Cost Model Report

Capital Building and Building Maintenance Works

Advance Factory Alexandra Street York

CM2017.1.FCP1

13 January 2017

Index

Section 1 - Cost model notes

Section 2 - Cost summaries

Section 3 - Construct cost plans

Section 4 - Renewal and maintain cost plans

Section 5 - Operation and occupancy cost plan

Section 6 - End of life cost plan

Section 7 - Base data

Section 8 - Appendix

Cost Model Notes

Cost model notes

The cost model has been prepared from the following information:

Sketch and specification as detailed in Appendix 1

The cost model excludes the following:

- · Land or building acquisition costs
- Professional fees
- Value added tax

The cost model assumes the following:

- Site is reasonably level
- Ground conditions are reasonable
- Mains services are located locally and suitable for connection

The cost model includes a start on site date for the capital building works of 01 April 2017 and a construction period of 52 weeks. An allowance for increased construction costs is included in the cost model based on current forecasts that tender inflation will be at some 2.35% per year and construction inflation will be at some 2.38% per year for capital building works.

The cost model also includes building maintenance works costs (renewal and maintain costs). These are based on a maintenance period of 60 years commencing on 02 April 2018 after the construction completion and handover of the building. Calculations to determine future maintenance expenditure to a net present value (at the cost model's base date of 13 January 2017) use a discount rate of 3.5%. An allowance for the likely increase in maintenance tender costs is included in the cost model based on current forecasts that building maintenance works tender inflation will be at some 2.35% per year. The allowance for building maintenance construction cost inflation is accommodated in the discount rate used to determine net present value and is therefore not identified separately.

Cost Summaries

Ref	Element		Total
1	Facilitating works		0
2	Substructure		220,623
3	Superstructure		491,951
4	Internal finishes		38,923
5	Fittings, furnishings and equipment		1,096
6	Services		470,982
7	Prefabricated buildings and building units		, o
8	Work to existing buildings		0
9	External works		434,958
10	Facilitating and building works		1,658,533
11	Contractor's preliminaries	10.00%	165,853
12	Facilitating and building works including preliminaries		1,824,386
13	Contractor's overheads and profit	7.50%	136,829
14	Building works estimate		1,961,215
15	Project/design team fees	0.00%	0
16	Other development/project costs	0.00%	0
17	Fees and other costs		0
18	Base cost estimate		1,961,215
19	Risk allowance estimate	12.30%	241,255
20	Cost limit excluding inflation		2,202,470
21	Inflation	1.69%	37,330
22	Court live to		2 220 000
22	Cost limit		2,239,800
	Construction of flagge and (1,12), 2224		
23	Gross internal floor area (m²): 2331		
24	Cost limit per m²: £960.88		
25	Cost model base date: 13 Jan 2017		

Ref	Element	Quantity	Unit	Rate	Total
	Facilitating works	_	,		_
1	Toxic/hazardous material removal	0	m²	0.00	0
2	Major demolition works	0	m²	0.00	0
3	Temporary support to adjacent structures	0	m²	0.00	0
4	Specialist groundworks	0	m²	0.00	0
5	Temporary diversion works	0	m²	0.00	0
6	Extraordinary site investigation works	0	m²	0.00	0
7	Facilitating works				0
	Substructure				
8	Substructure	2184	m²	101.02	220,623
9	Substructure				220,623
	Superstructure				
10	Frame	2376	m²	99.62	236,689
11	Upper floors	147	m ²	66.18	9,728
12	Roof	2376	m ²	50.60	120,217
13	Stairs and ramps	1	nr	8,839.00	8,839
14	External walls	883	m ²	60.78	53,669
			m ²		
15	Windows and external doors	100	m²	393.48	39,348
16	Internal walls and partitions	357		39.81	14,213
17	Internal doors	12	nr	770.67	9,248
18	Superstructure				491,951
	Internal finishes				
19	Wall finishes	1076	m²	12.43	13,379
20	Floor finishes	294	m²	61.70	18,141
21	Ceiling finishes	294	m²	25.18	7,403
22	Internal finishes				38,923
					,
	Fittings, furnishings and equipment				
23	Fittings, furnishings and equipment	2331	m²	0.47	1,096
24	Fittings, furnishings and equipment				1,096
	Services				
25	Sanitary installations	29	nr	212.72	6,169
26	Services equipment	0	nr	0.00	0
27	Disposal installations	29	nr	388.03	11,253
28	Water installations	46	nr	369.02	16,975
29	Heat source	62	kW	35.52	2,202
30	Space heating and air conditioning	2331	m²	23.45	54,662
31	Ventilation	2087	m²	6.62	13,819
32	Electrical installations	2331	m²	70.11	163,426
33	Fuel installations	0	m²	0.00	0
34	Lift and conveyor installations	1	nr	57,383.00	57,383
35	Fire and lightning protection	2331	m ²	23.12	53,892
36	Communication, security and control systems	2331	m ²	33.24	77,483
37	Specialist installations	0	m ²	0.00	0
38	Builder's work in connection with services	2331	m²	5.89	13,718
39	Services				470,982
					.,0,552

Ref	Element	Quantity	Unit	Rate	Total
1	Prefabricated buildings and building units Prefabricated buildings and building units	0	m²	0.00	0
2	Prefabricated buildings and building units				0
3 4 5 6 7 8	Work to existing buildings Minor demolition works and alteration works Repairs to existing services Damp-proof courses/fungus and beetle eradication Facade retention Cleaning existing surfaces Renovation works	0 0 0 0 0	m² m² m² m² m² m²	0.00 0.00 0.00 0.00 0.00 0.00	0 0 0 0 0
9	Work to existing buildings				0
10 11 12 13 14 15 16	External works Site preparation works Roads, paths, pavings and surfacings Soft landscaping, planting and irrigation systems Fencing, railings and walls External fixtures External drainage External services Minor building works and ancillary buildings	5184 2700 300 5167 3000 3000 0	m² m² m² m² m² m² m²	1.26 80.09 47.89 1.24 0.11 23.26 40.42 0.00	6,532 216,236 14,367 6,431 332 69,793 121,267
18	External works				434,958
19	Facilitating and building works				1,658,533
20 21	Contractor's preliminaries Contractor's preliminaries: employer's requirements Contractor's preliminaries: contractor's cost items	1.00 9.00	% %	1,658,533 1,658,533	16,585 149,268
22	Contractor's preliminaries				165,853
23	Facilitating and building works including preliminaries				1,824,386
24 25 26	Contractor's overheads and profit Contractor's overheads Contractor's profit Contractor's overheads and profit	5.00 2.50	% %	1,824,386 1,824,386	91,219 45,610 136,829
27	Building works estimate				1,961,215
	Durante Works Estimate				1,501,213

Ref	Element	Quantity	Unit	Rate	Total
1 2 3	Project/design team fees Consultants' fees Main contractor's pre-construction fees Main contractor's design fees	0.00 0.00 0.00	% % %	1,961,215 1,961,215 1,961,215	0 0 0
4	Project/design team fees				0
5	Other development/project costs Other development/project costs	0.00	%	1,961,215	0
6	Other development/project costs				0
7	Base cost estimate				1,961,215
8 9 10 11	Risks Design development risks Construction risks Employer change risks Employer other risks	1.32 6.86 0.69 3.43	% % % %	1,961,215 1,961,215 1,961,215 1,961,215	134,475 13,571 67,293
12	Risk allowance estimate				241,255
13	Cost limit excluding inflation				2,202,470
14 15	Inflation Tender inflation Construction inflation	0.50 1.19	% %	2,202,470 2,213,531	11,061 26,269
16	Inflation				37,330
17	Cost limit				2,239,800

Ref	Element		Total
1 2 3 4	Renewal Facilitating works Substructure Superstructure Internal finishes		0 40,170 324,573 116,166
5 6 7 8	Fittings, furnishings and equipment Services Prefabricated buildings and building units Work to existing buildings		6,858 0 0
9	External works Renewal		1,143
10			400,910
12 13 14 15	Maintain Facilitating works Substructure Superstructure Internal finishes Fittings, furnishings and equipment Services Prefabricated buildings and building units		0 0 63,661 0 0 186,782
18 19	Work to existing buildings External works		0
20	Maintain		250,443
21	Renewal + maintain		739,353
22	Contractor's preliminaries	5.00%	36,968
23	Renewal + maintain including preliminaries		776,321
24	Contractor's overheads and profit	7.50%	58,224
25	Renewal + maintain estimate		834,545
26 27	Consultants' and specialists' fees Employer definable costs	0.00% 0.00%	0
28	Fees + employer definable costs		0
29	Base cost estimate		834,545
30	Risk allowance estimate	9.40%	78,454
31	Cost limit excluding inflation		912,999
32	Inflation	2.86%	26,099
33	Cost limit		939,098
34	Adjustment to NPV @ 3.5% discount rate		-612,353
35	Cost limit at net present value		326,745

