimensions Area (m2) 63.7 Planning Relationships Fire Building Elements Floors Floating Screed Walls Plasterboard Partitions 140mm Blockwork Plasterbord Wall Lining Ceilings Lay in Mineral Tile Door/s & Solid Timber Veneered Degree of Privacy Vindows N/A Slazed Screen N/A Services - Refer to Services Specification Invironment Winter Temp °C Summer Temp °C Air Humidity 20degC not controlled not controlled ighting 100 Lux at floor level with good flow of light along corridor to light faces coustic Req'mts equirements ommunications Telephone Computer Fax ower sockets Cleaners socket Intruder detection ecurity	Dimensions Area (m2) 63.7 Planning Relationships Fire Building Elements Floors Floating Screed M10 Walls Plasterboard Partitions 140mm Blockwork Plasterbord Wall Lining K10 Ceilings Lay in Mineral Tile K10 Ceilings Lay in Mineral Tile K10 Doorfs & Solid Timber Veneered L20 Degree of Privacy Windows N/A Slazed Screen N/A Services - Refer to Services Specification Invironment Winter Temp °C Summer Temp °C Air Humidity Polymore Solid Timber Veneered Countrol High Frequency C Time controlled ightling 100 Lux at floor level with good flow of light along corridor to light faces coustic Req mts equirements communications Telephone Computer Fax TV socket TV socket Time control Control Intruder detection Intruder detection	Dimensions Area (m2) 63.7 Planning Relationships Fire Building Elements Floors Floating Screed M10 Walls Plasterboard Partitions 140mm Blockwork Plasterbord Wall Lining Ceilings Lay in Mineral Tile K10 Doorfs & Solid Timber Veneered Lock Type Degree of Privacy Windows N/A Salazed Screen N/A Services - Refer to Services Specification Invironment Winter Temp *C Summer Temp *C Air Humidity 20deg C not controlled not controlled not controlled indiction for controlled not controlled of lighting 100 Lux at floor level with good flow of light along comidor to light faces coustic Req'mts equirements ommunications Telephone Computer Fax TV socket FM socket ower sockets Intruder detection

	oject	120	04 ·		File Ref			
	om Name	North Stair	•		Date of origin	: Aug-10		
_	om Number	A214	<u> </u>		Level	Ground Floor	(0)	
1.0						 	<u> </u>	
1.1	Use	Lift Lobby		: 1		<u> </u>		
1.2	Occupancy	 	_					
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
1.3	Dimensions	Area (m2)			- · · · · · · · · · · · · · · · · · · ·			
			4	:				
1.4	Planning							
'-	Relationships	1 .						
1.5					<u> </u>	-		
	<u> </u>	_		:				
2.0					Spec Ref			
2.1	Floors	Floating Screed	· · · · · · · · · · · · · · · · · · ·	. !	M10			
	1			i				
	ł				•			
	1							
1	,	1			•			
2.2	Walls	Plasterboard Part	itions		K10			
		140mm Blockwort			F10			
		Plasterbord Wall I	_ining	:	K10			
_				. :				
2.3	Ceilings	Lay in Mineral Tile)		K10			
				:				
2.4	Door/s &	Solid Timber Vene	ered		L20		· ·	
	Lock Type				L20			
	<u></u>		<u> </u>					
2.5	Degree of							
2.6	Privacy Windows	N/A	<u> </u>			<u> </u>		
2.0	windows	N/A						
2.7	Glazed Screen	N/A .					·	
	00.00			:				
3.0	Services - Refer to	Services Specific	ation			<u> </u>		
3.1	Environment	Winter Temp °C	Summer Temp °C	Air Humidity	Vent supply	Vent Extract	Control	
		18degC	not controlled	not controlled	not controlled	not controlled	none	\neg
3.2	Lighting	150 lux on all tread	İs	Control	High Frequency (Control Gear		
3.3	Acoustic Regimts				Manual switching			
	Requirements	!		1				
3.3	Còmmunications	Telephone	Computer	Fax	TV socket	FM socket	Other	
_					i v sounet	I IN SOCKEL	Omer	
3.4	Power sockets	Cleaners socket						
3.5	Panic Alarm/					<u> </u>		
	Panic Alarm/ Security							
$\overline{}$		Pressurised - depe	ndent on fire strates	ıv	<u>: </u>			
			on mo strateg	''				ļ
_	Fittings				Spec Ref			\dashv
Į.	Painted 40mm dia h	andrails		-	L30	_	-	\dashv

	JOWI DATA			<u>_</u>			
Proj			04		File Ref		
Roo	m Name	Lift Lobby		. []	Date of orig	in: Aug-10	-
Roo	m Number	A213		· II	Level	•	(0)
1.0	General				revei	Ground Floor	(0)
	Use	Lift Lobby	 :		<u> </u>		
					•		
1.2	Occupancy	 	 -			<u> </u>	<u>.</u>
	,						
1.3	Dimensions	Area (m2)	15.9				
		(1112)	1010				
ì		ļ	•				
1.4	Planning	 				_	 _
	Relationships			.			
	Fire						
	•	1		.			
2.0	Building Element	te .				·	
	Floors	Floating Screed	-		Spec Ref		
		Troubing objects		!]	M10	•	
- [
-					-		
-							
ı			-		-		
-	Walls	ļ					
	vvaiis	Plasterboard Part			K10		
		140mm Blockwor		11	F10		
-		Plasterbord Wall	Lining	İ	K10		
_							
2.3	Ceilings	Lay in Mineral Tile	э .		K10		
		,					
_				<u> </u>			•
- 1	Door/s &	Solid Timber Vend	eered		L20		
ľ	Lock Type						
_							
	Degree of	1					
	Privacy						
.6 V	Nindows	N/A					
` [IN/A		11			
-		IN/A					-
7 0	Glazed Screen						
0 S	Services - Refer to	Services Specific	ation				
0 S		Services Specific	Summer Temp °C	Air Humiditý	Vent supply	Vent Extract	Control
0 S	Services - Refer to Environment	Services Specific Winter Temp °C 20degC		Air Humidity	Vent supply	Vent Extract	Control
0 S	Services - Refer to	Services Specific Winter Temp °C 20degC 200 lux	Summer Temp °C		not controlled	not controlled	Control none
0 S	Services - Refer to Environment	Services Specific Winter Temp °C 20degC 200 lux Lighting to the lift	Summer Temp °C	not controlled		not controlled y Control Gear	
0 S	Services - Refer to Environment	Services Specific Winter Temp °C 20degC 200 lux Lighting to the lift controls and	Summer Temp °C	not controlled	not controlled High Frequence	not controlled y Control Gear	
0 S	Services - Refer to Environment	Services Specific Winter Temp °C 20degC 200 lux Lighting to the lift	Summer Temp °C	not controlled	not controlled High Frequence	not controlled y Control Gear	
0 S 1 E 2 L	Services - Refer to Environment Lighting	Services Specific Winter Temp °C 20degC 200 lux Lighting to the lift controls and	Summer Temp °C	not controlled	not controlled High Frequence	not controlled y Control Gear	
0 S 1 E 2 L	Services - Refer to Environment Lighting Lighting Lighting Lighting	Services Specific Winter Temp °C 20degC 200 lux Lighting to the lift controls and	Summer Temp °C	not controlled	not controlled High Frequence	not controlled y Control Gear	
0 S 1 E 2 L	Services - Refer to Environment Lighting	Services Specific Winter Temp °C 20degC 200 lux Lighting to the lift controls and	Summer Temp °C not controlled	not controlléd Control	not controlled High Frequency Manual switchin	not controlled y Control Gear ng	none
0 S 11 E 2 L	Services - Refer to Environment Lighting Coustic Req'mts Requirements Communications	Services Specific Winter Temp °C 20degC 200 lux Lighting to the lift controls and doorways	Summer Temp °C not controlled	not controlled	not controlled High Frequence	not controlled y Control Gear	
0 S 11 E 2 L	Services - Refer to Environment Lighting Coustic Req'mts Requirements Communications	Services Specific Winter Temp °C 20degC 200 lux Lighting to the lift controls and doorways	Summer Temp °C not controlled	not controlléd Control	not controlled High Frequency Manual switchin	not controlled y Control Gear ng	none
0 S 1 E 2 L	Services - Refer to Environment Lighting Coustic Req'mts Requirements Communications	Services Specific Winter Temp °C 20degC 200 lux Lighting to the lift controls and doorways	Summer Temp °C not controlled	not controlléd Control	not controlled High Frequency Manual switchin	not controlled y Control Gear ng	none
0 S 1 E 2 L	Services - Refer to Environment Lighting Coustic Req'mts Requirements Communications	Services Specific Winter Temp °C 20degC 200 lux Lighting to the lift controls and doorways	Summer Temp °C not controlled	not controlléd Control	not controlled High Frequency Manual switchin	not controlled y Control Gear ng	none
0 S 1 E 2 L 3 A R 6 P 6 P 6 P	Services - Refer to Invironment Lighting Icoustic Req'mts Requirements Communications	Services Specific Winter Temp °C 20degC 200 lux Lighting to the lift controls and doorways	Summer Temp °C not controlled	not controlléd Control	not controlled High Frequency Manual switchin	not controlled y Control Gear ng	none
0 S 1 E 2 L 3 A R 8 C	Services - Refer to Environment Lighting Acoustic Req'mts Requirements Communications Ower sockets	Services Specific Winter Temp °C 20degC 200 lux Lighting to the lift controls and doorways Telephone Cleaners socket	Summer Temp °C not controlled	not controlled Control	not controlled High Frequency Manual switchin	not controlled y Control Gear ng	none

Pro	ject	120	4	<u>-</u>	 	File Ref		
Ro	om Name	Office				Date of origin:	Aug 10	
Ro	om Number	A212					Ÿ.	
1.0	···	- FAIZ			<u> </u>	Level	Ground Floor (0)	<u> </u>
1.1		Office			1			
1	036	Onice					,	
1.2	Occupancy	 			+ -		•	
1	,							•
1.3	Dimensions	Area (m2)	24.7		 - -			
		, (,						
	ľ							
1.4	Planning			<u> </u>	 			
	Relationships							
1.5	Fire							
	<u> </u>							
2.0	Building Element			_ 1		Spec Ref		
2.1	Floors	Floating Screed	-			M10	•	
2.2	Walls	Plasterboard Partit	tions			K10		
2.3	Ceilings	Lay in Mineral Tile				K10		,
2.4	Door/s &	Solid Timber Vene	ered with glazed sid	de light		L20/L10		
2 5	Lock Type							•
2.5	Degree of			1 1				
2.6	Privacy Windows	N/A			<u> </u>	<u> </u>		<u></u>
2.7	Glazed Screen							· ·
3.0		See door Schedule Services Specification			-	·		
	Environment		Summer Temp °C	Air I Ii	112	lu.	<u> </u>	
		FCU - 20degC	FCU 22+/-2degC			Vent supply	Vent Extract	Control
	FCU= Fan Coil Units or VRF	min	24max	CHB 45%		nerson at Air Har	Average of 15-16l/s adling Unit to take	
	CHB=Active Chilled	CHB - 22degC	CHB 24+/-2degC	Min 35%	10	account of meeting		Local Room Controllers
	Beams	min	26max	, vo			ipply, with remainder	
3.2	Lighting	Average Daylight F	actor 5% (min 0.5)	Control	 	High Frequency (
		300-500lux (minimu					entrol to office perime	eter zones
3.3	Acoustic Req'mts	NR 38 - measured	with office empty ar	nd no carpe	tfitted			
				BATTAN CO.				
3.3	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other
			Min 2 data	For Secre	taries			·
2.4			sockets per		<u> </u>			
3.4	Power sockets	Small Power Load 2	25W/m2 (+5W/m2	in hot spots	s). 4 soci	kets per person. Ad	ditional sockets at p	rinter/photocopier
3.5	Panic Alarm/	points.		-	1		<u> </u>	
	Security	PIR detectors and v	vindow contactors.	an over the				
_	Other	Average Office Oce	unanni Danii 4		.0.14		·	
۷.۰	Ottlei	Average Office Occ Air Leakage Rate 5	m2/br/m2 @50nn	person Tur	nz. Mee	ting Rooms 1 pers	on 2.5m2	
		Ambient Design Co						
		Summer Dry Bulb 2						İ
		Summer Wet Bulb 2		1.7				
		Winter Dry Bulb -4d	•	a waren	1	•		
		Winter Wet Bulb -4d	•	comments.		•		
1.0		70	-3*	1	+	Spec Ref		,
	Blinds	-		1		N10		
•		•			İ	1110		

_	JON DATA				Ĺ			
	ject	120			-	File Ref		
Ro	om Name	Office			i	Date of origin:	Aug-10	
Ro	om Number	A211				Level	Ground Floor (0)	
1.0	General				Ť			_
1:1	Use	Office			-			-
	1				-		4	
1.2	Occupancy				İ	•		
					. :			
1.3	Dimensions	Area (m2)	24.3		i			
1.4	Planning	` '			1			
L	Relationships				1			
1.5	Fire				÷			
					-			
2.0	Building Element	S	-		Τ	Spec Ref		
2.1	Floors	Floating Screed			-	M10	<u> </u>	<u> </u>
2.2	Walls	Plasterboard Part	itions		:	K10		
2.3	Ceilings	Lay in Mineral Tile)		:	K10		
		1			:	1110		
	<u>L</u> :		• •		:			
2.4	Door/s &	Solid Timber Vene	ered with glazed si	de light	Ť	L20/L10		
	Lock Type		•	J				
	<u> </u>				1		•	•
2.5	Degree of				Ť		· · · · · · · · · · · · · · · · · · ·	
	Privacy							
2.6	Windows	N/A			Ť		-	
			•					
2.7	Glazed Screen	See door Schedul	e		+			_
3.0	Services - Refer to	Services Specific	ation		I			
3.1	Environment	Winter Temp °C	Summer Temp °C	Air Humidity		Vent supply	Vent Extract	Control
	FCU= Fan Coil Units	FCU - 20degC	FCU 22+/-2degC	FCU 55% +	-11			BMS Control.
	or VRF	min	24max	CHB 45% +	<u>(</u> -11	person at Air Hand		Local Room
٠	CHB=Active Chilled	CHB - 22degC	CHB 24+/-2degC	Min 35%		account of meeting		Controllers
	Beams	min	26max			Extract 80% of sup	ply, with remainder	ļ
3.2	Lighting		actor 5% (min 0.5)	Control		High Frequency Co	ontrol Gear	
		300-500lux (minim				Daylight linked con	trol to office perime	ter zones,
3.3	Acoustic Regimts	NR 38 - measured	with office empty ar	nd no carpet f	itte	ď		
			·	•				
3.3	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other
		Yes	Min 2 data	For Secretar	ies			
	<u> </u>		sockets per			•	5	•
3.4	Power sockets	Small Power Load	25W/m2 (+ 5W/m2	in hot spots).	4 5	ockets per person. Add	litional sockets at pr	inter/photocopier
		points.					•	
	Panic Alarm/	PIR detectors and	window contactors.		I			
_	Security							
.6		Average Office Occ	cupancy Density: 1	person 10m2	١	deeting Rooms 1 persor	n 2.5m2	
	Other							
	Other	Air Leakage Rate 5	m3/hr/m2 @50pa.		1	1		
	Other	Air Leakage Rate 5 Ambient Design C	m3/hr/m2 @50pa. onditions:					
	Other	Air Leakage Rate 5 Ambient Design C Summer Dry Bulb 2	m3/hr/m2 @50pa. onditions: !9degC				·	
	Other	Air Leakage Rate 5 Ambient Design C Summer Dry Bulb 2 Summer Wet Bulb	m3/hr/m2 @50pa. onditions: 19degC 21degC					
	Other	Air Leakage Rate 5 Ambient Design C Summer Dry Bulb 2 Summer Wet Bulb 4 Winter Dry Bulb -4	m3/hr/m2 @50pa. onditions: 19degC 21degC degC		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s			
		Air Leakage Rate 5 Ambient Design C Summer Dry Bulb 2 Summer Wet Bulb	m3/hr/m2 @50pa. onditions: 19degC 21degC degC		Superior of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st			
	Other -ittings Blinds	Air Leakage Rate 5 Ambient Design C Summer Dry Bulb 2 Summer Wet Bulb 4 Winter Dry Bulb -4	m3/hr/m2 @50pa. onditions: 19degC 21degC degC		American Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comme	Spec Ref		

	DOM DATA			<u></u>		<u> </u>		
Proj	•	120	4		Fį	le Ref		
	m Name	Office			D	ate of origin:	Aug-10	
Roo	m Number	A210			Ļ	evel	Ground Floor (0)	
1.0	General					1		
1.1	Use	Office						
1.2	Occupancy	<u> </u>			-			
1.3	Dimensions	Ama (m2)	24.3	-	- ;	<u> </u>	<u> </u>	
1.0	Dillicitatoria	Area (m2)	24,3		i			
		<u> </u>	_			<u> </u>	<u> </u>	
1.4	Planning Relationships				!			
1.5	Fire		1	, -	-		_	
2.0	Building Element	<u> </u>	<u> </u>			Dof .		
	Floors	Floating Screed			- Sp M1	ec Ref		
	Walis	Plasterboard Part	tions		K1	i	•	
i	Ceilings	Lay in Mineral Tite			K1	1		
2.4	Door/s &	Solid Timber Vene	eered with glazed si	de liaht	12	0/L10		
	Lock Type		. TT SIGEON OF	ng-it	ب ح ر :	7.10	•	,
1.5	Degree of			· .		 		
Ļ	Privacy		· .					
.6	Windows	N/A			-			
.7	Glazed Screen	See door Schedul	<u> </u>		:			
.0	Services - Refer to	Services Specific	ation			<u> </u>	*	
	Environment	Winter Temp C	Summer Temp C	Air Humidity	, .	nt supply	Vent Extract	Control
	FCU= Fan Coil Units	FCU - 20degC	FCU 22+/-2degC	FCU 55% +/-10	10)	/s per person.	Average of 15-16l/s	
ı	or VRF	min	24max	CHB 45% +/-10	per	son at Air Har	ndling Unit to take	Local Room
	CHB=Active Chilled	CHB - 22degC	CHB 24+/-2degC	Min 35%	acc	ount of meeting	ng rooms.	Controllers
_	Beams	min	26max			ract 80% of su		
2	Lighting	Average Daylight f 0.5)	actor 5% (min	Control		h Frequency (Vlight linked or	Control Gear ontrol to office perime	ter zones
.3	Acoustic Req'mts	<u> </u>	with office empty a	nd no carpet fitted		riigrit III/ICG CC	and to onice pennie	itei zuiles.
.3	Communications	Telephone	Computer	Fax	TV	socket	FM socket	Other
		Yes	Min 2 data	For Secretaries.]	. III SOONUL	Culci
4	Power sockets	Small Power Load	sockets per 25W/m2 (+5W/m2	in hot snote). A so	ckete	nor namon A	dditional sockets at	
		printer/photocopier	points.			por poragin, A	Manuel Sources St	
- 1	Panic Alarm/	PIR detectors and	window contactors.				***	
_	Security	Avarage Office Co				1		·
6	Other		cupancy Density: 1	person 10m2. Me	eting	Rooms 1 pen	son 2.5m2	
		Air Leakage Rate 5	~ ,		200		•	
		Ambient Design C			3			
		Summer Dry Bulb 2	, 0		8	1		
		Summer Wet Bulb	•					
		Winter Dry Bulb -4						
ᆜ		Winter Wet Bulb -4	degC		1	<u> </u>		
)	Fittings · Blinds	· .			Spe	c Ref		
						}		

ROOM DATA S							
Project	1204			- 1	e Ref		
Room Name	Office			Da	te of origin:	Aug-10	
Room Number	A208		•	Le	vel	Ground Floor (0)	
1.0 General	•			3	4 2	1 .	
1.1 Use	Office						
1.2 Occupancy			·				
1.3 Dimensions	Area (m2)	24.3					
1.4 Planning Relationships			•		<u> </u> 		
1.5 Fire							
2.0 Building Elements				Sr	ec Ref		
2.1 Floors	Floating Screed			M ²			
2.2 Walls	Plasterboard Partit	ions		К1			
2.3 Ceilings	Lay in Mineral Tile			K1	1		
Cennige	Lay III Williordi Tile						
2.4 Door/s &	Solid Timber Vene	ered with glazed sid	le light	12	0/L10	 	
Lock Type	Cold Timber Velle	CICC WILL GIOZOG SIC	o ngirt				
2.5 Degree of			-				
Privacy	<u> </u>			į	,		·
2.6 Windows	N/A						
2.7 Glazed Screen	See door Schedule	9		Ì	-		
3.0 Services - Refer to	Services Specific	ation		1	i.		
3.1 Environment	Winter Temp C	Summer Temp: C	Air Humidity	Ve	nt supply	Vent Extract	Control
FCU= Fan Coil Units	FCU - 20degC	FCU 22+/-2degC	FCU 55% +/-10			n. Average of 15-16l/s	BMS Control.
or VRF	min	24max	CHB 45% +/-10	pe	rson at Air Ha	andling Unit to take	Local Room
CHB=Active Chilled	CHB - 22degC	CHB 24+/-2degC	Min 35%		count of meet		Controllers
Beams	min	26max		Ε×	tract 80% of	supply, with	
3.2 Lighting	Average Daylight F	actor 5% (min	Control			Control Gear	eter zones.
3.3 Acoustic Reg'mts	NR 38 - measured	with office empty a	nd no carpet fitted	-	:		
3.3 Communications	Telephone	Computer	Fax	TA.	socket	FM socket	Other
Communications	Yes	Min 2 data sockets per	For Secretaries	de todologica.	SOCKET		Carca
3.4 Power sockets	Small Power Load printer/photocopie		in hot spots). 4 so	cket	s per person.	Additional sockets at	
3.5 Panic Alarm/ Security	<u> </u>	window contactors.		- Inchilled in			
3.6 Other	Average Office Oc	cupancy Density: 1	person 10m2. Me	eetin	g Rooms 1 p	erson 2.5m2	
	1. *	5m3/hr/m2 @50pa.	•		Ĭ	·	
	Ambient Design	~ .					
	Summer Dry Bulb					•	
	Summer Dry Builb	•		da Land			
	1						
	Winter Dry Bulb -	T.		at attention			
10 5141	Winter Wet Bulb -	-ueyu		(0.	ec Ref		
4.0 Fittings							
Blinds				Ŋ			

	pject	120		•		File Ref	· · · · ·	
Ro	om Name	Meeting Roo	m		:	Date of origin:	Aug-10	
Ro	om Number	A208				Level	Ground Floor (0	1
1.0	General						0.0207.100. (0	<u> </u>
1.1	Use	Meeting Room						
	<u> </u>							•
1.2	Occupancy			•				
ᆫ				_	<u> </u>	<u> </u>		
1.3	Dimensions	Area (m2)	35.6					
						*		
1 4	Di-	 	<u> </u>		<u> </u>			
1.4	Planning							,
1.5	Relationships Fire		·		 		<u> </u>	<u> </u>
1.3	rire	ľ				ř.		
2.0	Building Elements	<u>L</u>			<u>: </u>	San Dat		
2.1	Floors	Floating Screed			<u> </u>	Spec Ref M10		<u> </u>
2.2	Walls	Plasterboard Parti	tions			K10		
2.3	Ceilings	Lay in Mineral Tile				K10		
2.4	Door/s &		ered with glazed sig	le liaht	:	L20/L10		
	Lock Type	-	orea man grazes are	-o ngm		LZO/LTO		
2.5	Degree of				.			ř.
	Privacy							
2.6	Windows	N/A		-			 	
2.7	Glazed Screen	See door Schedule	3					
3.0	Services - Refer to	Services Specific	ation	-				
3.1	Environment	Winter Temp °C	Summer Temp °C	Air Humi	dity	Vent supply	Vent Extract	Control
• *	FCU= Fan Coil Units	FCU - 20degC	FCU 22+/-2degC				supply and extract	PIR Control (hi/lo).
	or VRF	min	24max	CHB 459	1 1			Local temperature
	CHB=Active Chilled	CHB - 22degC	CHB 24+/-2degC	Min 35%		!		and fan control
	Beams	min	26max	1			·	
3.2	Lighting	300 lux for normal		Control		Manual switching		
		where more intens	ive reading and		<u> </u>	High Frequency	Control Gear	
3.3	Acoustic Req mts	INR35						
2.2	Requirements	T. 1			<u> </u>	<u> </u>	<u>.</u>	
3.3	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other
3.4	Power anakata	Yes	yes		<u> </u>	yes	yes	Projector
J. T	Power sockets	Floor boxes under	tables ver sockets for proje	otor				
3.5	Panic Alarm/	cour mounted box	ei sockers ini biole	CIOI				
J.J	Security			1				
3.6	Other			<u>i</u>	<u> </u>	·	 	
				Que de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de		-		
				- :	 	Spec Ref		
4.0	Fittings			1	14 :	Shec Ret		

Pro	ject	120	14		-	File Ref		
	om Name	Entrance				Date of origin	: Aug-10	
Ro	om Number	A215		:		Level	•	03
	General		.				Ground Floor (0)
_	Use	Entrance			ļ. !		.	
L		<u> </u>		:		•	ė.	
1.2	Occupancy							
1.3	Dimensions	Area (m2)	28.3					<u> </u>
1.4	Planning	· .			 			_
	Relationships		•	:			•	
1.5	Fire			 :			<u> </u>	
2.0	Building Element	s		i	-	Spec Ref	<u>_</u> _	
2.1	Floors	Floating Screed			 -	M10	· ·	
2.2	Walls	Plasterboard Par	titions			F10		
ļ				:				
			•	:		•		•
2.3	Ceilings	Plasterboard Ceil	ing	1		K10		
						· .	•	
2.4	Door/s &							
	Lock Type			:			`	
2.5	Degree of Privacy							
2.6	Windows	N/A	-)	·
2.7	Glazed Screen	N/A		. :		· .		
3.0	Services - Refer to	Services Specific	ation		Ė			<u> </u>
3.1	Environment	Winter Temp °C	Summer Temp °C	Air Humidity		Vent supply	Vent Extract	Control
		18degc	28 max	Not controlled	177	10l/s person	as supply	Local Controls
3.2	Lighting	200 lux general Local lighting to pl notice boards etc	ant areas, displays,	Control		Manual switching		
	Acoustic Req¹mts	NR38						
	Communications	Telephone Yes	Computer	Fax		TV socket Yes	FM socket Yes	Other
		Power and data so	ckets for wall moun	ted display scr	ens	(TV and Network)	
	Panic Alarm/ Security	Intruder detection	· · · · · · · · · · · · · · · · · · ·					<u> </u>
3.6	Other			- 1	:			

	OWIDATAS							
Proj		1204			File F		4 40	
	m Name	Secure Rece	ption			of origin:	Aug-10	
	m Number	A204			Level	l	Ground Floor (0)
	General	lo " om			:		•	
1.1	Use	Sreception Office		: i				
1.2	Occupancy	-						
1.3	Dimensions	Area (m2)	12					
	Planning Relationships							
1.5	Fire	į		:			•	
2.0	Building Elements		-	1	Spec	Ref		
2.1	Floors	Floating Screed			M10			
2.2	Walls	Plasterboard Partit	ions	. :	F10	÷		
2.3	Ceilings	Lay in Mineral Tile)		K10			
2.4	Door/s & Lock Type	Solid Timber Vene	ered		L20			
2.5	Degree of				+			
2.0	Privacy							
2.6	Windows	N/A			+			
2.7	Glazed Screen	N/A						
3.0	Services - Refer to	Services Specific			<u> </u>			
	Environment		Summer Temp °C	Air Humidity	Vent	supply	Vent Extract	Control
		19degC min. Local heating to	26deg C max	Not controlled		person	As supply	Local Controls
3.2	Lighting	200 lux general, 30 reception desks ar Local lighting to pla notice boards etc	nd seating areas. ant areas, displays	Control	Manu	ral switching	g with time clock	
3.3	Acoustic Req'mts	NR38					•	
3.3	Communications	Telephone Yes	Computer Yes	Fax Yes	TV so	ocket	FM socket Yes	Other Induction Loop
3.4	Power sockets	To reception desk Power and data so	, seating areas and	d display areas		and Networ		, SP
3.5	Panic Alarm/	Security Panels at					-	
	Security	•		- "	<u> </u>			
3.6	Other							
	Fittings				Snoc	Ref		
4.0	i ittiiga			1.1	- Aner			

Proj	OW DATA S	1204				File Ref	•	
-	eci m Name	First Aid			-	Date of origin:	Aug-10	
			•			-	=	
	m Number	A206				Level	Ground Floor (0	· <u>·</u>
	General Use	First Aid Room	·			<u> </u>	·	·
1.1	Ose	I list Aid 1700m						•
1.2	Occupancy							<u>-</u> .
1.3	Dimensions	Area (m2)	6.2					
		:						
1.4	Planning Relationships							
1.5	Fire					•		
1.3	rije							
2.0	Building Elements					Spec Ref		
2.1	Floors	Floating Screed				M10		
2.2	Walls	Plasterboard Partit	ions			F10		
					<u> </u>		•	
2.3	Ceilings	Lay in mineral tile		•		K10		
								•
		<u></u>			-			
2,4	Door/s &	Solid Timber Vene	ered			L20		
	Lock Type				.]			
	·			•				
2.5	Degree of							
	Privacy	·						
2.6	Windows	N/A					•	
2.7	Glazed Screen	N/A						
3.0	Services - Refer to	 Services Specific	ation		-			
	Environment		Summer Temp °C	Air Humic	lity	Vent supply	Vent Extract	Control
			26deg C max	Not contr		10l/s person	As supply	Local Controls
3.2	Lighting	300 lux general, 50		Control			g with time clock	
		examination may b	e needed.	1			_	
3.3	Acoustic Req'mts	NR 35						
^^	<u> </u>			_				
3.3	Communications		Computer	Fax		TV socket	FM socket	Other
2.4	Barrey a a strate	Yes	Yes	Yes		Yes	Yes	Induction Loop
3.4	Power sockets	Yes						
3.5	Panic Alarm/					•	-	* *
	Security							
3.6	Other	Sink with H&C wat	er connections and	drainage				
			r	• .				
4.0	Fittings					Spec Ref		
	Medical room equip	mont nackago	•			N10	•	

	JOWI DATA :		· · · · · · · · · · · · · · · · · · ·					
Proj		1204	4	.	File Ref			
	m Name	Reception		į	Date of origin:	_		
_	m Number	A203		<u>i</u>	Level	Ground Floor (0)	
1.0	General	· · ·	·					
1.1	Use	Reception		. :				
1.2	Occupancy	,,,		-			***	
1.3	Dimensions	Area (m2)	77.6					
1.4	Planning Relationships			. !				
1.5	Fire			• :			-	
2.0	Building Element	<u> </u>		· 1	Spec Ref			
2.1	Floors	Floating Screed			M10			
2.2	Walls	Plasterboard Parti	itions	:	F10 ·			
						·	٠.	
2.3	Ceilings	Plasterboard		i	K10			
2.4	Door/s &	Solid Timber Vene	orod		L20	<u> </u>		
2,7	Lock Type	Golid Turiber Verie	sereu		L20			
2.5	Degree of			- <u>i</u>	<u> </u>			
	Privacy							
2.6	Windows	N/A						
2.7	Glazed Screen	30/30 fire rated gla	azing	1.2m x 1.2m	L10			
3.0	Services - Refer to	Services Specific	cation	1				
	Environment	Winter Temp °C	Summer Temp °C	C Air Humidity	Vent supply	Vent Extract	Control	
		19degC min. Local heating to	26deg C max	Not controlled	10l/s person	As supply	Local Controls	
3.2	Lighting	200 lux general, 30 reception desks as Local lighting to planotice boards etc	nd seating areas.	Control	Manual switchin	g with time clock		
3.3	Acoustic Req'mts	NR38		7	:			
3.3	Communications	Telephone Yes	Computer Yes	Fax Yes	TV socket Yes	FM socket Yes	Other	
3.4	Power sockets	To reception desk			163	1 63	Induction Loop	
	Panic Alarm/ Security	Security Panels at	/near reception des	sk (CCTV, IDS, A	cess Control)			
_	Other	Air Leakage Rate	5m3/hr/m2 @50pa	4			···	
) Fittings							
4.0	Fittings				Spec Ref			

ROOM DATA SHFFT

	DOM DATA			<u> </u>	<u> </u>				
	ject	. 120	4			File Ref			
	om Name	Lift Lobby				Date of origin:	Aug-10		
_	m Number	A202				Level	Ground Floor	(0)	
1.0									_
1.1	Use	Lift Lobby							_
4.0	 _	 	<u> </u>		Ь.				
1.2	Occupancy			:				-	
1.3	Dimensions	Area (m2)	8.2		<u> </u>		<u> </u>		
	Dimensions	Alea (IIIZ)	0.2				-		
				:	-		•		
1.4	Planning				<u> </u>				
	Relationships								
1.5	Fire			:	Т			_	_
	<u> </u>	<u> </u>	<u>.</u>	i			<u> </u>		
2.0 2.1	Building Element		<u>- </u>		1:	Spec Ref			
2.1	Floors Walls	Floating Screed	•			M10			
2.2	waiis	140mm Blockworl				F10	•	•	
		Plasterboard Wall				K10			
	1	Plasterboard Part	itions			K10			
2.3	Ceilings	Plasterboard		<u></u> :	<u> </u>	1/40	- :		
2.0	Cennings	Flasterboard		:		K10			
	ļ								
2.4	Door/s &	Solid Timber Vene	eered	Fire doors	+-	L20	<u> </u>		
	Lock Type					L20	4		
				1					
2.5	Degree of				†				
	Privacy			. !					
2,6	Windows	N/A							
		001000							
2.7	Glazed Screen	30/30 fire rated gla	azing	1.2m x 1.2m		L10			
3.0	Services - Refer to	Sarvisas Specific			+-				
	Environment	Winter Temp °C	Summer Temp °C	Air Humiditi	1	Mont ouronly	Nont Educati	10	
		20degC	not controlled	not controlled		Vent supply not controlled			
3.2	Lighting	200 lux	oc oonio onou	Control	-			none	_
	•	Lighting to the lift		34.16.01		Manual switching	cy Control Gear		
		controls and			1				Ì
. [4	doorways					•		
3.3	Acoustic Reg'mts	·			+	·			<u> </u>
	Requirements					•			
3.3	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other	\dashv
		01	<u> </u>				_	<u>.</u>	
3.4	Power sockets	Cleaners socket				•			
3.5	Panic Alarm/	<u> </u>					<u> </u>	<u> </u>	
	Security								l
_	Other	Pressurised - depe	ndent on fire etecto	any .	+		·	· ·	
		oooanoed - depe	indent on life strate	93	-	•			· f
		<u> </u>			┼			<u> </u>	

