Elemental Cost Breakdown UWTSD - Library Building

Prepared by Lynsey Davies.

1.1 Substructure

47.62 20.10		Foundations - Ground floor slab, inc insulation and DPM.
	957.16	

2/ 47.62 2/ 20.10 2/2/ 6.30		150mm Concrete upstand 150 thk
	160.64	

957.16 1.50		Trench and Pit Excavation, inc disposal offsite.
	1435.74	m^3

1.2 Pile Foundations

		piles & pile Caps
28		1 pile
19		2 pile
10		3 pile
	96	Nr

28 19 10		pile Caps
	96	Nr

2. SuperStructure

2.1 Frame

2.1.2.3 Concrete frame

2/ 47.62
2/ 20.10

135.44

135.44
8.76

1186.45

In situ reinforced Concrete frame 250 THK to all Perimeter walls @ 8.76.

1.91
1.44
0.84
2/ 1.93
2.74

16.79

16.79
8.76

94.52

RC 250 THK Shear walls to lift. @ 8.76.

1.14
3.43

4.57

4.57
8.76

40.03

RC 200 THK Shear walls to lift @ 8.76

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2.1 Frame Continued

2.1.4.3 Concrete frame

1.48		RC 250 Sheer Walls to Stairwell @ 8.76
2.25		
0.47		
1.18		
1.96		
	7.34	
7.34		
8.76		
	64.30	
3.47		RC 200 Thk Sheer Walls to Stairwell @ 8.76.
	3.47	
3.47		
8.76		
	30.40	

2.1.4.1 Columns

		RC insitu Concrete
16		500 x 300
3		500 x 385
14		500 x 500
	33	
3/ 33		
	99	Nr

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2. Super Structure
2.2 Upper floors

Suspended RC Slab

First floor @ 275mm

2/ 47.62
2/ 20.10
2/ 6.36
2/ 2.13

152.30

Second floor @ 275mm

2/ 47.62
2/ 20.10

135.44

Total area to upper floors

152.30
135.44

287.74

287.74
0.28

80856 m^2

2.3 Roof

2.3.2 Roof Coverings

2/	51.50 12.70	Metal Standing Seam Roof	
	654.05	m^2	
	26.00 4.30	Solar Panels to Side Elevation	
	17.00 4.30		
	187.05	Dalt	
	6.35 2.85	PPC metal Ventilation Louvres	
	18.10	Dalt	
4/	3.50 1.50	PPC Aluminium Roof light.	
	21.00	Dalt	
		Total Roof Area	
	427.90	m^2	

* Roof pitch and angle unknown

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2.3 Continued

2.3.4.

Rainwater goods

2/ 51.80 Gutters

103 m

2/2/ 11.70 Downpipes

2 No to each Side Elevation

46.80

Fascia Boards & Soffits

2 51.80 Side Elevation

2/2/ 23.67

197.68 front & Rear.

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2.5 External Walls

External Brickwork

Elevation 1 @ 8.63m

2/2 0.57
8.63
2/2 0.45
8.63
2/ 5.29
0.93
7.50
0.93

52.02

Elevation 2 & 4.

2/ 1.01
7.20

14.54

Elevation 5 @ 8.63m

48.87
8.63
6/ 5.41
7.70
2/ 0.46
2.40
3.06
3.23
4.87
3.23

143.47

Ddt Curtain Wall System & window area @ 7.70

Ddt 01W28 & W15

Ddt Gf Cw 25

Ddt Gf W02 & vol. & Cw

Total area

2/ 52.02
2/ 14.54
2/ 143.47

420.06

* Note
Elevation 6 as 1
Elevation 7 & 9 as 2 & 4
Elevation 9 as 5

External Walls

2.5.7

Curtain Walling

Cw Types 1 + 2

6.61
5.52
2/05/ 6.61
4.88

68.74 m^2

Cw Types 3 + 4

5.29
2.73
2/0.5/ 5.29
2.81

29.31 m^2

Cw Types 5 + 6

7.06
7.20
3.86
2.48

Dbt door opening

41.26 m^2

Cw types 7 + 8

1.47
7.20

10.58 m^2

Cw types 9a, 9b, 10

5.29
7.20

38.08 m^2

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Continued External Walls

Curtain Walling

Cw type 11.