Ref	Element	Quantity	Unit	Rate	Total
	Renewal				
	Facilitation				
	Facilitating works Toxic/hazardous material removal	0	m ²	0.00	0
	Major demolition works	0	m ²	0.00	0
3	Temporary support to adjacent structures	0	m ²	0.00	0
	Specialist groundworks	0	m ²	0.00	0
5	Temporary diversion works	0	m ²	0.00	0
6	Extraordinary site investigation works	0	m ²	0.00	0
7	Facilitating works				0
	Substructure				
8	Substructure	2184	m²	18.39	40,170
9	Substructure				40,170
	Superstructure				
	Frame	2376	m²	29.24	69,477
	Upper floors	500	m ²	0.00	05,477
	Roof	2376	m ²	61.43	145,961
	Stairs and ramps	1	nr	0.00	0
	External walls	883	m ²	49.06	43,323
	Windows and external doors	100	m ²	420.16	42,016
	Internal walls and partitions	357	m ²	23.45	8,372
	Internal doors	12	nr	1,285.33	15,424
18	Superstructure				324,573
	Internal finishes				
	Wall finishes	1076	m ²	38.13	41,032
	Floor finishes	294	m²	255.56	75,134
	Ceiling finishes	294	m²	0.00	0
22	Internal finishes				116,166
	Fittings, furnishings and equipment Fittings, furnishings and equipment	2331	m ²	0.00	0
					0
24	Fittings, furnishings and equipment				0
1 '					

Ref	Element	Quantity	Unit	Rate	Total
	Services				
1	Sanitary installations	29	nr	0.00	0
2	Services equipment	0	nr	0.00	0
3	· · ·	29		0.00	0
1	Disposal installations		nr		
4	Water installations	46	nr	0.00	0
5	Heat source	62	kW	110.61	6,858
6	Space heating and air conditioning	2331	m²	0.00	0
7	Ventilation	2087	m²	0.00	0
8	Electrical installations	2331	m²	0.00	0
9	Fuel installations	0	m ²	0.00	0
10	Lift and conveyor installations	1	nr	0.00	0
11	Fire and lightning protection	2331	m ²	0.00	0
		2331	m ²		
12	Communication, security and control systems		1	0.00	0
13	Specialist installations	0	m²	0.00	0
14	Builder's work in connection with services	2331	m²	0.00	0
15	Services				6,858
	Duefaloriested buildings and building units				
1.0	Prefabricated buildings and building units		,	0.00	
16	Prefabricated buildings and building units	0	m²	0.00	0
17	Prefabricated buildings and building units				0
	Work to existing buildings				
18	Minor demolition works and alteration works	0	m²	0.00	0
1			m ²		
19	Repairs to existing services	0	1	0.00	0
20	Damp-proof courses/fungus and beetle eradication	0	m²	0.00	0
21	Facade retention	0	m²	0.00	0
22	Cleaning existing surfaces	0	m²	0.00	0
23	Renovation works	0	m²	0.00	0
24	Work to existing buildings				0
	External works		,		
25	Site preparation works	5184	m²	0.00	0
26	Roads, paths, pavings and surfacings	2700	m²	0.00	0
27	Soft landscaping, planting and irrigation systems	300	m²	0.00	0
28	Fencing, railings and walls	5167	m²	0.00	0
29	External fixtures	500	m²	2.29	1,143
30	External drainage	500	m²	0.00	0
31	External services	500	m ²	0.00	0
32	Minor building works and ancillary buildings	0	m ²	0.00	0
					1 1 1 2
33	External works				1,143
34	Renewal				488,910
	I .		1		

Ref	Element	Quantity	Unit	Rate	Total
	Maintain				
	Facility at the second of				
1	Facilitating works Toxic/hazardous material removal	0	m ²	0.00	0
1 2	Major demolition works	0	m ²	0.00	0
3	Temporary support to adjacent structures	0	m ²	0.00	0
4	Specialist groundworks	0	m ²	0.00	0
5	Temporary diversion works	0	m ²	0.00	0
6	Extraordinary site investigation works	0	m²	0.00	0
7	Facilitating works				0
	Substructure				
8	Substructure	2184	m²	0.00	0
9	Substructure				40,170
	Superstructure				
10	Frame	2376	m ²	0.00	0
11	Upper floors	500	m ²	0.00	0
1	Roof	2376	m ²	26.79	63,661
1	Stairs and ramps	1	nr	0.00	Ó
1	External walls	883	m²	0.00	0
15	Windows and external doors	100	m²	0.00	0
16	Internal walls and partitions	357	m²	0.00	0
17	Internal doors	12	nr	0.00	0
18	Superstructure				324,573
	Internal finishes				
19	Wall finishes	1076	m²	0.00	0
20	Floor finishes	294	m²	0.00	0
21	Ceiling finishes	294	m²	0.00	0
22	Internal finishes				116,166
23	Fittings, furnishings and equipment Fittings, furnishings and equipment	2331	m ²	0.00	0
24					0
24	Fittings, furnishings and equipment				0

Ref	Element	Quantity	Unit	Rate	Total
	Services				
1	Sanitary installations	29	nr	0.00	0
2	Services equipment	0	nr	0.00	0
3	Disposal installations	29	nr	0.00	0
4	Water installations	46		0.00	0
			nr		
5	Heat source	62	kW m²	487.74	30,240
6	Space heating and air conditioning	2331	1	0.00	0
7	Ventilation	2087	m²	0.00	0
8	Electrical installations	2331	m²	0.00	0
9	Fuel installations	0	m²	0.00	0
10	Lift and conveyor installations	1	nr	31,320.00	31,320
11	Fire and lightning protection	2331	m²	26.85	62,582
12	Communication, security and control systems	2331	m²	26.87	62,640
13	Specialist installations	0	m²	0.00	0
14	Builder's work in connection with services	2331	m²	0.00	0
15	Services				6,858
	Destablished by the second by this second				
16	Prefabricated buildings and building units Prefabricated buildings and building units	0	m²	0.00	0
10	Prefabilitated buildings and building units	0	'''	0.00	J
17	Prefabricated buildings and building units				0
	Work to existing buildings				
18	Minor demolition works and alteration works	0	m²	0.00	0
19	Repairs to existing services	0	m²	0.00	0
20	Damp-proof courses/fungus and beetle eradication	0	m²	0.00	0
21	Facade retention	0	m²	0.00	0
22	Cleaning existing surfaces	0	m²	0.00	0
23	Renovation works	0	m²	0.00	0
24	Work to existing buildings				0
	Work to Chisting Buildings				
	External works				
25	Site preparation works	5184	m²	0.00	0
26	Roads, paths, pavings and surfacings	2700	m²	0.00	0
27	Soft landscaping, planting and irrigation systems	300	m²	0.00	0
28	Fencing, railings and walls	5167	m²	0.00	0
29	External fixtures	500	m²	0.00	0
30	External drainage	500	m ²	0.00	0
31	External services	500	m ²	0.00	0
32	Minor building works and ancillary buildings	0	m ²	0.00	0
22	External works				1 1 1 1 2
33	External works				1,143
34	Maintain				250,443

Ref	Element	Quantity	Unit	Rate	Total
					720.050
1	Renewal + maintain				739,353
	Contractor's preliminaries				
2 3	Contractor's preliminaries: employer's requirements Contractor's preliminaries: contractor's cost items	0.50 4.50	% %	739,353 739,353	3,697 33,271
	Contractor's premimaries, contractor's cost items	4.50	/0	733,333	33,271
4	Contractor's preliminaries				36,968
5	Renewal + maintain including preliminaries				776,321
6	Contractor's overheads and profit	7.50%	%	776,321	58,224
7	Renewal + maintain estimate				834,545
8 9 10 11	Fees/employer's definable costs Consultants' and specialists' fees Maintenance contractor's pre-contract and transition mo Maintenance contractor's design fees Employer-definable maintenance-related costs	0.00 0.00 0.00 0.00	% % % %	834,545 834,545 834,545 834,545	0 0 0 0
12	Fees/employer's definable costs				0
13	Base cost estimate				834,545
14 15 16 17	Risks Design and installation risks Maintenance risks Employer change risks Employer other risks	2.50 3.94 0.33 2.63	% % %	834,545 834,545 834,545 834,545	20,881 32,902 2,742 21,929
18	Risk allowance estimate				78,454
19	Cost limit excluding inflation				912,999
20	Inflation	2.86	%	912,999	26,099
21	Cost limit				939,098
22	Adjustment to NPV @ 3.5% discount rate				-612,353
23	Cost limit at net present value				326,745

Capital building and building maintenance works - construct, renewal and maintain costs

