T155 Beam and Block

Data sheet T155
April 2018

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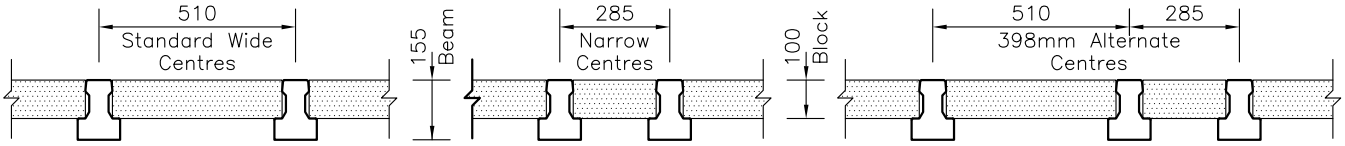
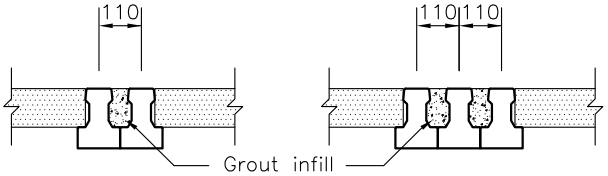
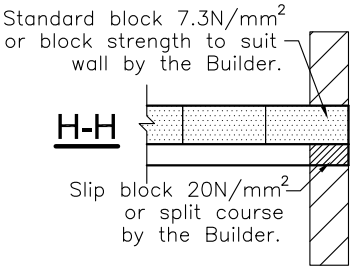


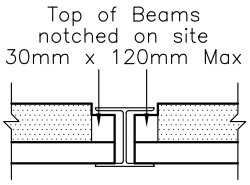
A-A B-B C-C



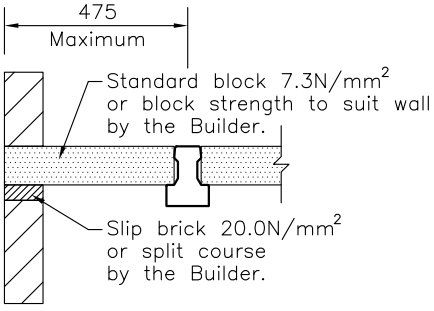
D-D E-E



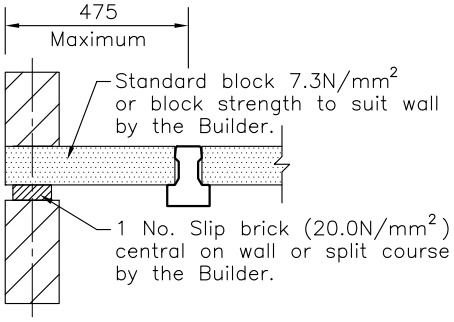
H-H



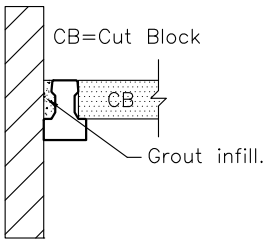
P-P



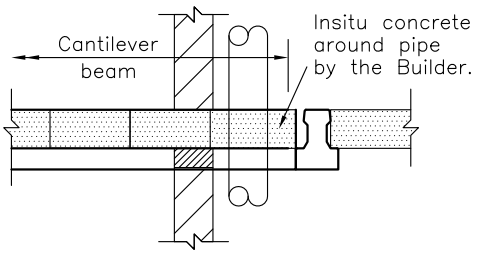
F-F (100mm Wall)



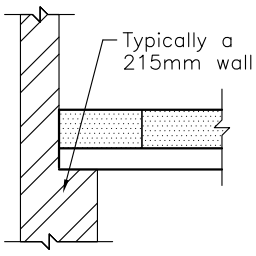
F-F (140mm Wall)