_	ject						
	om Name	12: Couth Ctair	U4		File Ref		
		South Stair			Date of orig	jin: Aug-10	
_	om Number	A201	<u> </u>		Level	Ground Floor	(0)
1.0		lou-i-					
1.1	Use	Stair	•				
1.2	Occupancy			<u> </u>			
1.3	Dimensions	Area (m2)	<u>·</u>			-	
1.4	Planning	 -				<u> </u>	
_	Relationships						
1.5	Fire			-			
2.0	Building Element				Spec Ref		<u> </u>
2.1	Floors	Floating Screed			M10	<u> </u>	
2.2	Walls	140mm Blockwoi			F10		
	1	Plasterboard wall			K10		
		Plasterboard Par	titions	:	K10		•
2.3	Ceilings	Plasterboard soff	t to landings		K10		
.4	Door/s &	Solid Timber Ven	eered	Fire doors	L20		
	Lock Type						
2.5	Degree of				<u> </u>	<u> </u>	
	Privacy	· .		:		•	
2.6	Windows	N/A					
.7	Glazed Screen	N/A	 .	!			
.0	Services - Refer to	Services Specific	ation			<u> </u>	
,1	Environment	Winter Temp °C	Summer Temp °	C Air Humidity	Vent supply	Vent Extract	Control
		18degC	not controlled	not controlle		not controlled	none
.2	Lighting	150 lux on all trea		Control		cy Control Gear	, none
	Acoustic Req'mts Requirements	,			manual Switch		
	Communications	Telephone	Computer	Fax	TV socket	FM socket	Other
.4	Power sockets	Cleaners socket				<u> </u>	
5	Panic Alarm/	·			 		
	Security			3.1	1		
_ [Security Other	Pressurised - depe	ndent on fire strat	tegy			
6		Pressurised - depe	ndent on fire strat	legy	Spec Ref		

Pr	oject	12	04		₩	File Ref		· .	
R	oom Name	South Stair	•			Date of origin	: Aug-10		
Ro	oom Number	A104				Level	-) - 1	
_	General				$^{+}$	Level	Lower Ground	Floor (-1)	
_	Use	Stair		 !				<u>·</u>	
							4.1	•	
1.2	Occupancy	1							
1.	Dimensions	Area (m2)			$\dagger \dagger$	· · · · · · · · · · · · · · · · · · ·	-		
L	<u> </u>								
1.4	1						<u></u>		
L	Relationships		·			· .			
1.5	Fire					<u>_</u>			
		<u> </u>	<u> </u>		Ш				
2.0 2.1						Spec Ref			
2.1	FIDOIS	Precast Concrete	estairs						
Į		ł							
ľ								•	
	· ·				1	•			
2.2	Walis	140mm Blockwor	t Boint Condo		4				
	1.0113	140mm blockwor	K Faint Grade			F10		-	
		1							
2.3	Ceilings	N/A			╫				
		1							
	ŀ								
2.4	Door/s &	N/A							
	Lock Type								
	<u>. </u>	<u> </u> .	ė.			•	• •		
2.5	1 4				Ħ		-	_	
	Privacy		<u> </u>					•	ŀ
2.6	Windows	N/A					-		
	<u> </u>								ľ
2.7	Glazed Screen	N/A							$\neg \neg$
2 ^	0-2-5	<u> </u>	•						ľ
3.0		Services Specific							
3.1	Environment	Winter Temp °C	Summer Temp °C			Vent supply	Vent Extract	Control	
3.2	Lighting	18degC	not controlled	not controll	ed	not controlled	not controlled	none	
J.Z	Ligiting	150 lux on all tread	IS	Control		High Frequency (Control Gear		
3.3	Acoustic Regimts		<u> </u>			Manual switching	· · · · · · · · · · · · · · · · · · ·		
	Requirements								
3.3	Communications	Telephone	Computer	Eav		711			
		. s.sp.iono	Computer	Fax		TV socket	FM socket	Other	• • [
.4	Power sockets	Cleaners socket	·		-				
							-		
.5	Panic Alarm/			<u> </u>				<u> </u>	
	Security						-		j
.6	Other	Pressurised - deper	ndent on fire strateg	y .	+	·	<u> </u>		
				-			•		
	Fittings				П	Spec Ref		<u> </u>	\dashv
- [Painted 40mm dia ha	andrails				L30			\neg

Pro	oject	12	04		File Ref				
Ro	om Name	North Stair	•		Date of origin:	Aug-10			
Ro	om Number	A102			Level	•	(E) (A)		
1.0	General				revei	Lower Ground	Floor (-1)		
1.1		Stair					· _		
1.2	Occupancy								
		1		:		•			
1.3	Dimensions	Area (m2)	-						
	ŀ								
L	<u></u> ,								
1.4	, ,					-			
	Relationships	<u></u>							
1.5	Fire		<u></u>						
<u> </u>	<u></u>	<u></u>							
2.0	Building Elemen				Spec Ref				
2.1	Floors	Precast Concrete	stairs		<u> </u>				
	1					•			
	1			:	•		•		
	1								
	<u></u>			.		:	i		
2.2	Walls	140mm Blockwor			F10		<u>-</u>		
		Wall Lining Syste	m .	:	K10	: 			
			<u> </u>						
2.3	Ceilings	N/A				· -			
	· ·					,			
2.4	Door/s &	Solid Timber Pain	t Grade	Fire doors	L20				
	Lock Type								
		<u> </u>							
2.5	Degree of				- ;				
0.0	Privacy								
2.6	Windows	N/A	·			. <u></u>			
1 7	0110		· · ·						
2.7	Glazed Screen	N/A					-		
	Commission Buffer (·	<u> </u>			
	Services - Refer to			- 1					
), [Environment	Winter Temp °C	Summer Temp °C		Vent supply	Vent Extract	Control		
3.2	1 :	18degC	not controlled	not controlled	not controlled	not controlled	none		
).Z	Lighting	150 lux on all tread	is	Control	High Frequency C	ontrol Gear			
2	Acoustic Reg'mts	·			Manual switching				
		1		3 1					
	Requirements	Talanhana				· <u></u>	·		
	Communications	Telephone	Computer	Fax	TV socket	FM socket	Other		
4	Power sockets	Cleaners socket	_		<u> </u>				
	. Onci sockets	Organiera Sucket							
.5	Panic Alarm/					<u></u> .			
					•				
$\overline{}$	Security 6 Other Pressurised - dependent on fire strategy				·				
·	6 Other Pressurised - dependent on fire strategy								
.0 Fittings									
	Painted 40mm dia h	andrails	<u>-</u>		Spec Ref	<u> </u>			
ું ('		en rui alia			L30				

Pr	oject	12	204		File Ref			
	om Name	Switch Roo						
Ro	om Number	A101			Date of origin	_		
	General	AIVI			Level	Lower Ground	d Floor (-1)	
1.1		Switch Room			<u> </u>			
			•					
1.2	Occupancy	 				 _		
					•		•	
1.3	Dimensions	Area (m2)	159.1		<u> </u>		_ -	
l				.		٠	ē.	
<u> </u>					19.7 x 6.4			
1.4		1 .				. <u> </u>		_
1.5	Relationships Fire	 	<u></u>					
1.5	Fire	-				-		_
2.0	Building Elemen	le ·					·	
2.1		RC slab	<u> </u>		Spec Ref			
l								
		ļ						
		1	•	. :		•		
	1			1				
		1		:				
2.2	Walls	140mm Blockwo	rk Paint Grade		F10			긕
	.[:				
		1	-					ı
2.2								
2.3	Ceilings	ľ			-			┪
	[•			•		-
2.4	Door/s &	Solid Timber Pair	ot Grada	Fine de est			·	╝
	Lock Type	CONG THIRDS T AN	it Grade	Fire doors	L20			
•				:			•	-
2.5	Degree of						<u> </u>	4
	Privacy		* P					ı
2.6	Windows	N/A						\dashv
				! 1				ı
2.7	Glazed Screen	N/A		-				┪
	0	<u> </u>				•	•	1
3.1	Services - Refer to Environment							7
, ,	LIMITOTIMENT	Winter Temp °C 15degC min.	Summer Temp °C		Vent supply	Vent Extract	Control	7
3.2	Lighting	200 Lux general a	not controlled	Not controlled	none	3ach	Local Controls]
		vertically on sides	of switchnear etc	Control	Manual switching	and time clock	**	ı
1.3	Acoustic Reg'mts	,	Times agout, oto .	1 2 1			<u> </u>	4
	•							ı
.3	Communications	Telephone	Computer	Fax	TV socket	FM socket	Other	+
_					, a sooner	i Wi Socket	Other	ł
.4	Power sockets	Yes		- 1				1
_				91.00		,		1
	Panic Alarm/							1
$\overline{}$	Security Other							
۱ "						_ 		1
	<u> </u>		<u></u> -		<u> </u>		•	1

	JOM DATA						
Proj	ect m Name	12 1 :64 1 a b b v			File Ref		
		Lift Lobby			Date of origin	n: Aug-10	
	m Number	A103			Level	Lower Ground	Floor (-1)
1.0 1.1	General Use	To to to			: •		
1.1	Use	Service Lift Lobb	У	! !			
1.2	Оссирапсу	 	<u> </u>		<u> </u>		
1.3	Dimensions						<u>.</u> .
1.3	Dimensions	Area (m2)	34.2			-	
	Planning Relationships	 					
	Fire	 					
 .0	Building Element	<u></u>	<u>_</u>				
	Floors	Floating screed			Spec Ref	<u> </u>	
	110013	Produing screed					
.2	Walls	140mm Blockwor			F10		
- [Plasterboard wall			K10		
		Plasterbaord part			K10		•
3 1	Ceilings	Lay in Grid			K10		
1							
4 1	Door/s &	Solid Timber Pain	t Grade	Fire doors	L20	. <u> </u>	
ļ	Lock Type						
	Degree of						
_	rivacy	1111					
י ויי	Vindows	N/A	•			·	
7	Glazed Screen	N/A					
Ť	\		<u> </u>				
		Services Specific					
ا	nvironment	Winter Temp °C		Air Humidity	Vent supply	Vent Extract	Control
+	inhtin -	20degC	not controlled	not controlled	not controlled	not controlled	none
<u> </u>	ighting	200 lux		Control	High Frequency	Control Gear	
		Lighting to the lift			Manual switchin	g	•
		controls and doorways					
A	coustic Reg'mts	doorways					
	equirements						
_		Telephone	Computer	Fax	TV socket	FM socket	Other
P	ower sockets	Cleaners socket		1.7 (2.7)			
1.	1			9			
L	anic Alarmi						
P;	anic Alarm/						,
P:	ecurity	Proceurios d	ndent on fire strateg	Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Consti			,

Pr	oject	120	04		╁	File Ref		
Ro	om Name	South Stair				Date of origin:	A.v. 40	
	om Number	A009				-	Aug-10	
_	General	7,000			#	Level	Lower Ground	Floor (-2)
	Use	Stair	 	<u>.</u>		<u> </u>		
1.2	Occupancy			<u> </u>				
1.3	Dimensions	Area (m2)		<u> </u>			-	<u> </u>
1.4	Planning Relationships			-			·	
1.5	Fire		<u> </u>	· · ·				
2.0		ts	 .		Ħ	Spec Ref		
2.1	Floors	Precast Concrete	stairs	!	\parallel			
				:				
2.2	Walls	140mm Black and	Delat Cont		Ц		<u></u>	
2. .2	rans	140mm Blockworl	k Paint Grade			F10		
2.3	Ceilings	N/A						
2.4	Door/s &	Solid Timber Pain	t Grade	Fire doors	H			
•	Lock Type					*		
2.5	Degree of Privacy							
2.6	Windows	N/A					 _	
2.7	Glazed Screen	N/A						-
	Services - Refer to				1 1			
3.1	Environment	Winter Temp °C	Summer Temp °C			Vent supply	Vent Extract	Control
3.2	Lighting	18degC 150 lux on all tread	not controlled is	not control	ed	not controlled High Frequency C Manual switching	not controlled ontrol Gear	none
	Acoustic Reg'mts				廾			
	Requirements			900		•		
\Box	Communications		Computer	Fax		TV socket	FM socket	Other
	Power sockets	Cleaners socket		The Concession of the				,
	Panic Alarm/ Security			awki na dankan 30kib.				
		Pressurised - deper	ndent on fire strateg	y				
	Fittings					Spec Ref	····	
Į,	Painted 40mm dia ha	andrails				L30		

Pr	oject	12	04		File Ref		
Ro	om Name	Lift Lobby				A 40	
	om Number	A008			Date of origin:	•	
1.0		AUUU		- 1	Level	Lower Ground	Floor (-2)
1.1		Service Lift Lobb	 		<u>:</u>	<u> </u>	
l'''	Use	Service Lift Fobi	ру	1			
1.2	Occupancy						
',2	Occupaticy					•	
1.3	Dimensions	A (0)					
' <i>.</i> ~	Dittielisions	Area (m2)					
]				:			
1.4	Planning	-				<u> </u>	<u></u>
''-	Relationships						
1.5		-	 -		<u> </u>		
''	""						
2.0	Building Element			- 11			
2.1		Concrete			Spec Ref	<u>-</u>	<u> </u>
	1 10010	Concrete					
			•				
		1					İ
			1				
	ł		·				
2.2	Walls	140mm Blockwor	k Point Crodo				·
		140MIII DIOCKWOI	k Failit Grade		F10		
ĺ	}			:			
		1					
2.3	Ceilings	N/A					
		1417					
2.4	Door/s &	Solid Timber Pain	t Grade	Fire doors	1.00		<u> </u>
	Lock Type	out things I dill	i Grade	THE GOODS	L20		
					•		
2.5	Degree of	 			·	_	
	Privacy]					·
2.6	Windows	N/A					·
							ľ
2.7	Glazed Screen	N/A					
				:		•	,
3.0	Services - Refer to	Services Specific	ation	- iii			
	Environment	Winter Temp °C	Summer Temp °C	Air Humidity	Vent supply	Vent Extract .	Control
	<u></u>	20degC	not controlled	not controlled	not controlled	not controlled	none
3.2	Lighting	200 lux		Control	High Frequency (none
		Lighting to the lift		, ,	Manual switching		•
		controls and		· · · · · · · · · · · · · · · · · · ·			
		doorways		A Water			·
	Acoustic Req'mts						
	Requirements					•	
3.3	Communications	Telephone	Computer	Fax	TV socket	FM socket	Other
					<u>.</u>		- 4.4.
1.4	Power sockets	Cleaners socket					
							1
	Panic Alarm/						
_	Security	_					
.6	Other	Pressurised - depe	ndent on fire strateg	ly "			
				3			

Proje	ect	1204				File	Ref		
Roor	n Name	North Stair	•		.	Date	of origin:	Aug-10	
Roor	n Number	A002				Leve	el .	Lower Ground Flo	or (-2)
	General			İ	Ħ				
_		Stair		· ·					·
1.2	Occupancy		•						
1.3	Dimensions	Area (m2)							7
1.4	Planning Relationships			 				· · · · · · · · · · · · · · · · · · ·	
1.5	Fire							_	·
2.0	Building Elements		ř.			Spe	c Ref		
2.1	Floors	Precast Concrete s	tairs						
2.2	Walls	140mm Blockwork	Point Grado		₩	F10			•
2,2	waits		Failt Glade			FIU			
2.3	Ceilings	N/A							
				<u>.</u>					· .
2.4	Door/s & Lock Type	Solid Timber Paint	Grade	Fire doors		L20		· ,	
	Degree of Privacy						• •		
2.6	Windows	N/A				,	·		
2.7	Glazed Screen	N/A	· ·				•		
3.0					Ц.	:			16 7
3.1	Environment		Summer Temp °C				t supply	Vent Extract	Control
3.2	Lighting	18degC 150 lux on all tread	not controlled s	not contro Control	led	High	controlled n Frequency (nual switching	not controlled Control Gear	none
3.3	Acoustic Req'mts Requirements			1					
3.3	Communications	Telephone	Computer	Fax		TVs	socket	FM socket	Other
	Power sockets	Cleaners socket							
3.5	Panic Alarm/ Security			en manten					
3.6	Other	Pressurised - depe	ndent on fire strate						· ·
4.0	0 Fittings						c Ref		
	Painted 40mm dia l	nandrails		_		L30			

	ON DATA SI				<u> </u>						
Proje	ct	1204		:	File Ref						
Roor	n Name	Lift Lobby		:	Date of origin: Aug-10						
Roor	n Number	A003				Level	Lower Ground Flo	oor (-2)			
		7000		1		20101	Lond, Ground I I	, o. (_ /			
	General	1.00 1 - 1-1-									
1.1	Use	Lift Lobby		:			•				
Ш					<u> </u>		 				
1.2	Occupancy			i		•					
1.3	Dimensions	Area (m2)	•								
·				:	i		•				
	-					•					
1.4	Planning		<u>-</u>					-			
	Relationships	•	1.0								
	Fire			•							
1,3	FIIE			:							
لــــا	Duilding Flores	·			 	Spec Ref					
	Building Elements	Concrete		3].	1	Sher vei					
2.1	Floors	Colidete									
					: 						
				:				•			
			•								
		<u> </u>									
2,2	Walls	140mm Blockwork	Paint Grade	į		F10					
				. :							
		•			:						
							<u> </u>				
2.3	Ceilings	N/A									
					'-						
2.4	Door/s &	Solid Timber Paint	Grade	Fire doors		L20	-	,			
	Lock Type										
	Look Typo			1 :							
2.5	Degree of				 						
12.5	Privacy										
2.6	Windows	N/A	. —					-			
2.0	Windows	IN/A		:							
L -	Olega d Octo	NI/A			<u>i </u>						
2.7	Glazed Screen	N/A	5			•					
<u></u>	L	<u> </u>	-41	- 1	ļ <u> </u>		 _				
	Services - Refer to		ation	Ata 4 a a de] : -	Mant armatic	Nont Entropi	Control			
3.1	Environment		Summer Temp °C			Vent supply	Vent Extract	Control			
<u></u>	<u> </u>	20degC	not controlled	not contro	ea	not controlled	not controlled	none			
3.2	Lighting	200 lux		Control		High Frequency (
1		Lighting to the lift		1 1		Manual switching					
1		controls and									
		doorways		30.75	:			<u> </u>			
3.3	Acoustic Req'mts			COSC 9 PRO 1							
	Requirements	<u> </u>				<u> </u>		·			
3.3	Communications	Telephone	Computer	Fax		TV socket	FM socket .	Other			
1		·						<u>-</u>			
3.4	Power sockets	Cleaners socket		3	1						
				1							
3.5	Panic Alarm/										
	Security										
3.6	Other	Pressurised - dene	endent on fire strate	av	<u> </u>		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
				•			-				
	<u> </u>	1			<u> </u>						

RO	OM DATA S	HEET				<u> </u>			
Proje	ect	1204			-	File Ref			
Roor	n Name	Toilets			İ	Date of origin:	Aug-10		
Roor	m Number	A004			1	Level	Lower Ground Fk	oor (-2)	
1.0	General			1	İ				
1.1	Use	Toilets							
1.2	Occupancy								
1.3	Dimensions	Area (m2)	16.3	-		4.09 x 4.0			
1.4	Planning Relationships								
1.5	Fire								
2.0	Building Elements					Spec Ref			
2,1	Floors	Concrete							
	Walls		40mm Blockwork Paint Grade			F10			
2.3	Ceilings	N/A	·· ·			L20			
2.4	Door/s &	Solid Timber Paint	olid Timber Paint Grade					•	
	Lock Type		•	•	l				
2.5	Degree of								
	Privacy				+				
	Windows	N/A			1				
_	Glazed Screen	N/A			÷				
3.0	Services - Refer to				1	 	To the second	To a series	
3.1	Environment	Winter Temp C	Summer Temp C	Air Humidity	L	Vent supply	Vent Extract	Control	
		19degC min.	26max if cooling provided	Not controlled		8 air changes per hour.	10 air changes per hour	PIR control on fans and lighting	
3.2	Lighting	200 lux IP65 fittings		Control		PIR control and sv	vitch		
3.3	Acoustic Req'mts	NR45		1,177					
3.3	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other	
3.4	Power sockets	Fuse spurs for h	and dryers	We construct on					
				1	1				
3.5	Panic Alarm/ Security		· · · · · · · · · · · · · · · · · · ·	TO THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE					
3.5 3.6		Water connections	s to WC and wash	hand basin					
3.6	Security Other	Water connections	s to WC and wash	hand basin		Spec Ref			
	Security Other Fittings	Water connections	s to WC and wash	hand basin		Spec Ref N13			
3.6	Security Other	Water connections	s to WC and wash	hand basin					

ROOM DATA SHEET 1204 File Ref Project Date of origin: Aug-10 Kitchenette **Room Name** A005 Level Lower Ground Floor (-2) Room Number 1.0 General Kitchen 1.1 Use 1.2 Occupancy 1.3 Dimensions Area (m2) 7.6 4 x 1.9 1.4 Planning Relationships 1.5 Fire Spec Ref 2.0 Building Elements 2.1 Floors Concrete 2.2 Walls 140mm Blockwork Paint Grade F10 N/A 2.3 Ceilings N/A 2.4 Door/s & Lock Type Degree of Privacy N/A Windows Glazed Screen N/A 3.0 Services - Refer to Services Specification Summer Temp C Air Humidity | Vent supply Control Vent Extract Winter Temp C Environment not controlled not controlled Extract hood over cooking area Local Controls 16-19degC High Frequency Control Gear 500lux Control 3.2 Lighting Manual Switching. 3.3 Acoustic Req'mts FM socket Other TV socket Communications Telephone Computer Yes Hard wired power supplies to electrical appliances Power sockets Power sockets above work surfaces Panic Alarm/ Security

Gas connections to cookers and hobs.

Drainage and H&C water connections as required.

Spec Ref

N11

Other

4,0 Fittings

Sink Fridge

Kitchen base and wall units

Proje	ect	1204				File Ref		
Roor	m Name	Workshop				Date of origin:	Aug-10	
Rooi	n Number	A006				Level	Lower Ground Floo	or (-2)
1.0	General						•	-
1,1	Use	Workshop					1	
1.2	Occupancy							
1.3	Dimensions	Area (m2)	231.2				26,447 x 9.7	
1.4	Planning Relationships		· •					
1.5	Fire	· . 				<u>.</u>		
2.0	Building Elements			ă.		Spec Ref	-	
2.1	Floors	Concrete						
2.2	Walls	140mm Blockwork	Paint Grade			F10		
2.3	Ceilings	N/A			:		•	
2.4	Door/s &	Solid Timber Paint	Grade			L20		
	Lock Type			٠				
2.5	Degree of							
	Privacy	, .						
2.6	Windows	N/A						
2.7	Glazed Screen	N/À						
3.0	Services - Refer to	Services Specifica	ation	1				
3.1	Environment	Winter Temp °C	Summer Temp °C	Air Humi	dity	Vent supply	Vent Extract	Control
		16-19degC	Not controlled	Not conti	olled	Make up air as required by processes	Specialist extract as required by processes	Local Controls
3.2	Lighting	300 Lux general for		Control		Manual switching	and time clock	·
		300 Lux vertically of as drills, lathes, etc workbenches wher assembly or repair	: 500 Lux on e component	en en en en e				
3.3	Acoustic Req'mts						•	
3.3	Communications	Telephone Yes	Computer Yes_	Fax		TV socket	FM socket	Other
3,4	Power sockets	Dedicated 3 phase	distribution board	4		•		
		Hired wired power Power sockets as a	supplies to machine equired by layout	es.				
3.5	Panic Alarm/					-		
	Security			1				
3.6	Other	Dust/fume extract :	Dust/fume extract systems with pulse jet or other filter					
4.0	Fittings					Spec Ref		
		ng to Clients require	ments					
	Benching to Clients	requirements			11 '			

Project 1204						File Ref		
Room Name Room Number		First Aid A010				Date of origin:	Aug-10	
						Level	Lower Ground Floor (-1)	
1.0	General							
1,1	Use	First Aid Room						
1.2	Occupancy							
1.3	Dimensions	Area (m2)	4.7					
1.4	Planning Relationships						·	
1.5	Fire	 -						
2.0	Building Elements	<u> </u>				Spec Ref		
2.1	Floors	Floating Screed				M10		
	Walls	Plasterboard Partit	ions			F10		
2.3	Ceilings	Lay in mineral tile				K10	-	
	Door/s &	Solid Timber Vene	ered			L20		
	Lock Type							
2.5	Degree of			•				
	Privacy						•	
2.6	Windows	N/A			1	·		
2.7	Glazed Screen	N/A				-		
3.0	Services - Refer to	Services Specific	ation					
3.1	Environment	Winter Temp °C	Summer Temp °C	Air Hun	nidity	Vent supply	Vent Extract	Control
		22 degC	26deg C max	Not cor		101/s person	As supply	Local Controls
3.2	Lighting	300 lux general, 500 where medical examination may be needed.			1	Manual switching with time clock		
3.3	Acoustic Req'mts	NR 35						
3.3	Communications	Telephone	Computer	Fax	-	TV socket	FM socket	Other
		Yes	Yes	Yes		Yes	Yes	Induction Loop
3.4	Power sockets	Yes						
3.5	Panic Alarm/ Security					·		
3.6	Other	Sink with H&C water connections and drainag						<u> </u>
4.0	Fittings		·- <u>-</u>		· "	Spec Ref		
		ment package			++	N10		

Project 1204						File Ref				
Room Name Store						Date of origin:	Aug-10			
Roor	n Number	A007				Level Lower Ground Floor (-2)				
1.0	General			1	П					
		Store								
1.2	Occupancy									
1.3	Dimensions	Area (m2)	190.3				19.62 x 9.7			
1.4	Planning Relationships									
1.5	Fire									
2.0	Building Elements		<u> </u>	Ī		Spec Ref				
2.1	Floors	Concrete	·							
2.2	Walls	140mm Blockwork	Paint Grade	. ,		F10				
2.3	Ceilings	N/A								
2.4	Door/s &	Solid Timber Paint	Solid Timber Paint Grade Fire Doors			L20		-		
	Lock Type				-					
2.5	Degree of Privacy									
2.6	Windows	N/A	<u></u>	•						
2.7	Glazed Screen	N/A								
3.0	Services - Refer to	Services Specific	ation	1						
3.1	Environment		Summer Temp °C			Vent supply	Vent Extract	Control		
3.2	Lighting	15 degC 200 Lux for simple 300 Lux for storage	and selection of	not control	lled	not controlled Manual Switching Timer	not controlled	not controlled		
3.3	Acoustic Regimts	small items, 200 Lux vertically for None		l constant						
	Requirements				Ш					
3.3	Communications	Telephone	Computer	Fax		TV socket	FM socket	Other		
3.4	Power sockets	Yes		14						
3.5	Panic Alarm/ Security			1 1)-man-1 recommy						
3.6	Other									
4.0	Fittings			İ		Spec Ref				
	Shelving to Client	ts requirements						•		

MERCIA WASTE MANAGEMENT

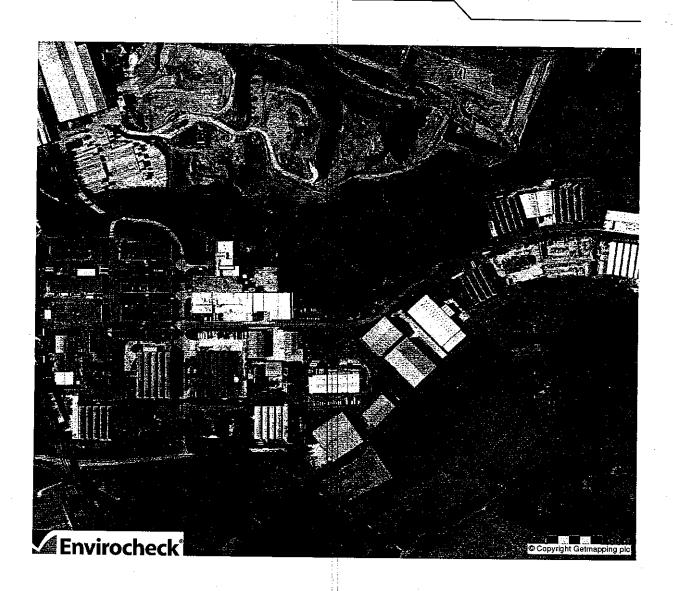
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Appendix C – Hyder Construction Option Report





Mercia Waste Management Mercia EnviRecover Renewable Energy Facility Construction Options Report



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Hyder Consulting (UK) Limited

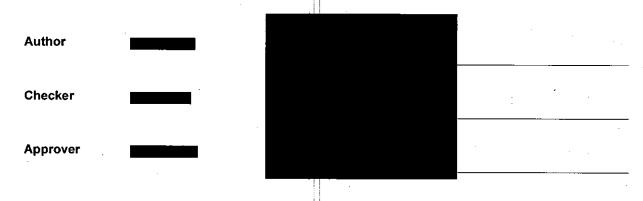
2212959

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Mercia Waste Management Mercia EnviRecover Renewable Energy Facility Construction Options Report



Report No

5006-LN01323-NER-01

Date

July 2010

This report has been prepared for the Mercia Waste Management in accordance with the terms and conditions of appointment for the Mercia EnviRecover Renewable Energy Facility contract dated 14th January 2010. Hyder Consulting (UK) Limited (2212959) cannot accept any responsibility for any use of or reliance on the contents of this report by any third party.



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Appendices

Appendix 1

Site location Plan

Executive Summary

Introduction:

- Hyder Consulting (UK) Limited (HCL) has been instructed by Mercia Waste Management (Mercia) to provide a Construction Options report to address issues associated with the construction of the proposed 15.5MW renewable energy facility, located at the Hartlebury Trading Estate in Worcestershire.
- The Construction Options report presents:
 - a) Details relating to the proposed renewable energy plant construction covering aspects relating to the buildability of the plant, the associated temporary works, the structures within the deep excavation and outside of the deep excavation, works sequencing and the anticipated construction programme.
 - b) Design of additional ground investigation works to provide supplementary information for the detailed design.
- 3. This report should be read in conjunction with the Desk Study Report (Ref. 1), the Geotechnical Interpretative Report (Outline Design) (Ref.2), the Factual Ground Investigation Report (Ref.3) and the Contaminated Land report (Ref.4), all of which were produced by HCL.

Energy Plant Buildability:

- 4. The bulk earthworks operation on the site would be the excavation associated with the RLDP. The excavation would house the Main Building with ramped accesses on the western and eastern perimeters. In order to prevent groundwater entering the excavated area and to provide stability to the excavation, a retaining wall solution e.g. sheet piles, secant piles or diaphragm wall, would be developed around the perimeter of the excavated area.
- 5. The retaining wall would be constructed to a depth of approximately 10m below ground level. The construction of the retaining wall is likely to take up to 8 to 10 weeks with the excavation works commencing during the retaining wall construction. The entire process of piling and excavation is likely to last approximately 14 to 16 weeks, depending on the appointed contractors programme and earthworks plant used.
- 6. The site is overlain by a shallow depth of made ground (generally 1 to 2.5m but with occasional localised areas to a greater depth), the material beneath the made ground comprises Clays to a depth of approximately 8m below ground level with Mercia Mudstone encountered between 8 and 10m below ground level. The dimension of the main excavation would be approximately 130m by 70m in plan and 8m deep. The excavation would therefore result in approximately 72,000m³ of material. The made ground element of the excavated material 9 approx 12,000 m³) would need to be treated/screened on site, suitable material would be put aside for re-use in the works with any excess or unsuitable material being exported off site.
- 7. Approximately 60,000m³ of Clays would be excavated and we understand moved off site for reuse. The movement of material would ideally originally be within the site boundary although there may be a need to transport the material via lornes on the roads to a place of storage for potential brick making / reuse. This process of assessment, stockpiling and storage on and off site is a critical part of the earthworks operation. As such, it is considered that a geotechnical engineer will be required full time onsite during this process to make the assessments and by working with the contractor's earthworks team ensure maximum utilisation of plant and available land area is achieved.

Energy Plant Buildability (Continued):

- 8. The preliminary site investigation did not lidentify significant flows of shallow groundwater, therefore it is considered unlikely that there would be a need to pump large quantities of water from the excavation. However, if pumping is required then the water would be discharged into settlement lagoons prior to onward controlled discharge into the watercourse which flows through the site.
- 9. The settlement lagoons would be designed in line with best practice guidelines outlined in CIRIA C532 Control of water pollution from construction sites. Discharge consents would need to be obtained from the Environment Agency in advance of the works. Other key earthworks on the site would include excavations associated with utility and drainage runs, watercourse diversion, detention basins, strip foundations for the ancillary buildings and ground preparation for external hardstanding areas.
- 10. It is currently considered that basal pressure relief wells should be installed into the base of the proposed excavation with valves installed to control groundwater influences both during the site life and post operations. More detailed information is required to discuss further due to the small site and complexity of the development. The temporary and sequencing works are to be discussed further with the appointed Principal Contractor for the scheme.
- 11. The earthworks are expected to take in the order of four months to excavate, separate, treat, stockpile and finally remove, the material to initially be separated into made ground and natural ground. The made ground should be further separated, treated and stockpiled into re-usable material and unsuitable material for disposal with the piling operations running concurrently. The sequencing of works, the use of available space and overall programme will be dependent upon the plant and construction staff availability which are to be discussed further with the appointed Principal Contractor for the scheme.