Ref	Element	Construct	Renewal	Maintain	Total
1	Facilitating works	0	0	0	0
2	Substructure	220,623	40,170	0	260,793
2	Superstructure	491,951	324,573	63,661	880,185
4	Internal finishes	38,923	116,166	03,001	155,089
5	Fittings, furnishings and equipment	1,096	0	0	1,096
6	Services	470,982	6,858	186,782	664,622
7	Prefabricated buildings and building units	170,302	0,030	0	004,022
8	Work to existing buildings		0	0	0
9	External works	434,958	1,143	0	436,101
	LACETIAI WOLKS	434,336	1,143		430,101
10	Facilitating and building works	1,658,533	488,910	250,443	2,397,886
11	Contractor's preliminaries	165,853	24,446	12,522	202,821
12	Facilitating and building works incl prelims	1,824,386	513,356	262,965	2,600,707
13	Contractor's overheads and profit	136,829	38,502	19,722	195,053
14	Building works estimate	1,961,215	551,858	282,687	2,795,760
15	Project/design team fees	0	0	0	0
16	Other development/project costs	0	0	0	0
17	Fees and other costs	0	0	0	0
'	Tees and other costs		U		
18	Base cost estimate	1,961,215	551,858	282,687	2,795,760
19	Risk allowance estimate	241,255	51,879	26,575	319,709
20	Cost limit excluding inflation	2,202,470	603,737	361,141	3,167,348
21	Inflation	37,330	17,259	10,324	64,913
22	Cost limit	2,239,800	620,996	371,465	3,232,261
23	Adjustment to NPV @ 3.5% discount rate	o	-404,930	-242,219	-647,149
24	Cost limit at net present value	2,239,800	216,066	129,246	2,585,112
25	Cost limit per m ² of GIFA (+ per annum)	£960.88	£1.54	£0.92	£963.34
26 26 27 28 29	Total cost limit @ NPV: £2,585,112 Maintenance period (years): 60 Gross internal floor area (m²): 2331 Cost limit per m² (+ per annum): £963.34 Cost model base date: 13 Jan 2017	2500.00	LIJT	10.52	2505.54

Building operation and occupancy costs

2 Adjustment to net present value @ 3.5% discount rate -1,798,258 -	2 3 4 5	
Total operation and occupancy costs @ net present value 1,279,142 Total operation and occupancy costs @ net present value: £1,279,142 Life cycle/maintenance period (years): 60 Gross internal floor area (m²): 2331 Total operation and occupancy costs per m²: £548.75	3 4 5	1,320.21
Total operation and occupancy costs @ net present value: £1,279,142 Life cycle/maintenance period (years): 60 Gross internal floor area (m²): 2331 Total operation and occupancy costs per m²: £548.75	4 5	-771.45
5 Life cycle/maintenance period (years): 60 6 Gross internal floor area (m²): 2331 7 Total operation and occupancy costs per m²: £548.75	5	548.75
	7	

Building end of life costs

Ref	Element	Totals	Cost per m²
1	End of life costs	25,000	10.73
2	Discount factor @ 3.5%	0.1268	-
3	Total end of life costs @ net present value	3,170	1.36
	Total end of life costs @ net present value: £3,170 Life cycle/maintenance period (years): 60 Gross internal floor area (m²): 2331 Total end of life costs per m²: £1.36 Cost model base date: 13 Jan 2017	3,170	1.36

Building life cycle costs

Ref	Element	Totals at NPV	Cost per m² (+ per annum)
1	Constuct costs	2,239,800	960.88
2	Renewal costs	216,066	1.54
3	Maintain costs	110,679	0.79
4	Operation and occupancy costs	1,279,137	9.15
5	End of life costs	3,170	0.02
6	Total life cycle costs @ net present value	3,848,852	972.38
7 8 9 10 11	Total life cycle/maintenance period (years): 60 Gross internal floor area (m²): 2331 Total life cycle cost per m² (+ per annum): £972.38 Cost model base date: 13 Jan 2017		

Construct Cost Plans

Substructure Construct

Ref	Item	Quantity	Unit	Rate	Total
	Strip foundations				
	In-situ concrete 25N/mm2 foundation, 275mm thick Class B engineering brick cavity wall, damp proof course, including excavation and filling works				
1	600mm wide x 1000mm deep	189	m	116.01	21,926
	In-situ concrete 25N/mm2 foundation 250mm thick, 100mm thick concrete blockwork wall, damp proof course, including excavation and filling works				
2	450mm wide x 1000mm deep	40	m	49.60	1,984
	In-situ concrete 25N/mm2 foundation 250mm thick, 140mm thick concrete blockwork wall, damp proof course, including excavation and filling works				
3	450mm wide x 1000mm deep	28	m	52.64	1,474
	Isolated pad foundations				
	In-situ concrete 25N/mm2 pad foundations, reinforced 50kg/m3, including excavation and filling works (rates per pad)				
4	900mm x 900mm x 450mm, 1250mm deep pit	32	nr	187.19	5,990
5	1500mm x 1500mm x 600mm, 1500mm deep pit	8	nr	463.30	3,706
	Ground floors				
	In-situ concrete 20N/mm2 ground slab, damp roof membrane, 150mm blinded granular material bed, including excavation works				
6	200mm thick concrete slab	2184	m²	73.85	161,288
7	extra for 1 layer of A252 fabric reinforcement	4368	m²	3.93	17,166
	Designed joints in concrete, Grace Servicised Kork-pak waterproof bonded cork joint filler board or other equal				
8	25mm thick, depth 150mm - 300mm, horizontal	188	m	11.27	2,119
	Sealants, Grace Servicised Paraseal polysulphide compound or other equal, priming with Grace Servicised Primer P				
9	25mm x 25mm, horizontal	188	m	10.72	2,015
Carri	ed forward				217,668

Ref	Item	Quantity	Unit	Rate	Total
	Designed joints incorporating 445mm wide Reference 2611, 4.86kg/m2 Expamet Hy-rib permanent shuttering and reinforcement, 150mm end laps, temporary supports, formwork laid continuously across joint			B/f	217,668
1	in concrete, depth 150mm - 300mm, horizontal	126	m	23.45	2,955
Tota	1				220,623

Ref	Item	Quantity	Unit	Rate	Total
	Steel frame, fabricated steelwork erected on site with bolted connections, fittings, fixings, fabrication, blast cleaning, priming, erection, holding down bolt assemblies, grouting under base plates				
	Structural steel beams and columns, priming, 60 minute intumescent paint fire protection				
1	portal frame, 4.7m high, 26m span, typical weight 25kg/m2	2376	m²	56.31	133,793
	Cold formed galvanized steel, Kingspan Multibeam or other equal				
	Cold rolled purlins to roof at 1.50m centres, bolt-on cleats at 6.00m centres, tubular ties at 12.00m centres				
2	205mm x 65mm x 1.60mm gauge purlins, fixed to steelwork	2376	m²	32.41	77,006
	Cold rolled cladding rails to walls at 1.50m centres, bolton cleats at 6.00m centres, vertical spacers at 12.00m centres				
3	175mm x 65mm x 1.60mm gauge purlins or rails, fixed to steelwork	894	m²	28.96	25,890
Tota	<u> </u> 	I			236,689

Upper floors Construct

Ref	Item	Quantity	Unit	Rate	Total
	Precast concrete suspended floors				
	1200mm wide suspended slab, 75mm thick screed, no coverings or finishes				
1	6.00m span, 150mm thick planks, 5.00 kN/m2 loading	147	m²	66.18	9,728
Tota			'	1	9,728

Ref	Item	Quantity	Unit	Rate	Total
	Pitched roof coverings (measured surface area)				
	Steel PVF2 coated galvanized trapezoidal profile cladding, for roof pitches greater than 4 degrees				
1	composite insulated roofing system, 80mm overall panel thickness	2174	m²	40.44	87,917
	GRP Translucent rooflights, factory assembled				
2	double skin	242	m²	46.66	11,292
	Flashings				
	Steel PVF2 coated galvanized eaves flashings for cladding panels				
3	200mm girth	272	m	3.10	843
	Steel PVF2 coated galvanized ridge flashings for cladding panels				
4	620mm girth	42	m	18.66	784
	Steel PVF2 coated galvanized hip flashings for cladding panels				
5	620mm girth	96	m	18.66	1,791
	Roof drainage				
	Gutters, including angles, ends and outlets				
6	900mm girth galvanised pressed steel box gutter	196	m	42.27	8,285
7	750mm girth Kalzip Membrane lined composite gutter system	44	m	141.13	6,210
	Rainwater downpipes pipes, fixed to backgrounds, including offsets and shoes				
8	100mm diameter polyester powder coated aluminium	115	m	26.91	3,095
Tota					120,217
Tota					120,217

Stairs and ramps Construct

Ref	Item	Quantity	Unit	Rate	Total
	Reinforced concrete construction Staircase, terrazzo finish, mild steel balustrades and handrails, plastered soffit, balustrades and staircase soffit decorated				
1	3.00m rise, dogleg	1	nr	8,838.79	8,839
Tota	 				8,839

External walls Construct

Ref	Item	Quantity	Unit	Rate	Total
	Insulated cavity walls in facing bricks (GBP 350/1000) and concrete blockwork (7.0N/mm2)				
	103mm thick facing bricks, 75mm wide insulated cavity, 100mm thick blockwork				
1	278mm wide	131	m²	80.16	10,501
	Walls in concrete blockwork (7.0N/mm2)				
	100mm thick concrete blocks				
2	100mm wide	320	m²	20.03	6,410
	Metal profiled cladding				
	Standard trapezoidal profile				
3	composite insulated wall cladding system, 80mm overall panel thickness	752	m²	48.88	36,758
Tota					53,669
TOTA	ı				53,009

