

T225 Beam and Block

Data sheet T225
April 2018

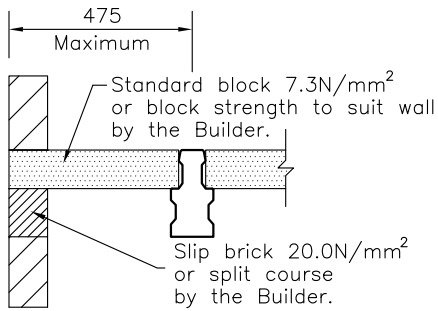
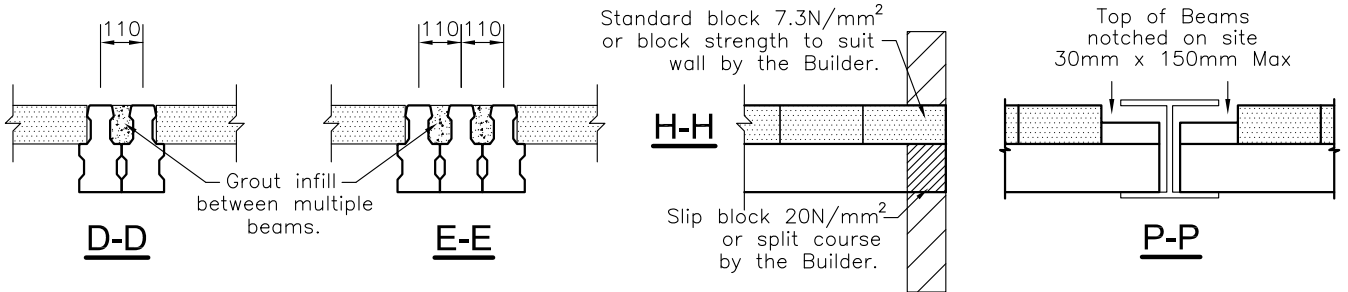
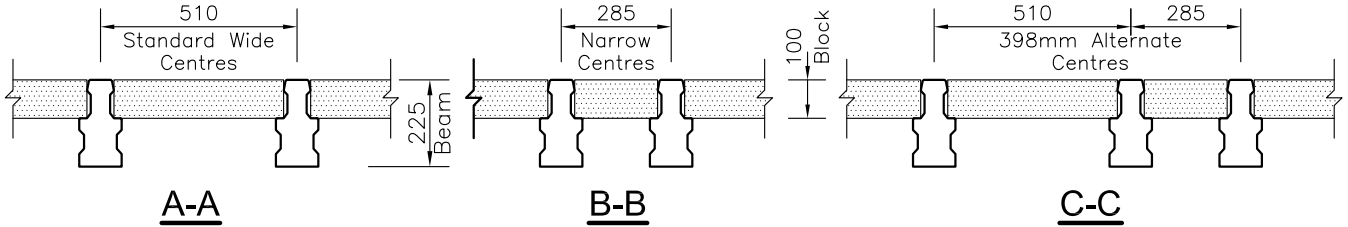


Earls Colne Business Park, Earls Colne,
Colchester, Essex, CO6 2NS

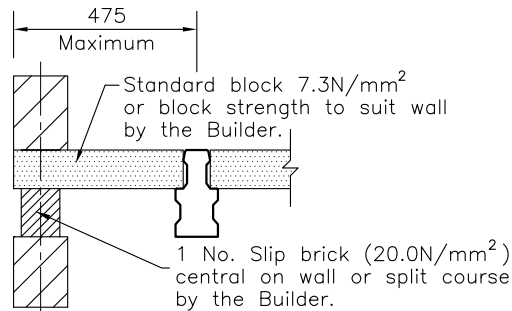
Tel: 01787 223931

Email: estimating@milbank.co.uk

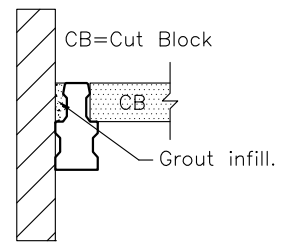
Email: design@milbank.co.uk



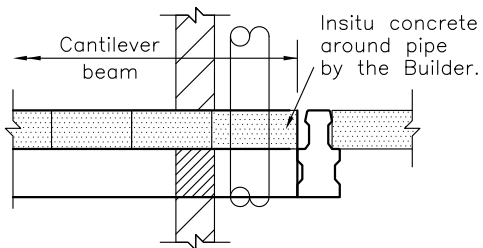
F-F (100mm Wall)



