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Page 1 of 1		

## Maximum capacities BSF, BCC

The maximum ultimate limit state vertical loads given below requires minimum beam dimensions as given in memo 2.

The corresponding ultimate limit state horizontal loads are 30 % of the maximum vertical loads. Recommended capacity to transfer active forces ( for example wind) are about 20 % of the simultaneous minimum vertical loads.

When the vertical loads are smaller than the maximum, larger horizontal loads may be permitted.

When the design values are smaller than the maximum values, the reinforcement surrounding the units may be reduced by calculating with the design values

Design stresses = yield stresses / material coefficients:

Structural Steel:	S235/ RSt 37-2:	$235/1,0 = 235 \text{ N/mm}^2$
	S255/ St 44-2:	$255/1,0 = 255 \text{ N/mm}^2$
	S355/ St 52-3N:	$355/1,0 = 355 \text{ N/mm}^2$
Reinforcement:	B500C	$500/1,15 = 435 \text{ N/mm}^2$
Concrete compressive stress:	Grade C45/55	$45/1,5 = 30 \text{ N/mm}^2$

### BSF Units

### Maximum Vertical load

BSF 150/20	200 kN	44000 lb
BSF 200/20	300 kN	66000 lb
BSF 200/30	450 kN	99200 lb
BSF 200/40	600 kN	132000 lb
BSF 200/50	700 kN	154000 lb
BSF 250/50	950 kN	209000 lb

### BCC Units

### Maximum Vertical load

BCC 250	250 kN	55100 lb
BCC 450	450 kN	99200 lb
BCC 800	800 kN	177000 lb