Ref	Item	Quantity	Unit	Rate	Total
	Windows				
	Aluminium purpose made double glazed windows including ironmongery				
1	various sizes over 1.50m2	46	m²	486.21	22,366
	Window boards				
	MDF window boards including decoration				
2	25mm x 150mm	38	m	12.77	485
	External doors				
	Standard steel powdered coated finish security external doors and frames including ironmongery				
3	single leaf door, opening size 1000mm x 2100mm	4	nr	1,765.30	7,061
	Aluminium double glazed purpose made external doors and frames including ironmongery				
4	single leaf door, opening size 1000mm x 2100mm	1	nr	1,752.93	1,753
5	double leaf door, opening size 1800mm x 2100mm	1	nr	2,844.20	2,844
	Insulated overhead sectional doors and frames, power operation				
6	4500mm x 4500mm	2	nr	2,419.55	4,839
Tota					39,348

Ref	Item	Quantity	Unit	Rate	Total
	Brick/block masonry partitions				
	Aerated/lightweight block walls				
1	100mm thick	160	m²	27.42	4,387
2	140mm thick	160	m²	37.03	5,925
	Extra over internal walls for forming openings for internal doors				
	Including precast concrete lintels				
3	1000mm x 2100mm in 100mm wide wall	10	nr	20.14	201
4	1000mm x 2100mm in 140mm wide wall	2	nr	27.87	56
	Framed panel cubicles				
	Changing and WC cubicles, high pressure laminate faced MDF proprietary system				
5	standard quality WC cubicle partition sets, aluminium framing, melamine face chipboard dividing panels and doors, ironmongery, small range (up to 5 cubicles), standard cubicle set, (rate per cubicle)	9	nr	404.91	3,644
Tota		I	ı		14,213

Internal doors Construct

Fire doors Standard fire doors, cellular core, softwood lining, softwood architrave, aluminium ironmongery (lockable, self-closure), painting or polishing, 1 single leaf, Oak veneered, 30min fire resistance, polished 10 nr 461.68 2 single leaf, Oak veneered, 60min fire resistance, polished 2 nr 735.73 Ironmongery sets Stainless steel ironmongery, euro locks, push plates, kick plates, signage, closures, standard sets 3 office door, non locking, fire rated 4 nr 241.94 4 office/store, lockable, fire rated 8 nr 274.06	Total
softwood architrave, aluminium ironmongery (lockable, self-closure), painting or polishing, 1 single leaf, Oak veneered, 30min fire resistance, polished 2 single leaf, Oak veneered, 60min fire resistance, polished 2 nr 735.73 Ironmongery sets Stainless steel ironmongery, euro locks, push plates, kick plates, signage, closures, standard sets 3 office door, non locking, fire rated 4 nr 241.94	
polished 2 single leaf, Oak veneered, 60min fire resistance, polished 2 nr 735.73 Ironmongery sets Stainless steel ironmongery, euro locks, push plates, kick plates, signage, closures, standard sets 3 office door, non locking, fire rated 4 nr 241.94	
polished 2 nr 735.73 Ironmongery sets Stainless steel ironmongery, euro locks, push plates, kick plates, signage, closures, standard sets 3 office door, non locking, fire rated 4 nr 241.94	4,617
Stainless steel ironmongery, euro locks, push plates, kick plates, signage, closures, standard sets 3 office door, non locking, fire rated 4 nr 241.94	1,471
plates, signage, closures, standard sets 3 office door, non locking, fire rated 4 nr 241.94	
4 office/store, lockable, fire rated 8 nr 274.06	968
	2,192
Total	9,248

Wall finishes Construct

Ref	Item	Quantity	Unit	Rate	Total
	In situ wall finishes				
	Plasterboard, plaster and render				
1	two coats of lightweight plaster	580	m²	14.26	8,271
	Rigid tile/panel/board finishes				
	Ceramic wall tiles, including backing				
2	medium to high quality	36	m²	42.22	1,520
	Decoration				
	Emulsion on plaster or blockwork surfaces				
3	one mist and two coats emulsion paint	1040	m²	3.45	3,588
Tota					13,379
	•				15,5,5

Floor finishes Construct

Carpet, including underlay, edge grippers 2 heavy contract duty, Forbo Flotex HD Entrance matting and matwell 3 Gradus Topguard barrier matting with aluminium frame Skirtings Softwood	Ref	Item	Quantity	Unit	Rate	Total
fixing 1 vinyl safety flooring, 2.00-2.50mm thick Carpet, including underlay, edge grippers 2 heavy contract duty, Forbo Flotex HD Entrance matting and matwell 3 Gradus Topguard barrier matting with aluminium frame Skirtings Softwood 4 softwood skirting, gloss paint finish Sit-on PVC skirtings 60 m² 44.19 224 m² 45.92 10 m² 340.72 3 Skirtings Softwood		Sheet/board flooring				
Carpet, including underlay, edge grippers 2 heavy contract duty, Forbo Flotex HD Entrance matting and matwell 3 Gradus Topguard barrier matting with aluminium frame 10 m² 340.72 3 Skirtings Softwood 4 softwood skirting, gloss paint finish Sit-on PVC skirtings						
2 heavy contract duty, Forbo Flotex HD Entrance matting and matwell 3 Gradus Topguard barrier matting with aluminium frame 10 m² 340.72 3 Skirtings Softwood 4 softwood skirting, gloss paint finish 112 m 14.37 1 Sit-on PVC skirtings	1	vinyl safety flooring, 2.00-2.50mm thick	60	m²	44.19	2,651
Entrance matting and matwell 3 Gradus Topguard barrier matting with aluminium frame 10 m² 340.72 3 Skirtings Softwood 4 softwood skirting, gloss paint finish 112 m 14.37 1 Sit-on PVC skirtings		Carpet, including underlay, edge grippers				
3 Gradus Topguard barrier matting with aluminium frame 10 m² 340.72 3 Skirtings Softwood 4 softwood skirting, gloss paint finish 112 m 14.37 1 Sit-on PVC skirtings	2	heavy contract duty, Forbo Flotex HD	224	m²	45.92	10,286
frame Skirtings Softwood 4 softwood skirting, gloss paint finish Sit-on PVC skirtings 10 m² 340.72 3 The state of th		Entrance matting and matwell				
Softwood 4 softwood skirting, gloss paint finish Sit-on PVC skirtings	3		10	m²	340.72	3,407
4 softwood skirting, gloss paint finish 112 m 14.37 1 Sit-on PVC skirtings		Skirtings				
Sit-on PVC skirtings		Softwood				
	4	softwood skirting, gloss paint finish	112	m	14.37	1,609
5 100mm high 30 m 6.25		Sit-on PVC skirtings				
	5	100mm high	30	m	6.25	188
Total 18	Tota					18,141

Ceiling finishes Construct

Ref	Item	Quantity	Unit	Rate	Total
	Suspended and integrated ceilings				
	Armstrong suspended ceiling, large rooms, over 250m2				
1	mineral fibre, medium quality, Corline, exposed grid	294	m²	25.18	7,403
Tota					7,403

Ref	Item	Quantity	Unit	Rate	Total
	Kitchen units, including any pre-assembly				
	Wall units				
1	600mm x 300mm x 720mm	2	nr	98.23	196
	Floor units with drawers				
2	600mm x 600mm x 870mm	2	nr	140.75	282
	Sink units (excluding sink top)				
3	1000mm x 600mm x 870mm	1	nr	188.97	189
	Laminated plastics worktops single rolled edge				
4	38mm thick, 600mm wide	2	m	36.32	73
	Mirror with polished edges				
	6mm thick rectangular glass mirrors, silver backed, fixed with chromium plated domed headed screws				
5	400mm x 300mm	16	nr	22.23	356
Tota	 				1,096

Sanitary installations Construct

Ref	Item	Quantity	Unit	Rate	Total
	Sanitary appliances and fittings				
	Single drainer stainless steel sinks with waste outlet, overflow, plug and chain and mixer tap				
1	bowl and a half	1	nr	316.02	316
	White glazed fireclay sinks with waste outlet, plug and chain and brackets and basin taps				
2	610mm x 380mm x 210mm	1	nr	304.91	305
	White vitreous china wash basins with waste outlet, plug and chain, concealed brackets and basin taps				
3	400mm	16	nr	148.80	2,381
	Low level white vitreous china WC suites with pan, cistern and fittings, plastics seat and lid and drain connector				
4	close coupled WC, dual flush valve	9	nr	249.48	2,245
	Range of white vitreous china urinal bowls and concealed automatic cistern and fittings, with concealed flush pipes and waste outlet				
5	range of two 400mm urinal bowls	1	nr	428.92	429
6	white vitreous china urinal divisions	1	nr	64.58	65
	Sanitary ancillaries				
	Pressalit Ltd or equal grab rails				
7	450mm long ref RT101000	2	nr	61.19	122
8	600mm long ref RT102000,	2	nr	69.09	138
	Pressalit Ltd or equal hinged grab rails				
9	600mm long with spring counter balance ref RF016000	1	nr	168.49	168
Tota					6,169

