

# T155 Beam and Block

Data sheet T155  
April 2018

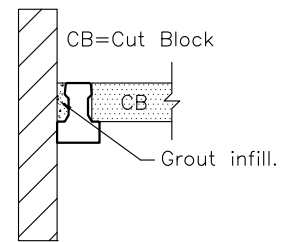
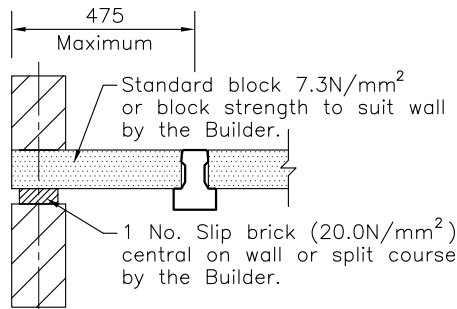
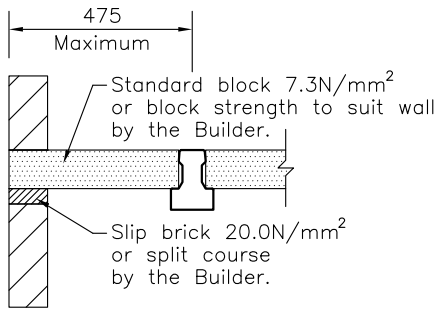
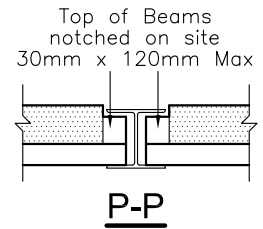
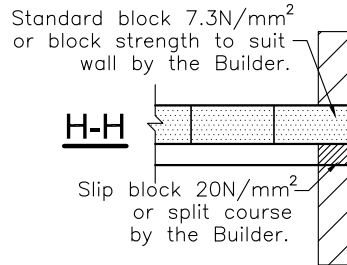
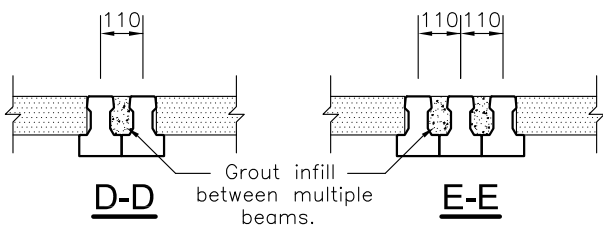
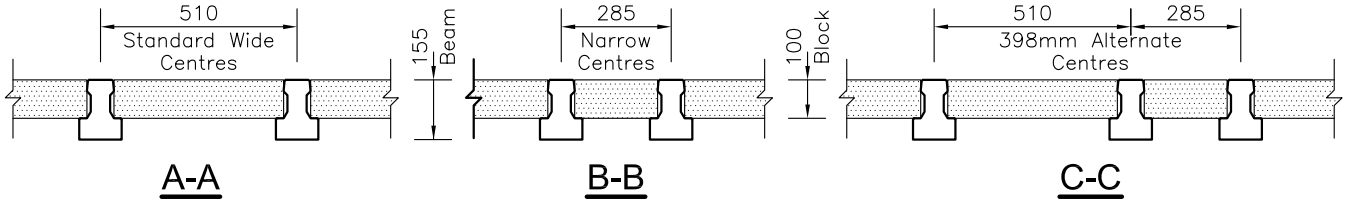


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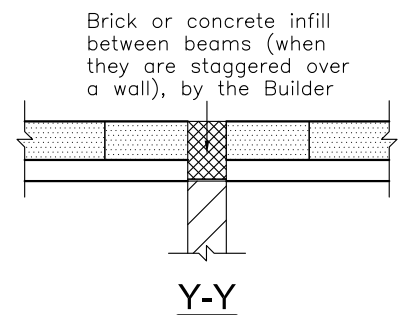
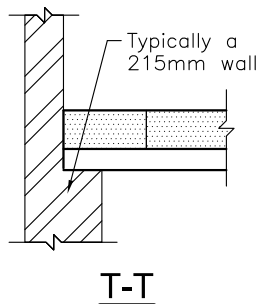
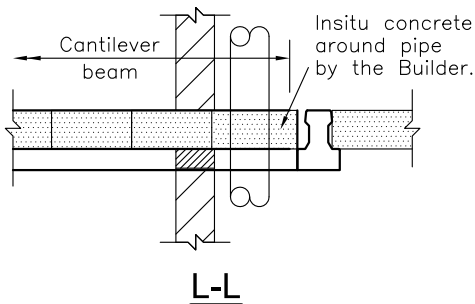
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**F-F (100mm Wall)**

