

PRECAST CONCRETE PILES

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GENERAL SPECIFICATIONS

Product Standard	MS 1314 : 2004 Precast Concrete Piles JKR Standard Specification for Building Works
Code of Practice	BS 8110 Structural Use of Concrete
Material	Cement MS 522 / MS 1227 / MS 1389 Aggregate MS 29 / BS 882 Steel reinforcement and link MS 144 / MS 146 Prestressing steel MS 1138 / BS 5896 / JIS G 3137 End plates BS EN 10025 / JIS G3101 or equivalent.



PILE CAPACITY

Precast Reinforced Concrete

Maximum axial working load
$$W = \frac{f_{cu} \times A_c}{3.65} + [f_{sc} \times A_{sc}]$$

where

- W : Maximum axial working load
 f_{cu} : Characteristic strength of concrete
 f_{sc} : Permissible of compressive stress for longitudinal bars or $0.55f_y$ but not greater than 175 N/mm^2
 A_c : Cross-section area of pile

Precast Prestressed Concrete

Allowable pile working load
$$W = 0.25(f_{cu} - f_p)A_c$$

where

- W : Allowable pile working load
 f_{cu} : Characteristic strength of concrete
 f_p : Prestressed after losses
 A_c : Cross-section area of pile

PILE SPECIFICATIONS

Precast Reinforced Concrete

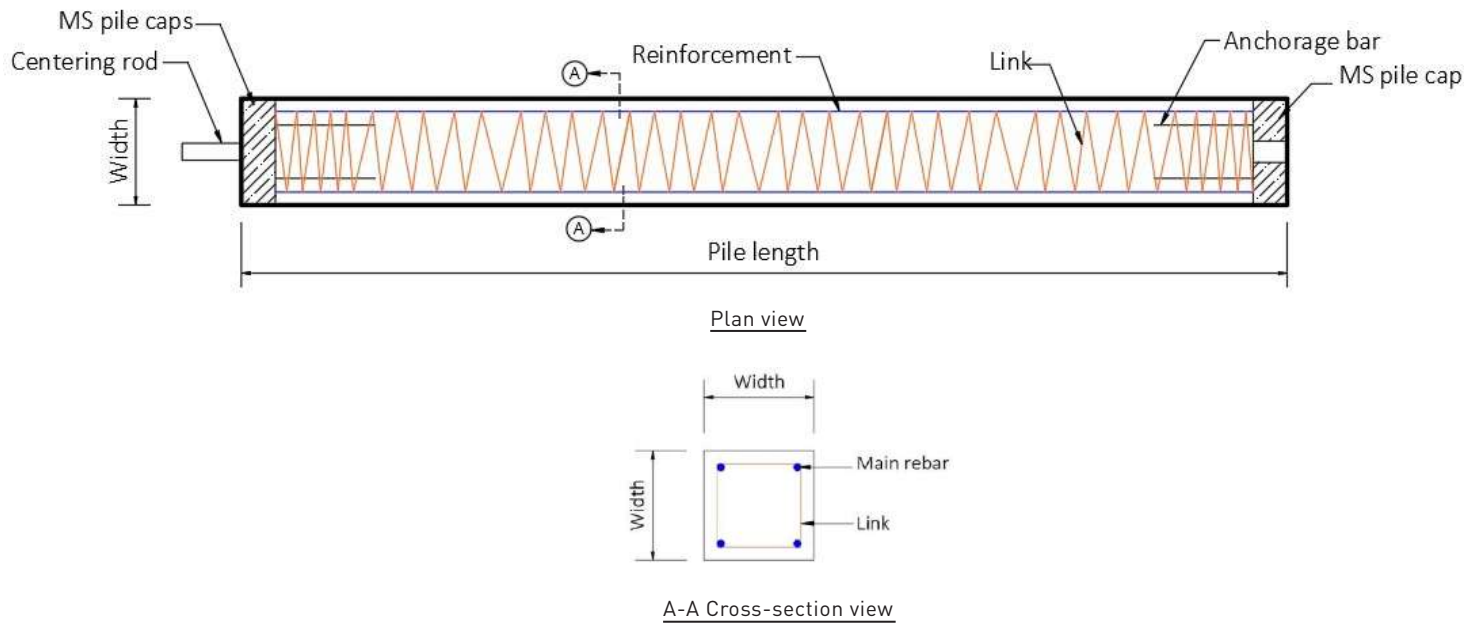
Nominal size w x w	Nominal length	Characteristic strength of Concrete, f_{cu}	Reinforcement		Link	Recommended max. axial working load
mm x mm	m	N/mm ²	nos	mm	mm	ton
125 x 125	3 , 6	50	4	9	4	23
150 x 150	3 , 6	50	4	10	4	33
200 x 200	3 , 6	50	4	12	5	58