Ref	Item	Quantity	Unit	Rate	Total
	Foul drainage above ground to sanitary, kitchen or services appliances				
	Waste, soil and vent pipe installations per appliance				
1	PVC-u and PVC-mu pipes and fittings	29	nr	388.03	11,253
Tota					11,253
					11,233

Water installations Construct

Ref	Item	Quantity	Unit	Rate	Total
	Hot and cold water installations, mains supply, storage, hot and cold water distribution				
	Typical rates per outlet point				
1	cold water - simple installation	28	nr	349.77	9,794
2	hot water - simple installation	18	nr	398.96	7,181
Tota		I	l	l	16,975

Heat source Construct

Ref	Item	Quantity	Unit	Rate	Total
	Boilers				
	Typical rates per kW				
1	gas fired boilers including gas train and controls	62	kW	35.52	2,202
Tota					2,202

Ref	Item	Quantity	Unit	Rate	Total
	Typical space heating and air conditioning installations per building type Typical rates per gross internal floor area				
1	factory unit, LTHW to offices, displacement system to warehouse	2331	m²	23.45	54,662
	Waterloade	2331		23.43	34,002
-					FA 663
Tota					54,662

Ventilation Construct

Ref	Item	Quantity	Unit	Rate	Total
	Typical ventilation installations per building type				
	Typical rates per gross internal floor area				
1	factory unit, smoke extract system	2037	m²	5.83	11,876
	Typical ventilation installations per system type				
	Ventilation systems (excluding smoke extract)				
2	building up to 3,000m2	50	m²	38.87	1,943
Tota				1	13,819

Electrical installations Construct

Ref	Item	Quantity	Unit	Rate	Total
	Typical electrical installations including LV distribution, HV distribution, lighting and small power per building type				
	Typical rates per gross internal floor area				
1	factory unit	2331	m²	70.11	163,426
Tota	I				163,426

Ref	Item	Quantity	Unit	Rate	Total
	Passenger Lifts, car height of 2.2m, standard car finish, brushed stainless steel 2 panel centre opening doors to BSEN 81 Part 1 & 2, machine room less Electrically operated AC drive serving 2 levels with directional collective controls and a speed of 1.0m/s				
1	8 person	1	nr	57,383.12	57,383
Tota					57,383

Ref	Item	Quantity	Unit	Rate	Total
	Typical fire and lightning protection installations per system type				
	Sprinkler installations				
1	building up to 3,000m2	2331	m²	20.33	47,389
	Lightning protection				
2	building up to 3,000m2	2331	m²	2.79	6,503
Tota	 				53,892
Lota	•				33,032

IT wireways installation 2 building up to 3,000m2 2331 m² 2.80 Voice and data installation 3 building up to 3,000m2 2331 m² 12.38 Intruder detection and alarm installation	Total		Rate	Unit	Quantity	f Item	Ref
1 building up to 3,000m2 2331 m² 10.15 IT wireways installation 2 building up to 3,000m2 2331 m² 2.80 Voice and data installation 3 building up to 3,000m2 2331 m² 12.38 Intruder detection and alarm installation							
IT wireways installation 2 building up to 3,000m2 2331 m² 2.80 Voice and data installation 3 building up to 3,000m2 2331 m² 12.38 Intruder detection and alarm installation						Fire alarm installation	
2 building up to 3,000m2 2331 m² 2.80 Voice and data installation 3 building up to 3,000m2 2331 m² 12.38 Intruder detection and alarm installation	23,660	2	10.15	m²	2331	building up to 3,000m2	1
Voice and data installation 3 building up to 3,000m2 2331 m² 12.38 Intruder detection and alarm installation						IT wireways installation	
3 building up to 3,000m2 2331 m ² 12.38 Intruder detection and alarm installation	6,527		2.80	m²	2331	building up to 3,000m2	2
Intruder detection and alarm installation						Voice and data installation	
	28,858	2	12.38	m²	2331	building up to 3,000m2	3
4 building up to 3,000m2 2331 m ² 7.91						Intruder detection and alarm installation	
	18,438	1	7.91	m²	2331	building up to 3,000m2	4
Total	77,483					al	Tota

Ref	Item	Quantity	Unit	Rate	Total
	Builder's work in connection with services				
	Allowance for builder's work items in connection with services				
1	all-inclusive percentage	3.00	%	457,264.00	13,718
Tota	 				13,718
					,

Ref	Item	Quantity	Unit	Rate	Total
	Site clearance				
	Clearing site vegetation				
1	bushes, scrub, undergrowth, hedges and trees and tree stumps not exceeding 500mm girth	5184	m²	0.36	1,866
	Excavating topsoil for preservation, to spoil heap less than 50m from excavations				
2	average 150mm deep	5184	m²	0.90	4,666
Tota	<u> </u> 				6,532

Ref	Item	Quantity	Unit	Rate	Total
	Paved areas including edgings and kerbs				
	Tarmacadam paving				
1	two layers, limestone or igneous chipping finish paving on sub-base, including excavation and type 1 sub-base	2295	m²	82.46	189,246
	Slab paving				
2	precast concrete paving slabs on sub-base, including excavation	135	m²	47.89	6,465
	Brick/block/setts paving				
3	precast concrete block paviors to footways including excavation, sub-base	270	m²	76.02	20,525
Tota					216,236
, Jta	•				210,230

Ref	Item	Quantity	Unit	Rate	Total
	Seeded and planted areas				
	Planted areas (per m2 of planted area)				
1	shrubbed planting m2	300	m²	47.89	14,367
Tota					14,367

Ref	Item	Quantity	Unit	Rate	Total
	Fencing and walls				
	Chain link fencing, plastic coated				
1	1.80m high	300	m	19.46	5,838
	Bollards and barriers				
2	parking bollards precast concrete or steel	4	nr	148.15	593
Tota					6,431

External fixtures Construct

Ref	Item	Quantity	Unit	Rate	Total
	Street furniture				
	Galvanized steel cycle stand				
1	fixing in position	8	nr	41.48	332
Tota					332

External drainage Construct

Ref	Item	Quantity	Unit	Rate	Total
	Typical overall cost/m2 of drained area allowances				
	Site drainage				
1	per m2 of paved area	2565	m²	16.35	41,938
	Building drainage				
2	per m2 of gross internal floor area	2331	m²	11.95	27,855
Tota					69,793

External services Construct

Ref	Item	Quantity	Unit	Rate	Total
	Water mains supply				
	Connections to statutory undertaker's mains				
1	connection charges	2331	m²	10.41	24,266
	Electricity mains supply				
	Connections to statutory undertaker's mains				
2	connection charges	2331	m²	5.24	12,214
	Gas mains supply				
	Connections to statutory undertaker's mains				
3	connection charges	2331	m²	5.24	12,214
	Telecommunication mains supply				
	Connections to statutory undertaker's mains				
4	connection charges	2331	m²	2.23	5,198
	Site/street lighting systems				
	Bollard lighting including cabling				
5	26 watt	12	nr	1,384.78	16,617
	Wall mounted outdoor flood lighting including cabling				
6	500 watt	16	nr	194.28	3,108
Carri	ed forward				73,617

Ref	Item	Quantity	Unit	Rate	Total
				B/f	73,617
	'Builder's work in connection with external services				
	Excavation, backfilling, gravel surround and warning tape				
1	g, g, s,				
_	100mm diameter clay duct 500mm deep	506	m	24.43	12,362
2	4nr 100mm PVC-u ducts 500mm deep	506	m	69.74	35,288
Tota		I			121,267

Ref	Item	Quantity	Unit	Rate	Total
	Contractor's preliminaries: employer's requirements				
	Allowance for employer's requirements				
1	default all-inclusive percentage	1.00	%	1,658,533.00	16,585
Tota					16,585

Ref	Item	Quantity	Unit	Rate	Total
	Contractor's preliminaries: contractor's cost items				
	Allowance for main contractor's cost items				
1	default all-inclusive percentage	9.00	%	1,658,533.00	149,268
Tota					149,268

Ref	Item	Total
	Design development risks	
	Risk items	
1	inadequate or unclear project brief	339
2	unclear design team responsibilities	3,292
3	unrealistic design programme	3,199
4	ineffective quality control procedures	2,929
5	inadequate site investigation	358
6	planning constraints/requirements	888
7	soundness of design data	1,368
8	appropriateness of design (constructionability)	2,917
9	degree of novelty (i.e. design novelty)	470
10	ineffective design co-ordination	1,033
11	reliability of area schedules	4,032
12	reliability of estimating data – changes in labour, materials, equipment and plant costs	529
13	reliability of estimating data – inflation (i.e. differential inflation due to market factors and/or timing)	1,719
14	use of provisional sums (i.e. do not give price certainty)	2,843
Total		25,916

Construction risks Construct

Ref	Item	Total
	Construction risks	
	Composite risk items	
1	changes to the project design, construction works and cost allowances due to the discovery of unanticipated items during the construction phase	134,475
Tota		134,475