**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 mm <sup>2</sup>
Nab	66.32 mm
Inertia	25,324,243 mm <sup>4</sup>
Zt	285,582 mm <sup>3</sup>
Zb	381,826 mm <sup>3</sup>

## Material Properties

Fcu	55 N/mm <sup>2</sup>
Fci	35 N/mm <sup>2</sup>
Fct	-3.3 N/mm <sup>2</sup>
Et	27 kN/mm <sup>2</sup>
Ew	31 kN/mm <sup>2</sup>
Es	200 kN/mm <sup>2</sup>

## 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:

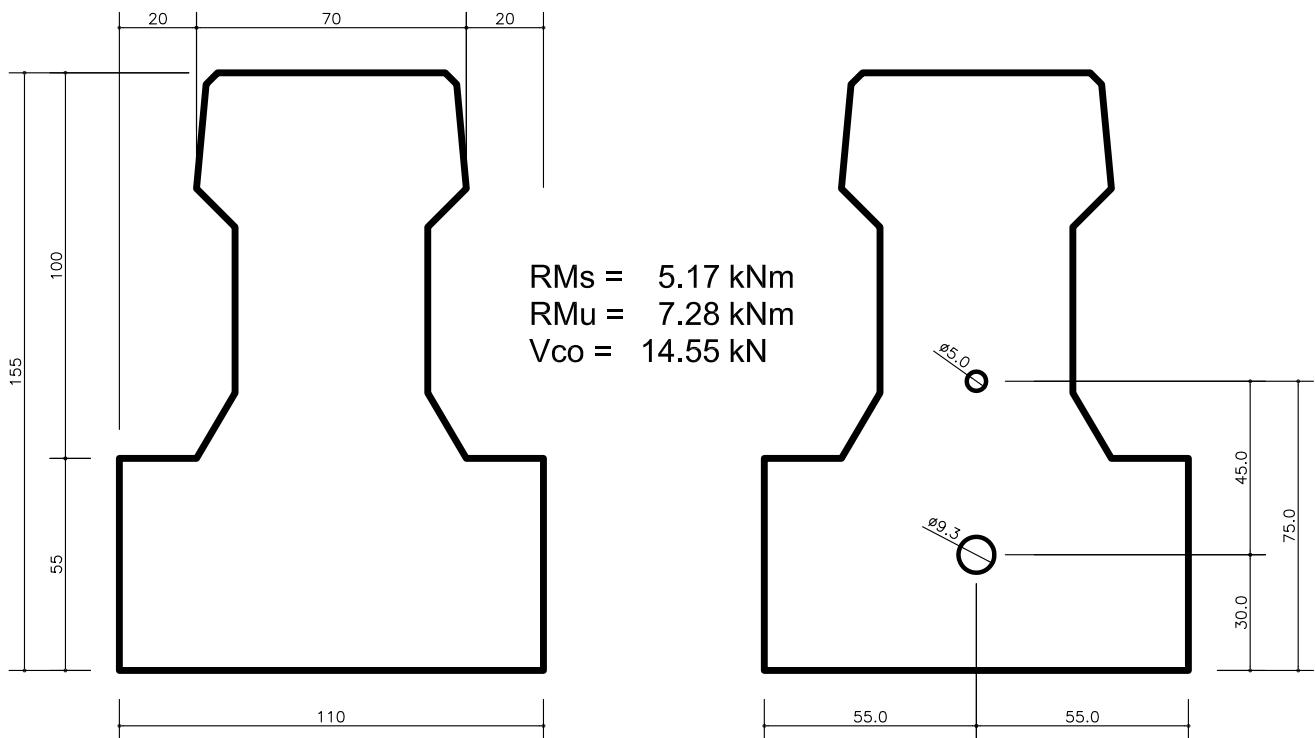
CEM I 42,5 R to BS EN 197-1

## 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/m<sup>2</sup> (Joist, Blocks and Grout)

Block Type	Block Density	Self-Weight kN/m <sup>2</sup> (Joist, Blocks and Grout)					
		Single Beams	Double Beams	Triple Beams			
Lightweight	600 kg/m <sup>3</sup>	S510	1.06	D620	1.52	T730	1.84
		S398	1.19	D508	1.72	T618	2.07
		S285	1.43	D395	2.05	T505	2.40
Medium	1450 kg/m <sup>3</sup>	S510	1.78	D620	2.11	T730	2.34
		S398	1.88	D508	2.26	T618	2.51
		S285	2.06	D395	2.50	T505	2.75
Dense	2000 kg/m <sup>3</sup>	S510	2.24	D620	2.49	T730	2.67
		S398	2.32	D508	2.61	T618	2.80
		S285	2.46	D395	2.79	T505	2.98