Precast Prestressed Concrete

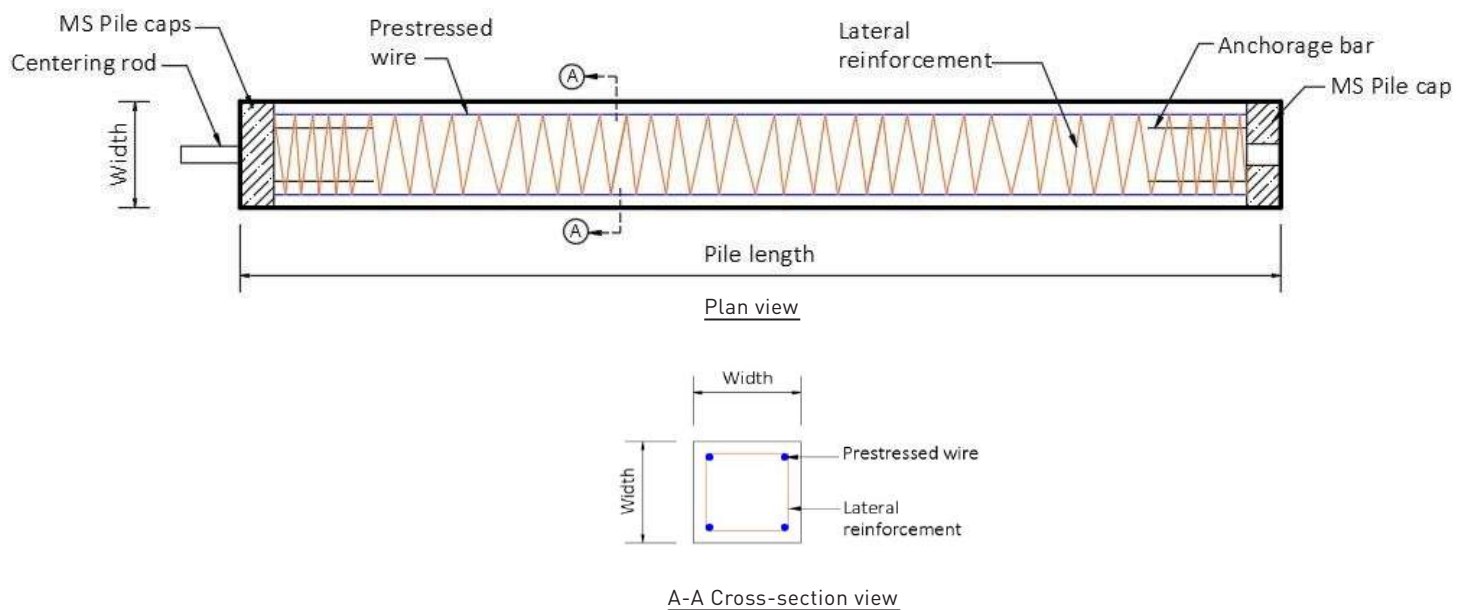
Nominal size w x w	Nominal length	Characteristic strength of Concrete, f_{cu}	Main reinforcement		Min. effective prestress	Recommended max. axial working load
mm x mm	m	N/mm ²	nos	mm	mm	ton
125 x 125	3 , 6	60	4	4	4	23
150 x 150	3 , 6	60	4	5	4	33
200 x 200	3 , 6	60	4	7	4	58

The actual working capacity shall be based on soil condition at site and other engineering consideration
Maximum working loads shown are recommended only and carry out using theoretical formula.

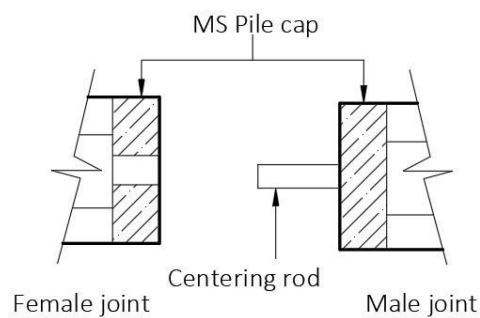
RC PILE DETAILS



PC PILE DETAILS



PILE JOINT DETAILS



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