T225 Beam and Block

Data sheet T225
April 2018

MILBANK
CONCRETE PRODUCTS

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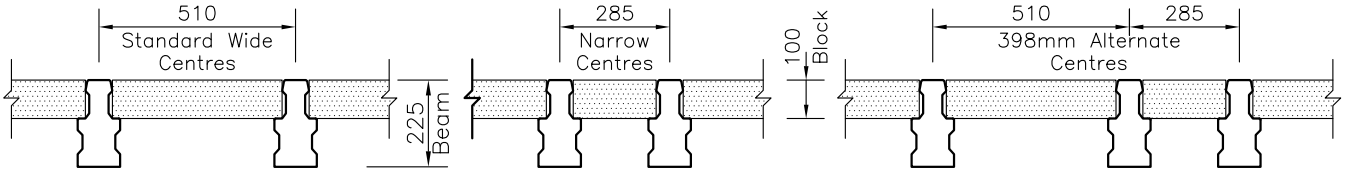
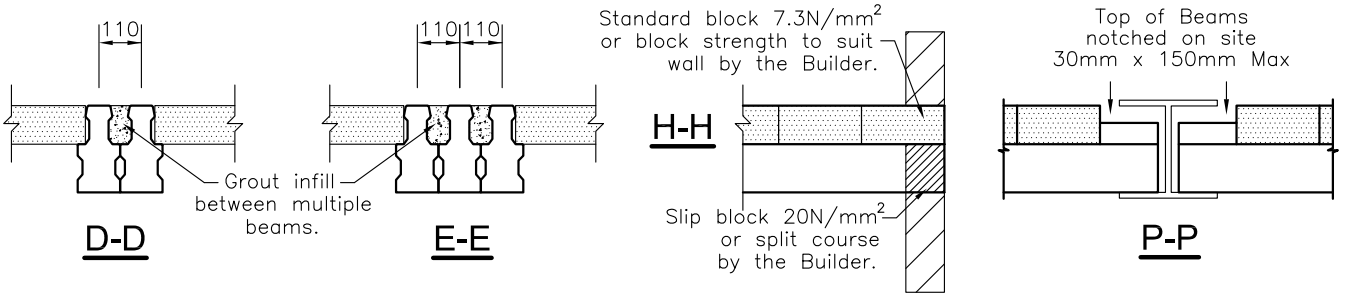
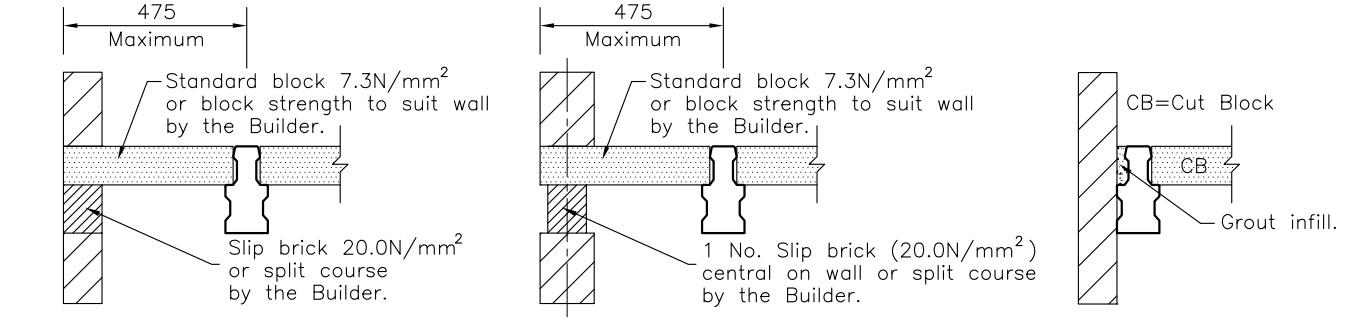