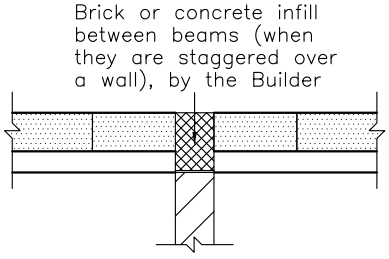
G-G



L-L



T-T



Y-Y

Technical Properties of the T155 Beam

Data sheet pT155
January 2016

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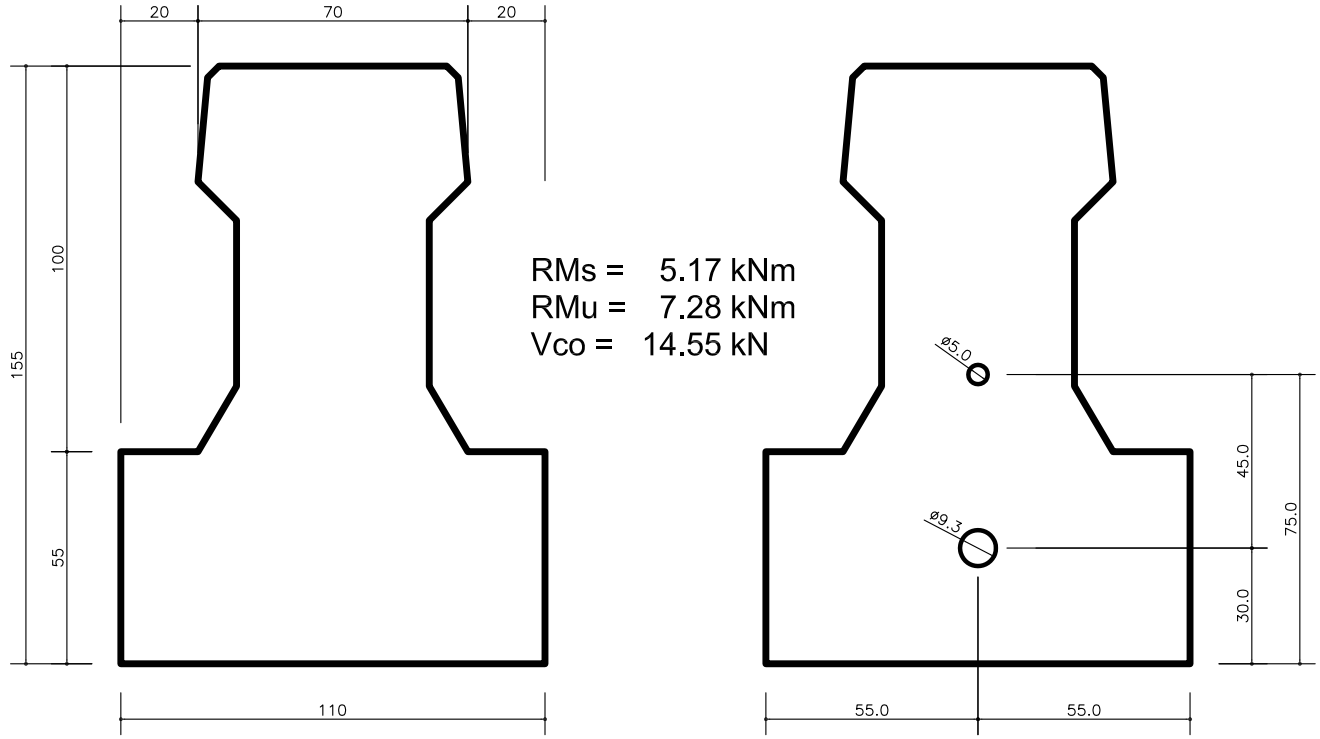
Section Properties

Area Ac	11,829 mm²
Nab	66.32 mm
Inertia	25,324,243 mm⁴
Zt	285,582 mm³
Zb	381,826 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



		Self-Weight kN/m² (Joist, Blocks and Grout)					
Block Type	Block Density	Single Beams		Double Beams		Triple Beams	
Lightweight	600 kg/m³	S510 S398 S285	1.06 1.19 1.43	D620 D508 D395	1.52 1.72 2.05	T730 T618 T505	1.84 2.07 2.40
Medium	1450 kg/m³	S510 S398 S285	1.78 1.88 2.06	D620 D508 D395	2.11 2.26 2.50	T730 T618 T505	2.34 2.51 2.75
Dense	2000 kg/m³	S510 S398 S285	2.24 2.32 2.46	D620 D508 D395	2.49 2.61 2.79	T730 T618 T505	2.67 2.80 2.98