Engineering Considerations (structures outside the deep excavation):

- 12. Shallow (strip / pad) foundations will be suitable for most structures, with foundations taken down to at least 300mm below any Made Ground soils into the underlying natural soils. Recommended safe net bearing pressures for preliminary design are provided within the report for foundations placed at 1m, 2m and 3m depth in either superficial soils or weathered Mercia Mudstone to limit post-construction total and differential settlements to 25mm and 15mm respectively.
- 13. The underlying soils are clays with a high to medium volume change potential. Consequently, a minimum foundation depth of 0.90m should be adopted to prevent potential problems associated with the seasonal shrinkage and swelling of the clay soils. Across much of the site, however, the thickness of made ground will result in shallow foundations being at greater depth than this minimum requirement. In the vicinity of existing, proposed or recently removed trees, the foundation depth will need to be increased in accordance with the guidelines given in NHBC Chapter 4.2 'Building Near Trees'. Related to this recommendation, it is understood that several high water demand species trees used to be present in the centre of the site, which may necessitate the use of a pile or a raft foundation solution for units in their immediate vicinity. Further detailed review of moisture content and tree root depth will be required of the soils as part of the construction phase investigation.

Engineering Considerations (structures outside the deep excavation): cont.

- 14. Formation soils should be carefully inspected by a suitable qualified / experienced person to identify the nature of the formation stratum (e.g. whether made ground, superficial soils or weathered Mercia Mudstone) and/or the presence of any soft/loose zones. Any such zones should be over-excavated and replaced with a well-compacted well-graded granular fill or lean mix concrete.
- 15. The superficial soils and weathered Mercia Mudstone strata are likely to be very susceptible to softening in the presence of excess water. Consequently, it is crucial to ensure that proposed formations are not exposed to significant and/or prolonged rainfall. For structures imposing higher loads and/or with more stringent recommended. Bored, augered or driven piles would be suitable in these soils, though pile type selection should take cognisance of the presence of buried large obstructions in the made ground soils. Consideration also should be given to the requirement to dispose of arisings comprising (in part) made ground soils if non-displacement piles are adopted.
- 16. Suspended floor construction is likely to be appropriate for most structures, because of the presence of made ground and/or medium shinkage potential cohesive soils. For structures not in close proximity to existing, proposed or recently removed trees and where the made ground is of limited thickness, it may be economic to excavate out the made ground and re-compact it to a suitable engineering earthworks specification and then utilise a ground bearing floor.
- 17. For larger structures, where suspended floors are uneconomic, an excavation and recompaction solution is likely to be the most favourable and cost-effective though consideration could be given to combining a suitable method of ground treatment (e.g. vibro-stone or vibro-concrete columns) with a ground bearing slab.
- 18. In the ground investigations, groundwater was generally encountered as seepages from within the made ground or just below its interface with the natural soils. Some of these instances may be perched waters within the made ground soils, though some may be in hydraulic continuity with the stream flowing through the site.
- 19. Groundwater monitoring indicates seepages are likely in excavations below 1.0-2.5m and appropriate provisions for groundwater control should be anticipated in this respect. With the exception of localised large pieces of rubble within the made ground soils, excavation for the construction of shallow foundations etc. should be possible using conventional hydraulic excavators.

Engineering Considerations (deep excavation area):

- 20. The base of the excavation is approximately at the interface between weathering Grade IIII and Grade II material, and bearing capacity may be limited more by the drained shear strength and settlement characteristics of the underlying soils than undrained shear strength. A safe net bearing pressure of 500kN/m2 is recommended for preliminary design based on published literature, though this will need to be confirmed depending on groundwater control measures incorporated into the permanent works design.
- 21. Although pronounced variability in the formation soils is less likely at this depth, they should be carefully inspected by a suitable qualified / experienced person to identify the presence of any weaker zones (particularly in areas of anticipated high structural loads). Any such zones should be over-excavated and replaced with lean mix concrete.

Continued ./...

Engineering Considerations (deep excavation area): cont.

- 22. The low plasticity soils are likely to be very susceptible to softening in the presence of free or standing excess water and it is crucial to that excavations for structural foundations are covered without delay (e.g. with blinding concrete) to prevent softening by any water that may enter the excavation.
- 23. Excavation for the deep basement should be relatively straight-forward using conventional hydraulic plant, though towards the base of the excavation plant capable of 'hard digging' may be required, and localised use of plant capable of 'easy ripping' may be required in the more competent bands of harder mudstone and sandstone.
 - Detailed discussion is provided in the report for various options of excavation support and groundwater control for the deep excavation area in the temporary works and permanent works condition. For the purposes of design, the water table classification (BS 8102 : 2009) should be regarded as 'high', and it is anticipated that a Grade 2 environment performance level is appropriate.
- 24. The presence of a high groundwater table and potential localised artesian water pressures just below the proposed excavation formation level, are critical issues to the design of any temporary works, the permanent basement walls and groundwater control measures. Although a number of potential options are feasible, the ultimate decision will involve a detailed assessment of practical buildability relative to the cost for all the methods, the following recommendations are provided:
 - A solution involving some form of cut-off wall is favoured over open excavation, not only to
 control lateral groundwater inflow but also to limit the extent of any peripheral groundwater
 drawdown. This form of solution can be combined to form Type 'B' 'structurally integral
 protection' to the permanent works basement, but is likely to make construction using a
 monolithic R.C. box less cost-effective.
 - The stiffness of the soils at depth is likely to preclude the use of sheet piles, and a secant pile or diaphragm wall is considered more suitable, especially when considering both temporary and permanent solutions. It is likely that these walls will need to be propped with struts or anchors (though in the early temporary works case the use of soil berms could be considered), which would have the benefit of reducing the internal steel reinforcement and/or the toe embedment depth required.
 - The installation of pressure relief wells is considered to represent the simplest and most costeffective way of controlling the risk of heave at the base of the excavation due to hydraulic
 uplift. These could be incorporated into the permanent works design of the basal slab to
 control hydraulic uplift and form part of the Type 'C' drainage protection measures.
 - The design of the basal slab needs to take cognisance of the potentially very high long-term hydraulic pressures to prevent the risk of catastrophic heave which might then lead to failure of the surrounding retaining walls. Based on preliminary data available to date, in the absence of any groundwater control measures these pressures could be of the order of 90kN/m² at the proposed formation level. The size and geometry of the proposed basement structure, means it is very unlikely that these forces can be accommodated by shear resistance on the side walls, and it is recommended that outline design comprises a combination solution of basal pressure relief wells, thickened basal slab and (if required) supplementary ground anchorages and/or tension piles.

Engineering Considerations (deep excavation area): cont.

Groundwater regime aspects will have very significant implications on the cost of the design and construction of the deep basement. Consequently, as part of the ground investigation to provide data for detailed design, it is imperative that sufficient instrumentation and monitoring of the groundwater regime is undertaken to provide data for economic and safe construction. It is anticipated that this will include some form of pumping test with the installation of vibrating wire piezometers at discrete levels around the proposed structure, linked to datalogger systems to enable any fluctuations in groundwater levels and artesian water pressures to be ascertained and long term monitoring through the construction phase.

Re-use of Excavated Materials:

25. The majority of the soils likely to be excavated on the site are likely to be suitable for re-use as either landscape fill or general earthworks materials, it is important that the various stratum groups are appropriately segregated (particularly the made ground) to prevent the risk of cross contamination.

Preliminary test results indicate that the Superficial soils and Mercia Mudstone materials will be suitable for re-use as SHW Class 1 or Class 2 general fill (Class 1A, 2A/2B/2C depending on stone content and/or moisture content). The majority of these materials will fall into Class 2B dry cohesive, and very stiff/hard clay material excavated from deeper levels may need to be improved by the addition of water (via spray irrigation) to soften them sufficiently to facilitate adequate re-compaction.

- 26. Natural clay material from shallow depth may be too soft (wet) in its 'as-excavated' condition to be suitable for re-compaction as engineered fill, but (subject to further testing) it is likely these soils may be improved by the addition of lime (or cement) to render them suitable for re-use as engineered earthworks materials.
- 27. The Mercia Mudstone stratum soils are likely to be very susceptible to softening in the presence of free or standing excess water and it is crucial that any excavations are kept free of ponding water (if at all possible) and that excavation for material proposed for re-use as engineered materials is not undertaken during periods of prolonged and/or heavy rainfall.
- 28. A proportion of the material likely to be excavated from the basement area will comprise made ground soils. Preliminary laboratory tests undertaken in the GIP investigation indicates that the cohesive made ground soils would be suitable for re-use as general cohesive fill (though soft material may need to be improved) and granular made ground is likely to be suitable for re-use as Class 1 fill. All of the made ground soils will need to be carefully screened to remove unsuitable inclusions (e.g. timber, concrete blocks, textile, metal, etc).
- 29. Chemical testing indicates that the vast majority of the made ground soils are likely to be suitable for re-use, with the exception of one sample that provided unacceptably high levels of lead content. Consequently, as part of the detailed design ground investigation, additional testing of samples should be undertaken in this area to delimit the extent of this contamination. None of the soils likely to be won from site are likely to be suitable for re-use as selected (Class 6) fill material.
- 30. It is understood that enquiries have been made by Mercia Waste Management to companies to make use of the excavated natural clay materials for specialist re-use as brick manufacture and/or landfill site capping or as a general construction material. Should this become the agreed end use, this material will need selecting, stockpiling and transporting off site as part of the works.

Other Considerations:

Buried Concrete Classification: Buried concrete should be designed to Sulphate Design Class DS-1, ACEC Class AC-1s, as defined within the BRE guidelines.

Road Pavement Design Considerations: A preliminary subgrade CBR value of 2.5% is recommended for outline design. Because the subgrade soils will be very variable, the incorporation of appropriate geogrid reinforcement at the base of the pavement foundation is recommended to ameliorate any variations and enable the thickness of capping / sub-base to be reduced. Some of the likely subgrade soils are likely to be very susceptible to softening in the presence of excess water, so formations should not be exposed to significant and/or prolonged rainfall.

Soakaway Drainage: In-situ percolation tests indicate that soakways will not represent a suitable form of surface water disposal on this site.

31. Former Well: A possible well is detailed within the north eastern part of the site, in the previous ground investigation report, that is believed to be an open well full of water and brick rubble. It is not believed to have been stabilised and this will require further consideration prior to development. In particular, if the well is relatively deep, treatment involving grouting and capping may be necessary. Also, depending on the depth of the well and the backfill material, it may form a receptor for groundwater and should therefore be considered further in respect of groundwater contamination once additional information is obtained.

32. Construction Phase Ground Investigation:

An additional ground investigation is required to confirm the detailed design for the temporary and permanent works for the development.

These currently comprise a combination of ;-

- Deep excavations
- · Slope stability of the excavation
- Basal pressure relief wells.
- Thickened basal slab.
- Temporary and permanent water proofing of the structures
- Supplementary ground anchorages and/or tension piles.
- Shallow foundations for light structures
- Associated infrastructure
- Long term drainage

Clearly, to enable cost-effective and safe detailed design of these elements it is crucial that further appropriate ground investigation is undertaken to gain more detailed understanding of the groundwater regime beneath this site, specifically to determine the permeability of the materials to be excavated and to record the water levels both within and outside of the proposed excavation areas

As part of the ground investigation to provide data for detailed design, it is imperative that sufficient instrumentation and monitoring of the groundwater regime together with a pumping trial is undertaken to provide data for economic and safe construction.

Construction Phase Ground Investigation: cont.

In terms of the assessment of made ground and potential contamination plus obstructions within this strata, an extensive grid of trial pits will require excavating and suitable testing undertaken. Part of the investigation boreholes will be to 12mbgl to provide additional design information for pile and anchor design as well as being used for groundwater instrumentation.

It is anticipated that this will include the installation of vibrating wire piezometers at discrete levels around the proposed deep excavation structure, linked to datalogger systems to enable any fluctuations in groundwater levels and artesian water pressures to be ascertained. These will also be an utilised to assess a series of step tests and full pumping tests at, at least one, possibly two locations.

Ongoing gas and ground water monitoring would be required before, during and after construction; where possible wells should be located well away from the proposed construction area to prevent damage during the construction works to provide long term monitoring.

To achieve the detailed assessment of the made ground strata and its potential contamination and obstruction issues an extensive grid of trial pits will be required together with suitable contamination testing undertaken.

With regards the main excavation additional boreholes will be required, particularly to focus on the strength of the strata between 8 and 12 metres depth below ground level to provide additional detailed design information for pile and/or anchor selection and design of temporary and permanent works including groundwater control.

Hence the detailed construction phase investigation will consist of,-

Trial pits with contamination testing

Boreholes down between 15 to 20 metres with insitu testing and monitoring instrumentation for both ground water and gas.

Static cone Penetrometer testing with dissipation testing.

Drilling installation of between one to two pump wells.

Pumping tests.

At this time, prior to confirmation of planning and any conditions that might be applied which could affect the overall design of these ground investigation works we have not provided a detailed B of Q as this may be subject to change.

1 INTRODUCTION

Hyder Consulting (UK) Limited (HCL) has been instructed by Mercia Waste Management (Mercia) to provide a Construction Options report to address issues associated with the construction of the proposed 15.5MW renewable energy facility, located at the Hartlebury Trading Estate in Worcestershire.

The Construction Options report presents details relating to the proposed renewable energy plant construction covering aspects relating to the buildability of the plant, the associated temporary works, the structures within the deep excavation and outside of the deep excavation, works sequencing and anticipated construction programme. The report also summarises the outline design for the additional ground investigation works to provide supplementary information for the detailed design.

This report should be read in conjunction with the Desk Study Report (Ref. 1), the Geotechnical Interpretative Report (Outline Design) (Ref.2), the Factual Ground Investigation Report (Ref.3) and the Contaminated Land report (Ref.4), all of which were produced by HCL.

1.1 Background to the Proposed Development

The Joint Municipal Waste Management Strategy (JMWMS) for Herefordshire and Worcestershire, 2004-2034, has highlighted the need for dealing more effectively with the waste left over after recycling (referred to as 'residual waste').

In a review of the JMWMS undertaken by the Joint Members Waste Forum, a number of scenarios for managing residual waste were examined using a computer model called WRATE. Following this assessment, the option of a single site Energy-from-Waste plant with combined heat and power (CHP) capabilities was identified as the optimum solution, resulting in the Mercia EnviRecover 15.5MW renewable energy facility.

1.2 Objectives of the Report

The principal objectives of the report are to identify the main construction issues of the proposed renewable energy site. The report aims to:

- provide an assessment of the plant buildability;
- Discuss the temporary works condition, overall construction programme and works sequencing; and
- Comment on the structures both outside and within the deep excavation.

2 ENERGY PLANT BUILDABILITY

2.1 Temporary Works & Sequencing

The temporary works and sequencing of the plant construction will be determined by the appointed Principal Contractor; however these works are expected to be as follows:

The bulk earthworks operation on the site would be the excavation associated with the RLDP. The excavation would house the Main Building with ramped accesses on the western and eastern perimeters. In order to prevent groundwater entering the excavated area and to provide stability to the excavation, a retaining wall solution e.g. sheet piles, secant piles or diaphragm wall, would be developed around the perimeter of the excavated area.

The retaining wall would be constructed to a depth of approximately 10m below ground level. The construction of the retaining wall is likely to take up to 8 to 10 weeks with the excavation works commencing during the retaining wall construction. The entire process of piling and excavation is likely to last approximately 14 to 16 weeks, depending on the appointed contractors programme and earthworks plant used.

The site is overlain by a shallow depth of made ground (generally 1 to 2.5m but with occasional localised areas to a greater depth), the material beneath the made ground comprises Mercia Clays to a depth of approximately 8m below ground level with Mercia Mudstone encountered between 8 and 10m below ground level. The dimension of the excavation would be approximately 130m by 70m in plan and 8m deep. The excavation would therefore result in approximately 72,000m³ of material. The made ground element of the excavated material (approx 12,000m³) would need to be treated/screened on site, suitable material would be put aside for re-use in the works with any excess or unsuitable material being exported off site.

Approximately 60,000m³ of Clays would be excavated and we understand moved off site for reuse. The movement of material would ideally originally be within the site boundary although there may be a need to transport the material via lorries on the roads to a place of storage for potential brick making / reuse. This process of assessment, stockpiling and storage on and off site is a critical part of the earthworks operation. As such, it is considered that a geotechnical engineer will be required full time onsite during this process to make the assessments and by working with the contractor's earthworks team ensure maximum utilisation of plant and available land area is achieved.

The preliminary site investigation did not identify significant flows of shallow groundwater, therefore it is considered unlikely that there would be a need to pump large quantities of water from the excavation. However, if pumping is required then the water would be discharged into settlement lagoons prior to onward controlled discharge into the watercourse which flows through the site. The settlement lagoons would be designed in line with best practice guidelines outlined in CIRIA C532 Control of water pollution from construction sites. Discharge consents would need to be obtained from the Environment Agency in advance of the works.

Other key earthworks on the site would include excavations associated with utility and drainage runs, watercourse diversion, detention basins, strip foundations for the ancillary buildings and ground preparation for external hardstanding areas.

It is currently considered that basal pressure relief wells should be installed into the base of the proposed excavation with valves installed to control groundwater influences both during the site life and post operations. More detailed information is required to discuss further due to the small site and complexity of the development. The temporary and sequencing works are to be discussed further with the appointed Principal Contractor for the scheme.

Provision for plant closure in the form of plant removal / disposal and ultimately the infilling of the deep excavation area with material to re-instate the ground back to the site's original condition needs to be considered and accounted for.

2.2 Overall Programme

The earthworks are expected to take in the order of four months to excavate, separate, treat, stockpile and finally remove, the material to initially be separated into made ground and natural ground. The made ground should be further separated, treated and stockpiled into reusable material and unsuitable material for disposal with the piling operations running concurrently. The sequencing of works, the use of available space and overall programme will be dependent upon the plant and construction staff availability which are to be discussed further with the appointed Principal Contractor for the scheme.

3 ENGINEERING CONSIDERATIONS (Structures Outside the Deep Excavation)

3.1 Shallow Foundation Design

The made ground soils across the site are highly variable in both content and engineering characteristics. The data available suggests that they have not been placed to any engineering specification, and therefore in their present condition their bearing capacity and settlement characteristics cannot be relied on. Consequently, they are not considered suitable as a reliable formation material for shallow foundations, and it is recommended all foundations are taken down to at least 300mm into the underlying natural soils.

Based on shallow strip or pad foundations with a formation in the superficial deposits, it is recommended that the following safe net bearing capacities are used for preliminary design:

Table 3.1: Recommended Preliminary Safe Net Bearing Pressures for Shallow Foundations (Superficial Soils)

Foundation Depth (m bgl)	Prel	iminary Safe Net	Bearing Pressure	(kN/m²)
	1.0m strip	2m x 2m Pad	2m x 2m Pad	3m x 3m Pad
1.0	100	125	115	110
2.0	125	150	145	140
3.0	160	190	185	185

For shallow strip or pad foundations with a formation in the weathered Mercia Mudstone stratum, where the increase in undrained shear strength with depth is greater and more reliable, the following preliminary safe net bearing capacities are appropriate:

Table 3.2: Recommended Preliminary Safe Net Bearing Pressures for Shallow Foundations (Weathered Mercia Mudstone)

Foundation Depth (m	Pre	sumed Safe Net E	Bearing Pressure	(kN/m²)
bgl) _	1.0m strip	2m x 2m Pad	2m x 2m Pad	3m x 3m Pad
1.0	100	125	115	110
2.0	160	190	185	175
3.0	215	255	245	245

The bearing pressures provided above assume that the acceptable post-construction total and differential settlement does not exceed 25mm and 15mm respectively.

Because the underlying soils are indicated to be high to medium plasticity clays with a high to medium volume change potential, a minimum foundation depth of 0.90m should be adopted to prevent potential problems associated with the seasonal shrinkage and swelling of the clay soils based on NHBC guidelines (including climate zone correction). Across much of the site, however, the thickness of made ground will result in shallow foundations being at greater depth than this minimum requirement.

In the vicinity of existing, proposed or recently removed trees, the minimum foundation depth will need to be increased in accordance with the guidelines given in NHBC Chapter 4.2 'Building Near Trees'. This depth will be a function of the tree species and height and/or mature height depending on whether it has been recently (or is to be) removed or proposed planting.

Related to this recommendation, from the previous GIP report, it is understood that several trees used to be present in the centre of the site, which included high water demand species such as oak and willow. Although these trees were removed some years ago, without further detailed investigation in these areas it is not possible to be certain that the soil moisture content profiles have equalised and that further volume change is no longer a potential problem. Consequently, until further data is available deeper foundations will be needed in these areas in accordance with the NHBC guidelines. In very close proximity to such former trees, this may necessitate the use of a pile or a raft foundation solution, depending on the nature of the structure, the anticipated structural loads and the presence (or absence) of made ground.

As a result of the variable ground conditions, the formation soils should be carefully inspected by a suitable qualified / experienced person to identify the nature of the formation stratum (e.g. whether made ground, superficial soils or weathered Mercia Mudstone) and/or the presence of any soft/loose zones. Any such zones should be over-excavated and replaced with a well-compacted well-graded granular fill or lean mix concrete.

The superficial soils and weathered Mercia Mudstone strata are likely to be very susceptible to softening in the presence of excess water. Consequently, it is crucial to ensure that proposed formations are not exposed to significant and/or prolonged rainfall.

3.2 Piled Foundation Design

For structures imposing loads and/or with settlement tolerances that cannot be accommodated by the shallow foundation recommendations made in section 3.1 above, piled foundations represent the most practicable foundation solution.

Bored, augered or driven piles would be suitable in these soils, though reference should be made to a reputable specialist piling contractor for advice on the most suitable and cost-effective pile solution in these soils, which should include the potential presence of buried large obstructions in the made ground soils.

In deciding the type of pile, consideration should be given to the requirement to dispose of arisings comprising (in part) made ground soils if non-displacement piles (bored/augered) are adopted.

Once the requirement for any structures to have piled foundations has been ascertained, because the engineering characteristics of the Mercia Mudstone stratum can be extremely variable both with depth and laterally, further ground investigation should be undertaken in the location of the specific structure upon the site. This will enable the detailed design of the pile foundation(s) to be optimised.

3.3 Floor Design

Floor design for units (other than the deep excavation area) will be dictated by:

- 1 The presence of near-surface non-engineered made ground soils, which could result in excessive settlement of ground bearing floors.
- The presence of high-medium shrinkage clay soils, which could result in potential heave of ground bearing floors.

Consequently, the following recommendations are made at this outline design stage.

- a. For structures underlain by made ground, a suspended floor is recommended.
- b. For structures not underlain by made ground but located within the zone of influence of existing, proposed or recently removed trees based on NHBC Chapter 4.2, a suspended floor is recommended.
- For structures not underlain by made ground and not located in close proximity to existing, proposed or recently removed trees a ground bearing floor is suitable.

Given the extensive cover of made ground across the site, it is considered that most structures will fall into category (a) above. However, in areas of the site not located in close proximity to existing, proposed or recently removed trees and where the made ground is of limited thickness, it may be economic to excavate out the made ground and re-compacted it to a suitable engineering earthworks specification and then utilise a ground bearing floor.

For larger structures that fall into category (a) or (b) above, where suspended floors are uneconomic, an excavation and re-compaction solution is likely to be the most favourable and cost-effective (depending on how much of the made ground needs improvement treatment to make it suitable for re-compaction). Alternatively, combining a suitable method of ground treatment of the made ground soils (such as vibro-stone or vibro-concrete columns (VSCs/VSCs)) with a ground bearing slab may represent the more economic and lower risk solution.

3.4 Groundwater Considerations

In the ground investigations, groundwater was generally encountered as seepages from within the made ground or just below its interface with the natural soils. Some of these instances may be perched waters within the made ground soils, though some may be in hydraulic continuity with the stream flowing through the site.

Monitoring of the groundwater installations indicates water levels in the range1.0-2.5m below existing ground level (m begl).

On this basis, appropriate provisions for groundwater control should be anticipated in this respect.

3.5 Excavatability

With the exception of localised large pieces of rubble within the made ground soils, excavation of the trial pits using conventional hydraulic excavators was achieved without any difficulty. Therefore, excavation for the construction of shallow foundations etc. should not require specialist ripping plant, though progress below 3.0m will reduce once the stiff/very stiff soils.

4 ENGINEERING CONSIDERATIONS (Deep Excavation Area)

4.1 Foundation Design

For the proposed deep excavation associated with the Energy-from-Waste Plant at a depth of approximately 8m below existing ground level (≈39.8mOD), the investigation data indicates the formation to be in Mercia Mudstone material with an SPT 'N' value ≈80 for which an estimated equivalent undrained shear strength of 500kN/m². Based on table 3.3 of CIRIA C570 (Ref.5) this places the base of the excavation approximately at the interface between weathering Grade III and Grade II material. As a result, bearing capacity may be limited more by the drained shear strength and settlement characteristics of the underlying soils than undrained shear strength. On this basis, until more detailed data is available on the strain characteristics of the soils at very high stress levels, it is recommended that a safe net bearing pressure of 500kN/m² is used for preliminary design as indicated by table 8.2 of CIRIA C570 and table 2.3(b) of Tomlinson (Ref. 7).

Although pronounced variability in the formation soils is less likely at this depth, they should be carefully inspected by a suitable qualified / experienced person to identify the presence of any weaker zones (particularly in areas of anticipated high structural loads). Any such zones should be over-excavated and replaced with lean mix concrete.

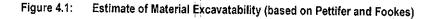
The low plasticity of the less weathered Mercia Mudstone stratum soils means they are likely to be very susceptible to softening in the presence of free or standing excess water (even the weak mudstone variants). Consequently, it is crucial to ensure that any excavations for structural foundations are covered without delay (e.g. with blinding concrete) to prevent softening by any water that may enter the excavation.

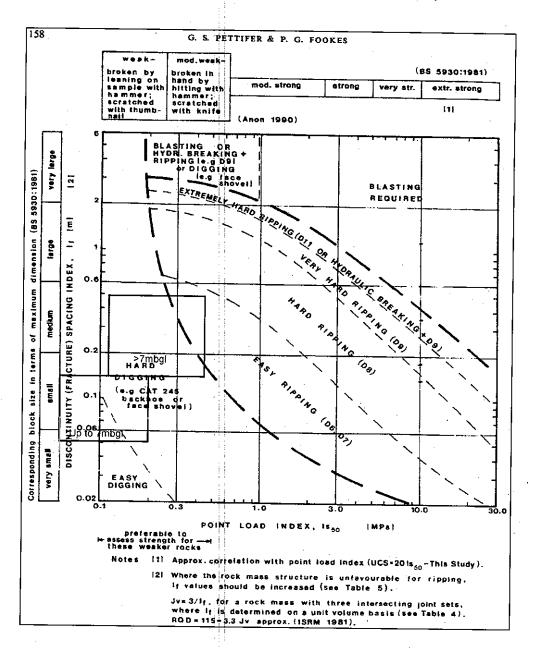
4.2 Excavatability

The proposed floor level of the EnviRecover incinerator will be constructed at a formation level of approximately 8m begl (≈39.8mOD), and is likely to require excavation to depths in excess of 9m begl for construction of the slab structure etc.

From the ground investigation it has been identified that the excavation will be predominantly into material ranging from (typically) firm clay (undrained shear strength of 50kN/m2) to very weak/weak mudstone at 9.0m depth (undrained shear strength varying widely between ≈400kN/m2 - ≈1600kN/m2).

In general, excavation through these materials should be relatively straight-forward using conventional hydraulic plant (see Figure 4.1 based on the work by Pettifer and Fookes, Ref. 8). However, towards the base of the excavation, plant capable of 'hard digging' may be required, and localised use of plant capable of 'easy ripping' may be required in the more competent bands of harder mudstone and sandstone.





4.3 Excavation Support and Groundwater Control Considerations

4.3.1 General Design Considerations

The cost-effective design of the deep excavation area will require the structural design, overall weatherproofing design, waterproofing design and construction processes to be considered together, because of the close interaction of these crucial design elements. Similarly, strategies for controlling groundwater, soil gases and contaminants need to be considered as early as possible in the planning and design process to ensure project success.

Protection against water ingress from the following sources need to be considered in the basement design:

- a. inflow of surface water (e.g. rainfall, surface water runoff, burst adjacent water main);
- water pressures acting on the external retaining wall system (lateral groundwater pressures);
- c. water pressures below the base slab (hydrostatic uplift pressures).

For each of these cases, the water-resisting design needs to provide sufficient protection against a pre-determined head and/or volume of water.

4.3.2 Waterproofing Protection

Waterproofing protection of a basement construction typically utilises one or a combination of the following types of protection measure:

- a. Type A (barrier) protection;
- b. Type B (structurally integral) protection;
- c. Type C (drained) protection.

The decision on the best type of protection (or combination of protections) needs to consider the following:

- 1. The category of basement involved;
- 2. The water table classification and required performance level required;
- 3. Any need for combined protection;
- 4. The need (or otherwise) for continuity in the protection;
- 5. Practicality of construction;
- 6. Cost.
- 7. Risks to construction programme.

Basement Category

Given that the excavation will comprise an excavation approximately 8-9m deep and be subject to hydrostatic pressures, it should be categorised as 'deep' based on CIRIA Report 140 (Ref.13).

Water Table Classification

Based on Table 1 of BS 8102 : 2009 (Ref.11), the water table classification is 'high' because the water table (or perched water table) is assessed to be permanently above the underside of the base slab.

On this basis a Type 'A', 'B' or 'C' waterproofing protection system is acceptable provided:

- A Type 'A' (barrier) protection system (only) utilises an appropriate cementitious multicoated render (or cementitious coatings) are used and the wall is of concrete to BS EN 1992.
- A Type 'B' (structurally integral) protection system (only) utilises either a reinforced concrete wall to BS EN 1992, or a piled wall that:
 - is directly accessible for repair and maintenance from inside the structure;
 or
 - (ii) is combined with a fully-bonded waterproofing barrier (i.e. Type 'A' protection); of

(iii)is faced internally with a concrete wall to BS EN 1992.

Performance level Required

Based on Table 2 of BS 8102: 2009, it is anticipated that the proposed structure for this development falls into 'Grade 2' that requires a performance level whereby no water penetration is acceptable but damp areas are tolerable and ventilation might be required.

This basement grade approximates to the former Grade 2 'better utility' protection of BS 8102 : 1990, with typical usage as a workshop, plant room or storage area.

Type 'A': Tanking Protection

Type 'A' protection is designed to provide a continuous barrier system which excludes water and/or water vapour and may exclude gases. Its reliability is reliant on the formation or adequate joints (where sheet systems are used), the prevention of damage during construction and achieving a satisfactory bond to the substrate.

Generally, the main structure to be 'tanked' needs to be monolithic with a minimum of movement (especially transverse) at joints. Consequently, for large deep basements with a permanent hydrostatic head (such as this development), tanking is only practicable if combined with a reinforced box construction (except where walls are cast onto sheet piling), which limits the options with respect to temporary works excavation stability with potential consequences to construction cost and/or programme. As result, such basements would normally be designed to resist water penetration (Type 'B' protection).

Type 'B': Structurally Integral Protection

Type 'B' protection relies on the ability of the structure, by itself, to minimise water penetration. As a result, where practicable these basements are usually constructed as a reinforced concrete box designed to resist hydrostatic pressure (and other loadings).

Because the level of protection with this option relies on the design and construction of high-quality concrete (with cracking controlled to prevent the penetration of moisture to an acceptable degree), the degree of water (and vapour) resistance achievable generally increases with construction costs. In practice, complete (or a high-level of) environment control cannot be guaranteed using Type 'B' protection alone using any retaining construction method.

In general, retaining solutions with a large number of joint interfaces (e.g. piled walls) are more likely to result in water penetration, and in such circumstances it may be more practical to accept some water penetration and design a system of combined protection incorporating a Type 'A' (barrier) protection (e.g. internal RC lining wall) and/or Type 'C' precautions..

Options for various retaining solutions are discussed further in section 4.3.3 below.

Type 'C': Drained Cavity Protection

Type 'C' protection involves the incorporation of drained cavities to the structural walls and/or floor to collect any moisture that penetrates and discharge it to a sump. Consequently, the inner wall to drained cavities is generally non-load bearing and may need to be designed to be free-standing. The cavity should not be used to conceal large leaks.

Cavities under floors can be formed using no-fines concrete (if the seepage inflow is relatively slight) or proprietary systems (e.g. profiled drainage sheets).

Based on CIRIA Report 139 (Ref. 12) the principal advantages of drained protection are:

- Less dependent on primary construction processes, which may be more difficult to control, and hence this protection system may be more reliable in achieving the required environment.
- Installation may be undertaken in more favourable conditions outside the construction programme critical path.
- Water ingress through the primary structure may be checked and remedied before final installation of the inner wall.
- The principal disadvantages are:
- Reduction in useable floor area.
- Pumps will need to be installed to remove accumulated water.
- If the outer skin is of masonry or plain concrete, under a high hydrostatic pressure (which may be the case with this development), water may penetrate in excessive quantities which may not be efficiently drained.
- Access to the external wall for repair is prevented after the inner wall has been built.
- Long-term costs operation and maintenance costs (e.g. pumps, cleaning of cavities).

4.3.3 Basement Perimeter Wall Construction Options

There are a number of options available to form the basement perimeter walls to form Type 'B; protection and range from temporary support methods, which allow 'traditional' construction techniques to be adopted (e.g. monolithic R.C. box structure), to wall types that can be used for temporary and/or permanent works. Methods of basement construction that can be incorporated into the permanent works, using reinforced concrete, include:

- Steel sheet pile wall
- Contiguous bore pile wall.
- Secant pile wall
- Hard/soft pile wall
- Diaphragm wall.

The considerations for each of these methods is summarised as table 3.4 of CIRIA Report 139 and IStructE report on the Design and Construction of Deep Basements, 2004 (Ref.9), and is condensed in tables 4.1 to 4.3 below.

Table 4.1: Suitability of various wall types to form a water-retaining barrier.

Stabilisation/ Wall Type	Suitability as a Wa	ter-Retaining Barrier
	Temporary Works Condition	Permanent Works Condition
King Post Wall	Not suitable	Not suitable
Sheet Piled Wall	Suitable ⁽¹⁾	Suitable ⁽²⁾
Contiguous Piled Wall	Not suitable	Not suitable
Secant Piled Wall		
Hard / Soft	Suitable	Not usually suitable
Hard / Firm	Suitable.	Suitable ⁽²⁾
Hard / Hard	Suitable	Suitable ⁽²⁾
Diaphragm Wall	Suitable	Suitable ⁽²⁾
	-	-l

Notes:

- (1) Some form of seal between sheets may be required depending on water pressures encountered. Potential de-clutching in coarse-grained soils may affect performance.
- (2) Structural facing and/or drained cavities should also be provided for high-grade substructures/basements.