Ref	Item	Total
	Employer change risks	
	Composite risk items	
1	changes in scope of works or project brief during design, pre-construction and construction stages and Employer driven changes/variations introduced during the construction phase	13,571
Tota		13,571

Employer other risks Construct

Ref	Item	Total
	Employer other risks	
	Composite risk items	
1	changes in statutory requirements, legislation, inflation and taxation, and allowance for additional costs due to design team deficiencies, contractual claims, force majeure and any other Employer-liable risks not allowed for elsewhere	67,293
Tota		67,293

Renewal and Maintain Cost Plans

Substructure Renewal

Ref	Item	Quantity	Unit	Rate	Period	Total
	Movement joint sealant to floor slab - remove existing and replace with new Sealants, Grace Servicised Paraseal polysulphide compound or other equal, priming with Grace Servicised Primer P					
1	25mm x 25mm, horizontal	188	m	35.61	Every 10 yrs	40,170
Tota						40,170

Ref	Item	Quantity	Unit	Rate	Period	Total
	Fire protection to steelwork - remove existing and replace with new Intumescent fire protection coating/decoration to exposed steelwork, on site application, spray applied					
1	60 minute protection per tonne	59.40	t	389.88	Every 20 yrs	69,477
Tota	I					69,477

Ref	Item	Quantity	Unit	Rate	Period	Total
	Pitched roof coverings (measured surface area) - remove existing and replace with new					
	Steel PVF2 coated galvanized trapezoidal profile cladding, for roof pitches greater than 4 degrees					
1	composite insulated roofing system, 80mm overall panel thickness	2174	m²	47.65	Every 40 yrs	103,591
	GRP Translucent rooflights, factory assembled					
2	double skin	242	m²	55.00	Every 40 yrs	13,310
	Flashings - remove existing and replace with new					
	Steel PVF2 coated galvanized eaves flashings for cladding panels					
3	200mm girth	272	m	3.67	Every 40 yrs	998
	Steel PVF2 coated galvanized ridge flashings for cladding panels					
4	620mm girth	42	m	127.39	Every 40 yrs	5,350
	Steel PVF2 coated galvanized hip flashings for cladding panels					
5	620mm girth	96	m	22.00	Every 40 yrs	2,112
	Roof drainage - remove existing and replace with new					
	Gutters, including angles, ends and outlets					
6	900mm girth galvanised pressed steel box gutter	196	m	49.82	Every 40 yrs	9,765
7	750mm girth Kalzip Membrane lined composite gutter system	44	m	166.30	Every 40 yrs	7,317
	Rainwater downpipes pipes, fixed to backgrounds, including offsets and shoes					
8	100mm diameter polyester powder coated aluminium	115	m	30.59	Every 40 yrs	3,518
Tota	İ					145,961

External walls Renewal

Ref	Item	Quantity	Unit	Rate	Period	Total
1	Metal profiled cladding - remove existing and replace with new Standard trapezoidal profile composite insulated wall cladding system system, 80mm overall panel					
	thickness	752	m²	57.61	Every 40 yrs	43,323
Tota						43,323

Ref	Item	Quantity	Unit	Rate	Period	Total
	Windows - remove existing and replace with new					
	Aluminium purpose made double glazed windows including ironmongery					
1	various sizes over 1.50m2	46	m²	558.04	Every 40 yrs	25,670
	Window boards - remove existing and replace with new					
	MDF window boards including decoration					
2	25mm x 150mm	38	m	15.04	Every 40 yrs	572
	External doors - remove existing and replace with new					
	Standard steel powdered coated finish security external doors and frames including ironmongery					
3	single leaf door, opening size 1000mm x 2100mm	4	nr	954.34	Every 40 yrs	3,817
	Aluminium double glazed purpose made external doors and frames including ironmongery					
4	single leaf door, opening size 1000mm x 2100mm	1	nr	2,065.77	Every 40 yrs	2,066
5	double leaf door, opening size 1800mm x 2100mm	1	nr	3,351.77	Every 40 yrs	3,352
	Insulated overhead sectional doors and frames, power operation					
6	4500mm x 4500mm	2	nr	2,851.34	Every 40 yrs	5,703
Carri	ed forward					41,180

Ref	Item	Quantity	Unit	Rate	Period	Total
	Redecoration to timber and steel surfaces				B/f	41,180
	Prepare and apply one undercoat and one finishing coat of gloss oil paint to general surfaces					
1	isolated surfaces not exceeding 300mm girth	38	m	2.01	Every 5 yrs	836
Tota	<u> </u>					42,016

Ref	Item	Quantity	Unit	Rate	Period	Total
1	Framed panel cubicles - remove existing and replace with new Changing and WC cubicles, high pressure laminate faced MDF proprietary system standard quality WC cubicle partition sets, aluminium framing, melamine face chipboard dividing panels and doors, ironmongery, small range (up to 5 cubicles), standard cubicle set, (rate per cubicle)	Quantity	nr	465.15		8,372
Tota	I					8,372

Internal doors Renewal

Ref	Item	Quantity	Unit	Rate	Period	Total
	Fire doors - remove existing and replace with new					
	Standard fire doors, cellular core, softwood lining, softwood architrave, aluminium ironmongery (lockable, self-closure), painting or polishing,					
1	single leaf, Oak veneered, 30min fire resistance, polished	10	nr	530.39	Every 30 yrs	5,304
2	single leaf, Oak veneered, 60min fire resistance, polished	2	nr	845.23	Every 30 yrs	1,690
	Ironmongery sets					
	Stainless steel ironmongery, euro locks, push plates, kick plates, signage, closures, standard sets					
3	office door, non locking, fire rated	10	nr	277.97	Every 30 yrs	2,780
4	office/store, lockable, fire rated	2	nr	314.84	Every 30 yrs	630
	Redecoration to timber and steel surfaces					
	Prepare and apply one undercoat and one finishing coat of gloss oil paint to general surfaces					
5	single doors and frames both sides, 1000mm x 2100mm	12	nr	41.80	Every 5 yrs	5,020
Tota	I					15,424

Wall finishes Renewal

Rigid tile/panel/board finishes - remove existing and replace with new Ceramic wall tiles, including backing 1 medium to high quality 36 m² 48.51 Decoration Emulsion on plaster surfaces 2 one mist and two coats emulsion		3,492
1 medium to high quality 36 m² 48.51 Decoration Emulsion on plaster surfaces		3,492
Decoration Emulsion on plaster surfaces		3,492
Emulsion on plaster surfaces	Every 5 yrs	
	Every 5 yrs	
2 one mist and two coats emulsion	Every 5 yrs	
paint 1040 m ² 3.61		37,540
Total		41,032

Floor finishes Renewal

Ref	Item	Quantity	Unit	Rate	Period	Total
	Sheet/board flooring - remove existing and replace with new					
	Flexible tiling, welded sheet or butt joint tiles, adhesive fixing					
1	vinyl safety flooring, 2.00-2.50mm thick	60	m²	50.78	Every 15 yrs	6,094
	Carpet, including underlay, edge grippers					
2	heavy contract duty, Forbo Flotex HD	224	m²	52.76	Every 10 yrs	47,272
	Entrance matting and matwell					
3	Gradus Topguard barrier matting with aluminium frame	10	m²	391.42	Every 10 yrs	15,656
	Skirtings - remove existing and replace with new					
	Softwood					
4	softwood skirting, gloss paint finish	112	m	16.52	Every 20 yrs	3,700
	Sit-on PVC skirtings					
5	100mm high	30	m	7.19	Every 15 yrs	432
	Redecoration to timber surfaces					
	Prepare and apply one undercoat and one finishing coat of gloss oil paint or two coats lacquer to general surfaces					
6	isolated surfaces not exceeding 300mm girth	112	m	1.96	Every 5 yrs	1,980
Tota						75,134
TOLA	1					/5,134

Ceiling finishes Renewal

Ref	Item	Quantity	Unit	Rate	Period	Total
1	Suspended and integrated ceilings - remove existing and replace with new Armstrong suspended ceiling, large rooms, over 250m2 mineral fibre, medium quality, Corline, exposed grid	294	m²	28.93	Every 30 yrs	0
	CAPOSCU S.I.U	23.		20.33	210.7 30 7.3	
Tota			<u>I</u>	I	<u> </u>	0

Ref	Item	Quantity	Unit	Rate	Period	Total
	Kitchen units, including any pre- assembly - remove existing and replace with new					
	Wall units					
1	600mm x 300mm x 720mm	2	nr	112.87	Every 20 yrs	0
	Floor units with drawers					
2	600mm x 600mm x 870mm	2	nr	161.71	Every 20 yrs	0
	Sink units (excluding sink top)					
3	1000mm x 600mm x 870mm	1	nr	217.10	Every 20 yrs	0
	Laminated plastics worktops single rolled edge					
4	38mm thick, 600mm wide	2	m	41.73	Every 20 yrs	0
	Mirror with polished edges - remove existing and replace with new					
	6mm thick rectangular glass mirrors, silver backed, fixed with chromium plated domed headed screws					
5	400mm x 300mm	16	nr	25.56	Every 20 yrs	0
Tota			1			0