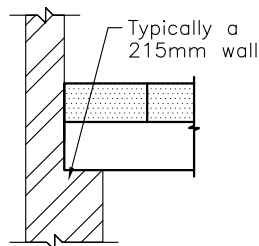
F-F (140mm Wall)



G-G

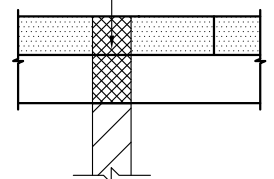


L-L



T-T

Brick or concrete infill between beams (when they are staggered over a wall), by the Builder



Y-Y

Technical Properties of the T225 Beam

Data sheet pT225
January 2016



Earls Colne Business Park, Earls Colne,
Colchester, Essex, CO6 2NS

Tel: 01787 223931

Email: estimating@milbank.co.uk

Email: design@milbank.co.uk

Section Properties

Area Ac	18,160 mm ²
Nab	127.14 mm
Inertia	73,390,737 mm ⁴
Zt	577,235 mm ³
Zb	749,971 mm ³

Material Properties

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

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:

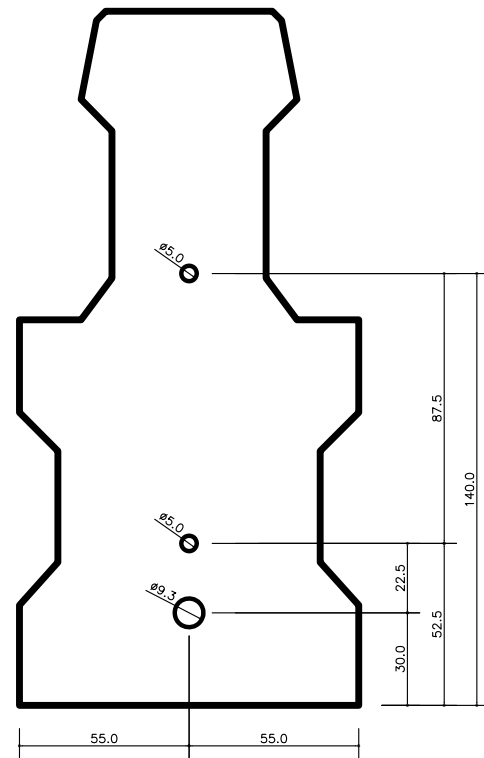
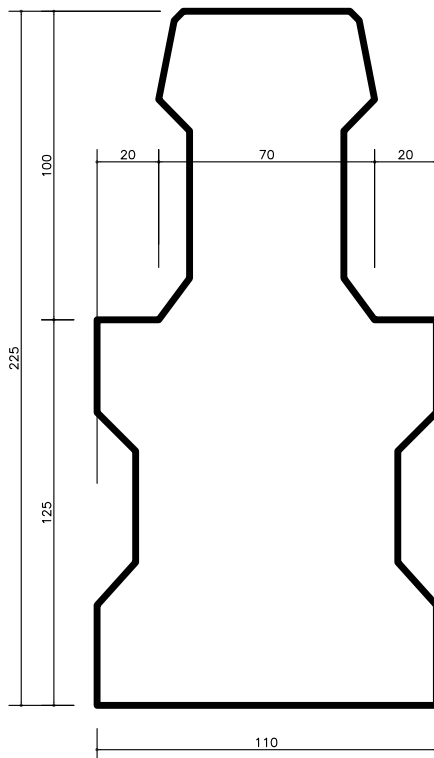
CEM I 42,5 R to BS EN 197-1

Aggregate:

4/10mm (Flintstone) to BS EN 12620

Fire Resistance:

1 Hour Maximum (limited by section width) to BS 8110-2:1985



RM_s = 9.94 kNm
RM_u = 15.21 kNm
V_{co} = 20.79 kN

Self-Weight kN/m² (Joist, Blocks and Grout)

Block Type	Block Density	Self-Weight kN/m ² (Joist, Blocks and Grout)					
		Single Beams	Double Beams	Triple Beams			
Lightweight	600 kg/m ³	S510	1.35	D620	2.01	T730	2.46
		S398	1.57	D508	2.32	T618	2.80
		S285	1.96	D395	2.81	T505	3.30
Medium	1450 kg/m ³	S510	2.07	D620	2.60	T730	2.97
		S398	2.26	D508	2.86	T618	3.25
		S285	2.59	D395	3.27	T505	3.65
Dense	2000 kg/m ³	S510	2.54	D620	2.98	T730	3.29
		S398	2.70	D508	3.21	T618	3.53
		S285	2.99	D395	3.56	T505	3.88