Table 4.2: Wall types for temporary and permanent soil support in basement construction.

Wall Construction (and brief description)	Temporary/ Permanent Support	Typical Wall depth	Typical Retained Height	Groundwater Control	Advantages	Disadvantages	Remarks
Steel Sheet Piling (can be used in combination with steel tubular piles to form combi-wall if increased flexural strength is required)	Temporary or 10 to 15m (but permanent Support dependent on driveability) Max pile length	10 to 15m (but very 8 to 12m as single dependent on propped well driveability) Max pile length 30m	8 to 12m as single propped wall	Wall can be designed to form a barrier to water	Can provide an economic solution. If used in the temporary case, sheet piles could be re used on completion.	Vibration and noise. Risk of declutching by obstructions. Considered very unlikely that sufficient embedment could be achieved.	Large embedment will be required for sheet piles to resist retained soil and water levels. The ability to achieve this embedment within the bedrock
Contiguous R.C. piles (closely spaced bored in-situ concrete piles installed by Continuous Flight Auger (CFA)	Temporary and permanent support	12 to 20m	6 to 15m, propped or anchored	Not a water resistant wall. Additional groundwater control measures required in the temporary and permanent case such as facing with a reinforced concrete wall.	Economic when installed using CFA equipment. Minimal noise and vibration.	May not be appropriate where free groundwater fow is present. Additional thickness of overall wall construction to achieve water-exclusion with be considered when considering	remains a significant risk them Unikely to provide an appropriate solution for this basement structure in the permanent case due to the presence of free draining water from fissures in the mudstone.
Secant R.C. Piles, Hardison or Hardifim secant (formed by installing over-lapping concrete piles. Male piles cut through the female pairs to form a solid wail)	Temporary and permanent support	12 to 20m propped or anchored	6 to 15m	Only water resistant in the short term Favourable option in granular or wate unless stronger mixes of concrete are bearing soils where contiguous piles are unsatisfactory.	Only water resistant in the short term Favourable option in granular or water utiless stronger mixes of concrete are bearing soils where contiguous piles used for female piles	availatie area. Limited durability unless a stronger mix of concrete is used for female piles.	Recommended as an option (for temporary and permanent support) further consideration. Assessment of durability required.
Diaphragm Wall (stury- supported trenct operations filled 'femporary, will be with tremled concrete)		15 to 30m	12 to 25, propped or anchored	Water retaining	Wall surface may serve as the final finished surface. Water retaining	Minnum lob size influenced by large mobilisation and demobilisation costs. Solution is appropriate for variable soil conditions.	Recommended as an option (for- impoding value) further consideration. Assessment of durability required.

Table 4.3: Considerations of various basement construction types.

				Primary	Secondary	ï
R.C. Box	Open Excavation	Monolithic	Integral	Low permeability concrete	Low permeability concrete Type 'A': External membrane	
R.C. Box	Temporary steel sheet piling Monoithic	Monolithic	Integral	Low permeability concrete	Low permeability concrete Type C: Disined protection	Large embedment will be required for sheet piles to resist
Steel sheet plling	Excavate after installation	Become struts	Concrete facing	Weld joints	Type 'C: Drained protection	refained soil and water levels. The ability to achieve this embedment within the
;						Dedrock remains a significant risk item
Contiguous piles	Excavate after installation	Become struts	Substantial facing	Substantial facing	Type 'C': Drained profection	
Secant piles	Excavate after installation	Become struts	Facing	Facing	Type 'C' Draibed omtection	
Diaphragm wall	Excavate after installation	Become struts	As cast or faced	Low permeability concrete	Low permeability concrete Type C: Drained protection	

Comment(s)

Resistance to water / Vapour Penetration

Walls

Floors

Construction Method

Construction Type

As may be apparent from table 4.2 and 4.3 above, a decision whether to rely entirely upon structurally integral (Type B) protection is crucial to the design and cost-effective construction of the basement.

Requirements for Deep Excavation Support (Temporary and Permanent Works)

In general, excavations in unweathered (Grade I) Mercia Mudstone give few stability problems when dry (though normal supports for excavations need to be provided or the side battered to a safe slope). However, CIRIA C570 states that "difficulties can occur when ground water inflows are allowed to soften the mudstone" and "a good knowledge of the ground water regime is thus essential before starting to excavate."

Excavation in the more weathered materials (Grades II – IVb) presents even more difficulties, when seepages from more sandy horizons can create internal erosion and potential failure of unsupported faces in excavations.

Vertical excavations will not remain stable for any length of time, and some form of support will need to be provided in the Temporary Works and Permanent Works situations. Therefore, excavation faces in these soils will need to be either battered back to a gradient that has adequate stability during the construction phase or supported by some form of retaining solution.

Given the high ground water levels present at this site (circa 1.0-2.5m begl) it is crucial that any stability support considerations incorporates appropriate ground water control systems to maintain adequate support in the short-term (Temporary Works condition) and the long-term (Permanent Works condition).

Monolithic Box Construction

This option involves structurally integral reinforced (or possibly pre-stressed) concrete floors and walls within open excavation or some form of appropriate temporary support mechanism. At this site, temporary works options could include:

- Open cut excavation
- Steepened slope open cut excavation.
- Contiguous piles

Whilst ordinarily steel sheet piles would also be considered suitable for temporary works support, given the large embedment likely to be required for the sheet piles to resist retained soil and water levels (even if appropriately strutted/anchored), the ability to achieve this embedment within the bedrock remains a significant risk item.

As discussed above (and tables 4.1 to 4.3) each of these options will require some additional form of groundwater control in the temporary works case, to maintain stability and/or facilitate construction. Temporary works support using secant piles or diaphragm wall would also be suitable (and could be constructed to provide sufficient groundwater control), though it is more likely that the cost-effective solution in these instances is to use the wall as the Type 'B' groundwater control mechanism in the Permanent Works case also.

Open cut excavation is applicable where the site has room to accommodate a safe soil batter (which is a function of the soil strength, groundwater conditions and appropriate analysis/risk assessment of the consequences of slope failure). A de-watering system will be required to depress the groundwater levels during construction period.

A reduced plan area of excavation could be achieved by increasing the inclination of the open cut excavation by using crib walls, gabion walls or soil nails/anchors. Whilst at first glance this option may appear expensive, given the depth of excavation required for this project, it may prove cost-effective relative to the requirements to provide lateral support to a vertical excavation method.

For this proposed development, given the relatively high groundwater level, the additional groundwater control measures and/or excavation volume is likely to make this option less cost-effective.

Steel Sheet Pile Wall

Steel Sheet Pile walling involves a series of interlocked steel sheet panels driven into the ground to provide structural support and (if required) a groundwater cut-off to the excavation.

The depth of excavation for this proposed development will be too high for a sheet pile wall to work in pure cantilever, and some form of additional lateral support will be necessary. This could take the form of temporary struts with waling beams, temporary/permanent anchors with waling beams, or temporary soil berms on the inside of the excavation.

Lateral groundwater control (both temporary and permanent) could be achieved by welding the joints between sheets, though in the permanent works condition the incorporation of an inner low-permeability concrete wall and/or Type 'C' drainage protection.

For this proposed development, even allowing for appropriate struts / anchors to reduce the necessary toe embedment required to achieve adequate wall stability, based on the SPT 'N' profile it is doubtful that the sheets can be driven to sufficient depth for this retention option to work, though it would be prudent to discuss this with a reputable specialist contractor prior to detailed design.

Contiguous Pile Wall

Contiguous piled walling involves a series of closely spaced bored in-situ concrete piles (installed by auger or continuous flight auger (cfa)). It tends to be used in clay soils where free-groundwater is limited.

By its very nature, this form of construction does not exclude groundwater inflow into the excavation and therefore:

- In the Temporary Works condition, additional groundwater control measures will be necessary and/or the gaps between piles plugged with in-situ concrete or jet grouting.
- In the Permanent Works condition, a substantial facing (e.g. Type 'B' R.C. wall) and/or drainage protection (Type 'C') will be required.

For this proposed development, the relatively high groundwater level, additional groundwater control measures and/or space required to accommodate an inner R.C. wall is likely to make this option less cost-effective.

Secant Pile Wall

Secant piled walls replace the requirement for 'structural' internal walls by installing augered and cased (or cfa) piles that are over-lapped to form a line of intermarried piles with a good structural bond. True secant walling (oscillator-formed piles) is accepted as a reasonable alternative to diaphragm walling in terms of forming a 'watertight' barrier, whilst pseudo-secant piled walls are not considered to be so effective.

The initial (female) piles may be concreted with 'normal' mix concrete (to form a hard-hard secant wall) or with a weaker grade concrete allowing the later (male) piles to cut into the female piles with less effort (hard-soft secant wall) thereby creating less deformation and potentially a more watertight interlock. Walls with an intermediate strength female pile component are also used (hard-firm secant).

Secant piles are usually preferred in granular water-bearing soils, which may be present in localised discrete horizons in this proposed excavation.

Hard-soft secant pile walls, installed by cfa rigs, often provide a competitive solution for temporary and permanent soil retention in water-bearing free-draining soils, though the cost and time required to install guide walls for secant pile installation should also be taken into account.

Secant pile walls can either be constructed in pure cantilever or, if required, incorporating lateral support in the form of (temporary or permanent) struts / anchorages or temporary soil berms to reduce the internal steel reinforcement and/or the toe embedment depth.

Diaphragm Wall

Diaphragm walls involve the use of a slurry-supported trench filled with tremied concrete to provide a wall for both temporary and permanent soil retention. They are well-suited to situations that require large-dimension wall sections and are appropriate for permeable and impermeable soils. Care needs to be taken in detailing the interlock between diaphragm panels, and with the implications of wall construction tolerances.

Diaphragm walls can either be constructed in pure cantilever or, if required, incorporating lateral support in the form of (temporary or permanent) struts / anchorages or temporary soil berms to reduce the internal steel reinforcement and/or the toe embedment depth.

Recommendation(s)

- Based on the preliminary data available, it is considered that the most practicable solution to the basement perimeter wall construction is either a secant pile or a diaphragm wall. Both these form of wall will provide support in the temporary and permanent stages, with a reasonable level of Type 'B' water-exclusion.
- Depending on more detailed groundwater analysis, consideration will need to be given to the incorporation of appropriate Type 'C' drainage protection measures into the design, though this carries long-term disadvantages as detailed in 4.3.2.
- Depending on the design detailing, if required, consideration could be given to incorporating lateral support to the retaining wall in the form of (temporary or permanent) struts / anchorages or temporary soil berms to reduce the internal steel reinforcement and/or the toe embedment depth.

- An alternative proposal would be the adoption of a monolithic box construction. This would enable Type 'A' barrier protection to be incorporated into the design thereby negating the long-term disadvantages of a Type 'C' drainage protection system. However, it would require more elaborate and expensive groundwater control measures particularly in the temporary works condition if constructed in open cut. As discussed below, the most effective groundwater measures may represent some form of cut-off wall (e.g. diaphragm wall).
- Given that the costs of excavation and construction to the proposed depth are likely to be considerable (whichever construction methodology is utilised), an alternative proposal would be to reduce the depth of excavation required (if possible) by selecting alternative plant for the energy recovery processing.

4.3.4 Groundwater Control Considerations

As detailed above, an understanding of the groundwater regime is crucial to cost-effective design of the proposed construction of both the temporary and permanent works.

The preliminary ground investigation has identified a groundwater table varying between ≈44.5mOD and ≈46.8mOD (average ≈46.0mOD), with a slight hydraulic gradient from north to south across the site. In general, groundwater strikes occurred as discrete seepages from the made ground soils (possibly perched groundwater) and seepages/inflows through fissures in the weathered Mercia Mudstone stratum.

In addition to the above data, as discussed in section 4.3 'Groundwater Hydraulics', BH20 encountered potential confined groundwater conditions with potential artesian water pressures at a depth of approximately ~13.0 to 16.0m bgl (≈34.8-31.8mOD).

Groundwater will influence the design and construction of the basement and its excavation in the following ways:

- Increased lateral forces on any excavation retaining walls.
- Increased instability of any open cut excavation(s).
- Requirements for groundwater exclusion / control in the permanent works (as discussed above).
- Requirements to prevent heave of the excavation (temporary works) and/or floor slab (permanent works).

On the basis of the existing groundwater data, assuming an excavation depth of ≈9.0mbegl (38.8mOD), in the absence of any de-watering measures the walls to the basement excavation may have to withstand ≈8-9m head of water and the floor slab a hydraulic uplift pressure of ≈90kN/m². Based on the highest artesian pressure measure to date in BH20 of ≈48.7mOD, this equates to an hydraulic uplift pressure of ≈139kN/m² at 34.8mOD below the base of the excavation with ≈4m of overburden (≈80kN/m²) in the temporary works condition and 104kN/m² in the permanent works condition (assuming 1.0m thickness slab and no plant loadings).

Therefore, on the basis of the existing groundwater data and present proposed excavation depth, the excavation for and construction of the floor slab needs to accommodate either some form of groundwater de-watering measures and/or structural measures to prevent hydraulic uplift (heave) in the temporary and permanent works conditions.

Pumping From Sumps

Whilst pumping from sumps is the most widely used form of groundwater control, in the context of this site with deep excavation combined with high head of water its use to control groundwater to facilitate open cut or contiguous piled wall excavation may only result in internal erosion and potential failure of unsupported faces / sections in excavations.

The greatest depth to which the water table may be lowered using this technique is generally about 6m, so the existing proposed excavation will require staged lowering of the pumping level and/or submersible deep-well pumping.

Pumping from sumps will also provide only limited contribution to alleviate hydraulic uplift pressures at the base of the excavation.

On its own pumping from sumps is unlikely to comprise an adequate form of groundwater control for the deep excavation though, as discussed below, it can be of use if combined with other forms of control (e.g. partial cut-off).

Well-pointing

Well-pointing involves lowering the groundwater table by installing a number of filter wells outside the excavation. It has the advantage that water is drawn away from the excavation face, thus increasing the stability of the sides and (potentially) permitting open cut excavation. However, unless also installed at a level below the base of the excavation this technique will provide little contribution to alleviate hydraulic uplift pressures at the base of the excavation due to any underlying zones of (sub-)artesian water pressure.

This methodology is also most effective in granular soils with moderate permeability, and is therefore unlikely to be particularly effective in the relatively impermeable cohesive soils underlying this site, where water ingress into the excavation is likely to be predominantly via fissures than mass (primary) permeability.

Creation of a cut-off

The adoption of a seepage cut-off around the perimeter of the excavation is likely to be feasible to control groundwater pressures beneath the excavation in the temporary works condition, particularly if combined with groundwater pressure relief / drainage wells on the inside of the excavation.

Because it will probably enable groundwater to be controlled within the limits of the excavation, the creation of a cut-off has other benefits when combined with some other form of de-watering:

- It will limit the extent of any potential drawdown effects on adjacent structures/vegetation beyond the excavation.
- Pumping volumes (and hence costs) may be considerably reduced (though the
 economics of this needs to be balanced against the costs of extra cut-off walling).

However, because the existing data suggest it will be difficult to create a total rather than a partial cut-off in the underlying strata, a cut-off solution on its own will not reduce potential hydraulic uplift pressures on the floor slab in the permanent condition unless combined with long-term groundwater pressure relief / drainage wells.

The creation of a cut-off lends itself to a diaphragm wall or secant piled wall form of construction solution.

Pressure Relief Wells

Given the relative low permeability of the underlying soils (even the localised potential artesian layer encountered in BH20), the installation of pressure relief wells probably represents the simplest and most cost-effective way of controlling the risk of heave of the base of the excavation due to hydraulic uplift. They comprise a series of boreholes (or trenches) filled with gravel constructed into the base of the excavation. These are then connected to a layer of coarse gravel at formation level, allowing water flowing up the wells to escape to a pumping sump.

The flow, and therefore the pressure relief, must be maintained while casting the base slab and until an appropriate solution to problem of basal heave in the permanent works condition is completed. Alternatively, they can be incorporated into the permanent works design of the basal slab to control hydraulic uplift and form part of the Type 'C' drainage protection measures.

Ground Freezing

Ground freezing may represent a potential method to control groundwater inflow during the construction phase. However, not only is it an extremely expensive form of ground treatment but it may also cause considerable heave in the near-surface silty clay soils, which may have a significant effect on the design of the adjacent structures.

Drilling and Grouting

The method involves drilling a series of holes around the perimeter (and base) of the excavation and infilling them with liquid grout under pressure. The grout permeates into the fissures/fractures in the soil/rock in the vicinity of the drillhole, thereby reducing the permeability of the ground. By undertaking this form of ground treatment in a series of rows around the excavation (e.g. 2 rows of primary holes, followed by a set of intermediary secondary and possibly even tertiary holes) it is possible to create a near-impermeable grout curtain around the entire excavation. The depth of this curtain could also be extended below the depth of the excavation to reduce potential groundwater inflow from the base.

This methodology is also most effective in high permeability granular soils or fractured rock formations, and is therefore unlikely to be particularly effective in the relatively impermeable cohesive soils underlying this site, where water ingress into the excavation is likely to be predominantly via fissures than mass (primary) permeability.

Recommendation(s)

- At present the data available on the groundwater regime beneath the site is only preliminary. Clearly, there are aspects that potentially will have very significant implications on the cost of the design and construction of the proposals to limit risks to an accepted level. Consequently, as part of the ground investigation to provide data for detailed design, it is imperative that sufficient instrumentation and monitoring of the groundwater regime is undertaken to provide data for economic and safe construction. It is anticipated that this will include the installation of vibrating wire piezometers at discrete levels around the proposed structure, linked to datalogger systems to enable any fluctuations in groundwater levels and artesian water pressures to be ascertained.
- Based on the preliminary data available, it is considered that the most practicable solution to the control of groundwater in the temporary works condition is a partial cut-off wall (which can form the permanent basement perimeter wall) combined with basal pressure relief wells.

- This combination has the advantage that the pressure relief wells may be incorporated into the permanent works design of the basal slab to control hydraulic uplift and form part of the Type 'C' drainage protection measures.
- As part of the recommendation made in section 4.3.3, it is clear that the costs of excavation, construction and de-watering of the excavation are likely to be considerable. Consequently, it may be economic to consider an alternative proposal that involves a reduced the depth of excavation (if possible) by selecting alternative plant for the energy recovery processing.

4.3.5 Basal Slab Design

As discussed above, the design of the basal slab needs to be designed taking cognisance of the potentially very high long-term hydraulic pressures to prevent the risk of catastrophic heave which might then lead to failure of the surrounding retaining walls.

In the absence of any groundwater control measures, based on preliminary data available to date, these pressures could be of the order of 90kN/m² at the proposed formation level.

The magnitude of these forces, and the geometry of the proposed basement structure, means it is very unlikely that these forces can be accommodated by shear resistance on the side walls.

Whilst it would be possible to withstand the uplift pressures by anchoring the basal slab via anchorages and/or tension piles constructed on a grid basis, given the magnitude of the uplift forces it is likely that the basal slab will need considerable reinforcement to span between each anchorage point.

Based on the highest water pressures measured to date, in the absence of any groundwater control measures, to prevent hydraulic uplift by mass of basal slab alone (i.e. excluding any plant loads), would require a formation level of ≈32.8mOD (i.e. a 7m thick slab) which is very unlikely to be cost-effective.

At this stage, therefore, it is recommended that outline design of the permanent works solution comprises a combination of:

- Basal pressure relief wells.
- Thickened basal slab.
- (if required) supplementary ground anchorages and/or tension piles.

Clearly, to enable cost-effective and safe detailed design of these elements it is crucial that further appropriate ground investigation is undertaken to gain more detailed understanding of the groundwater regime beneath this site.

5 OTHER CONSIDERATIONS

5.1 Re-Use Of Excavated Materials

If the re-use of site won material is proposed, either on-site or for other purposes off-site, it is important that the various stratum groups are appropriately segregated (particularly the made ground) to prevent the risk of cross contamination. It is anticipated the made ground would need to be sorted and screened with the oversize material sent for off-site disposal. The remaining made ground should be suitable for use as backfill material and landscaping provided it meets the earthworks material properties requirements.

Furthermore the fully weathered/partially weathered Mercia Mudstone and unweathered Mercia Mudstone should remain segregated to allow for separate re-use strategies. If they are mixed then the material may be rendered unsuitable for particular end-uses.

Stockpiling and storage of the excavated topsoil, superficial deposits and weathered bedrock will be required in order that these may be re-used. The stockpile should be sealed to prevent rainfall infiltration into the material and preventative measures for control of excavated material and suspended solids from entering any water courses must also be considered. These measures may include temporary drainage ditches, stockpile sheets, geo-textile wrap, straw bales and silt traps.

Preliminary test results indicate that the fully weathered/partially weathered Mercia Mudstone will be suitable for re-use as Class 2 general fill in accordance with the Specification for Highway Works Series 600 Earthworks criterion (Class 2A/2B/2C depending on stone content and/or moisture content). It is anticipated the majority of these materials will fall into Class 2B dry cohesive, and very stiff/hard clay material excavated from deeper levels may need to be improved by the addition of water (via spray irrigation) to soften them sufficiently to facilitate adequate re-compaction.

Superficial Deposits and near-surface weathered Mercia Mudstone material may be too soft (wet) in its 'as-excavated' condition to be suitable for re-compaction as engineered fill. Preliminary laboratory tests undertaken in the GIP investigation indicates that these soils may be improved by the addition of lime (or cement) to render them suitable for re-use as engineered earthworks materials, though it is recommended additional testing be undertaken at the detailed design stage to further clarify this issue.

Unweathered Mercia Mudstone material is likely to be suitable for re-use as either Class 2C (stony cohesive) or Class 1 (general granular) fill depending on the strength of the rock and its response to crushing by compaction plant.

The relatively low plasticity of the Mercia Mudstone stratum soils means they are likely to be very susceptible to softening in the presence of free or standing excess water (even the weak mudstone variants). Consequently, it is crucial to ensure that any excavations are kept free of ponding water (if at all possible) and that excavation for material proposed for re-use as engineered materials is not undertaken during periods of prolonged and/or heavy rainfall.

Based on a very approximate estimate from the preliminary ground investigation data available, approximately 20-25% of the material likely to be excavated from the basement area will comprise made ground soils.

Preliminary laboratory tests undertaken in the GIP investigation indicates that the cohesive made ground soils would be suitable for re-use as general cohesive fill, though again material that is too soft (wet) in its 'as-excavated' condition may be improved by the addition of lime (or

cement) to render them suitable for re-compaction. Testing on samples of granular made ground indicated it to be suitable for re-use as Class 1 general granular fill. All of the made ground soils will need to be carefully screened to remove unsuitable inclusions (e.g. timber, concrete blocks, textile, metal) that will prohibit adequate re-compaction.

The chemical test results indicate that the vast majority of the made ground soils are likely to be suitable for re-use as engineering or landscape fill material, with the exception of one sample that provided unacceptably high levels of lead content. Consequently, as part of the ground investigation for detailed design, it is recommended that additional testing of samples be undertaken in this area to further delimit the extent of this contamination.

None of the soils likely to be won from site are likely to be suitable for re-use as selected (Class 6) fill material.

It is understood that enquiries have been made by Mercia Waste Management to companies to make use of the excavated natural materials for specialist re-use as brick manufacture and/or landfill site capping materials. Should this become the agreed end use, this material will need selecting, stockpiling and transporting off site as part of the works.

5.2 Protection of Buried Concrete

In accordance with BRE Special Digest SD1 (Ref. 12), sulphate content and pH value testing was carried out on selected soil samples between 0-8m bgl.

The test results lie within the limit of Sulphate Design Class DS-1, as defined within the BRE guidelines. The minimum pH value is 7.77 and the maximum sulphate value is 50 mg/l. The groundwater regime is considered as static between 1-8m bgl, therefore an Aggressive Chemical Environment for Concrete (ACEC) classification of AC-1s is considered appropriate.

5.3 Road Pavement Design Considerations

Five in-situ California Bearing Ratio (CBR) Tests were carried out on near-surface soils within the GIP ground investigation, on made ground (granular and cohesive) and cohesive natural soils. These tests produced CBR values of between 3.1% and 4.4%, indicative of cohesive soils with undrained shear strength of 75-100kN/m².

The majority of the descriptions and insitu tests (SPTs, HSVs) of the cohesive near-surface (<1.0m) soils suggest undrained shear strength of 50-60 kN/m², indicative of a CBR value of ≈2%.

Based on an upper bound Plasticity Index value for the cohesive near-surface (<1.0m) soils of 40%, an equilibrium CBR value of ≈2.5% is estimated based on a high-water table and pooraverage construction conditions.

On the basis of the above, it is recommended that a preliminary subgrade CBR value of 2.5% is adopted for outline design. Because the made ground soils will be vary variable in their deformation modulus value (stiffness), consideration should be given to the incorporation of appropriate geogrid reinforcement at the base of the pavement foundation to ameliorate any variations. This will also enable the thickness of capping / sub-base to be reduced.

Some of the likely subgrade soils are likely to be very susceptible to softening in the presence of excess water. Consequently, it is crucial to ensure that formations are not exposed to significant and/or prolonged rainfall.

5.4 Soakaway Drainage

In-situ percolation tests in general accordance with BRE Digest 365 "Soakaway Design" as part of the GIP ground investigation produced negligible percolation, indicating that soakways will not represent a suitable form of surface water disposal on this site.

5.5 Former Well

Within the GIP report, a possible well is detailed within area 600A. It states that previous works identified what was believed to be an open well which was full of water and brick rubble. It is not believed to have been stabilised and this will require further consideration prior to development.

The GIP report provides recommendations such as if the well is shallow (less than 3.0m) it may be possible to excavate out and replace it with a suitable well compacted granular material. If the well is deeper then backfilling may require grouting and capping of the feature.

Further investigation should be undertaken in the area of this possible well to determine the appropriate measures required to backfill this feature. Depending on the depth of the well and the backfill material, this may form a receptor for groundwater and should therefore be considered further in respect of groundwater contamination once additional information is obtained.

5.6 Construction Phase Ground Investigation

An additional ground investigation is required to confirm the detailed design for the temporary and permanent works for the development.

These currently comprise a combination of ;-

- · Deep excavations
- · Slope stability of the excavation
- · Basal pressure relief wells.
- Thickened basal slab.
- Temporary and permanent water proofing of the structures
- Supplementary ground anchorages and/or tension piles.
- Shallow foundations for light structures
- Associated infrastructure
- Long term drainage

Clearly, to enable cost-effective and safe detailed design of these elements it is crucial that further appropriate ground investigation is undertaken to gain more detailed understanding of the groundwater regime beneath this site, specifically to determine the permeability of the materials to be excavated and to record the water levels both within and outside of the proposed excavation areas

As part of the ground investigation to provide data for detailed design, it is imperative that sufficient instrumentation and monitoring of the groundwater regime together with a pumping trial is undertaken to provide data for economic and safe construction.

In terms of the assessment of made ground and potential contamination plus obstructions within this strata, an extensive grid of trial pits will require excavating and suitable testing undertaken. Part of the investigation boreholes will be to focus on the strength of materials between 8 to 12mbgl to provide additional design information for pile and anchor design as well as being used for groundwater instrumentation.

It is anticipated that this will include the installation of vibrating wire piezometers at discrete levels around the proposed deep excavation structure, linked to datalogger systems to enable any fluctuations in groundwater levels and artesian water pressures to be ascertained, These will also be an utilised to assess a series of step tests and full pumping tests at, at least one, possibly two locations.

Ongoing gas and ground water monitoring would be required before, during and after construction; where possible wells should be located well away from the proposed construction area to prevent damage during the construction works to provide long term monitoring.

To achieve the detailed assessment of the made ground strata and its potential contamination and obstruction issues an extensive grid of trial pits will be required together with suitable contamination testing undertaken.

With regards the main excavation additional boreholes will be required, particularly to focus on the strength of the strata between 8 and 12 metres depth below ground level to provide additional detailed design information for pile and/or anchor selection and design of temporary and permanent works including groundwater control.

Hence the detailed construction phase investigation will consist of;-

Trial pits with contamination testing

Boreholes down between 15 to 20 metres with insitu testing and monitoring instrumentation for both ground water and gas.

Static cone Penetrometer testing with dissipation testing.

Drilling installation of between one to two pump wells.

Pumping tests.

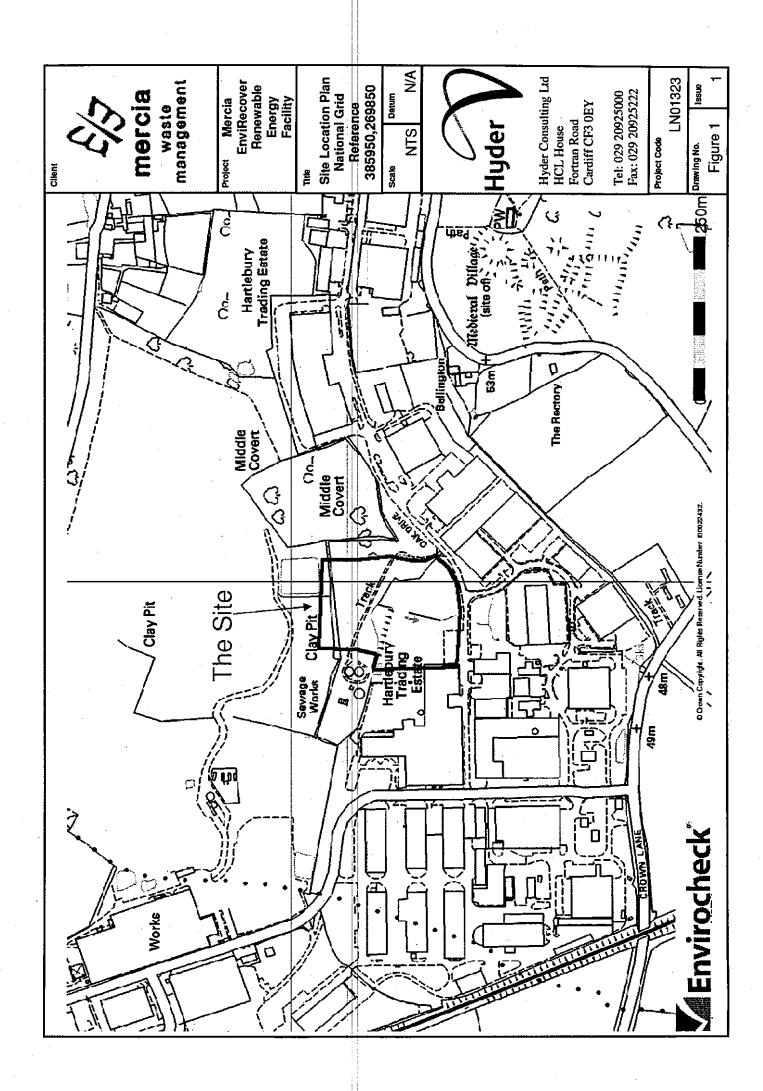
At this time, prior to confirmation of planning and any conditions that might be applied which could affect the overall design of these ground investigation works we have not provided a detailed B of Q as this may be subject to change.

6 REFERENCES

- Hyder Consulting Limited, Deskstudy Report, Mercia EnviRecover Renewable Energy Facility, Report Ref 5001-LN01323-NER-01, February 2010.
- 2 Hyder Consulting Limited, Geotechnical Interpretative Report (Outline Design), Mercia EnviRecover Renewable Energy Facility, Report Ref 5003-LN01323-NER-01, April 2010.
- Hyder Consulting Limited, Factual Report Mercia EnviRecover Renewable Energy Facility, Report Ref 5004-LN01323-NER-01, March 2010.
- 4 Hyder Consulting Limited, Contaminated Land Interpretative Report, Mercia EnviRecover Renewable Energy Facility, Report Ref 5005-LN01323-NER-01, April 2010.
- 5 CIRIA, C570 "Engineering in Mercia Mudstone", 2001.
- British Standards Institution (BSI), (1990). BS1377:1990, Methods of Test for Soils for Civil Engineering Purposes. BSI, London.
- 7 Tomlinson, M.J., Foundation Design and Construction, 7th Edition, 2001
- Pettifer, G.S. & Fookes P.G., 1994. A revision of the graphical method for assessing the excavatability of rock. Quarterly Journal of Engineering Geology 27, pp. 145-164.
- 9 IStructE, Design and construction of deep basements including cut-and-cover structures, 2004.
- Concrete in aggressive ground, Special Digest 1:2005, 3rd Edition, The Concrete Centre, BRE Construction Division.
- BS 8102 : 2009 Code of Practice for protection of below ground structures against water from the ground.
- 12 CIRIA Report 139, Water-resisting Basements (1995)
- 13 CIRIA Report 140, Water-resisting Basements (Summary Report) (1995)

Appendix A

Site Location Plan



MERCIA WASTE MANAGEMENT

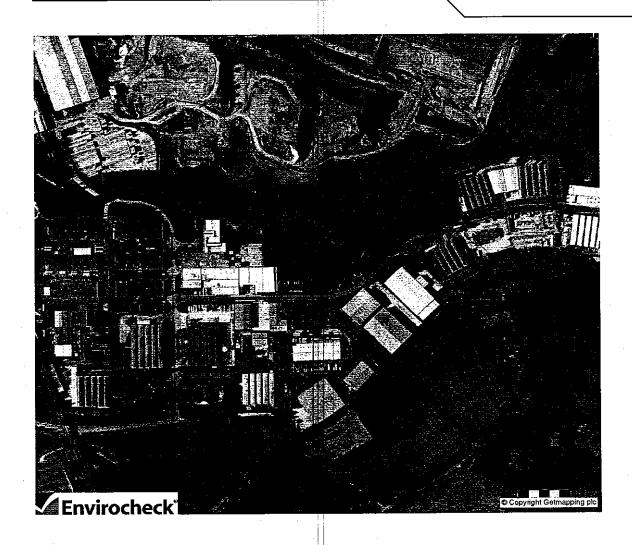
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Appendix D - Hyder Factual Report





Mercia Waste Management Mercia EnviRecover Renewable Energy Facility Factual Report



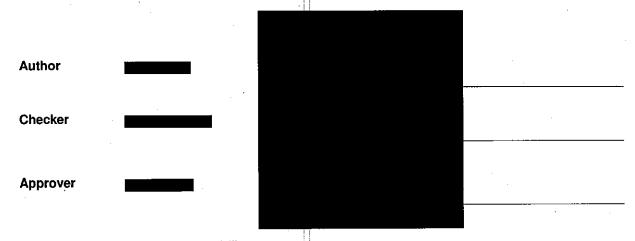
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Mercia Waste Management Mercia EnviRecover Renewable Energy Facility Factual Report



Report No

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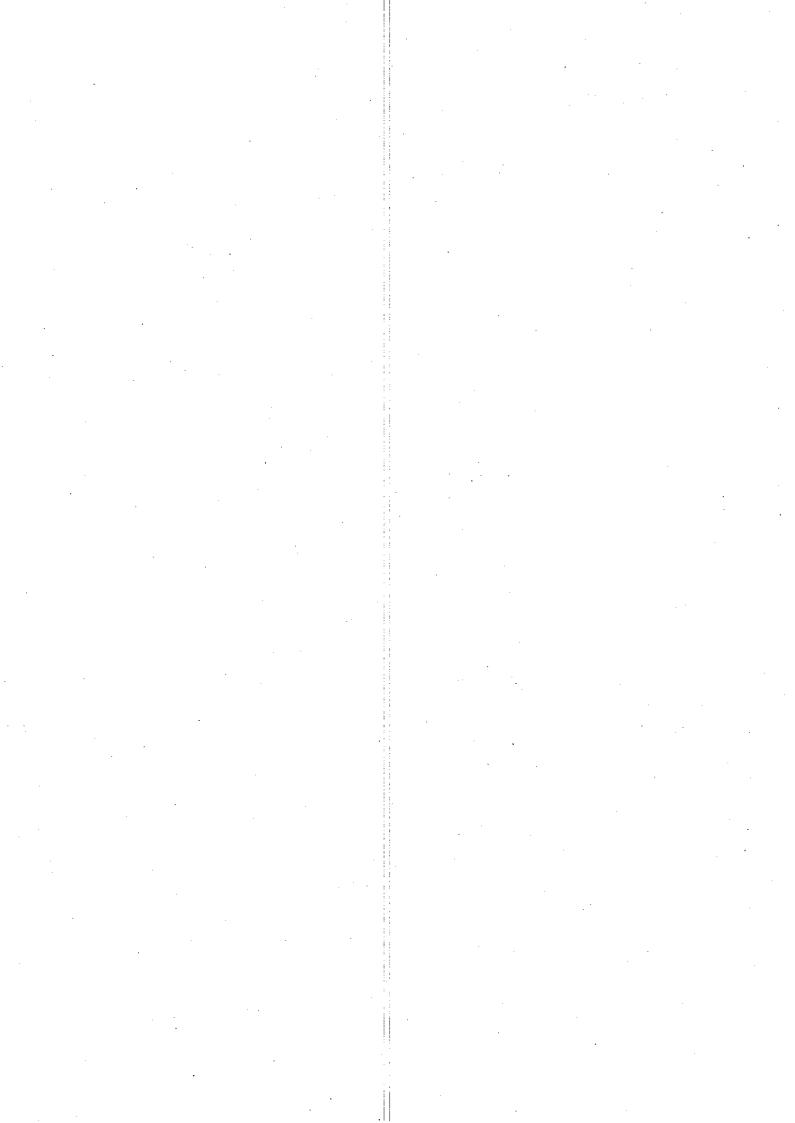
Date

19 March 2010

This report has been prepared for Mercia Waste

Management in accordance with the terms and conditions of appointment for Factual Report dated 14th January 2010.