Sanitary installations Renewal

Ref	Item	Quantity	Unit	Rate	Period	Total
	Sanitary appliances and fittings - remove existing and replace with new					
	Single drainer stainless steel sinks with waste outlet, overflow, plug and chain and mixer tap					
1	bowl and a half	1	nr	363.04	Every 30 yrs	0
	White glazed fireclay sinks with waste outlet, plug and chain and brackets and basin taps					
2	610mm x 380mm x 210mm	1	nr	350.30	Every 30 yrs	0
	White vitreous china wash basins with waste outlet, plug and chain, concealed brackets and basin taps					
3	400mm	16	nr	170.95	Every 30 yrs	0
	Low level white vitreous china WC suites with pan, cistern and fittings, plastics seat and lid and drain connector					
4	close coupled WC, dual flush valve	9	nr	286.60	Every 30 yrs	0
	Range of white vitreous china urinal bowls and concealed automatic cistern and fittings, with concealed flush pipes and waste outlet					
5	range of two 400mm urinal bowls	1	nr	492.74	Every 30 yrs	0
6	white vitreous china urinal divisions	1	nr	74.18	Every 30 yrs	0
	Sanitary ancillaries - remove existing and replace with new					
	Pressalit Ltd or equal grab rails					
7	450mm long ref RT101000	2	nr	70.28	Every 30 yrs	0
8	600mm long ref RT102000,	2	nr	79.37	Every 30 yrs	0
	Pressalit Ltd or equal hinged grab rails					
9	600mm long ref R3016000	1	nr	193.59	Every 30 yrs	0
Tota						
Tota						0

Ref	Item	Quantity	Unit	Rate	Period	Total
	Foul drainage above ground to sanitary, kitchen or services appliances - remove existing and replace with new Waste, soil and vent pipe installations per					
	appliance					
1	PVC-u and PVC-mu pipes and fittings	29	nr	402.77	Every 30 yrs	0
Tota						0

Water installations Renewal

Ref	Item	Quantity	Unit	Rate	Period	Total
	Hot and cold water installations, mains supply, storage, hot and cold water distribution - remove existing and replace with new					
	Typical rates per outlet point					
1	cold water - simple installation	28	nr	363.04	Every 30 yrs	0
2	hot water - simple installation	18	nr	414.11	Every 30 yrs	0
Tota						0

Heat source Renewal

Ref	Item	Quantity	Unit	Rate	Period	Total
	Boilers - remove existing and replace with new Typical rates per kW					
1	gas fired boilers including gas train and controls	62	kW	36.87	Every 15 yrs	6,858
Tota			<u> </u>		<u> </u>	6,858

Ref	Item	Quantity	Unit	Rate	Period	Total
1	Typical space heating and air conditioning installations per building type - remove existing and replace with new Typical rates per gross internal floor area factory unit, LTHW to offices, displacement system to warehouse	2331	m²	26.95	Every 30 yrs	0
	alspiderment system to warehouse	2001		20.33	212. 7 33 713	
Tota						0

Ventilation Renewal

Ref	Item	Quantity	Unit	Rate	Period	Total
	Typical ventilation installations per building type - remove existing and replace with new					
	Typical rates per gross internal floor area					
1	distribution centre, smoke extract system	2037	m²	6.69	Every 30 yrs	0
	Typical ventilation installations per system type - remove existing and replace with new					
	Ventilation systems (excluding smoke extract)					
2	building up to 3,000m2	50	m²	40.28	Every 30 yrs	0
Total						0

Electrical installations Renewal

Ref	Item	Quantity	Unit	Rate	Period	Total
	Typical electrical installations including LV distribution, HV distribution, lighting and small power per building type - remove existing and replace with new					
	Typical rates per gross internal floor area					
1	factory unit	2331	m²	80.55	Every 30 yrs	0
Tota						0
	•					

Ref	Item	Quantity	Unit	Rate	Period	Total
	Passenger Lifts, car height of 2.2m, standard car finish, brushed stainless steel 2 panel centre opening doors to BSEN 81 Part 1 & 2, machine room less remove existing and replace with new Electrically operated AC drive serving 2 levels with directional collective controls and a speed of 1.0m/s					
1	8 person	1	nr	59,563.13	Every 30 yrs	0
Tota				ı	ı	0

Ref	Item	Quantity	Unit	Rate	Period	Total
	Typical fire and lightning protection installations per system type - remove existing and replace with new					
	Sprinkler installations					
1	building up to 3,000m2	2331	m²	21.11	Every 30 yrs	0
	Lightning protection					
2	building up to 3,000m2	2331	m²	2.90	Every 30 yrs	0
Tota	<u> </u> 					0

Ref	Item	Quantity	Unit	Rate	Period	Total
	Typical fire alarm, public address system and security installations per system type - remove existing and replace with new					
	Fire alarm installation					
1	building up to 3,000m2	2331	m²	10.52		0
	IT wireways installation					
2	building up to 3,000m2	2331	m²	2.90		0
	Voice and data installation					
3	building up to 3,000m2	2331	m²	12.81		0
	Intruder detection and alarm installation					
4	building up to 3,000m2	2331	m²	8.19		0
Tota						0

Ref	Item	Quantity	Unit	Rate	Period	Total
1	Gross internal floor area (unless described otherwise) Warehouses and sports halls central heating, electrical and lift installation	2331	m²	2.10	Every 30 yrs	0
					, ,	
Tota						0

Ref	Item	Quantity	Unit	Rate	Period	Total
	Paved areas including edgings and kerbs - remove existing and replace with new					
	Tarmacadam paving					
1	two layers, limestone or igneous chipping finish paving on sub-base, including excavation and type 1 sub-base	2295	m²	94.74	Every 30 yrs	0
	Slab paving					
2	precast concrete paving slabs on sub- base, including excavation	135	m²	55.04	Every 30 yrs	0
	Brick/block/setts paving					
3	precast concrete block paviors to footways including excavation, subbase	270	m²	72.04	Every 30 yrs	0
					, ,	
Tota						
Tota	1					0

Ref	Item	Quantity	Unit	Rate	Period	Total
	Fencing and walls - remove existing and replace with new					
	Chain link fencing, plastic coated					
1	1.80m high	300	m	30.07	Every 30 yrs	0
	Bollards and barriers					
2	parking bollards precast concrete or steel	4	nr	170.17	Every 30 yrs	0
Tota	<u> </u>	l	1			0

External fixtures Renewal

Ref	Item	Quantity	Unit	Rate	Period	Total
	Street furniture - remove existing and replace with new					
	Galvanized steel cycle stand					
1	fixing in position	8	nr	47.65	Every 15 yrs	1,143
Tota						1,143

Roof Maintain

Ref	Item	Quantity	Unit	Rate	Period	Total
1	Planned actions Planned preventive maintenance on rainwater gutters clearing out gutters once a year of silt,					
1	vegetation and debris	1	item	1,079.19	Every year	63,661
Tota						63,661
						33,001

Heat source Maintain

Ref	Item	Quantity	Unit	Rate	Period	Total
	Planned actions					
	Planned preventive maintenance on heat source types					
1	servicing the boiler once a year	1	item	539.59	Every year	30,240
Tota						30,240
lota						30,240

Ref	Item	Quantity	Unit	Rate	Period	Total
	Planned actions					
	Planned preventive maintenance on applicable lifts and enclosed hoists					
1	serving the passanger lift once a year	1	item	539.59	Every year	31,320
Tota	<u> </u>					31,320

Ref	Item	Quantity	Unit	Rate	Period	Total
1	Planned actions Planned preventive maintenance on applicable fire-fighting systems servicing the sprinkler installation once a year	1	item	1,079.19	Every year	62,582
Tota						62,582

Ref	Item	Quantity	Unit	Rate	Period	Total
	Planned actions					
	Planned preventive maintenance on applicable communication systems					
1	serving the fire alarm installation once a year	1	item	539.59	Every year	31,320
	Planned preventive maintenance on applicable security systems					
2	serving the intruder alarm installation once a year	1	item	539.59	Every year	31,320
Tota	İ		1			62,640

Ref	Item	Quantity	Unit	Rate	Total
	Contractor's preliminaries: employer's requirements				
	Allowance for employer's requirements				
1	default all-inclusive percentage	0.50	%	739,353.00	3,697
Tota	<u> </u> 				3,697
					2,037

Ref	Item	Quantity	Unit	Rate	Total
	Contractor's preliminaries: contractor's cost items				
	Allowance for maintenance contractor's cost items				
1	default all-inclusive percentage	4.50	%	739,353.00	33,271
Tota			<u> </u>		33,271

Ref	Item	Total
	Design and installation risks	
	Composite risk items	
1	changes to the project design and estimating data during the design development phase	20,881
Tota		20,881

Maintenance risks Renewal and maintain

Ref	Item	Total
	Maintenance risks	
	Composite risk items	
1	changes to the project design, construction works and cost allowances due to the discovery of unanticipated items during the construction phase	32,902
Tota	<u> </u> 	32,902

