

Piled foundations

Drwgs
A/01/01
A/01/02

Taking off list CESMM4

Class P: Piles

Number of piles
Concreted length
Depth of bore

Class Q: Pile Ancillaries

Enlarging bases
Cutting off surplus lengths
Preparing heads
Obstructions
Pile tests

Class E: Pile Caps

Excavation
Disposal
Preparation of excavated surfaces

Length of pile to be cut off

Pile cap 1.000
Less 0.100
0.900

Depth of bore and concrete

Pile nos. 1,6,11

Comm level 28.200
Less Base level 19.000
Bored length 9.200
Less cut off 0.900
Concrete length 8.300

Pile nos. 2,7,12

Comm level 28.200
Less Base level 18.900
Bored length 9.300
Less cut off 0.900
Concrete length 8.400

Pile nos. 3,8,13

Comm level 28.200
Less Base level 18.700
Bored length 9.500
Less cut off 0.900
Concrete length 8.600

1.

Pile nos. 4,9,14
Comm level 28.200
Less Base level 18.200
Bored length 10.000
Less cut off 0.900
Concrete length 9.100

Pile nos. 5,10,15
Comm level 28.200
Less Base level 17.700
Bored length 10.500
Less cut off 0.900
Concrete length 9.600

Bored cast in place concrete piles

750mm diameter piles

5/ 1

Number of piles

8.30
8.40
8.60
9.10
9.60

Concreted length of piles

9.20
9.30
9.50
10.00
10.50

Depth bored maximum depth
10.5m

2.

		Bored cast in place concrete piles			<u>900mm diameter piles</u>
		<u>900 mm diameter piles</u>			
2/5/	<u>1</u>	Number of piles	2/5/	<u>0.90</u>	Ditto cutting off surplus lengths
2/	<u>8.30</u>	} Concreted length of piles			
2/	<u>8.40</u>				
2/	<u>8.60</u>				
2/	<u>9.10</u>				
2/	<u>9.60</u>				
			2/5/	<u>1</u>	Ditto preparing heads
2/	<u>9.20</u>	} Depth bored; maximum depth 10.5m			
2/	<u>9.30</u>				
2/	<u>9.50</u>				
2/	<u>10.00</u>				
2/	<u>10.50</u>				
			3/5/	<u>1</u>	Pile tests; maintain loading with Various reactions; test load 200 - 300 tonnes
		<u>Piling Ancillaries</u> <u>CESMM4 Class Q</u>			
		<u>750mm diameter piles</u>			
2/	<u>1</u>	Cast in place concrete piles, enlarging bases to 1200mm			
5/	<u>0.90</u>	Ditto cutting off surplus lengths			
5/	<u>1</u>	Ditto preparing heads			

Earthworks
CESMM4 Class E

In-situ Concrete
CESMM4 Class F

Pile caps

13.75
6.00
1.00

Provision of concrete; designated
concrete; strength RC25/30; max
aggregate size 20mm

13.75
6.00
1.00

Excavation for foundations in
materials other than topsoil, rock
or artificial hard material; max
depth 0.5 - 1.0m commencing
surface 28.200AOD

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Excavation ancillaries; disposal of
excavated material

Placing of concrete; reinforced;
bases, footings, pile caps and
ground beams; thickness exceeding
500mm

Piles

πr^2

Ddt
Both

5/ π / 0.38
0.38
1.00

5/ π / 0.38
0.38
0.10
2/5/ π / 0.45
0.45
0.10

Ddt
Both

πr^2

2/5/ π / 0.45
0.45
1.00

Excavation ancillaries; preparation
of excavated surfaces

Concrete Ancillaries
CESMM4 Class G

13.75
6.00

Ddt
Last

πr^2

5/ π / 0.38
0.38
2/5/ π / 0.45
0.45

39.50
1.00

Formwork; rough finish, plane
vertical, width 0.4 - 1.22m

13.750
6.000
2/19.750
39.500

To take:
Reinforcement

5.

6.