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## Sectional Properties

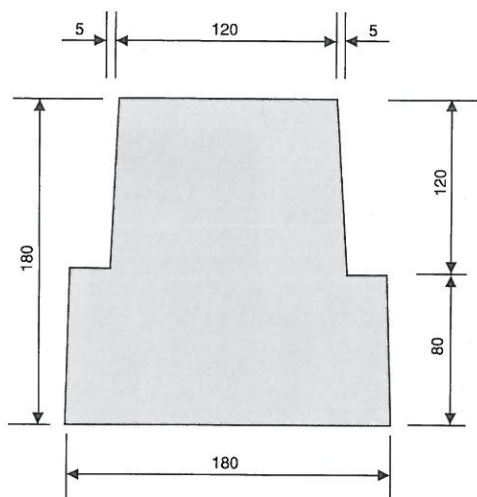
Area	26,570 mm <sup>2</sup>
Nab	81.749 mm
Inertia	71,090,071 mm <sup>4</sup>
Zt	723,555 mm <sup>3</sup>
Zb	869,616 mm <sup>3</sup>

## Material Properties

Fcu	60 N/mm <sup>2</sup>
Fci	35 N/mm <sup>2</sup>
Fct	3.5 N/mm <sup>2</sup>
Et	29.5 N/mm <sup>2</sup>
Ew	36 N/mm <sup>2</sup>
Es	200 N/mm <sup>2</sup>

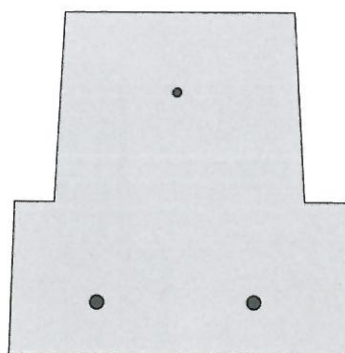
Wire 5mm & 7mm stabilised to B.S.5896 1980.  
Cement to B.S.12.  
Minimum cover 20mm

Type Q180



Type Q18/3

(1 No. 5mm dia+2 No. 7mm dia wires)



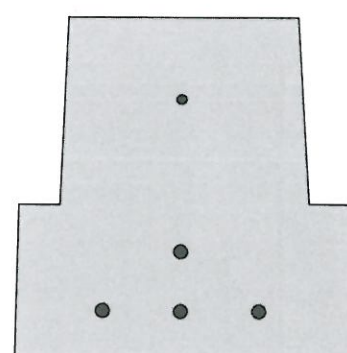
Ms = 9.243kNm

Mu = 15.316 kNm

Vco = 42.620kN

Type Q18/5

(1 No. 5mm dia+4 No. 7mm dia wires)



Ms = 13.731kNm

Mu = 23.049kNm

Vco = 49.846kN

SELF WEIGHT kN/m <sup>2</sup> (Joist, Blocks & Grout)				
Block Type	Block Density	Single Beam	Double Beams	Triple Beams
CEL Light	650 kg/m <sup>3</sup>	S570....1.60	D750....2.22	T930....2.44
		S457....1.84	D637....2.50	T817....2.87
		S345....2.23	D525....2.90	T705....3.22
FEN Medium	1350 kg/m <sup>3</sup>	S570....2.13	D750....2.62	T930....2.92
		S457....2.33	D637....2.85	T817....3.14
		S345....2.66	D525....3.18	T705....3.43
DEN Dense	1900 kg/m <sup>3</sup>	S570....2.55	D750....2.94	T930....3.18
		S457....2.72	D637....3.13	T817....3.36
		S345....3.00	D525....3.40	T705....3.60