Hyder Consulting (UK) Limited (2212959) cannot accept any responsibility for any use of or reliance on the contents of this report by any third party.





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1 INTRODUCTION

Hyder Consulting (UK) Ltd has been commissioned by Mercia Waste Management in 14th January 2010 to undertake a ground investigation between 4th and 16th of February 2010. This factual report details the work carried out on-site, the strata encountered, groundwater observations and details subsequent geotechnical and contamination laboratory testing from the investigation

The report provides the exploratory hole logs and geotechnical and contamination laboratory results. The factual report has largely been used to interpret the ground conditions and is referred to within the Interpretive Report (Ref.1).

1.1 Background and Purpose of the Works

The Joint Municipal Waste Management Strategy (JMWMS) for Herefordshire and Worcestershire, 2004-2034, has highlighted the need for dealing more effectively with the waste left over after recycling (referred to as 'residual waste').

In a review of the JMWMS undertaken by the Joint Members Waste Forum, a number of scenarios for managing residual waste were examined using a computer model called WRATE. Following this assessment, the option of a single site Energy-from-Waste plant with combined heat and power (CHP) capabilities was identified as the optimum solution, resulting in the Mercia EnviRecover 15.5MW renewable energy facility.

The purpose of the investigation was to explore ground conditions across the site. This will enable an Environmental Impact Assessment to be undertaken by identifying the likely impact on the environment of the energy facility. The ground investigation also provides information for the foundations, excavation and contamination issues surrounding the development of the Mercia EnviRecover energy facility.

1.2 Scope

The ground investigation has been carried out using cable percussive drilling methods, rotary coring and trial pitting using a 13 tonne tracked excavator. The field work was carried out in general accordance with the recommendations of BS5930:1999 Code of Practice for Site Investigation and with BS10175 Investigation of Potentially Contaminated Sites: Code of Practice (2001).

A comprehensive desk study has already been carried out and received by Mercia Waste Management which has been used to inform the ground investigation.

Testing to detect the presence of ground gas was not carried out during the investigation itself although phases of gas and groundwater monitoring are being carried out from all boreholes as part of a continuous three month monitoring programme.

All information provided within this report is based on the ground conditions encountered during the site works. However, sub soils are by their very nature hidden from view and no investigation can be exhaustive to the extent that all issues are revealed. It should be noted also that ground water levels typically vary seasonally.

2 THE SITE

2.1 Location and Description

The site is located approximately 9km south-south-east of Kidderminster, within the Hartlebury Trading Estate, Worcestershire.

The site comprises of a small parcel of land with an estimated surface area of 3.3 hectares. The Ordnance Survey National Grid Reference at the centre of the site is 385950,269850.

A site location plan is shown in Appendix A.

2.2 Published Geology

The 1:50,000 scale British Geological Survey (BGS) Digital Geological Maps for the area, as provided within the Envirocheck Report used for the desk study have been used to identify the likely underlying geological conditions at the site.

Superficial deposits are not shown on the geological map, as there is an insignificant thickness. The solid geology beneath the topsoil and subsoil is shown to comprise mudstone of the Mercia Mudstone Group (MMG).

2.3 Published Hydrogeology

The National Soil Resources Institute Soils Site Report classifies the soil on site as having an intermediate leaching potential. These are soils, which have a moderate ability to attenuate a wide range of diffuse source pollutants but in which it is possible that some non-adsorbed diffuse source pollutants and liquid discharges could penetrate the soil layer.

The Hyder desk study classes the underlying Geology as a Non-Aquifer (Negligibly permeable), which would correspond with the identified geology. Non-aquifers are formations, which are generally regarded as containing insignificant quantities of groundwater. However, groundwater flow through such rocks, although imperceptible, does take place and needs to be considered in assessing the risk associated with persistent pollutants.

There are no licensed groundwater abstractions recorded within a 500m radius of the site and the site does not lie within a Groundwater Source Protection Zone.

2.4 Statutory Service Information

All service information was held by the Engineer with the relevant plans and information made available to Hyder by the client prior to the commencement of the intrusive works. Standard procedures for breaking ground were followed including the undertaking of hand excavated inspection pits at exploratory hole locations and the use of a CAT scan to detect the presence of any underlying services.

2.5 Previous Investigations

Further details on the ground conditions on site and in the vicinity of the site (1km to the NW), have been obtained from an on-site ground investigation (undertaken in 2006 by Ground Investigation & Piling Ltd and from a BGS report on the Hartlebury Landfill site located 800m to 1km north-west. These sources confirm that the site is underlain by between 5m and 7m of superficial deposits (average of 6.2m), comprising an uppermost stratum of Made Ground, overlying firm to stiff clay. Bedrock is initially comprised of weak, red-brown mudstone (as part of the Mercia Mudstone Group).

More detailed geological classification for the area is obtained from the BGS report, which confirms the solid geology of the MMG in the area as comprising an uppermost stratum of the Sidmouth Mudstone Formation (~up to 30m thick) and a lowermost stratum of the Tarporley Siltstone Formation (~up to 20m thick). The MMG is underlain by the Bromsgrove Sandstone Formation at depths ranging from 30m to 60m below ground level (bgl).

3 FIELDWORK

The scope of investigation and location and depth of boreholes and trial pits has been defined and scoped up by Hyder Consulting Limited. Supervision and logging of the field work was carried out by a Hyder Engineer and the drilling sub-contractos appointed were CJ Associates.

The field work was carried out between the 4th to the 15th February 2010. The completed scope of the ground investigation is as follows:

- 4 no. cable percussive boreholes to maximum depths of 10mbgl with alternating SPTs and U100 to 5mbgl at 1m intervals and SPTs and U100 where possible at 1.5m intervals at depth greater than 5mbgl.
- 3 no. rotary cored boreholes to maximum depth of 20mbgl with SPTs at 1m intervals to5mbgl and SPTs and 1.5m intervals at depth greater than 5mbgl. Window sampling techniques
- 4 no. trial pits to depths of 5mbgl.
- 6 no. trial pits to depths of 2mbgl.

4 Sampling

Bulk samples for the purpose geotechnical testing were taken at regular intervals or at changing strata in all exploratory holes with the exception of shallow trial pits. U100s were also taken every 2m within the top 5m and where possible at greater depths.

Environmental samples were taken predominantly within the made ground in particular where olfactory or visual signs of contamination were noted by the site engineer. Samples were also taken within the strata directly below the made ground.

Groundwater monitoring was carried out in the majority of the holes during the site investigation. Gas and groundwater monitoring will be carried out in further monitoring stages.

5 In situ Testing

5.1 Falling/rising head tests

Two rising falling head tests were carried out successfully within 1-8mbgl. This targeted the fully weathered horizon of the Mercia Mudstone. Falling head tests were carried out in accordance with BS1377:1990 Part 9.

5.2 Shear vane

Shear vanes were taken in the trial pits to depth of 0.5m bgl and at greater depths than this sear vanes was attempted in the soil heaps where cohesive lumps were still intact. Shear vanes were carried out in accordance with BS1377:1990 Part 9.

5.3 SPTs

SPTs were carried out by the drillers every other meter to 5m bgl and at every 3m at depths greater than this. SPTs were carried out in accordance with BS1377:1990 Part 9.

6 Installations

All boreholes were installed with both gas and groundwater monitoring standpipes with the design targeting specific levels in order to asses contamination, permeability and groundwater levels within a chosen strata.

There are 4 shallow boreholes which target the shallow fully weathered Mercia Mudstone. The three deeper boreholes target both the deep horizons of weathered mudstone and the whole of the Mercia Mudstone formation.

The exploratory holes and in-situ test locations set out by the Hyder engineer was picked up by an approved surveyor to local grid co-ordinates (refer to Appendix A).

7 LABORATORY TESTING

A full set of laboratory test results can be found in Appendix C.

7.1 Geotechnical laboratory testing

The following tests were carried out in accordance with BS1377:1990 Methods of test for soils for civil engineering purposes parts 1 to 8:

Type of Test	Standard	Number of Samples
	Geotechnical & Chen	
moisture contents	BS1377:1990 Part 2:3	15
atterberg tests	BS1377:1990 Part 2:4&5	15
particle density	BS1377:1990 Part 4	4
density tests	BS1377:1990 Part 4:5	7
PSDs (Particle Size Distribution)	BS1377:1990 Part 2:9	13
sedimentation tests	BS1377:1990 Part 2	1
compaction tests	BS1377:1990 Part 4	6
one-dimensional consolidation tests	BS1377:1990 Part 6	3
consolidated undrained triaxial tests	BS1377:1990 Part 6	3
рН	BS1377:1990 Part 3	13
2:1 soil/water extract	BS1377:1990 Part 3	13

7.2 Chemical laboratory testing

Analysis was carried out using a UKAS/MCERTS accredited laboratory.

11 samples from the made ground and 4 samples from the natural material were tested as soil and as leachate. The following tests were carried out on each criterion:

	Contamination Te	ests
Soil	Standard	Number of samples
Metals (arsenic, cadmium, chromium, nick lead copper zinc, mercury and selenium)	el,MCERTS Accredited	15
Speciated PAH (USEPA 16)	MCERTS Accredited	15
TPH (Total Petroleum Hydrocarbons) banded	6MCERTS Accredited	15
Asbestos Screen and Microscopy	MCERTS Accredited	5
Soil Organic Matter (SOM)	MCERTS Accredited	6
Leachate		

Metals (arsenic, cadmium, chead copper zinc, mercury and	romium, nickel,MCERTS Accredited selenium)	15	
Speciated PAH	MCERTS Accredited	15	
TPHCWG	MCERTS Accredited	15	
Chloride	MCERTS Accredited	15	
Ammonia		15	
1			

Groundwater samples

Five ground water samples taken from the boreholes and tested for the following:

Groundwater	Standard	Number of samples
Metals (arsenic, cadmium, chromium, niclead copper zinc, mercury and selenium)	ckel,MCERTS Accredited	5
Speciated PAH (USEPA 16	MCERTS Accredited	5
TPH CWG	MCERTS Accredited	5
Chloride	MCERTS Accredited	5
Ammonia (Ammoniacal nitrogen as N)	MCERTS Accredited	5

8 REFERENCES

Hyder Consulting Limited, Geotechnical Interpretative Report, Mercia EnviRecover Renewable Energy Facility, March 2010.

Landmark Envirocheck, Envirocheck report for Mercia EnviRecover Renewable Energy Facility Deskstudy. Obtained by Hyder January 2010.

British Geological Survey, 2009. Hartlebury Landfill Site: conceptual Site Model Update. Groundwater Pollution Programme. External Report XX/00/00

BS5930:1999 Code of Practice for Site Investigations

BS1377:1990 Methods of Test for Soils for Civil Engineering Purposes

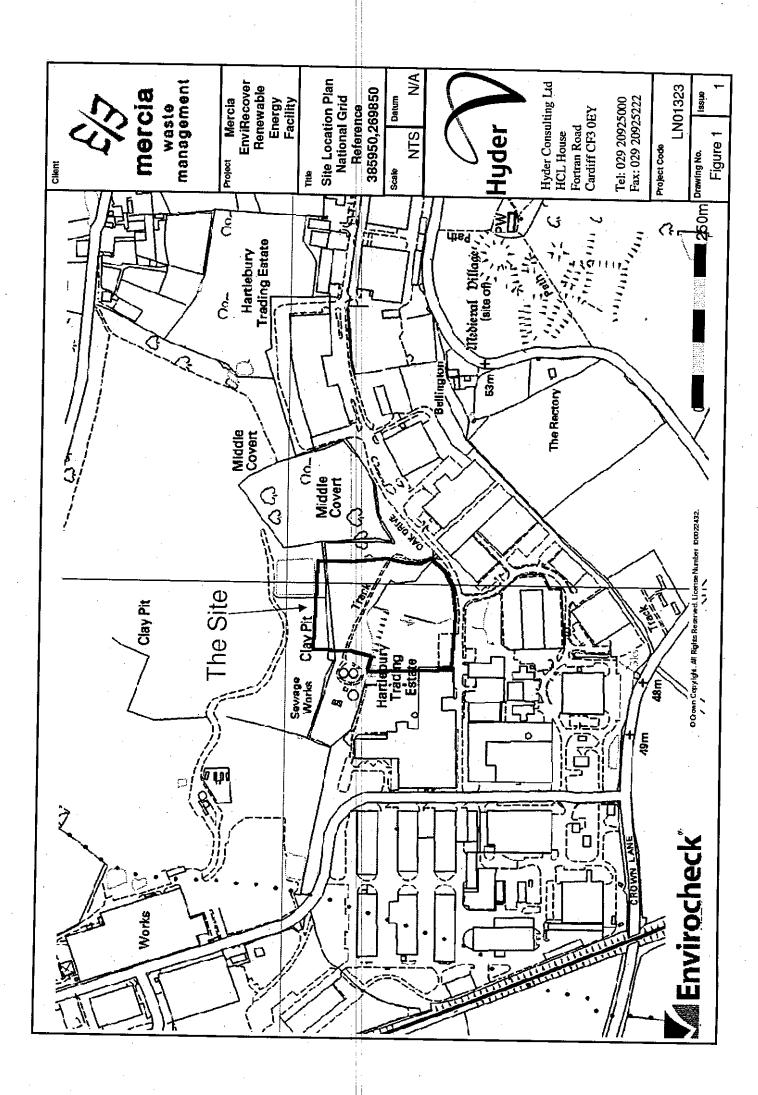
BS10175:2001 Investigation of Potentially Contaminated Sites: Code of Practice.

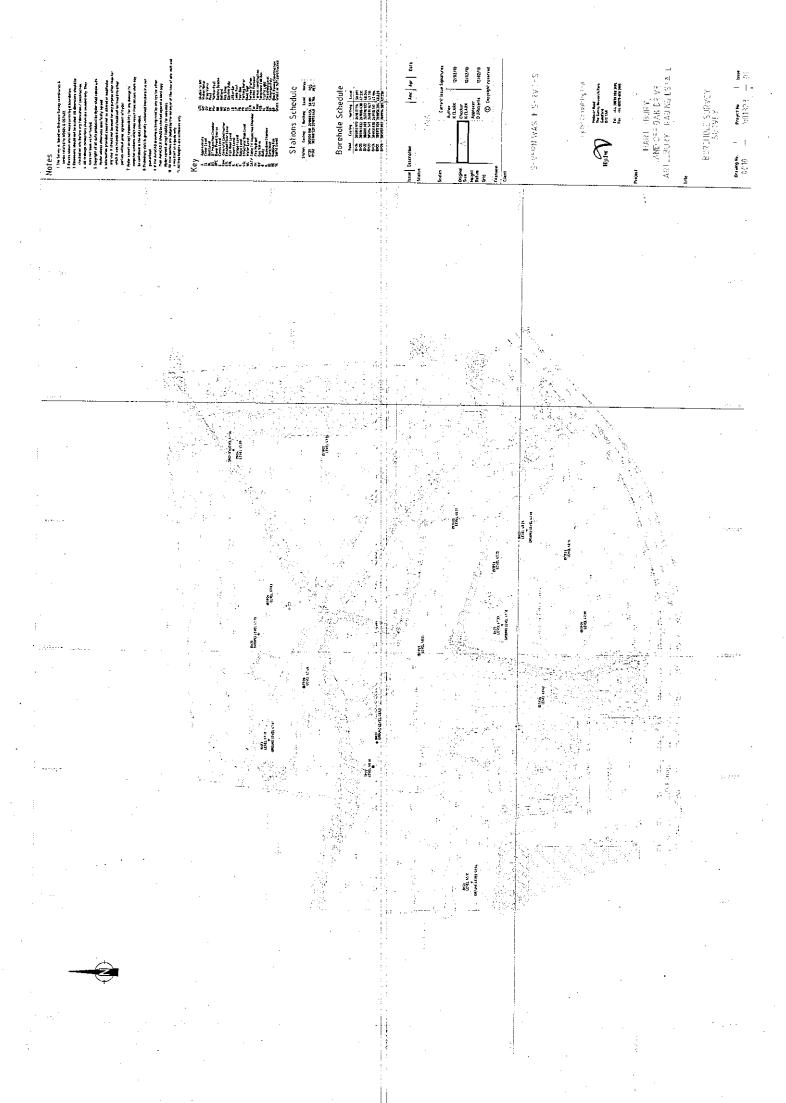
Ground Investigation & Piling Ltd., 2006. Ground Investigation and Test Report for Proposed Fibrecycle Plant, Site H600 Hartlebury Trading Estate, Kidderminster.

Appendix A

Site Location Plan

Exploratory Hole Location Plan





Appendix B

Borehole and Trial pit Logs SPT Summary Table Shear Vane Table In-situ Permeability Testing



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AGS3 UK DH BOREHOLE LOGS GPJ AGS3 1 GD 23/3/10

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AGS3 UK DH BOREHOLE LOGS GPJ AGS 3 1 GD 23/3/10

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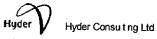
AGS3 UK DH BOREHOLE LOGS GPJ AGS 3 1 GD 23/3/10

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AGS3 UK DH BOREHOLE LOGS GPJ AGS 3 1 GD 23/2/10

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AGS3 UK DH BOREHOLE LOGS GPJ AGS 3 1 GD 23/3/10

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AGS3 UK DH BOREHOLE LOGS GPJ AGS 3 1 GD 23/3/10

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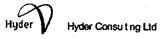
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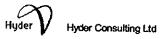
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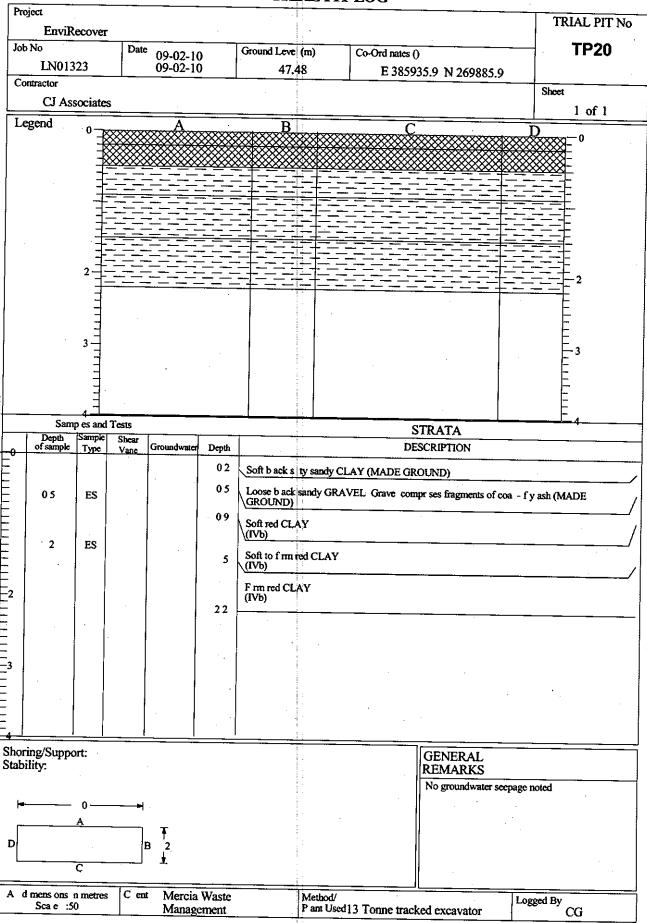
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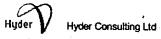


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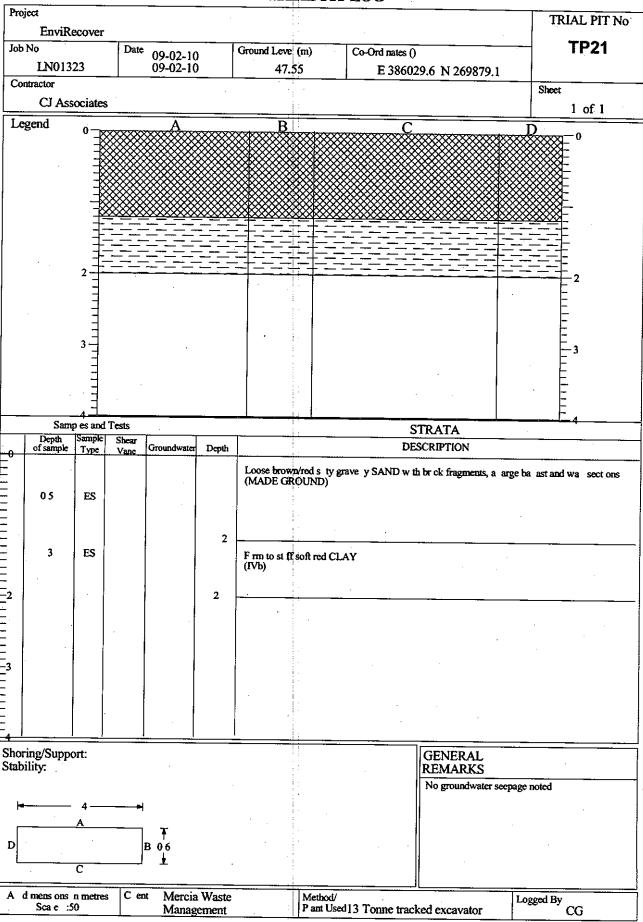


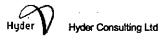
UBRARY, OLB Log HCL TRIAL PIT LOG



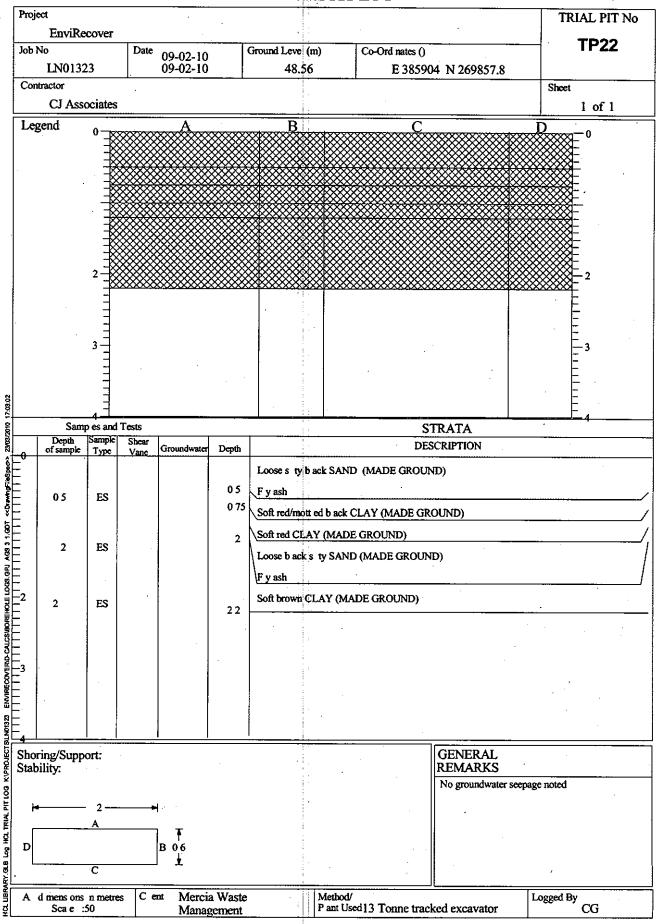


HCL LIBRARY, OLB LOG HCL TRIAL PIT LOG KUPROJECT SUN01323



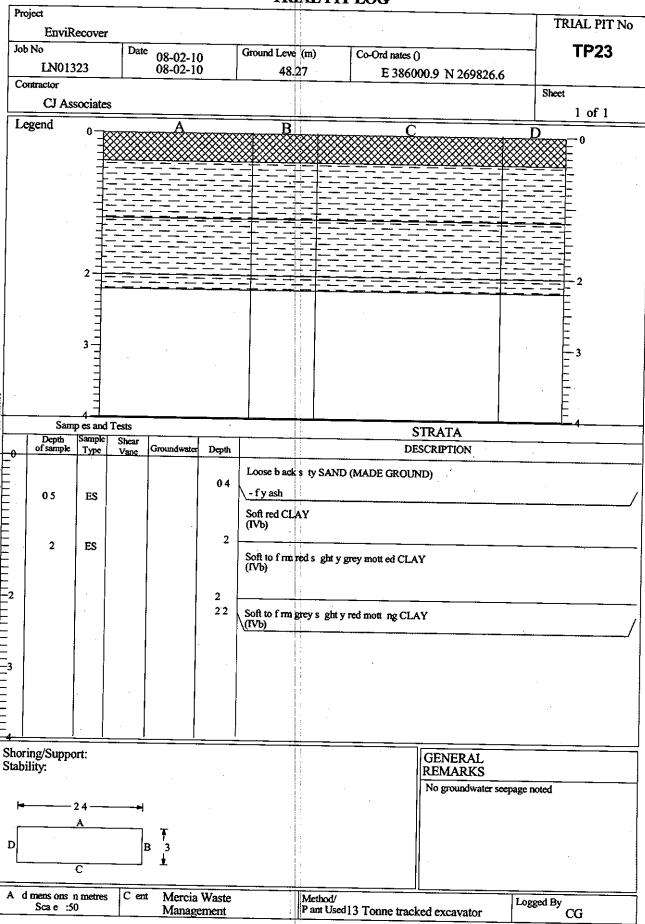


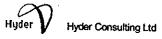
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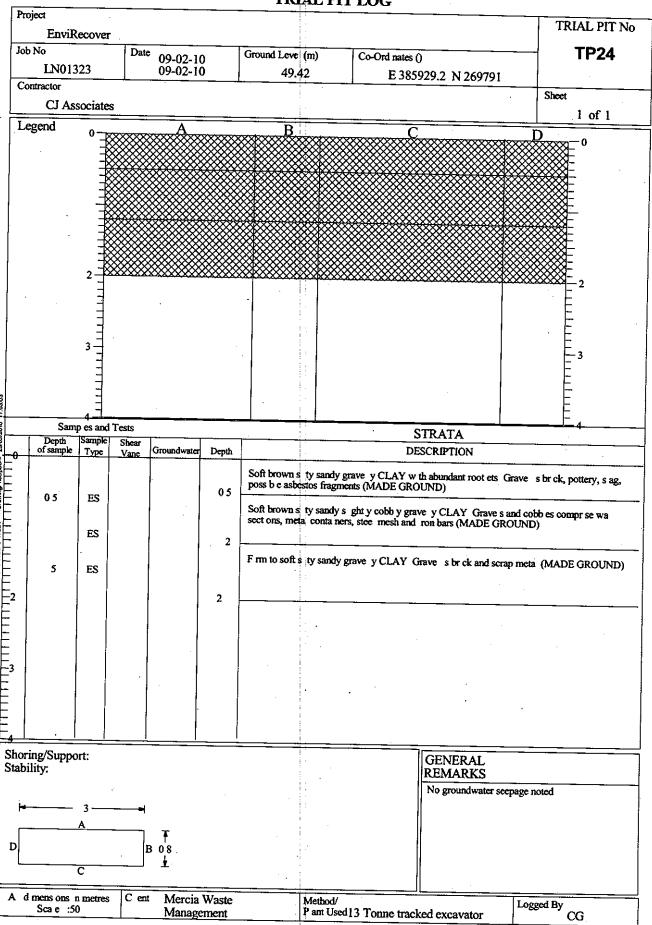


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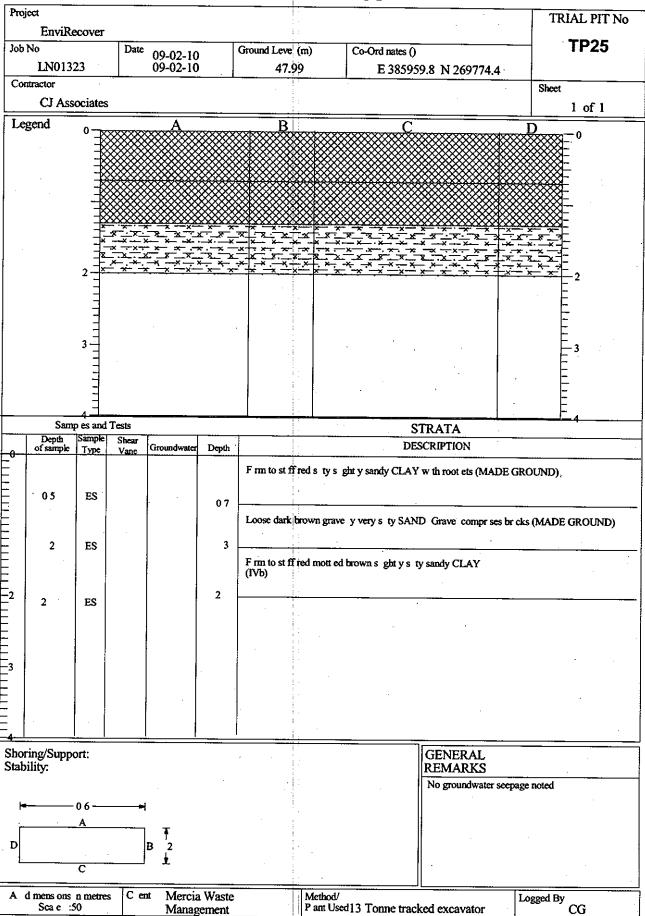




