



- All Centrum precast concrete piles are manufactured in accordance with BS EN 12794:2005 and the relevant parts of BS EN 13369:2018
- Centrum precast concrete piles satisfy the requirements for class 1 piles in Table 3 of BS EN 12794:2005 and all CPG pile joints comply with class A requirements in Table 4 of BS EN 12795:2005. CPD pile joints comply with class D requirements in Table 4 of BS EN 12794:2005. All Centrum precast concrete piles carry CE conformity marking in compliance with the Construction Products Regulations.
- Concrete is class C50/60 in accordance with BS EN 206-1:2013, BS 8500-1:2015 and BS 8500-2:2015. The mix design produces concrete which satisfies the requirements of exposure class XC2 as defined in Table 1 of BS EN 206-1:2013 and design chemical (DC) class CD-4 according to BRE Special Digest 1:2005.
- Unless otherwise stated longitudinal reinforcement comprises 10mm or 12mm (refer to Table 1) high yield do-coiled steel of grade 500 or 500B to BS 4449:2005, grade 460B to BS 4449:1997, BSt 500 WR to DIN 488 or equivalent. Transverse reinforcement comprises 5mm diameter continuous square helical wire grade of 500 to BS 4482:2005 or BSt 500 G to DIN 488 or equivalent. Nominal cover to the helical reinforcement is 30mm.
- Refer to drawing ref: CQP05/D4 for special pile details.
- Refer to the manufacturer for limitations on structural capacity of pile segments.
- The purchaser shall be responsible for ensuring that compressive and tensile driving stresses are limited in accordance with the recommendation of BS EN 12699:2015 section 7.6.
- *When Handling 200mm square piles with 10mm main reinforcement using single point lift, the pile sling shall be positioned at a distance of 0.3L below the upper end of the segment (L = length of segment in metres).

Table 1

Pile section size in mm (dimension A)	Type (no. of 10mm main bars)	Type(s) (no. of 12mm main bars)	Maximum single segment length (standard)	Maximum single segment length (to special order)	Joint Type	
200	4	-	6	9	-	D
200	-	4/6	-	12	A	D
250	-	4/6/8	13	16	A	D
300	-	8/12/16	13	16-18*	A	D
350	-	8/12/16/20	13	16-18*	A	-
400	-	8/12/16/20	13	16-18*	A	-

* 16 - 18 metre long segments require sufficient lead time for setting up non-standard moulds and manufacturing capacity

3	17.03.21	EN Standards updated	PP
2	17.12.19	200 max single length, standard & special order amended	PP
1	01.12.15	Logo and table 1 amended, new DPC 200 of T10 added	DG
Rev.	Date	Description	By
Amendments			
		Drawn by:	BB
		Checked by:	PP
		Approved by:	PP
		Date:	March 2021
		Drawing ref:	CQP05/D3
		Revision:	3
NOT TO SCALE			


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STANDARD PILE SEGMENT DRAWING