Ref	Item	Total
	Employer change risks	
	Composite risk items	
1	changes in scope of works or project brief during design, pre-construction and construction stages and Employer driven changes/variations introduced during the construction phase	2,742
Tota		2,742

Ref	Item	Total
	Employer other risks	
	Composite risk items	
1	changes in statutory requirements, legislation, inflation and taxation, and allowance for additional costs due to design team deficiencies, contractual claims, force majeure and any other Employer-liable risks not allowed for elsewhere	21,929
Tota		21,929

Operation and Occupancy Cost Plan

Operation and occupancy costs

Ref	Item	Quantity	Unit	Rate	Total
	Operation costs				
	Utilities (energy, carbon emission)				
1	cost per annum	1	year	51,290.17	51,290
Tota	 				51,290

End of Life Cost Plan

End of life costs

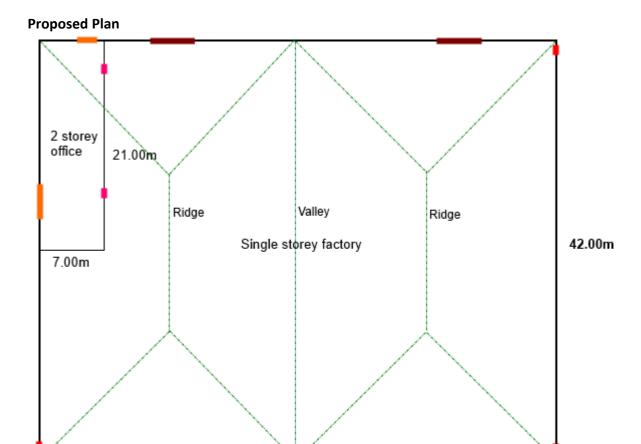
Ref	Item	Quantity	Unit	Rate	Total
	End of life costs				
	Disposal/dilapidations inspections				
1	preparing building for sale		item		25,000
Tota	I 		I		25,000
					Page 4 39

Base Data

Base Data

1	Gross internal floor area:	2331m²
2	Footprint area:	2184m²
3	Site area:	5184m²
4	Average storey height:	4.7m
5	Vertical envelope factor:	0.384
6	Main contractor's overheads:	5%
7	Main contractor's profit:	2.5%
8	Location index:	100
9	Cost model base date:	13 Jan 2017
10	Construction start date:	1 Apr 2017
11	Construction period:	52 weeks
12	Maintenance start date:	2 Apr 2018
13	Maintenance period:	60 years
14	Currency:	£
15	Works complexity:	Normal
16	Alteration works:	0%
16 17	Alteration works: Site access/set up factor:	0% 0%
17	Site access/set up factor:	0%
17 18	Site access/set up factor: Project desirability factor:	0% 0%
17 18 19	Site access/set up factor: Project desirability factor: Library:	0% 0% CostAdviser LCC Cost Planning Library
17 18 19 20	Site access/set up factor: Project desirability factor: Library: Indices base date:	0% CostAdviser LCC Cost Planning Library 1Q/2017
17 18 19 20 21	Site access/set up factor: Project desirability factor: Library: Indices base date: Current tender index (Base year 2000 - 100):	0% CostAdviser LCC Cost Planning Library 1Q/2017 170
17 18 19 20 21 22	Site access/set up factor: Project desirability factor: Library: Indices base date: Current tender index (Base year 2000 - 100): Forecasted construction tender price inflation per annum:	0% CostAdviser LCC Cost Planning Library 1Q/2017 170 2.35%
17 18 19 20 21 22 23	Site access/set up factor: Project desirability factor: Library: Indices base date: Current tender index (Base year 2000 - 100): Forecasted construction tender price inflation per annum: Forecasted construction cost inflation per annum:	0% CostAdviser LCC Cost Planning Library 1Q/2017 170 2.35% 2.38%
17 18 19 20 21 22 23 24	Site access/set up factor: Project desirability factor: Library: Indices base date: Current tender index (Base year 2000 - 100): Forecasted construction tender price inflation per annum: Forecasted construction cost inflation per annum: Any overall adjustment to construction costs:	0% 0% CostAdviser LCC Cost Planning Library 1Q/2017 170 2.35% 2.38% 0%
17 18 19 20 21 22 23 24 25	Site access/set up factor: Project desirability factor: Library: Indices base date: Current tender index (Base year 2000 - 100): Forecasted construction tender price inflation per annum: Forecasted construction cost inflation per annum: Any overall adjustment to construction costs: Maintenance contractor's overheads and profit:	0% 0% CostAdviser LCC Cost Planning Library 1Q/2017 170 2.35% 2.38% 0% 7.5%

Appendix



Proposed Specification

1. Internal size 52.00m x 42.00m with 7.00m x 21.00m two-storey office. Height to eaves 4.70m. External works area 3000m2.

52.00m

- 2. Structural steel portal frame with columns at approximately 6.00m centres and intermediate columns along the valley line. All steelwork to be fire protected with intumescent paint. Cold rolled galvanised steel roof purlin and wall cladding rails to support the roof and wall cladding.
- 3. 200mm thick insulated ground slab reinforced with 2 layers A252 fabric reinforcement. Designed construction joints to full length of slab on the lines of the roof ridges and valley and movement joints to full perimeter.
- 4. Reinforced concrete pad foundations to steel portal frame columns. Concrete strip foundations to external and internal walls.
- 5. Precast concrete plank upper floor to office capable of carrying 5KN/m2 loading finished with structural screed.
- 6. Single quarter landing precast concrete staircase to first floor office.
- 7. Insulated steel composite roof cladding with 10% integral translucent rooflights. Inboard insulated valley and eaves gutters. Internal aluminum rainwater pipes at approximately 12m centres. Clip-in roof

Appendix continued.....

access safety system required.

- 8. 103mm facing bricks, 75mm insulated cavity and 100mm concrete blockwork external walls to office. Insulated steel composite external wall cladding with 2.00m high 100mm concrete blockwork protection wall to factory.
- 9. 1200mm high double glazed aluminum windows to ground and first floor offices front elevation. 1nr 3500mm x 2100mm main entrance and 1nr 2000mm x 2100mm side entrance double glazed aluminum doors and side screens to office.
- 10. 2nr 4500mm x 4500mm electrically operated insulated steel external roller shutter doors and 4nr 1000mm x 2100mm flush personnel/fire exit doors to factory.
- 11. 140mm concrete blockwork wall between factory and office. 100mm concrete blockwork walls to office, 40m in length to ground floor and 20m to first floor.
- 12. Proprietary laminate faced WC cubicles to all WCs.
- 13. All internal doors to be 1000mm x 2100mm. 2nr one hour fire resistant flush doors between office and factory. 8nr half hour fire resistant doors with vision panels to offices. 2nr non-fire rated flush doors to toilet inner lobbies.
- 14. Plaster to all office walls. Eggshell paint to all plaster and blockwork walls. Ceramic tiling to toilets.
- 15. Barrier matting to office entrances (10m2). Non-slip sheet vinyl and PVC skirtings to toilets (60m2). Carpet tiles and painted softwood skirtings to remaining office areas.
- 16. Mineral fibre tile suspended ceiling system to offices.
- 17. Kitchen units for tea making to Kitchenette in offices. Vanity units and mirrors to male and female toilets.
- 18. 1nr stainless steel sink to kitchenette. 1nr cleaners sink. 8nr vanity basins to each male and female toilets. 1nr range of two urinals to Male WC. 5nr WCs to Female WC and 4nr WCs to male toilets. 1nr WC in each of the male and female toilets is to be suitable for disabled person use.
- 19. Hot and cold water supplies to office.
- 20. Gas fired boiler and hot water radiator heating system to offices. High level gas fired warm air heating system to factory.
- 21. Extract ventilation to male and female toilets. Smoke extract system to factory.
- 22. Full power and lighting systems to offices and factory.
- 23. 1nr 8-person 2- stop lift to offices.
- 24. Sprinkler installation to factory.
- 25. Lightning protection system to roof.

Appendix continued.....

- 26. Telephone and data systems to offices.
- 27. Fire and intruder detection and alarm systems required to all areas.
- 28. 10% of the external works area is to be planted with shrubs. Of the remaining area 5% will be precast concrete footpaths, 10% concrete block pavoir car parking areas, 20% macadam road areas and 65% in-situ concrete yard areas. Approximately 600m of precast concrete road kerbs and 100m of precast concrete path edgings are required.
- 29. 2100mm high plastic coated wire mesh fence to site perimeter with 1nr pedestrian gate and 1nr double vehicle gate.
- 30. Bollards to each side of roller shutter doors. 1nr cycle stand for 8nr cycles.
- 31. Foul and surface water drainage connecting into existing adjacent drainage installation.
- 32. New water, electricity, gas and telecommunication mains to be brought on to site.
- 33. 12nr lighting bollards to footpath areas. 16nr wall mounted outdoor flood lighting fixed to external walls of the building.