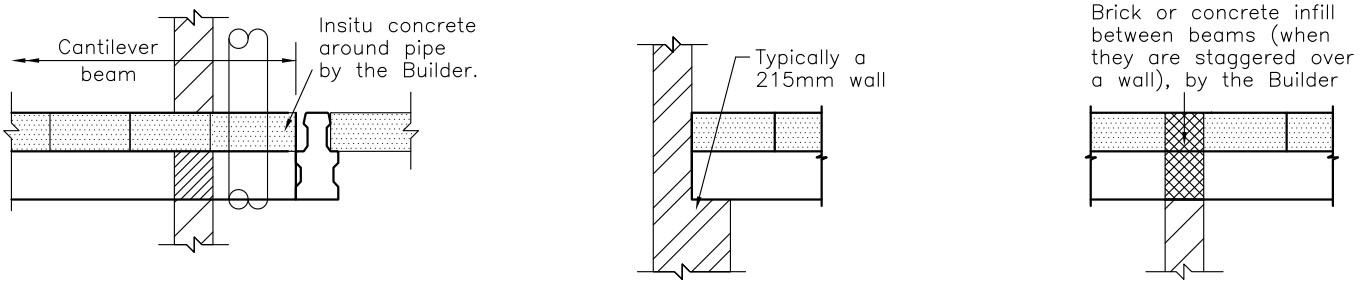
A-A B-B C-C



D-D E-E H-H P-P



F-F (100mm Wall) F-F (140mm Wall) G-G



L-L T-T Y-Y

Technical Properties of the T225 Beam

Data sheet pT225
January 2016

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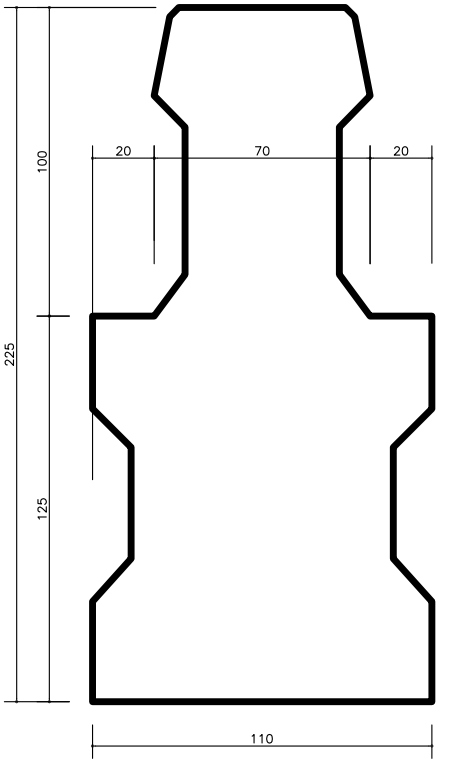
Section Properties

Area Ac	18,160 mm²
Nab	127.14 mm
Inertia	73,390,737 mm⁴
Zt	577,235 mm³
Zb	749,971 mm³

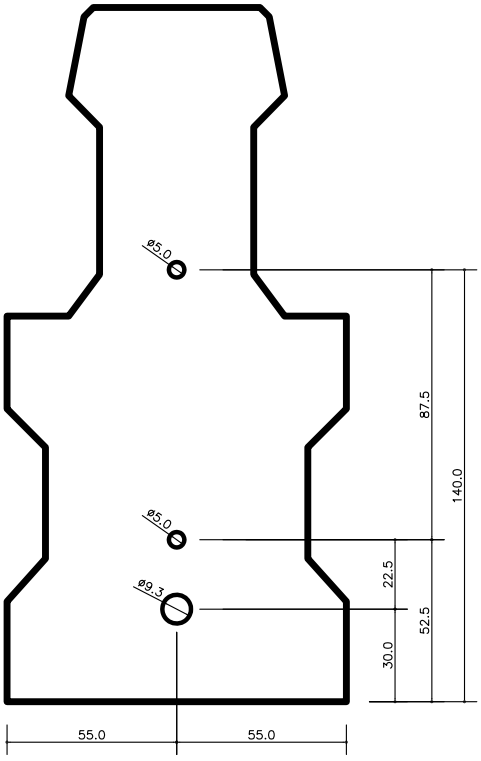
Material Properties

Fcu	55 N/mm²
Fci	35 N/mm²
Fct	-3.3 N/mm²
Et	27 kN/mm²
Ew	31 kN/mm²
Es	200 kN/mm²

Beams:	Manufactured in 50mm increments. Design to BS 8110-1:1997 Class 2 members.
Prestressing Tendons:	5mm Wire to BS 5896 / 2 wire - 1770 - 5 - PI - relax 2 9.3mm Strand to BS 5896 / 3 strand - 1770 - 9.3 - PI - relax 2
Cement:	CEM I 42,5 R to BS EN 197-1
Aggregate:	4/10mm (Flintstone) to BS EN 12620
Fire Resistance:	1 Hour Maximum (limited by section width) to BS 8110-2:1985



RMs = 9.94 kNm
RMu = 15.21 kNm
Vco = 20.79 kN



		Self-Weight kN/m² (Joist, Blocks and Grout)		
Block Type	Block Density	Single Beams	Double Beams	Triple Beams
Lightweight	600 kg/m³	S510 1.35 S398 1.57 S285 1.96	D620 2.01 D508 2.32 D395 2.81	T730 2.46 T618 2.80 T505 3.30
Medium	1450 kg/m³	S510 2.07 S398 2.26 S285 2.59	D620 2.60 D508 2.86 D395 3.27	T730 2.97 T618 3.25 T505 3.65
Dense	2000 kg/m³	S510 2.54 S398 2.70 S285 2.99	D620 2.98 D508 3.21 D395 3.56	T730 3.29 T618 3.53 T505 3.88