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Minimum beam and column dimensions BSF, BCC

1. Minimum beam dimensions (b × h in mm):

Units	Max vertical ultimate load in kN	Approximate minimum beam dimensions in order to utilize the full capacity.	Minimum beam dimensions to allow sufficient space for the beam unit. (**)
<u>BSF Units</u>			
BSF 150/20	200	200x400	150x270
BSF 200/20	300	200x500	150x320
BSF 200/30	450	300x500	180x340
BSF 200/40	600	400x600	230x360
BSF 200/50	700	400x700	230x360
BSF 250/50	950	400x900	250x410
<u>BCC Units</u>			
BCC 250	250	250x400	200x300
BCC 450	450	300x580	280x400
BCC 800	800	350x800	350x800

The factor limiting the capacity if the beam is equal to or smaller than “Approximate minimum beam dimensions in order to utilize the full capacity” is simply the required space for the necessary reinforcement. This will vary somewhat, depending upon bar sizes and qualities available, allowable bending diameters, required concrete cover etc.

**However it should be noted that a reduction below the dimensions required for full capacity could entail a reduction in capacity. This situation should be checked by a qualified Engineer.

See also Memo 10 for BSF and memo 36 for BCC

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2. Minimum column widths (in mm):

(Note: The dimensions given are approximate, and may vary somewhat according to the exact dimensions of the reinforcement in the column and the required concrete cover.)

Units	Minimum column width
<u>BSF Units</u>	
BSF 150/20	200
BSF 200/20	220
BSF 200/30	250
BSF 200/40	300
BSF 200/50	300
BSF 250/50	350
<u>BCC Units</u>	
BCC 250	200
BCC 450	250
BCC 800	350