

Example WS11-1 : Insitu Reinforced concrete

QS Reference / Date : dd/mm/yy

		Drwgs L101 L102 L110 A101				<u>Columns</u>
		<u>Taking off list</u>	16 /	0.30 0.30 <u>1.80</u>		Overall height: Column 1.500 To underside of slab <u>0.300</u> <u>1.800</u>
		Sub-structure; all items up to & including the ground floor slab				Reinforced in-situ concrete; Mix B; vertical work; not exceeding 300 thick; in structures; columns
		Superstructure; from top of slab roof				<u>Ground floor slab</u>
		Sub-structure Groundworks/foundations/filling				Overall length / width: 3 / 5.000 15.000 <u>Ddt</u> 2/ 0.300 <u>0.600</u> <u>14.400</u>
		Blinding / bases / formwork / columns / formwork / bed / formwork / edge beam / fmwk / reinforcement.				Reinforced in-situ concrete; Mix B; horizontal work; not exceeding 300 thick; in structures; ground floor slab
		Superstructure Columns / beams / slabs / wall formwork / reinforcement.		14.40 14.40 <u>0.20</u>		<u>Perimeter / edge beams</u>
		Substructure <u>Pad foundations</u>				Average beam width: At widest point (0.150+0.300) 0.450 At narrowest point <u>0.300</u> <u>0.375</u>
16 /	1.20 1.20 <u>0.05</u>	Plain in-situ concrete; Mix A; horizontal work; not exceeding 300 thick; poured on or against earth or unblinded hardcore; blinding to pad foundations				Mean girth: Internal dimension <u>4 / 14.400</u> 57.600 Add 4 / 2 / ½ / 0.375 <u>1.500</u> 59.100
16 /	1.20 1.20 <u>0.60</u>	Reinforced in-situ concrete; Mix B; horizontal work; exceeding 300 thick; in blinding; pad foundations		59.10 0.38 <u>0.50</u>		Reinforced in-situ concrete; Mix B; horizontal work; exceeding 300 thick; in structures; perimeter edge beams
			12 /	0.30 0.30 <u>0.30</u>		<u>Ddt</u> Last item

Pad foundations formwork

Overall length / perimeter:
4 / 1.200 4.800

Overall depth:
Foundation depth 0.600
Blinding depth 0.050
0.650

Plain formwork; sides of foundations and bases; exceeding 500mm high

Perimeter / edge beam formwork

Overall length / width:
3 / 5.000 15.000
Add 2/ 0.150 0.300
15.300

Plain formwork; edges of horizontal work; not exceeding 500mm high

Columns formwork

Overall length / perimeter:
4 / 0.300 1.200

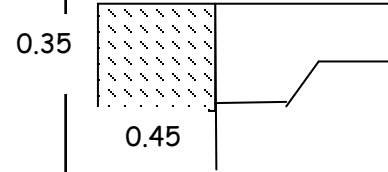
Plain formwork; sides of isolated columns; 300 x 300 square; 16nr

Reinforcement mesh

Overall length / width: 15.300
Less cover 2/ 0.150 0.300
15.000

Reinforcement mesh; reference A193 fabric; weight 3.02kg/m2 with 150mm minimum laps

Adjustment to excavation



Length:
4 / 16.200 64.800
Less 4 / 2 / ½ / 0.450 1.800
63.000

Deduct

Disposal of excavated material off site

Add

Filling obtained from excavated material; final thickness of filling not exceeding 500mm deep; 350 thick

Ddt

Retaining excavated material on site

&

Filling obtained from excavated material, final thickness of filling exceeding 500mm deep; backfilling foundations

&

Add

Disposal of excavated material off site

16 / 4.80
0.65

4 / 15.30

16 / 1.20
1.80

15.00
15.00

63.00
0.45
0.35

63.00
0.45

16 / 1.20
1.20
0.65

16 / 0.30
0.30
1.50

Superstructure

Reinforced concrete slabs

Overall length / width:
3 / 5.000 15.000
Add 2 / 0.150 0.300
15.300

Reinforced in-situ concrete; Mix B;
horizontal work; not exceeding
300 thick; in structures; floor slabs

2 / 15.30
15.30
0.20
2 / 15.30
15.30
0.18
15.30
15.30
0.15

Reinforced concrete attached beams

Length:
5.000
Ddt 2 / ½ / 0.300 0.300
4.700

Reinforced in-situ concrete; Mix B;
horizontal work; not exceeding 300
thick; in structures; attached beams

5 / 24 / 4.70
0.30
0.30

2 / 16 / 0.30
0.30
2.80
2 / 16 / 0.30
0.30
2.83
16 / 0.30
0.30
2.85

Reinforced concrete columns

Height:

Ground-1st and 1st-2nd floor
column 3.000
Less slab 0.200
2.800

2nd – 3rd floor and 3rd to 4th floor
column 3.000
Less slab 0.175
2.825

4th floor to roof
column 3.000
Less slab 0.150
2.850

Reinforced in-situ concrete; Mix B;
vertical work; not exceeding
300 thick; in structures; columns

Reinforced concrete parapet wall

Mean girth:

4 / 15.300 61.200
Ddt 4 / 2 / ½ / 0.150 0.600
60.600

Height:

Marked dimension 0.600
Assume for slope 0.050
0.550

Reinforced in-situ concrete; Mix B;
vertical work; not exceeding 300
thick; in structures; parapet wall

60.60
0.15
0.55