JBRARY GLB LOG HOLTRIAL PIT LOG





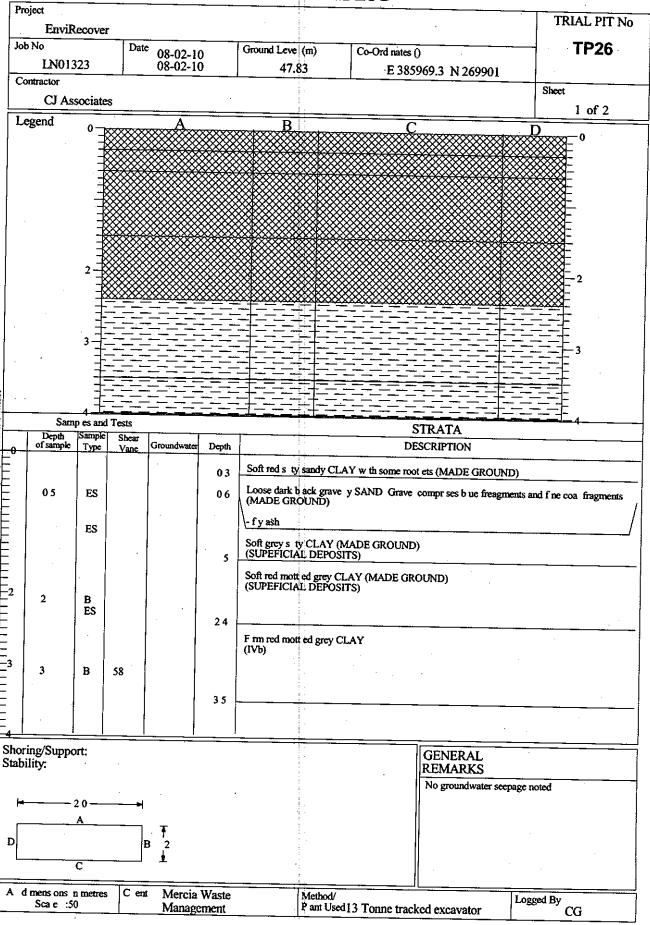




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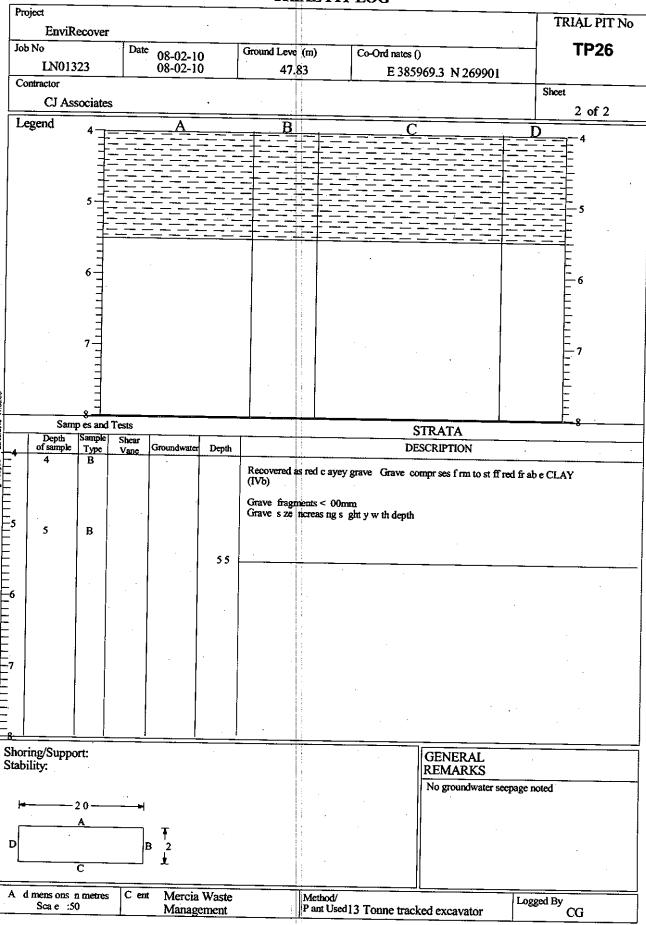
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OLB Log





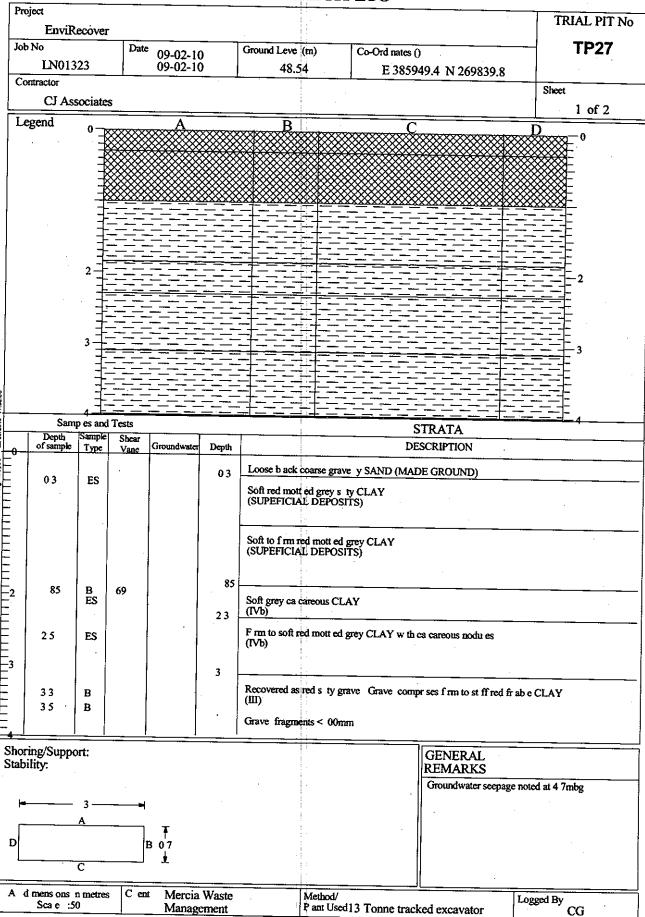
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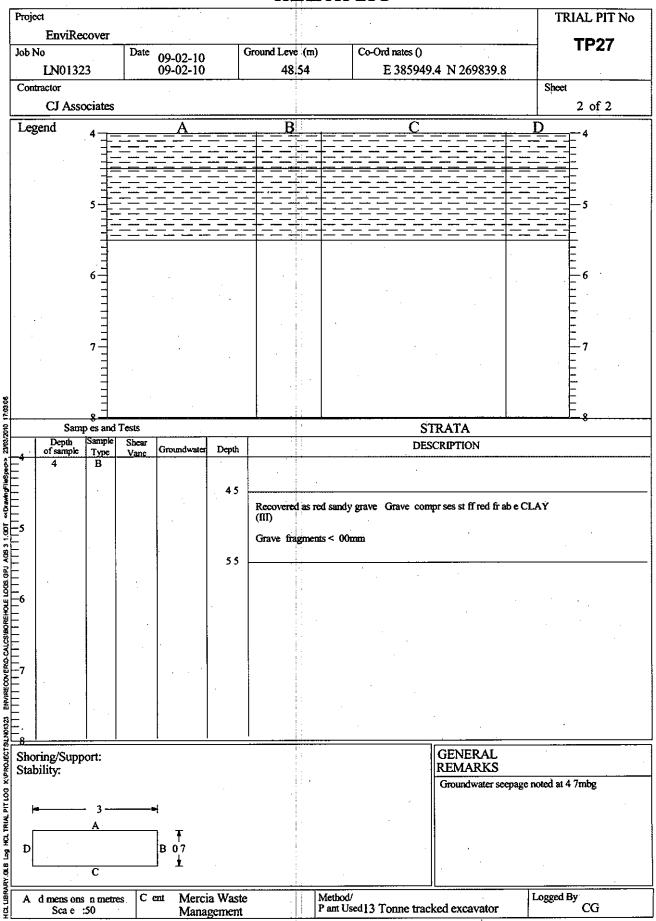
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UBRARY GLB LOG HOL TRIAL PIT LOG KYPROJECTS



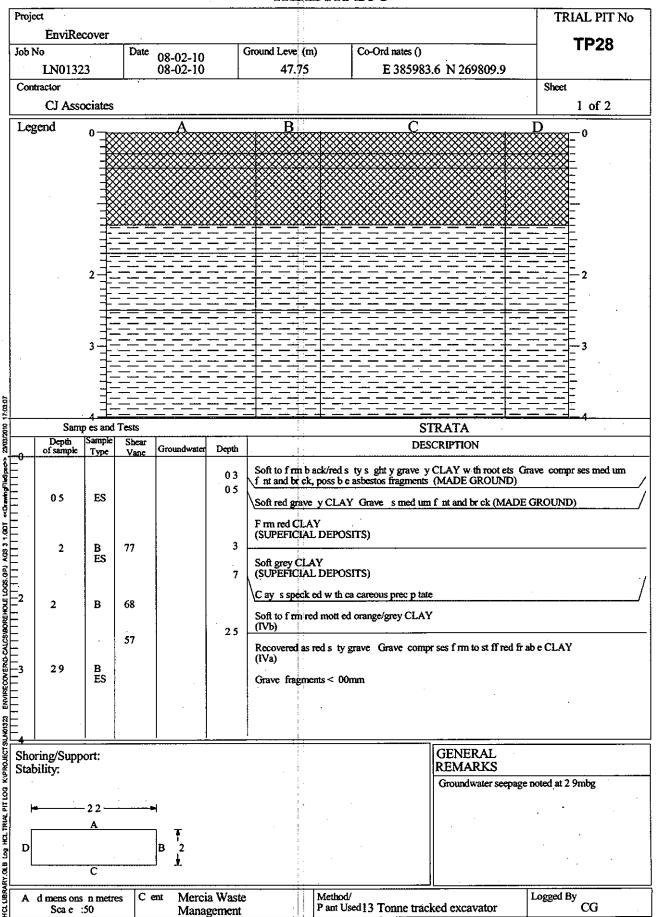


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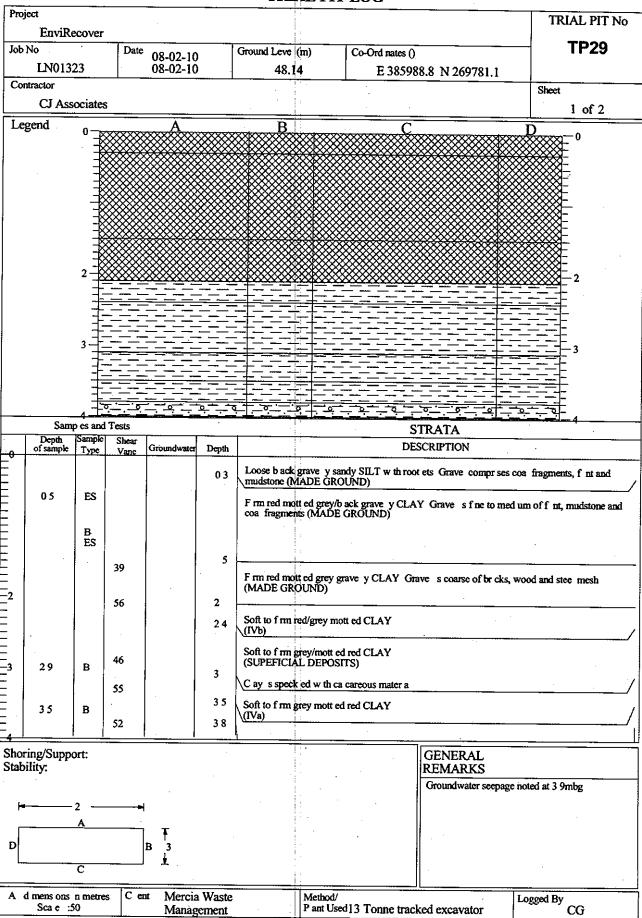
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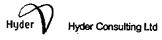
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Consulting

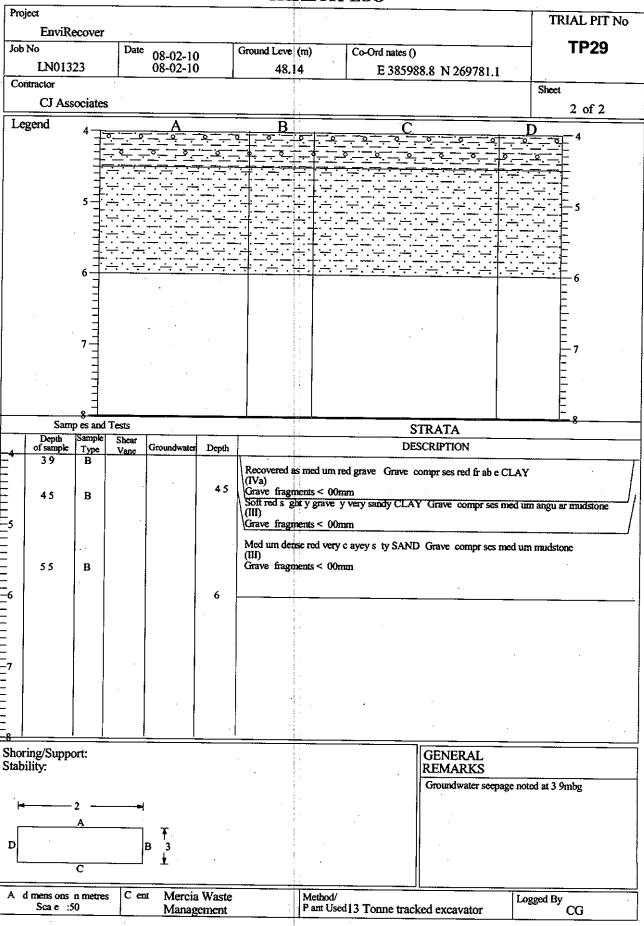
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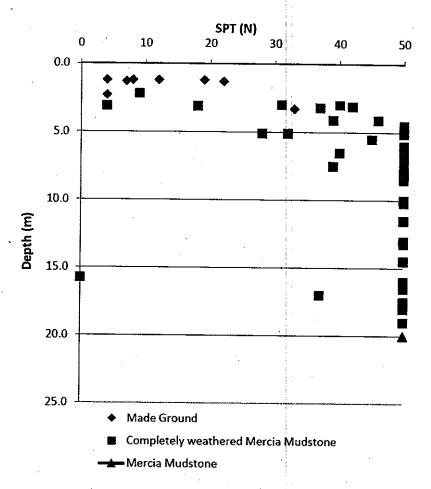




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HOLLUBRARY, GLB Log HOL TRIAL PIT LOG





SPT Summary Profile

Shear Vein Results

		Shear		
Trial Pit	Depth	Vein		Residual
26	3		58	15
27	1.85		69	34
28	1.2		77	
	2		68	
	2.5		57	
29	1.5		39	10
	2		56	22
	2.8		46	15
	3.2		55	22
	3.7		52	20

BH25

Site

EnviRecover

Date

10/02/2010

Type of test

Rising Head Test

Diameter of casing

150mm

Natural groundwater level

1.15mbgl

Height of casing above ground

level

0.44m

Depth below ground level to

bottom of borehole

5.44m

Depth below ground level to

bottom of casing

2.560m

Permeability K (ms⁻¹)

3.64203E-07

N.B. Depth to water level during test to be measured from top of casing

Elapsed Time (mins)		Depth to water level (m)
•	0	8.2
	0.5	8.135
	1	7.915
	1.5	7.865
	2	7.745
	3	7.765
·	4	7.6
	5	7.525
	7	7.38
	10	7.22
	15	7.095
*	20	6.89
	30	6.71
	45	6.33
	60	5.99

BH26

Site

EnviRecover

Date

08/02/2010

Type of test

Rising Head Test

Diameter of casing

150mm

Natural groundwater level

4.01

Height of casing above ground

0.25m

level

Depth below ground level to

bottom of borehole

9.250m

Depth below ground level to

bottom of casing

5.75m

Permeability K (ms⁻¹)

4.83625E-07

N.B. Depth to water level during test to be measured from top of casing

Elapsed Time (mins)		Depth to water level (m)
	0	9.25
	0.5	9.185
	1	9.05
	1.5	9
	2	8.95
	3	8.92
,	4	8.88
	5	8.82
	7.	8.76
	10	8.62
	15	8.32
	20	8.03
	30	7.73
	45	7.21
	60	6.84

Appendix C

Laboratory Test Results

Our Ref: EXR/103458 (Ver. 1) Your Ref:

February 23, 2010

Mr D Thomas Hyder Consulting Limited HCL House St Mellons Business Park St Mellons Cardiff CF3 0EY scientifics

Scientifics Ltd Bretby Business Park Ashby Road Burton-on-Trent Staffordshire DE15 0YZ

Telephone: 01283 554400 Facsimile: 01283 554422

For the attention of Mr D Thomas

Dear Mr Thomas

LEACHATE SAMPLE ANALYSIS - LNO1323

Samples from the above site have been analysed in accordance with the schedule supplied. The sample details and the results of analyses for these samples are given in the appended report.

An invoice for this work will follow under a separate cover.

Please be aware that from 1 January 2003 our policy for the retention of paper based laboratory records and analysis reports will be 6 years.

The work was carried out in accordance with Scientifics Ltd Standard Terms and Conditions of Contract.

If I can be of any further assistance please do not hesitate to contact me.

Yours sincerely

for Scientifics

J Elstub

Project Co-ordinator 01283 554500

TEST REPORT LEACHATE SAMPLE ANALYSIS



Report No. EXR/103458 (Ver. 1)

Hyder Consulting Limited HCL House St Mellons Business Park St Mellons Cardiff CF3 0EY

Site: LNO1323

The 11 samples described in this report were logged for analysis by Scientifics on 18-Feb-2010. The analysis was completed by: 23-Feb-2010

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited Any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by Scientifics Ltd.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Table of PAH (MS-SIM) (10) Results (Pages 3 to 13)
Table of GRO Results (Page 14)
Table of TPH (Si) banding (0.01) (Page 15)
GC-FID Chromatograms (Pages 16 to 37)
Table of Report Notes (Page 38)

On behalf of Scientifics:
John Elstub

Project Co-ordinator

Date of Issue: 23-Feb-2010

Tests marked '^' have been subcontracted to another laboratory.

Scientifics Ltd accepts no responsibility for any sampling not carried out by our personnel.

23-Feb-10 EXR/103458

Report Number

LN01323

Hyder Consulting Limited

Client Name

Mr D Thomas

Contact

Burton-on-Trent, Staffordshire, DE15 0YZ

Tel +44 (0) 1283 554400 Fax +44 (0) 1283 554422

Scientifics
Breiby Business Park, Ashby Road

Date Printed

Table Number

Leachate Sample Analysis

Red

<0.01

Red 8 Red Red

<u>8</u>

<0.01

Red

0 02 9 2

Req Red

<0.0001 <0 0001

0.001

0.02 0.195 0.064

0.001

0.018 0.004

0.022

Red Red

0.0001

0.00 0.003

က ⊽

4 4

TP27 0.3

TP26 0.5

TP28 0.5

TP29 0.5

0.0

<0.0001

Red

<0.01

Req Red Red

Req

<0.01 <0.01

Ξ

0.002 0.002 <0.001 0.002 0.003 -<0.001 900.0 0.004 <0.000 <0 001

0.005 0.004 0.001 0.003

0.085

0.042 0.223 0.031

> 0.006 0.003 <0.001 -0.058-0.003

0.043

Red Red

> <0.0001 <0.0001

0 0001

0.004 0.007

8 9 0.011 0.098

æ Red

0.002 0.004 -0.005-0.002 0.002 0.005 0.002

ო

TP22 1.2 TP24 0.5

TP21 0.5

TP20 0.5

1004928 1004929 1004930

1004927

BH23 0.5

BH20 0.75

œ

N

<0.0001 -0.0003-

0.007

<0 0001 <0 0001 <0.0001 <0.0001

0.003

0.241

0.004 0.001 0.08

0.013 0.028 0.011

Reg

0.0015 <0.0001

0.005 0.003 0.004 0.003 0.003 0.101

0.043 0.003

Red

Red Req Red

00

<0.0001

0 0003 <0.0001 0 0003

0.012

0.019

0.003 0.005 0.005 0.002 <0.00

0.169 0.019

0.019

Req Red

0.013

Ŋ

TP25.1.2

1004932 1004931

1004933 1004934 1004935 1004936

0.003 0.007

<0.0001 <0.0001

0.025

0.2

Red

Req Req

Red Req

mg/l TPHFID-Si

GROHSA 0.1

KONENS 0 01

ICPMSW 0.001

mg/l ICPMSW 0 0001

ICPMSW V

mg/l ICPMSW 0.002

ICPMSW 0.001

mg/l ICPMSW 0.001 yes

ug/l PAHMSW 0.01

ICPMSW 0 0001

mg/l ICPMSW 0.001

mg/l ICPMSW 0.001

mg/l KONENS yes

Units:

Method Codes:

Method Reporting Limits:

UKAS Accredited:

yes

yes

yes

yes

0.01

· TPH GC (AA)

GRO-HSA (AA)

Ammoniacal Nitrogen as N

Selenium as Se (Dissolved)

Mercury as Hg (Dissolved)

Arsenic as As (Dissolved)

Zinc as Zn (Dissolved)

Lead as Pb (Dissolved)

Copper as Cu (Dissolved)

PAH MS-SIM (16)

Cadmium as Cd (Dissolved)

Chromium as Cr (Dissolved)

Nickel as Ni (Dissolved)

Chloride as CI w

Client Sample Description

Laboratory ID Number EX/

Customer and Site Details:

Hyder Consulting Limited: LNO1323

Sample Details:

BH20 0.75

Job Number:

W10_3458

LIMS ID Number:

EX1004926

Date Booked in:

18-Feb-10

QC Batch Number:

0509

1.0

Date Extracted:

22-Feb-10

Quantitation File:

Initial Calibration

Date Analysed:

22-Feb-10

Directory:

0222PAH.MS4\

Matrix:

Leachate

Dilution:

Ext Method:

Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS#	R.T.	Concentration	% Fit
·		(min)	ug/l	
Naphthalene	91-20-3	3.30	0.027	M
Acenaphthylene	208-96-8	-	< 0.010	-
Acenaphthene	83-32-9	4.48	0.012	M
Fluorene	86-73-7	-	< 0.010	-
Phenanthrene	85-01-8	5.72	0.020	M
Anthracene	120-12-7	-	< 0.010	-
Fluoranthene	206-44-0	7.08	0.016	M
Pyrene	129-00-0	7.36	0.013	M
Benzo[a]anthracene	56-55-3	-	< 0.010	-
Chrysene	218-01-9	_	< 0.010	-
Benzo[b]fluoranthene	205-99-2	•	< 0.010	-
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	i	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	<u>-</u>
Total (USEPA16) PAHs	- !	-	< 0.198	

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	111
Acenaphthene-d10	105
Phenanthrene-d10	108
Chrysene-d12	116
Perylene-d12	122

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	91
Terphenyl-d14	97

Customer and Site Details:

Hyder Consulting Limited: LNO1323

Sample Details:

BH23 0.5

Job Number:

W10_3458

LIMS ID Number:

EX1004927

Date Booked in:

18-Feb-10

QC Batch Number:

0509

Date Extracted:

18-Feb-10

Quantitation File:

Initial Calibration

Date Analysed:

22-Feb-10 22-Feb-10

Directory:

0222PAH.M\$4\

Matrix:

Leachate

Dilution:

1.0

Ext Method:

Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS#	R.T.	Concentration	% Fit
		(min)	ug/i	
Naphthalene	91-20-3	-	< 0.010	-
Acenaphthylene	208-96-8		< 0.010	-
Acenaphthene	83-32-9	_	< 0.010	-
Fluorene	86-73-7	- .	< 0.010	-
Phenanthrene	85-01-8	_	< 0.010	-
Anthracene	120-12-7	_	< 0.010	_
Fluoranthene	206-44-0	7.07	0.030	М
Pyrene	129-00-0	7.36	0.036	М
Benzo[a]anthracene	56-55-3	-	< 0.010	
Chrysene	218-01-9	-	< 0.010	-
Benzo[b]fluoranthene	205-99-2	1	< 0.010	-
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	_
Indeno[1,2,3-cd]pyrene	193-39-5	ı	< 0.010	<u>-</u>
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs		-	< 0.206	

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	107
Acenaphthene-d10	102
Phenanthrene-d10	107
Chrysene-d12	117
Perylene-d12	123

Surrogates	% Rec	
Nitrobenzene-d5	NA	
2-Fluorobiphenyl	84	
Terphenyl-d14	94	

Customer and Site Details:

Hyder Consulting Limited: LNO1323

Sample Details:

TP20 0.5

Job Number:

W10_3458

LIMS ID Number:

EX1004928

Date Booked in:

QC Batch Number:

Date Extracted:

18-Feb-10

Quantitation File:

0509

Date Analysed:

22-Feb-10

Directory:

Initial Calibration 0222PAH.MS4\

Matrix:

22-Feb-10 Leachate

Dilution:

1.0

Ext Method:

Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS#	R.T.	Concentration	% Fit
		(min)	ug/l	
Naphthalene	91-20-3	3.30	0.021	M
Acenaphthylene	208-96-8	-	< 0.010	
Acenaphthene	83-32-9	_	< 0.010	_
Fluorene	86-73-7		< 0.010	-
Phenanthrene	85-01-8	5.72	0.022	М
Anthracene	120-12-7	-	< 0.010	-
Fluoranthene	206-44-0	7.08	0.011	M
Pyrene	129-00-0	7.37	0.013	М
Benzo[a]anthracene	56-55-3	-	< 0.010	-
Chrysene	218-01-9	-	< 0.010	_
Benzo[b]fluoranthene	205-99-2		< 0.010	
Benzo[k]fluoranthene	207-08-9		< 0.010	
Benzo[a]pyrene	50-32-8		< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5		< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2		< 0.010	_
Total (USEPA16) PAHs	-		< 0.187	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	109
Acenaphthene-d10	107
Phenanthrene-d10	110
Chrysene-d12	120
Perylene-d12	126

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	80
Terphenyl-d14	94

Customer and Site Details:

Hyder Consulting Limited: LNO1323

Sample Details: LIMS ID Number:

TP21 0.5 EX1004929

Job Number:

W10_3458

QC Batch Number:

Date Booked in:

18-Feb-10

Quantitation File:

0509

Date Extracted:

22-Feb-10

Directory:

Initial Calibration

Date Analysed:

22-Feb-10

0222PAH.MS4\

Matrix:

Leachate

Dilution:

1.0

Ext Method:

Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS#	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.30	0.015	M
Acenaphthylene	208-96-8	-	< 0.010	
Acenaphthene	83-32-9	4.48	0.016	—————————————————————————————————————
Fluorene	86-73-7	4.86	0.100	<u></u>
Phenanthrene	85-01-8	5.72	0.151	60
Anthracene	120-12-7	-	< 0.010	
Fluoranthene	206-44-0	7.08	0.025	М
Pyrene	129-00-0	7.36	0.056	M
Benzo[a]anthracene	56-55-3	-	< 0.010	
Chrysene	218-01-9	9.11	0.010	
Benzo[b]fluoranthene	205-99-2	-	< 0.010	
Benzo[k]fluoranthene	207-08-9	-	< 0.010	
Benzo[a]pyrene	50-32-8	- 1	< 0.010	 _
ndeno[1,2,3-cd]pyrene	193-39-5		< 0.010	
Dibenzo[a,h]anthracene	53-70-3		< 0.010	_
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	
Total (USEPA16) PAHs	_ [: -	< 0.463	 _

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	113
Acenaphthene-d10	112
Phenanthrene-d10	123
Chrysene-d12	147
Perylene-d12	154

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	81
Terphenyl-d14	90

Customer and Site Details:

Hyder Consulting Limited: LNO1323

Sample Details:

TP22 1.2

Job Number:

W10_3458

LIMS ID Number:

EX1004930

Date Booked in:

18-Feb-10

QC Batch Number:

0509

Date Extracted:

22-Feb-10

Quantitation File: Directory:

Initial Calibration 0222PAH.MS4\

Date Analysed: Matrix:

22-Feb-10 Leachate

Directory:

1.0

Ext Method:

Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS#	R.T.	Concentration	% Fit
		(min)	ug/l	
Naphthalene	91-20-3	3.30	0.039	М
Acenaphthylene	208-96-8	_	< 0.010	-
Acenaphthene	83-32-9	4.48	0.026	М
Fluorene	86-73-7	4.86	0.024	М
Phenanthrene	85-01-8	5.72	0.078	М
Anthracene	120-12-7	5.77	0.023	М
Fluoranthene	206-44-0	7.07	0.071	М
Pyrene	129-00-0	7.37	0.059	М
Benzo[a]anthracene	56-55-3	9.06	0.024	М
Chrysene	218-01-9	9.11	0.013	M
Benzo[b]fluoranthene	205-99-2	_	< 0.010	-
Benzo[k]fluoranthene	207-08-9	· •	< 0.010	
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	1
Dibenzo[a,h]anthracene	53-70-3	_	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	
Total (USEPA16) PAHs	-	-	< 0.427	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA 🗄
Naphthalene-d8	116
Acenaphthene-d10	111
Phenanthrene-d10	115
Chrysene-d12	125
Perylene-d12	131

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	84
Terphenyl-d14	90

Customer and Site Details:

Hyder Consulting Limited: LNO1323

Sample Details:

TP24 0.5

Job Number:

W10_3458

LIMS ID Number:

EX1004931

Date Booked in:

18-Feb-10

QC Batch Number:

0509

Date Extracted:

22-Feb-10

Quantitation File:

Initial Calibration

Date Analysed:

22-Feb-10

Directory:

0222PAH.M\$4\

Matrix:

Leachate

Dilution:

1.0

Ext Method:

Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS#	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.30	0.014	М
Acenaphthylene	208-96-8	-	< 0.010	<u></u>
Acenaphthene	83-32-9	_	< 0.010	
Fluorene	86-73-7	-	< 0.010	
Phenanthrene	85-01-8	5.72	0.017	
Anthracene	120-12-7	-	< 0.010	
Fluoranthene	206-44-0	7.08	0.011	 M
Pyrene	129-00-0	7.37	0.010	M
Benzo[a]anthracene	56-55-3	9.07	0.014	M
Chrysene	218-01-9	-	< 0.010	171
Benzo[b]fluoranthene	205-99-2	-	< 0.010	
Benzo[k]fluoranthene	207-08-9	-	< 0.010	 -
Benzo[a]pyrene	50-32-8	-	< 0.010	_ _
ndeno[1,2,3-cd]pyrene	193-39-5	_	< 0.010	_ _ _
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	 -
Benzo[g,h,i]perylene	191-24-2	_	< 0.010	
otal (USEPA16) PAHs		-	< 0.176	<u> </u>

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	112
Acenaphthene-d10	107
Phenanthrene-d10	110
Chrysene-d12	114
Perylene-d12	120

Surrogates	% Rec
Nitrobenzene-d5	NA NA
2-Fluorobiphenyl	80
Terphenyl-d14	90

Customer and Site Details:

Hyder Consulting Limited: LNO1323

Sample Details:

TP25 1.2

Job Number:

W10_3458

LIMS ID Number:

EX1004932

Date Booked in:

18-Feb-10

QC Batch Number:

0509

Date Extracted:

22-Feb-10

Quantitation File: Directory:

Initial Calibration

Date Analysed:

22-Feb-10

0222PAH.MS4\

Matrix:

Leachate

Dilution:

1.0

Ext Method:

Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS#	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.30	0.016	
Acenaphthylene	208-96-8	-	< 0.010	• -
Acenaphthene	83-32-9	-	< 0.010	
Fluorene	86-73-7	-	< 0.010	
Phenanthrene	85-01-8	5.72	0.026	M
Anthracene	120-12-7	-	< 0.010	
Fluoranthene	206-44-0	7.07	0.022	
Pyrene	129-00-0	7.36	0.019	<u>м</u>
Benzo[a]anthracene	56-55-3	_	< 0.010	
Chrysene	218-01-9	· -	< 0.010	
Benzo[b]fluoranthene	205-99-2	-	< 0.010	
Benzo[k]fluoranthene	207-08-9	-	< 0.010	 -
Benzo[a]pyrene	50-32-8	-	< 0.010	
Indeno[1,2,3-cd]pyrene	193-39-5	· -	< 0.010	
Dibenzo[a,h]anthracene	53-70-3	- 1	< 0.010	
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs	-		< 0.203	

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	108
Acenaphthene-d10	108
Phenanthrene-d10	110
Chrysene-d12	122
Perylene-d12	131

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	76
Terphenyl-d14	96

Customer and Site Details:

Hyder Consulting Limited: LNO1323

Sample Details: LIMS ID Number:

TP26 0.5

Job Number:

W10_3458

QC Batch Number:

EX1004933

Date Booked in:

18-Feb-10

0509

Date Extracted:

22-Feb-10

Quantitation File: Directory:

Initial Calibration

Date Analysed:

22-Feb-10

0222PAH.MS4\

Matrix:

Leachate

Dilution:

1.0

Ext Method:

Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS#	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	-	< 0.010	
Acenaphthylene	208-96-8		< 0.010	—— <u> </u>
Acenaphthene	83-32-9	-	< 0.010	 -
Fluorene	86-73-7	-	< 0.010	
Phenanthrene	85-01-8	5.72	0.010	
Anthracene	120-12-7	-	< 0.010	141
Fluoranthene	206-44-0	7.08	0.063	
Pyrene	129-00-0	7:36	0.059	<u></u>
Benzo[a]anthracene	56-55-3		< 0.010	191
Chrysene	218-01-9	_	< 0.010	
Benzo[b]fluoranthene	205-99-2	-	< 0.010	 -
Benzo[k]fluoranthene	207-08-9	_	< 0.010	
Benzo[a]pyrene	50-32-8	-	< 0.010	 -
ndeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	 _
Dibenzo[a,h]anthracene	53-70-3	_	< 0.010	 -
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	 _
Total (USEPA16) PAHs			< 0.262	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	105
Acenaphthene-d10	104
Phenanthrene-d10	109
Chrysene-d12	123
Perylene-d12	130

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	90
Terphenyl-d14	100

Customer and Site Details:

Hyder Consulting Limited: LNO1323

Sample Details:

TP27 0.3

Job Number:

W10_3458

LIMS ID Number:

EX1004934

Date Booked in:

18-Feb-10

QC Batch Number:

0509

Date Extracted:

22-Feb-10

Quantitation File:

Initial Calibration

Date Analysed:

22-Feb-10

Directory:

0222PAH.MS4\

Matrix:

Leachate

Dilution:

1.0

Ext Method:

Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS#	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.30	0.047	M
Acenaphthylene	208-96-8	<u> </u>	< 0.010	
Acenaphthene	83-32-9	4.48	0.024	М
Fluorene	86-73-7	4.87	0.034	<u></u> М
Phenanthrene	85-01-8	5.72	0.149	60
Anthracene	120-12-7	5.77	0.040	61
Fluoranthene	206-44-0	7.07	0.101	M
Pyrene	129-00-0	7.36	0.073	М
Benzo[a]anthracene	56-55-3		< 0.010	_
Chrysene	218-01-9	9.11	0.011	M
Benzo[b]fluoranthene	205-99-2	-	< 0.010	
Benzo[k]fluoranthene	207-08-9		< 0.010	
Benzo[a]pyrene	50-32-8	-	< 0.010	<u> </u>
Indeno[1,2,3-cd]pyrene	193-39-5	_	< 0.010	
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	
Total (USEPA16) PAHs			< 0.559	

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	109
Acenaphthene-d10	105
Phenanthrene-d10	111
Chrysene-d12	125
Perylene-d12	132

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	86
Terphenyl-d14	99

Customer and Site Details:

Hyder Consulting Limited: LNO1323

Sample Details:

TP28 0.5

Job Number:

W10 3458

LIMS ID Number:

EX1004935

Date Booked in:

18-Feb-10

QC Batch Number:

0509

Date Extracted:

22-Feb-10

Quantitation File: Directory:

Initial Calibration

Date Analysed:

22-Feb-10

Directory:

0222PAH.M\$4\

Matrix:

Leachate

Dilution:

1.0

Ext Method:

Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS#	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.30	0.016	
Acenaphthylene	208-96-8	_	< 0.010	
Acenaphthene	83-32-9	-	< 0.010	
Fluorene	86-73-7	-	< 0.010	
Phenanthrene	85-01-8	5.72	0.029	
Anthracene	120-12-7		< 0.010	
Fluoranthene	206-44-0	7.07	0.024	М
Pyrene	129-00-0	7.37	0.020	M
Benzo[a]anthracene	56-55-3		< 0.010	
Chrysene	218-01-9	9.11	0.011	М
Benzo[b]fluoranthene	205-99-2	10.60	0.013	M
Benzo[k]fluoranthene	207-08-9	-	< 0.010	_
Benzo[a]pyrene	50-32-8	-	< 0.010	
indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	
Benzo[g,h,i]perylene	191-24-2	_	< 0.010	
Total (USEPA16) PAHs		-	< 0.213	_

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	113
Acenaphthene-d10	107
Phenanthrene-d10	111
Chrysene-d12	117
Perylene-d12	127

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	87
Terphenyl-d14	95

Customer and Site Details:

Hyder Consulting Limited: LNO1323

Sample Details:

TP29 0.5

Job Number:

W10 3458

LIMS ID Number:

EX1004936

Date Booked in:

18-Feb-10

QC Batch Number:

0509

Date Extracted:

22-Feb-10

Quantitation File:

Initial Calibration

Date Analysed:

22-Feb-10

Directory:

0222PAH.MS4\

Matrix:

22-reb-10 Leachate

Dilution:

4 4

Ext Method:

Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS#	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.30	0.044	. M
Acenaphthylene	208-96-8	4.36	0.017	M
Acenaphthene	83-32-9	4.48	0.061	<u></u>
Fluorene	86-73-7	4.86	0.369	85
Phenanthrene	85-01-8	5.72	0.982	82
Anthracene	120-12-7	-	< 0.014	<u>-</u>
Fluoranthene	206-44-0	7.08	0.043	М
Pyrene	129-00-0	7.36	0.134	М
Benzo[a]anthracene	56-55-3	-	< 0.014	
Chrysene	218-01-9	-	< 0.014	
Benzo[b]fluoranthene	205-99-2		< 0.014	
Benzo[k]fluoranthene	207-08-9	_	< 0.014	
Benzo[a]pyrene	50-32-8		< 0.014	
ndeno[1,2,3-cd]pyrene	193-39-5	-	< 0.014	
Dibenzo[a,h]ánthracene	53-70-3	- 1	< 0.014	
Benzo[g,h,i]perylene	191-24-2	· -	< 0.014	
Total (USEPA16) PAHs	-	-	< 1.776	

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	109
Acenaphthene-d10	105
Phenanthrene-d10	108
Chrysene-d12	122
Perylene-d12	126

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	89
Terphenyl-d14	99

Gasoline Range Organics

(BTEX and Aliphatic Carbon Ranges)

Hyder Consulting Limited: LNO1323 Customer and Site Details:

Job Number: Directory: Method:

D:\TES\DATA\Y2010\0222HSA_GC12\022210 2010-02-22 16-13-00\029F2101.D

Headspace GCFID

Date Booked in: Date extracted: Matrìx:

LEACHATE

18-Feb-10

Date Analysed:

22-Feb-10, 23:0 22-Feb-10

* Sample data with an asterisk are not UKAS accredited.