3.06
1.88

5.75 m²

Cw type 12, 13a, 13b, 13c, 13d

5.41
1.88

10.17 m²

Cw type 14 + 14a

4.92
1.89

9.25 m²

Cw type 15

3.06
3.23

9.88 m²

Cw type 16 + 17 + 18 + 24

5.416
3.23

17.47 m²

Cw type 19.

4.92
3.23

15.89 m²

Cw type 20

1.36
3.23

4.39 m²

8/	5.75
5/	10.17
2/	9.25
1/	9.88
4/	17.47
	15.89
	4.39
2/	68.74
2/	29.31
2/	41.26
2/	10.58
3/	38.08

Total Cw System

589.16 m²

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External Walls

2.5.7

Area of Cladding

External Elevation 1 and 6 area.

20.90
5.47

114.32 m²

20.90
2.76

57.68

172.00 m² Total area.

External Elevation 5 + 10

47.58
10.65

506.13 m²

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Windows & Ex Door

2.6.1 windows

4/ 0.46
2.40

Type 1 460 x 2400

4.42 m^2

24/ 1.36
2.40

Type 2 1360 x 2400
Type 2a - "
Type 3 - "
Type 3a - "
Type 4 - "

78.34

10/ 1.36
3.23

Type 5 1360 x 3225
Type 6 "

43.93

4/ 3.45
3.27

Type 7 3450 x 3265

45.13

12 of 19

2.1 Internal Wall & Partitions

Ground Floor.
Dry lining Partition to Internal face of External Walls
@ 3.73

2/	47.89	
2/	20.47	
2/2/	2.80	
3/	3.30	
	3.90	
	4.60	
	2.60	
	2.80	
2/	3.40	
	3.70	
	2.90	
	1.90	
	1.00	
4/	1.60	
2/2/	2.40	
	5.60	
2/	2.70	
2/	3.90	
	4.70	
4/	3.40	
	1.30	
		327.60

327.60
3.73

1221.95

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2.7 Continued.

130mm-1hk 70m Stud Drying to internal wall. @ 3.73m

2/	8.25	
3/	9.45	
2/	2.90	
	3.00	
	1.00	
5/	2.50	
2/	5.60	
3/	6.26	
	29.00	
	2.20	
2/	2.13	
2/	2.20	
		136.99

136.99	
3.73	
	510.97 m^2

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2.7 Continued.

First Floor.
Dry lining Partitions to Internal face of External walls @ 3.73m.

2/	48.00
2/	21.00
2/	2.30
2/	4.40
	6.20
2/	13.70
2/	2.60
3/	3.30
	3.90
	4.60
	2.60
	2.80
2/	3.40
	3.70
	2.90
	1.90
	1.00
4/	1.60
2/2/	2.40
	5.60
2/	2.70
2/	3.98
	4.70
4/	3.40
	1.30
	296.90 @ 3.73
	1107.44

2.7 Continued

130 m thk 70mm Shed
@ 3.73

5/4/	4.20	
	1.50	
	4.20	
2/	3.00	
	1.30	
5/	2.70	
2/	5.60	
2/	6.20	
2/	10.30	
2/	3.20	
2/	3.60	
2/	2.50	
2/	3.50	
2/	2.60	
2/	2.00	
		189.50

189.50
3.73

706.84

2.7 Continued.

Second floor.
Dry lining to Partition
Internal face of external
walls @ 3.73

2/ 47.89
2/ 20.47
3/ 3.30
3.90
4.60
2.60
2.80
2/ 3.40
3.70
2.90
1.90
1.00
4/ 1.60
2/2/ 2.40
5.60
2/ 2.70
2/ 3.90
4.70
4/ 3.40
1.30

645.35

130mm Hy R Partition
70mm Stud @ 2.70

2/ 6.30
1.80
7.00
2/4/ 3.30
31.66
4.10

2-7 Continued.
Second floor.

4/ 2.60
5/ 6.40
21.70
3.50
2/ 2.30

155.76

155.76
2.70

420.55

32.1 Floor finishes

Total floor Area to all floors

3/ 48.00
21.00

3024

plant room. Ground floor.

4.20
6.50
3.40
4.50
2.20
2.18

Dolt Cleaners room

37.80

Plant room to Second floor.

10.00
6.00

60.00

Wet areas - all floors

3/ 6.50
4.00

78.00

Totals.

3.3 Internal finishes

Ceiling finishes

3/	48.00 21.00	Gross Area to all floors
	3024.	