	Total GRO	<0.1	<0.1	1.0>	<0.1	<0.1	<0.1	<0.1	<0.1	¢0.1	<0.1	<0.1						
	>C8 - C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1						
Aliphatics	82 - 72<	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1						
·	>C6 - C7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					-	
	C5 - C6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				,		
	o-Xylene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005						
(l/bi	m/p-Xylene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005						
Concentration, (mg/l)	Ethyl benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	,					
Con	Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005						
	Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005						
	Client ID	BH20 0.75	BH23 0.5	TP20 0.5	TP21 0.5	TP22 1.2	TP24 0.5	TP25 1.2	TP26 0.5	TP27 0.3	TP28 0.5	TP29 0.5						
	Sample ID	EX1004926	EX1004927	EX1004928	EX1004929	EX1004930	EX1004931	EX1004932	EX1004933	EX1004934	EX1004935	EX1004936						•
L		*	*	*	<u> </u>	*	*	*	*	*	*	*						

Xylenes have been deducted from the C8-C10 band to give the aliphatic fraction, however aromatic compounds may still be contributing to this fraction. Note: Benzene elutes between C6 and C7, toluene elutes between C7 and C8, ethyl benzene and the xylenes elute between C8 and C9.

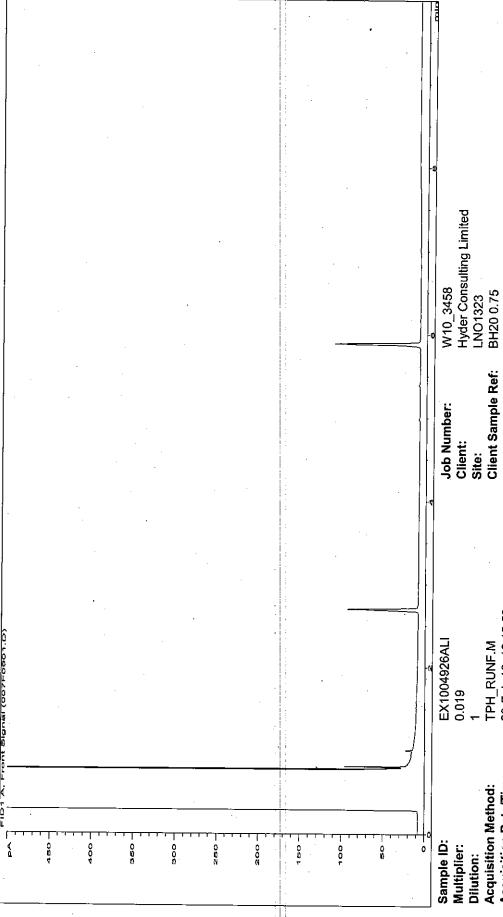
ALIPHATIC / AROMATIC FRACTION BY GC/FID

Customer and Site Details: Job Number: QC Batch Number: Directory: Method:

Hyder Consulting Limited: LNO1323
W10_3458
W100509
Eluents: Hexane, DCM
D:\TES\DATANY2010\0223TPH_GC16\022310 2010-02-23 09-34-47\066B1901.D

Matrix: Leachate
Date Booked ir 18-Feb-10
Date Extracted 22-Feb-10
Date Analysed 23-Feb-10, 15:05:12

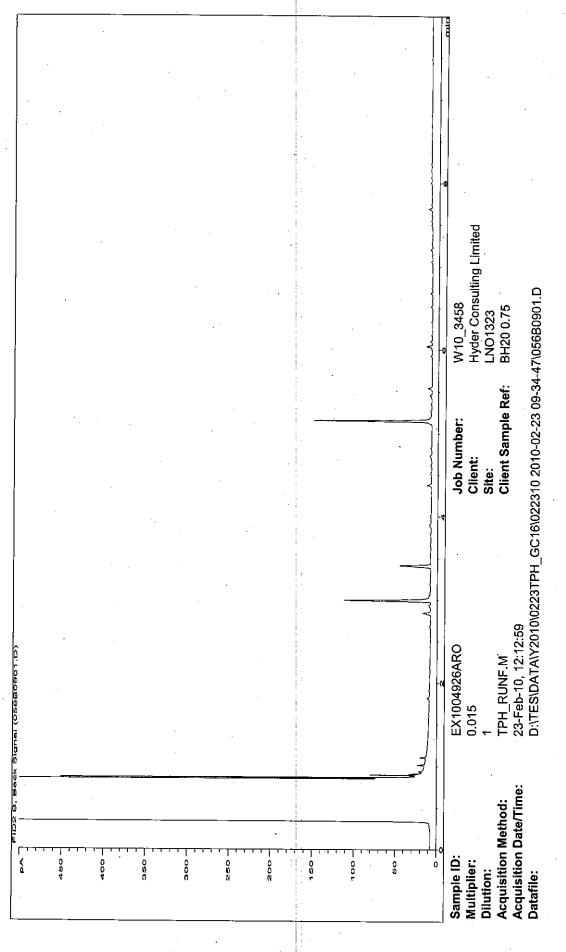
						Concentration (ma/l)	ion. (ma/l)						
* This sample data is not UKAS accredited.	S accredited,	>C8 - C10	, C10	>C10 - C12	-C12	>C12 - C16	.C16	>C16	>C16 - C21	>C21	>C21 - C35	>C8 - C40	C40
Sample ID	Client ID	Aliphatics	Aromatics	Aliphatics	Aromatics	Aliphatics	Aromatics	Aliphatics	Aromatics	Aliphatics	Aromatics	Aliphatics	Aromatics
EX1004926	BH20 0.75	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
EX1004927	BH23 0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1004928	TP20 0 5	<0.01	<0.01	<0.01	<0.01	<0.01	. <0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1004929	TP2105	<0.01	<0.01	<0.01	<0.01	0.013	<0.01	0.079	0.034	0.047	0 025	0.141	0.065
EX1004930	TP22 1 2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1004931	TP24 0 5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1004932	TP25 1 2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1004933	TP26 0 5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1004934	TP27 0 3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1004935	TP2805	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.018	<0.01	0.02	<0.01
EX1004936	TP2905	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.021	0.032	0.026	0 011	0.055	0.053
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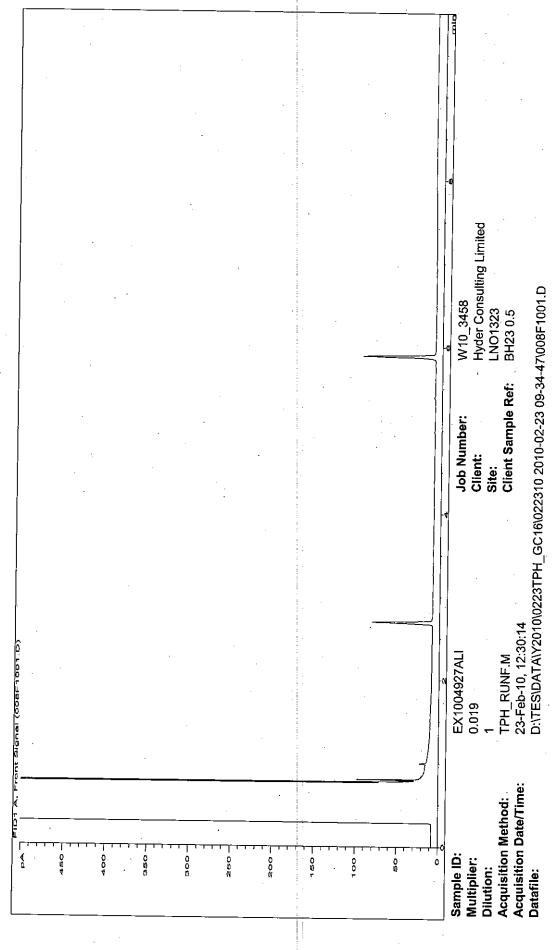
TPH_RUNF.M 23-Feb-10, 12:12:59 D:\TES\DATA\Y2010\0223TPH_GC16\022310 2010-02-23 09-34-47\007F0901.D Client: Site: Client Sample Ref:

Acquisition Date/Time: Datafile: Acquisition Method:

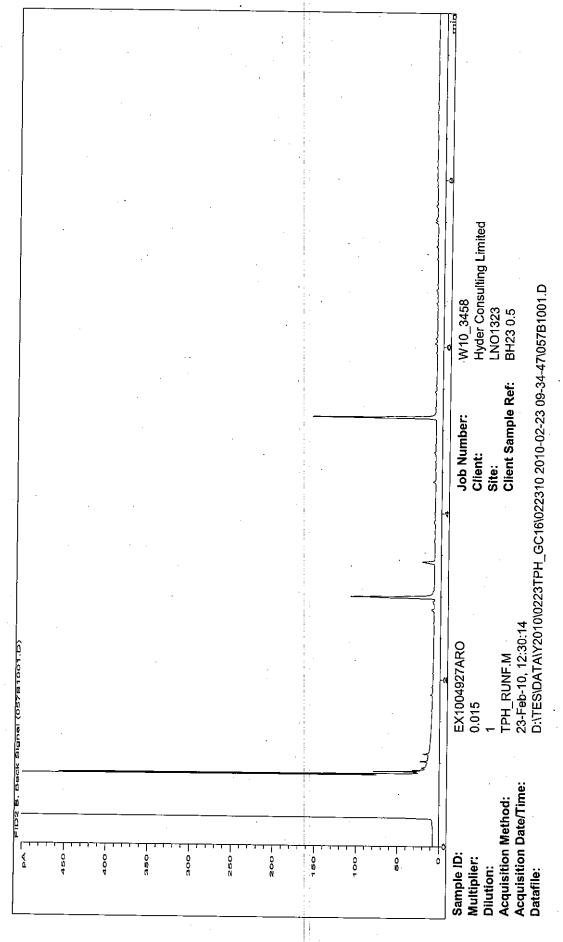
Where individual results are flagged see report notes for status.



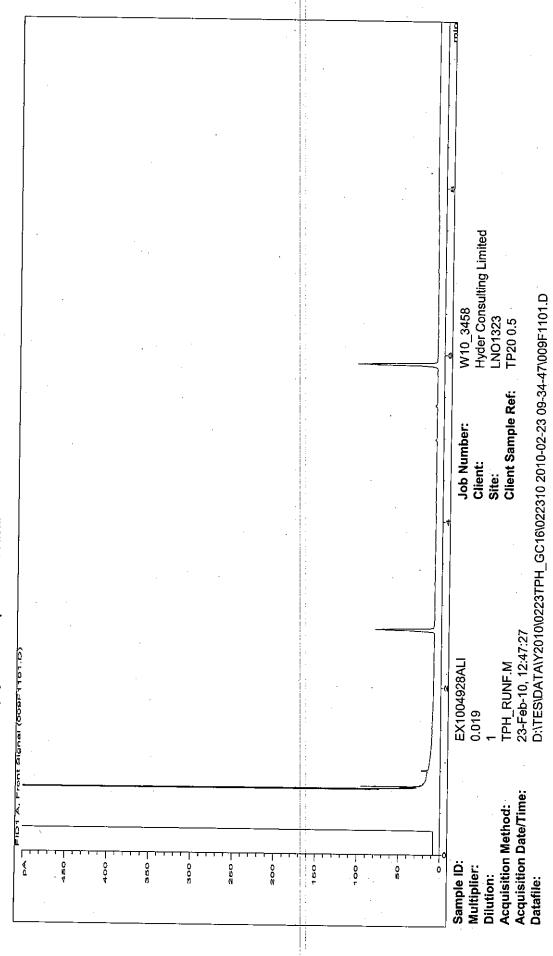
Where individual results are flagged see report notes for status.



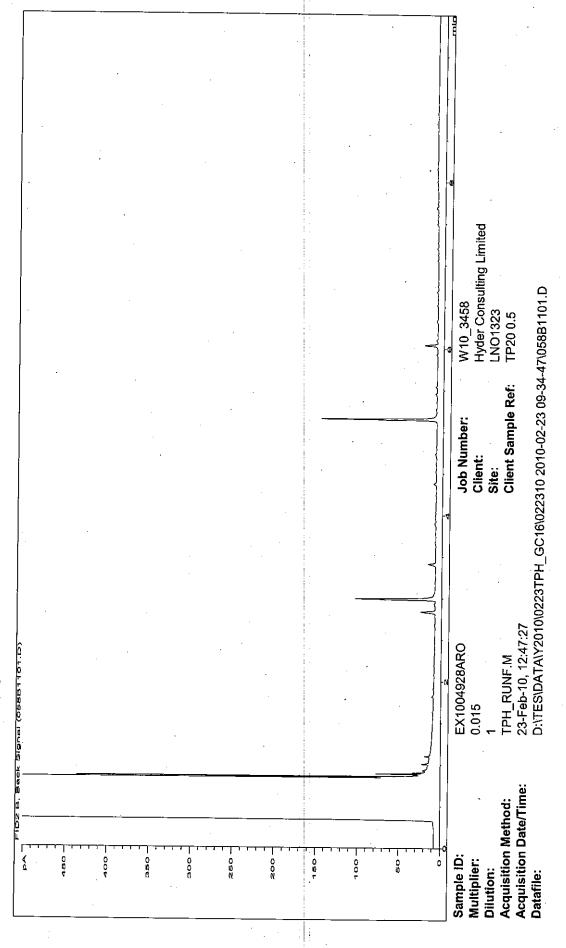
Where individual results are flagged see report notes for status.



Where individual results are flagged see report notes for status.



Where individual results are flagged see report notes for status.



Where individual results are flagged see report notes for status.

Client: Site: Client Sample Ref: Job Number: EX1004929AL1 0.019 Acquisition Method: Acquisition Date/Time: Datafile:

200

260

130

100

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.

4

460

400

950

300

23-Feb-10, 13:04:40 D:\TES\DATA\Y2010\0223TPH_GC16\022310 2010-02-23 09-34-47\010F1201.D

TPH_RUNF.M

Sample ID:

Multiplier:

Dilution:

100

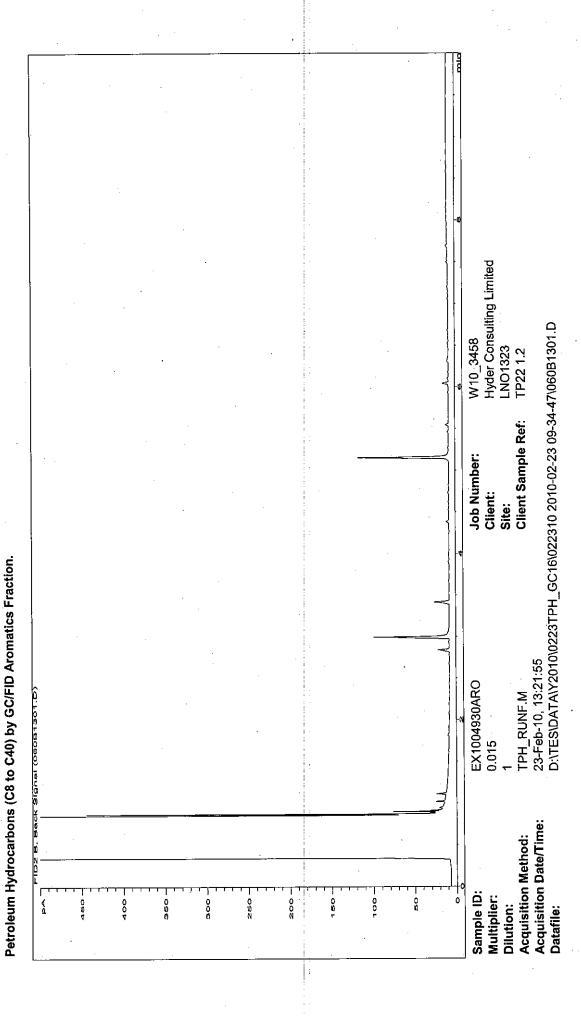
W10_3458 Hyder Consulting Limited LNO1323 TP21 0.5

Where individual results are flagged see report notes for status.

Where individual results are flagged see report notes for status.

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.

Page 24 of 38



23-Feb-10, 13:39:08 D:\TES\DATA\Y2010\0223TPH_GC16\022310 2010-02-23 09-34-47\012F1401.D

TPH_RUNF.M

Acquisition Date/Time: Acquisition Method:

Datafile:

EX1004931ALI

0.019

Sample ID: Multiplier:

Dilution:

50

100

160

W10_3458 Hyder Consulting Limited LNO1323 TP24 0.5

Client: Site: Client Sample Ref:

Job Number:

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.

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004

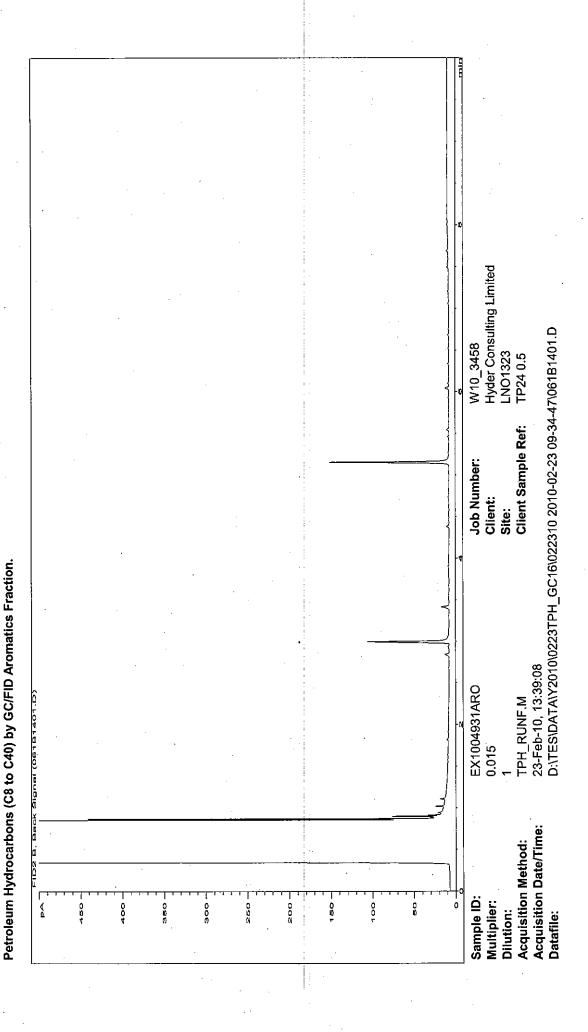
400

360

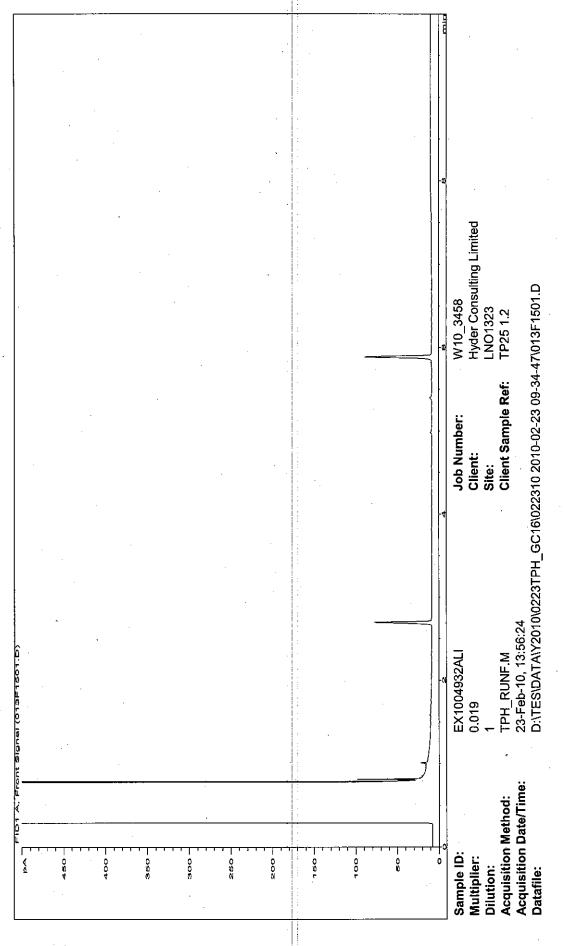
3000

260

200



Page 27 of 38



Where individual results are flagged see report notes for status.

23-Feb-10, 13:56:24 D:\TES\DATA\Y2010\0223TPH_GC16\022310 2010-02-23 09-34-47\062B1501.D

W10_3458 Hyder Consulting Limited LNO1323 TP25 1.2

Client: Site: Client Sample Ref:

Job Number:

EX1004932ARO 0.015

Sample ID:

Multiplier:

Dilution:

90

1001

180

200

TPH_RUNF.M

Acquisition Method: Acquisition Date/Time: Datafile:

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.

4

450

400

350

300

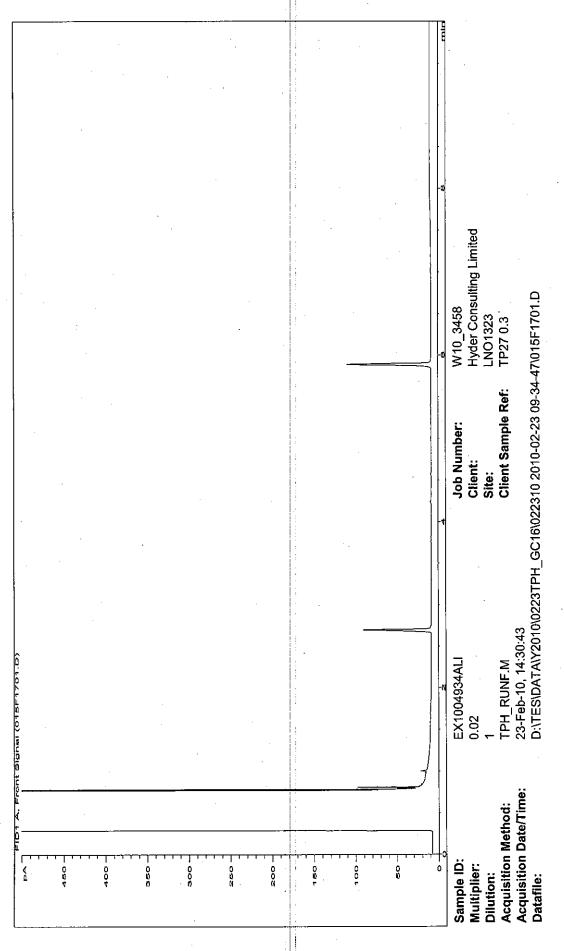
250

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.

Page 30 of 38

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.

Page 31 of 38



Where individual results are flagged see report notes for status.

Job Number:

EX1004934ARO 0.015

Sample ID:

Multiplier:

Dilution:

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.

4

260

200

980

400

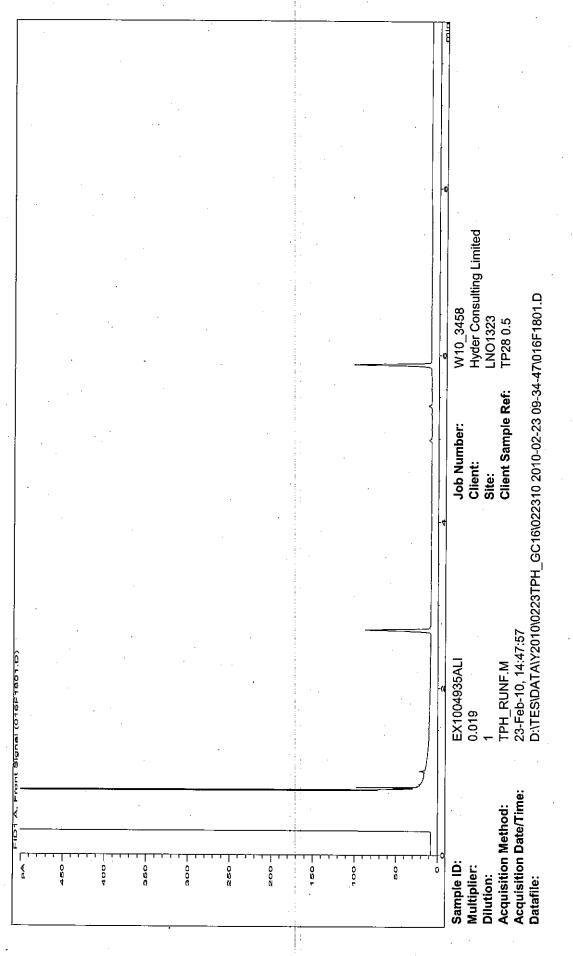
300

150.

100

ò

. Where individual results are flagged see report notes for status.



Where individual results are flagged see report notes for status.

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.

Where individual results are flagged see report notes for status.

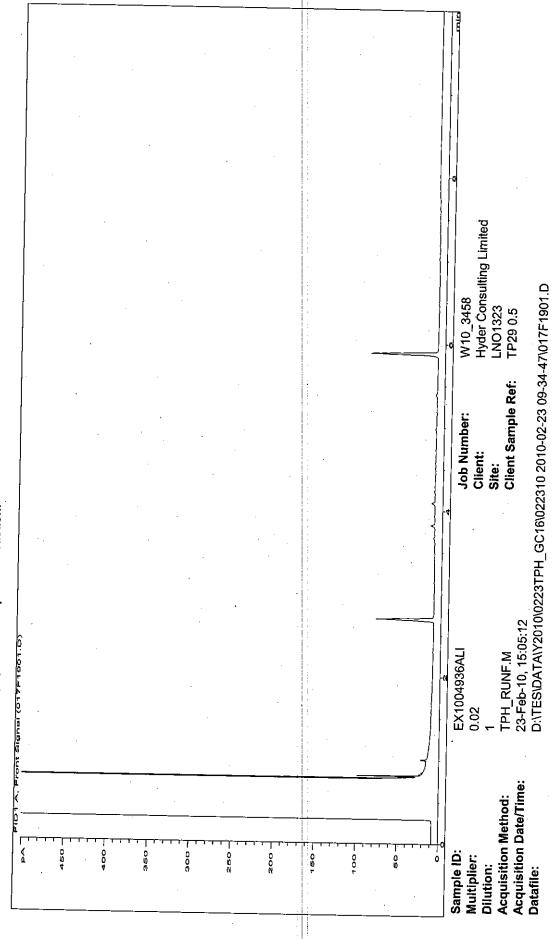
23-Feb-10, 14:47:57 D:\TES\DATA\Y2010\0223TPH_GC16\022310 2010-02-23 09-34-47\065B1801.D

Client: Site: Client Sample Ref:

TPH_RUNF.M

Acquisition Method: Acquisition Date/Time: Datafile:

Dilution:



Where individual results are flagged see report notes for status.

23-Feb-10, 15:05:12 D:\TES\DATA\Y2010\0223TPH_GC16\022310 2010-02-23 09-34-47\066B1901.D

W10_3458 Hyder Consulting Limited

LNO1323 TP29 0.5

Client: Site: Client Sample Ref:

Job Number:

EX1004936ARQ 0.015

Sample ID:

Multiplier:

Dilution:

0

TPH_RUNF.M

Acquisition Method: Acquisition Date/Time: Datafile:

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.

4

000

360

400

000

250

200

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on an air dried basis
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm3@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile
CR Denotes Crocidolite
AM Denotes Amosite
NADIS Denotes No Asbestos Detected In Sample
NBFO Denotes No Bulk Fibres Observed

Symbol Reference

- A Sub-contracted analysis
- \$\$ Unable to analyse due to the nature of the sample
- ¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols. This may have resulted in deterioration of the sample(s) during transit to the laboratory. Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling
- ¥ Results for guidance only due to possible interference
- & Blank corrected result
- I.S Insufficient sample to complete requested analysis
- 1.S(g) Insufficient sample to re-analyse, results for guidance only
- Intf Unable to analyse due to interferences
- N.D Not determined
- N.Det Not detected
- Req Analysis requested, see attached sheets for results
- ▶ Raised detection limit due to nature of the sample
- * All accreditation has been removed by the laboratory for this result
- # MCERTS accreditation has been removed for this result

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Our Ref: EXR/103411 (Ver. 1) Your Ref:

February 23, 2010

Hyder Consulting Limited 5th Floor The Pethay All Saints Street Bristol BS1 2NL scientifics

Scientifics Ltd Bretby Business Park Ashby Road Burton-on-Trent Staffordshire DE15 0YZ

Telephone: 01283 554400 Facsimile: 01283 554422

For the attention of

Dear

WATER SAMPLE ANALYSIS - LNO1323

Samples from the above site have been analysed in accordance with the schedule supplied. The sample details and the results of analyses for these samples are given in the appended report.

An invoice for this work will follow under a separate cover.

Please be aware that from 1 January 2003 our policy for the retention of paper based laboratory records and analysis reports will be 6 years.

The work was carried out in accordance with Scientifics Ltd Standard Terms and Conditions of Contract.

If I can be of any further assistance please do not hesitate to contact me.

Yours sincerely

for Scientifics

Project Co-ordinator

TEST REPORT WATER SAMPLE ANALYSIS



Report No. EXR/103411 (Ver. 1)

Hyder Consulting Limited 5th Floor The Pethay All Saints Street Bristol BS1 2NL

Site: LNO1323

The 5 samples described in this report were logged for analysis by Scientifics on 17-Feb-2010. The analysis was completed by: 23-Feb-2010

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited Any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by Scientifics Ltd.

The following tables are contained in this report:

Table 1 Main Analysis Results (Page 2)
Table of PAH (MS-SIM) (10) Results (Pages 3 to 7)
Table of GRO Results (Page 8)
Table of TPH (Si) banding (0.01) (Page 9)
GC-FID Chromatograms (Pages 10 to 19)
Table of Report Notes (Page 20)

On behalf of Scientifics :

Project Co-ordinator

Date of Issue: 23-Feb-2010

Tests marked '^' have been subcontracted to another laboratory.

Scientifics Ltd accepts no responsibility for any sampling not carried out by our personnel.

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Where

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:

Hyder Consulting Limited: LNO1323

Sample Details:

BH22

Job Number:

W10_3411

LIMS ID Number:

EX1004775

Date Booked in:

17-Feb-10

QC Batch Number:

0503

Date Extracted:

19-Feb-10

Quantitation File:

Initial Calibration

Date Analysed:

19-Feb-10

Directory:

219PAH.MS10\

Matrix:

Water

Dilution:

1.0

Ext Method:

Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS#	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.39	0.023	95
Acenaphthylene	208-96-8	_	< 0.010	
Acenaphthene	83-32-9	-	< 0.010	-
Fluorene	86-73-7		< 0.010	-
Phenanthrene	85-01-8		< 0.010	<u>-</u>
Anthracene	120-12-7	•	< 0.01 <u>0</u>	<u> </u>
Fluoranthene	206-44-0		< 0.010	<u>-</u>
Pyrene	129-00-0	-	< 0.010	<u> </u>
Benzo[a]anthracene	56-55-3	·	< 0.010	-
Chrysene	218-01-9		< 0.010	-
Benzo[b]fluoranthene	205-99-2		< 0.010	<u>-</u>
Benzo[k]fluoranthene	207-08-9		< 0.010	<u> </u>
Benzo[a]pyrene	50-32-8	•	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	
Dibenzo[a,h]anthracene	53-70-3		< 0.010	
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	<u>-</u>
Total (USEPA16) PAHs	_		< 0.173	

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	107
Acenaphthene-d10	108
Phenanthrene-d10	115
Chrysene-d12	111
Perylene-d12	117

Surrogates	% Rec
Nitrobenzene-d5	NA NA
2-Fluorobiphenyl	88
Terphenyl-d14	98

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:

Hyder Consulting Limited: LNO1323

Sample Details:

BH23

Job Number:

W10_3411

LIMS ID Number:

EX1004776

Date Booked in:

17-Feb-10

QC Batch Number:

0503

Date Extracted:

19-Feb-10

Quantitation File:

Initial Calibration

Date Analysed:

19-Feb-10

Directory:

219PAH.MS10\

Matrix:

Water

Dilution:

1.0

Ext Method:

Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS#	R.T.	Concentration	% Fit
		(min)	ug/l	,
Naphthalene	91-20-3	-	< 0.010	
Acenaphthylene	208-96-8	-	< 0.010	<u>-</u>
Acenaphthene	83-32-9	•	< 0.010	<u>.</u>
Fluorene	86-73-7	_	< 0.010	-
Phenanthrene	85-01-8	-	< 0.010	
Anthracene	120-12-7	- *.	< 0.010	_
Fluoranthene	206-44-0	-	< 0.010	- .
Pyrene	129-00-0	-	< 0.010	<u>-</u>
Benzo[a]anthracene	56-55-3	-	< 0.010	
Chrysene	218-01-9	- .	< 0.010	<u>-</u>
Benzo[b]fluoranthene	205-99-2	_	< 0.010	<u>-</u>
Benzo[k]fluoranthene	207-08-9	<u>-</u>	< 0.010	
Benzo[a]pyrene	50-32-8	. .	< 0.010	· -
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs		-	< 0.160	

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area	
1,4-Dichlorobenzene-d4	NA	
Naphthalene-d8	102	
Acenaphthene-d10	103	
Phenanthrene-d10	107	
Chrysene-d12	101	
Perylene-d12	105	

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	91
Terphenyl-d14	100

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:

Hyder Consulting Limited: LNO1323

Sample Details:

BH24

Job Number:

W10_3411

LIMS ID Number:

EX1004777

Date Booked in:

17-Feb-10

QC Batch Number:

0503

Date Extracted:

19-Feb-10

Quantitation File:

Initial Calibration

Date Analysed:

19-Feb-10

Directory:

219PAH.MS10\

Matrix:

Water

Dilution:

1.0

Ext Method:

Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS#	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	<u> </u>	< 0.010	
Acenaphthylene	208-96-8	_	< 0.010	-
Acenaphthene	83-32-9	-	< 0.010	
Fluorene	86-73-7	· -	< 0.010	_
Phenanthrene	85-01-8	-	< 0.010	_
Anthracene	120-12-7	-	< 0.010	_
Fluoranthene	206-44-0	-	< 0.010	_
Pyrene	129-00-0	-	< 0.010	-
Benzo[a]anthracene	56-55-3	<u>-</u>	< 0.010	
Chrysene	218-01-9	: -	< 0.010	_
Benzo[b]fluoranthene	205-99-2	-	< 0.010	
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	
Total (USEPA16) PAHs	-		< 0.160	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	102
Acenaphthene-d10	102
Phenanthrene-d10	107
Chrysene-d12	99
Perylene-d12	106

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	89
Terphenyl-d14	97

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:

Hyder Consulting Limited: LNO1323

Sample Details:

BH25

Job Number:

W10_3411

LIMS ID Number:

EX1004778

Date Booked in:

17-Feb-10

QC Batch Number:

0503

Date Extracted:

19-Feb-10

Quantitation File:

Initial Calibration

Date Analysed: Matrix:

19-Feb-10 Water

Directory: Dilution:

219PAH.MS10\ 1.0

Ext Method:

Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS#	R.T.	Concentration	% Fit
		(min)	ug/l	
Naphthalene	91-20-3	-	< 0.010	-
Acenaphthylene	208-96-8		< 0.010	-
Acenaphthene	83-32-9	•	< 0.010	
Fluorene	86-73-7	-	< 0.010	1
Phenanthrene	85-01-8	•	< 0.010	
Anthracene	120-12-7	-	< 0.010	-
Fluoranthene	206-44-0	· •	< 0.010	
Pyrene	129-00-0	-	< 0.010	-
Benzo[a]anthracene	56-55-3	-	< 0.010	-
Chrysene	218-01-9	-	< 0.010	-
Benzo[b]fluoranthene	205-99-2	-	< 0.010	-
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-1	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	_	< 0.010	
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	
Total (USEPA16) PAHs		· -	< 0.160	~

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA .
Naphthalene-d8	98
Acenaphthene-d10	98
Phenanthrene-d10	105
Chrysene-d12	101
Perylene-d12	104

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	98
Terphenyl-d14	105

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:

Hyder Consulting Limited: LNO1323

Sample Details:

BH26

Job Number:

W10_3411

LIMS ID Number:

EX1004779

Date Booked in:

17-Feb-10

QC Batch Number:

0503

Date Extracted:

19-Feb-10

Quantitation File:

Date Analysed:

19-Feb-10

Directory:

Initial Calibration 219PAH.MS10\

Matrix:

Water

Dilution:

1.0

Ext Method:

Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS#	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	_	< 0.010	
Acenaphthylene	208-96-8	-	< 0.010	
Acenaphthene	83-32-9	-	< 0.010	
Fluorene	86-73-7		< 0.010	
Phenanthrene	85-01-8	-	< 0.010	
Anthracene	120-12-7	_	< 0.010	-
Fluoranthene	206-44-0	-	< 0.010	
Pyrene	129-00-0	· -	< 0.010	-
Benzo[a]anthracene	56-55-3	9.21	0.012	59
Chrysene	218-01-9	-	< 0.010	
Benzo[b]fluoranthene	205-99-2	_	< 0.010	
Benzo[k]fluoranthene	207-08-9	_	< 0.010	
Benzo[a]pyrene	50-32-8	_	< 0.010	
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	
Total (USEPA16) PAHs	_		< 0.162	 -

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	103
Acenaphthene-d10	103
Phenanthrene-d10	106
Chrysene-d12	101
Perylene-d12	111

Surrogates	% Rec
Nitrobenzene-d5	NA NA
2-Fluorobiphenyl	83
Terphenyl-d14	92

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Gasoline Range Organics

(BTEX and Aliphatic Carbon Ranges)

Hyder Consulting Limited: LNO1323 Customer and Site Details:

D:\TES\DATA\Y2010\0223HSA_GC12\022310 2010-02-23 05-50-11\113B1301.D W10 3411 Job Number:

Directory: Method:

Headspace GCFID

Matrix:

23-Feb-10, 10:0 23-Feb-10 17-Feb-10 Water

Date Booked in: Date extracted: Date Analysed:

* Sample data with an asterisk are not UKAS accredited.

					1:	•	 			 							
	Total GRO	<0.1	<0.1	0 .1	<0.1	¢0.1											
	>C8 - C10	<0.1	<0.1	<0.1	<0.1	60.1											
Aliphatics	>C7 - C8	<0.1	<0.1	<0.1	<0.1	0.1		- 1		•							
	>C6 - C7	<0.1	<0.1	<0.1	<0.1	<0.1											
	cs - ce	<0.1	<0.1	<0.1	<0.1	<0.1							-				
	o-Xylene	<0.005	<0.005	<0.005	<0.005	<0.005											
g/l)	m/p-Xylene	<0.005	<0.005	<0.005	<0.005	<0.005											
ncentration, (mg/l)	Ethyl benzene m/p-Xylene	<0.005	<0.005	<0.005	<0.005	<0.005											
Con	- Toluene	<0.005	<0.005	<0.005	<0.005	<0.005											
	Benzene	<0.005	<0.005	<0.005	<0.005	<0.005								i.			
	Client ID	BH22	BH23	BH24	BH25	BH26							÷				
	Sample ID	EX1004775	EX1004776	EX1004777	EX1004778	EX1004779											
			١,	*	1		 L	_	1_		<u> </u>	<u>J:</u>	<u> </u>		1_	1_	<u> </u>

Note: Benzene elutes between C6 and C7, toluene elutes between C7 and C8, ethyl benzene and the xylenes elute between C8 and C9.
Xylenes have been deducted from the C8-C10 band to give the aliphatic fraction, however aromatic compounds may still be contributing to this fraction.

Where individual results are flagged see report notes for status

oe 9 of 20

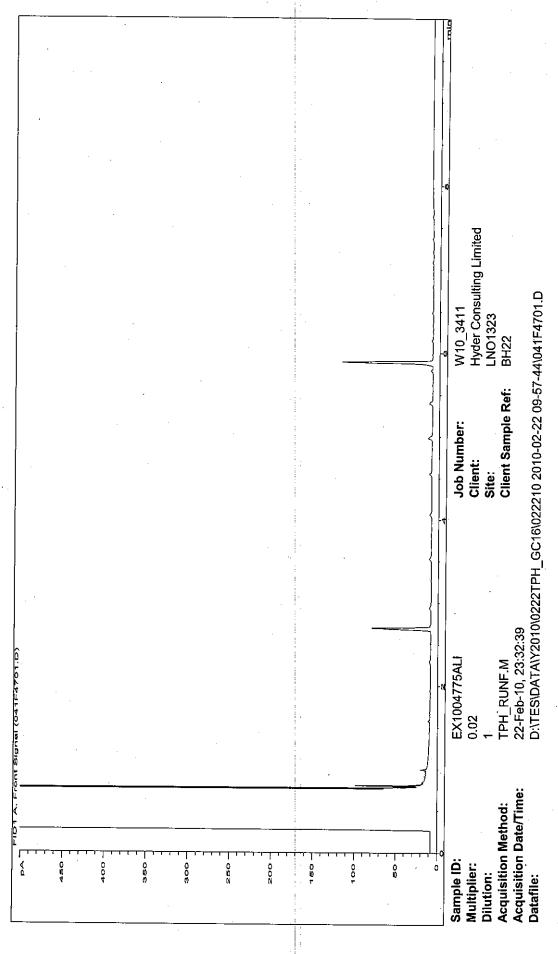
ALIPHATIC / AROMATIC FRACTION BY GC/FID

Customer and Site Details:	Hyder Consulting Limited : LNO1323
Job Number:	W10_3411
QC Batch Number:	100503
Directory:	D:\TES\DATA\Y2010\0222TPH GC16\0
Method:	Concretion Council

Silica gel	Hexane, DCM	2 09-57-44\093B5101.D
Separation:	Efuents:	GC16\022210 2010-02-2
. 3411	8	SIDATAIY2010\0222TPH_GC16\022210 2010-02-22 09-57-44\093B5101.D

Matrix: Date Booked in	Water
Date Extracted	
Date Analysed	23-F

						Concentration, (mg/l)	lion, (mg/l)						
* This sample data is not UKAS accredited.	4S accredited.	×28	>C8 - C10	>C10	>C10-C12	>C12	>C12 - C16	>C16 - C21	-C21	>C21 - C35	C35	>CB - C40	040
Cl alumeS	Cliont 10	Alinhation	Anomalian	AWall-61							3	3	240
			Aromancs	-Aupnatics	Aromatics	-Allphatics	Aromatics	_Aliphatics_	Aromatics	Allphatics	Aromatics	Aliphatics	Aromatics
EX1004775	BH22	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.011	0.021	0.018
EX1004776	BH23	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	\$0.00	\$0.01	0.014	2 5
EX1004777	BH24	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	\$0.03	\$0.00 10.00	0.041	2000	1200
EX1004778	BH25	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	\$0.01	2 2	1000	000	10.0
EX1004779	BH26	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	\$0.01	<0.01	0.05	0.012	2 2
													2
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i													İ

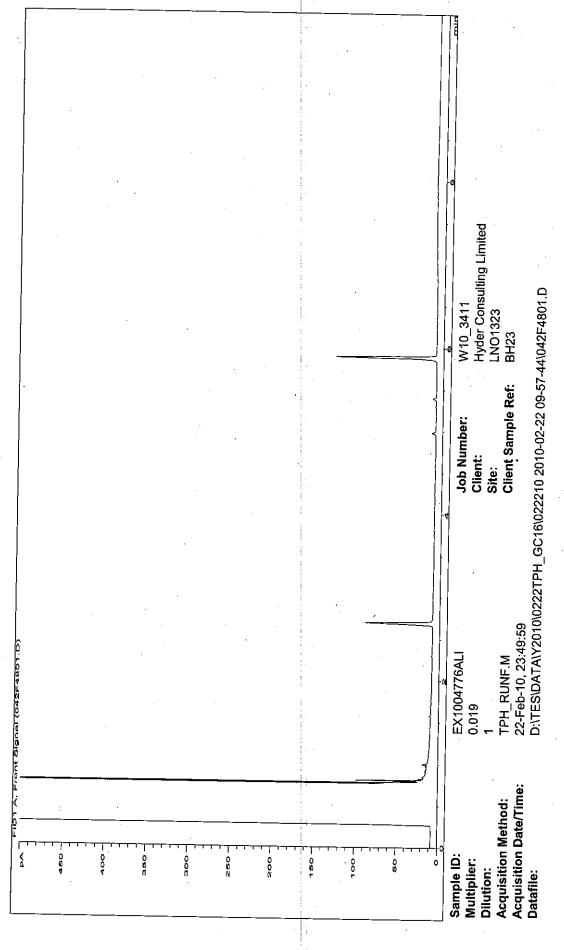


Where individual results are flagged see report notes for status.

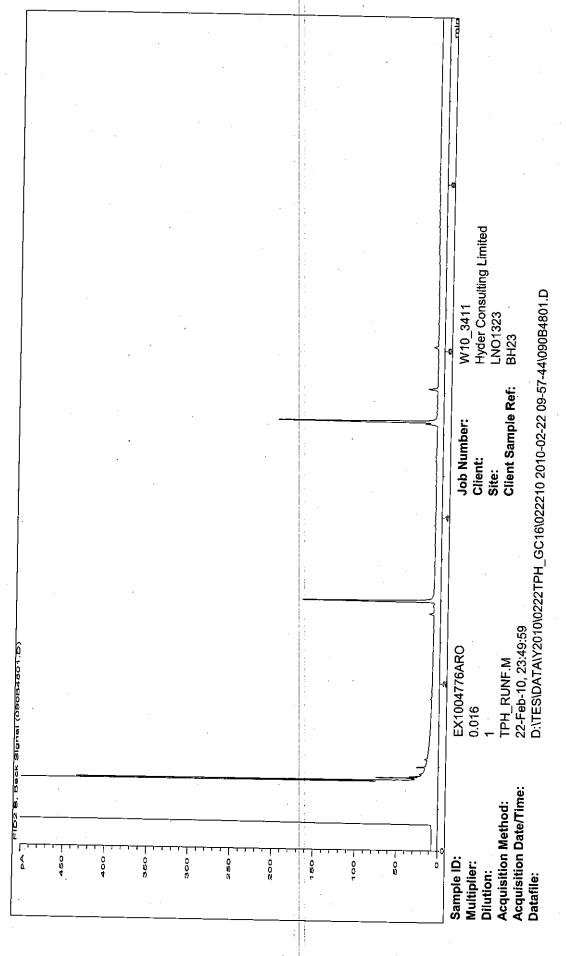
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.

W10_3411 Hyder Consulting Limited LNO1323 BH22 22-Feb-10, 23:32:39 D:\TES\DATA\Y2010\0222TPH_GC16\022210 2010-02-22 09-57-44\089B4701.D Client: Site: Client Sample Ref: Job Number: EX1004775ARO 0.016 TPH_RUNF.M Acquisition Method: Acquisition Date/Time: Datafile: Sample ID: Multiplier: Dilution:

Where individual results are flagged see report notes for status.



Where individual results are flagged see report notes for status.

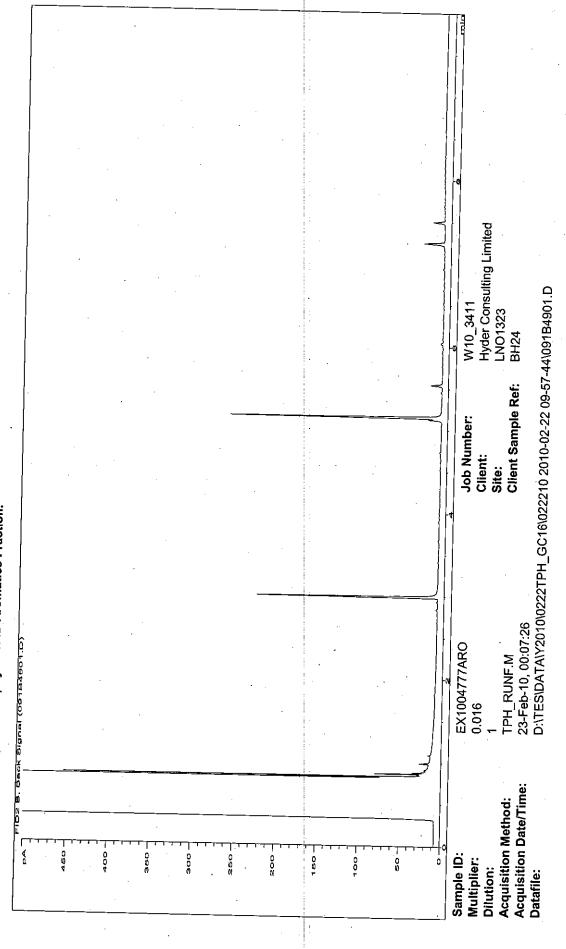


Where individual results are flagged see report notes for status.

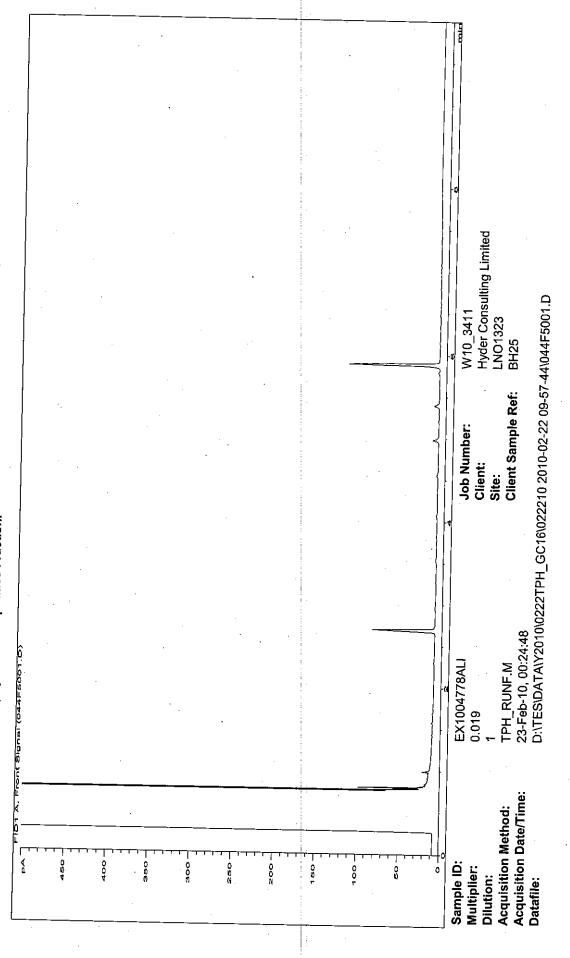
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.

Sample ID: EX1004777ALI Job Number: W10_3411 Billight Imited

Where individual results are flagged see report notes for status.



Where individual results are flagged see report notes for status.



Where individual results are flagged see report notes for status.

Where individual results are flagged see report notes for status.

23-Feb-10, 00:24:48 D:\TES\DATA\Y2010\0222TPH_GC16\022210 2010-02-22 09-57-44\092B5001.D

W10_3411 Hyder Consulting Limited LNO1323 BH25

Client: Site: Client Sample Ref:

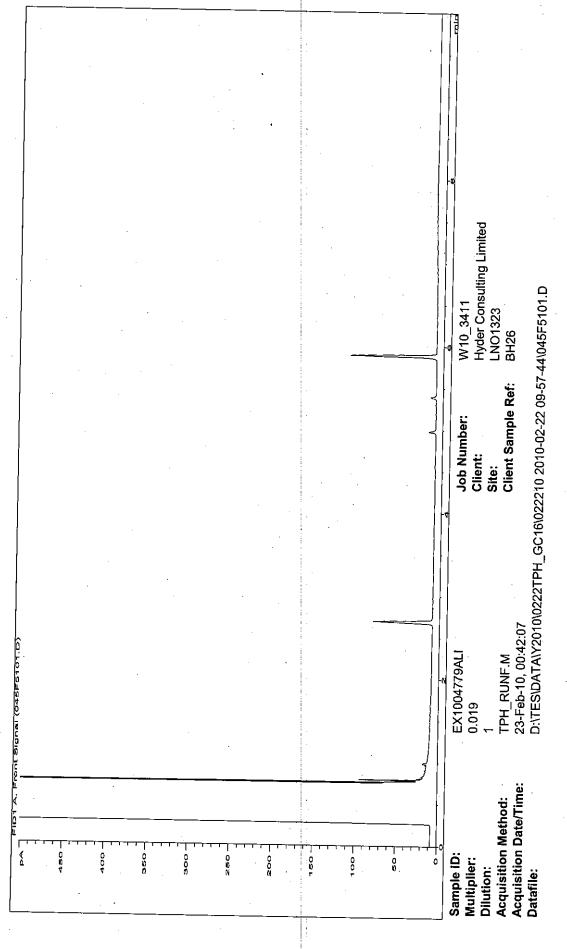
Job Number:

EX1004778ARO 0.015

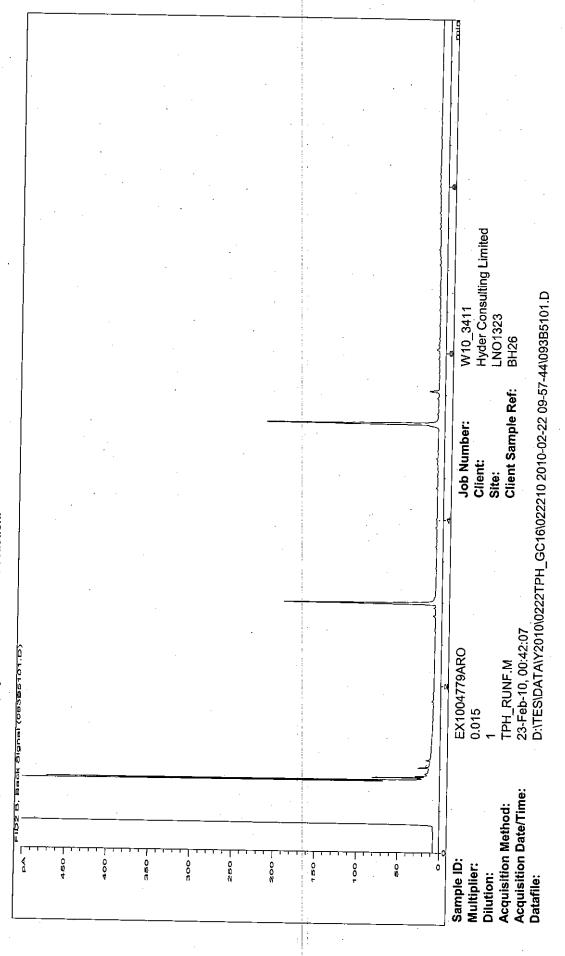
TPH_RUNF.M

Acquisition Method: Acquisition Date/Time: Datafile:

Multiplier: Dilution:



Where individual results are flagged see report notes for status.



Where individual results are flagged see report notes for status.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on an air dried basis
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

CR Denotes Crocidolite

AM Denotes Amosite

NADIS Denotes No Asbestos Detected In Sample

NBFO Denotes No Bulk Fibres Observed

Symbol Reference

- Sub-contracted analysis
- \$\$ Unable to analyse due to the nature of the sample
- ¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols. This may have resulted in deterioration of the sample(s) during transit to the laboratory. Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling
- ¥ Results for guidance only due to possible interference
- & Blank corrected result
- I.S Insufficient sample to complete requested analysis
- I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

Req Analysis requested, see attached sheets for results

- ▶ Raised detection limit due to nature of the sample
- * All accreditation has been removed by the laboratory for this result
- # MCERTS accreditation has been removed for this result

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

END OF REPORT

Our Ref: EFS/100786 (Ver. 1)

Your Ref: LNO1323 February 23, 2010

> Hyder Consulting UK Ltd HCL House St Mellons Business Park St Mellons Cardiff

scientifics

Scientifics Ltd Bretby Business Park Ashby Road Burton-on-Trent Staffordshire DE15 0YZ

Telephone: Facsimile: 01283 554422

For the attention of

CF3 0EY

Dear

SOIL Sample Analysis - LNO1323

Samples from the above site have been analysed in accordance with the schedule supplied.

The sample details and the results of analyses for these samples are given in the appended report.

An invoice for this work will follow under a separate cover.

Where appropriate the samples will be kept until 29/03/10 when they will be discarded. Please call 01283 554547 for an extension of this date.

Please be aware that from 1 January 2003 our policy for the retention of paper based laboratory records and analysis reports will be 6 years.

The work was carried out in accordance with Scientifics Ltd Standard Terms and Conditions of Contract.

If I can be of any further assistance please do not hesitate to contact me.

Yours sincerely

for Scientifics

Project Co-ordinator

Scientifics Limited. Registered office: 500 London Road, Derby, DE24 88Q Registered No: 03204613

TEST REPORT SOIL SAMPLE ANALYSIS



Report No. EFS/100786 (Ver. 1)

Hyder Consulting UK Ltd HCL House St Mellons Business Park St Mellons Cardiff CF3 0EY

Site: LNO1323

The 15 samples described in this report were logged for analysis by Scientifics on 15-Feb-2010. The analysis was completed by: 23-Feb-2010

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited Any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by Scientifics Ltd.

The following tables are contained in this report:

Table 1 Main Analysis Results (Pages 2 to 3)
Table of PAH (MS-SIM) (80) Results (Pages 4 to 18)
Table of PCB Congener Results (Page 19)
Table of TPH Texas banding (std) (Page 20)
GC-FID Chromatograms (Pages 21 to 35)
Table of WAC Analysis Results (Pages 36 to 37)
Table of Report Notes (Page 38)

On behalf of Scientifics : Jane Colbourne



Date of Issue: 23-Feb-2010

Tests marked '^' have been subcontracted to another laboratory.

Scientifics Ltd accepts no responsibility for any sampling not carried out by our personnel.

																								•		
mg/kg		yes	TPH Carbon Banding.	Req	Req	Red	Req	Req	Req	Req	Req	Req	Req	Req	Req	Red	Req	Req					· ග	23-Feb-10	EFS/100786	1
mg/kg TPUEIDIIS	10.0	yes	TPH by GCFID (AR)	363	78	94	19	62	35	511	102	. 20	125	403	12.0	<10.0	<10.0	105		-		_	Soils Sample Analysis		EF	
Ιi	0.2	yes	Tot.Moisture @ 105C	25.4	19.4	25.9		26.6	25.6	15.3	18.1		33.2	19.1		18.5		17.5					ample /			
mg/kg	0.08	yes	PAH by MS.17(0.08)			Req			-		Req												Soils S	nted	Number	umber
mg/kg		yes	PAH by MS.16(0.08)	Req	Req		Req	Red	Red	Red		Req	Req	Req	Red	Red	Red	Req						Date Printed	Report Number	Table Number
mg/kg	╄	yes	Zinc (MS)	14950	397.7	914.3	91.4	148.5	62	118:7	452.3	90.5	2340	200.8	80.2	74.5	83.1	80.5								
mg/kg	+	yes	Selenium (MS)	3.6	0.7	0.7	<0.5	<0.5	0.5	~ <0.5-	<0.5	<0.5	1.9	1.1	<0.5	<0.5	<0.5	<0.5								
mg/kg	╀	yes	Nickel (MS)	216.6	47	91.3	29.9	43.7	39.2	28.5	42.9	48	147.7	47.7	44.2	45.6	64.4	37.6			-					
mg/kg	╀	Ц	Mercury (MS)	0.14	¢0.1	0.12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0 22	<0.1	<0.1	<0.1	<0.1	<0.1				_	2		00	67
mg/kg	ļ.,	 _	Lead (MS)	4839	85.2	206.3	12.7	42.1	14.8	- 55.5	9.99	12.0	306.5	77.2	8.7	12.6	7.0	. 13.7	_	-			ting UK Ltd		NO4222	
mg/kg	+	yes	Copper (MS)	34500	319.6	288.7	23.8	50.6	39.6	37.8	380.1	23.2	1752	158.1	43.5	18.4	13.4	28.5					Hyder Consulti		_	.
mg/kg	+	yes	Chromium (MS)	183.2	36.7	47.2	59.4	49.6	40.1	29.4	38.6	48.7	71.2	48.5	47.9	51	70.9	38.8			_		Hyder			•
mg/kg	+	yes	Cadmium (MS)	45.09	2.13	4.5	0.19	0.46	0.16		1.3	0.13	17.8	1.2	0.11	0.11	\$0.1	0.14					Name :t			
: mg/kg			Arsenic (MS)	28.9	6.7	17.8	4.9	8.5	7.0	72	8.0	6.2	20.8	16.8	7.1	5.8	5.6	7.1					Client Name Contact			•
Units:	Method Reporting Limits :	UKAS Accredited :	Client Sample Description	BH20 0.75	BH23 0.5	TP20 0.5	TP20 1.2	TP21 0.5	TP22 1.2	TP24-0.5	TP25 1.2	TP25 2.0	TP26 0.5	TP27 0.3	TP27 1.85	TP28 0.5	TP28 2.9	TP29 0.5					ICS Ashby Road	fordshire, DE15 0YZ	1400	4422
	Σ		ClientS		3		2	8	2		6	0		-2		4	2	9					Scientifics Bretby Business Park, Ashby Road	Burton-on-Trent, Staffordshire, DE15 0YZ	Tel +44 (0) 1283 554400	Fex +44 (0) 1283 554422
			Laboratory ID Number CLI	1003532	1003533	1003534	1003535	1003536	1003537	1003538	1003539	1003540	1003541	1003542	1003543	1003544	1003545	1003546	Į				···			

	- apjull	0/ NA/NA	ज्य <u>ा</u> ज्या	- ti-	Ī	70774		4.17	ſ								
	Method Codes	SOCE	PCRUSECO		SENO	Τ.	RTEXHSA	UG/KG RTEYHCA	UB/KG PTEVHCA	DTEVES						1	
	Method Reporting Limits:	t	5				10			200							
	IIKAS Accredited	8		2	2			2 2	2 9	3 5							
	oras acciented .	nu.	QI	2		2	yes	yes	ves .	yes							
Laboratory ID Number CL/	Client Sample Description	S.O.M. % (Calc)	PCB (7 Congeners)	pH units (AR)	Asbestos (screening)	Total Organic Carbon	Benzene	Toluene	Ethyl Benzene	Xylenes							
1003532	BH20 0.75			8.2													
1003533	BH23 0.5	6.05		7.8	NBFO	3.51											
1003534	TP20 0.5		Red	8.1		7.86	<10	95	₽	\$20					-	-	
1003535	5 TP20 1.2	0.83		8.2		0.48											
1003536	5 TP210.5	5.40		1.77		3.13					ļ .						
1003537	TP22 1.2			8.2	NBFO												
1003538	}			8.3	NBFO												- 1
1003539	TP25 1.2		Req	8.7		1.69	×10	410	₽	\$ \$							
1003540	TP25 2.0	76:0		8.2		0.56											
1003541	TP26 0.5			8.3	NBFO												
1003542	TP27 0.3			9.6													
1003543	TP27 1.85			8.5												-	
1003544	TP28 0.5			8.8	NBFO										-	-	
1003545	TP28 2.9	0.33		8.9		0.19											
1003546	TP29 0.5	1.24		9.0		0.72											
													-	_			
	e niger entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entr			-								- 					
•	Soilitagios	Client Name	ame	Hyder Consul		ting UK Ltd				_	Ś	oils Sa	mple A	Soils Sample Analysis	40		
	Bretby Business Park, Ashby Road	Contact									. •		•				
	Burton-on-Trent, Staffordshire, DE15 0YZ										Date Printed	pe			23-Feb-10		
	Tel +44 (0) 1283 554400	-			-	NO1222	č				Report Number	mper		EFS	EFS/100786		
	Fax +44 (0) 1283 554422				j	5	j				Table Number	nber	ļ		-		
											;						

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

Customer and Site Details:

Hyder Consulting UK Ltd: LNO1323

Sample Details:

BH20 0.75

Job Number:

S10_0786

LIMS ID Number:

CL1003532

Date Booked in:

15-Feb-10

QC Batch Number:

0499

Date Extracted:

19-Feb-10

Quantitation File: Directory:

Initial Calibration \0219PAHGC5\

Date Analysed:

19-Feb-10

Matrix:

Soil

Dilution:

1.0

Ext Method:

Ultrasonic

UKAS accredited?: Yes

Target Compounds	CAS#	R.T.	Concentration	% Fit
		(min)	mg/kg	
Naphthalene	91-20-3	-	< 0.08	
Acenaphthylene	208-96-8	<u>.</u>	< 0.08	
Acenaphthene	83-32-9		< 0.08	ı
Fluorene	86-73-7	- .	< 0.08	1
Phenanthrene	85-01-8	5.69	0.08	85
Anthracene	120-12-7	-	< 0.08	1
Fluoranthene	206-44-0	7.03	0.14	88
Pyrene	129-00-0	7.31	0.13	98
Benzo[a]anthracene	56-55-3	9.00	0.09	83
Chrysene	218-01-9	9.04	0.10	81
Benzo[b]fluoranthene	205-99-2	10.53	0.17	81
Benzo[k]fluoranthene	207-08-9	-	< 0.08	-
Benzo[a]pyrene	50-32-8	10.96	0.11	97
Indeno[1,2,3-cd]pyrene	193-39-5	12.33	0.12	93
Dibenzo[a,h]anthracene	53-70-3	_	< 0.08	-
Benzo[g,h,i]perylene	191-24-2	12.63	0.14	77
Total (USEPA16) PAHs	-	-	< 1.64	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA 📙
Naphthalene-d8	83
Acenaphthene-d10	82
Phenanthrene-d10	77
Chrysene-d12	78
Perylene-d12	78

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	101
Terphenyl-d14	110

Concentrations are reported on a wet weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.