

DESIGN NOTE 6: Normalised Strengths in N/mm² for masonry units

Unit strengths in N/mm² determined in accordance with BS EN 772-1

Normalised strengths in N/mm² for 215mm high units

Unit Strength	Width of unit in mm								
	75	90	100	140	150	190	200	215	≥250
2.9	4.1	4.1	4.0	3.8	3.7	3.5	3.4	3.4	3.2
3.6	5.1	5.0	5.0	4.7	4.6	4.3	4.2	4.2	4.0
7.3	10.4	10.2	10.1	9.5	9.3	8.8	8.6	8.5	8.1
10.4	14.9	14.6	14.4	13.5	13.3	12.5	12.3	12.1	11.6
17.5	25.0	24.5	24.2	22.8	22.4	21.0	20.7	20.3	19.6
22.5	32.2	31.5	31.1	29.3	28.8	27.0	26.6	26.1	25.2
30.0	42.9	42.0	41.4	39.0	38.4	36.0	35.4	34.8	33.6
40.0	57.2	56.0	55.2	52.0	51.2	48.0	47.2	46.4	44.8

Normalised strengths in N/mm² for 190mm high units

Unit Strength	Width of unit in mm								
	75	90	100	140	150	190	200	215	≥250
2.9	4.0	3.9	3.8	3.6	3.5	3.3	3.2	3.2	3.1
3.6	4.9	4.8	4.8	4.5	4.4	4.1	4.0	4.0	3.9
7.3	10.0	9.8	9.6	9.1	8.9	8.3	8.2	8.0	7.8
10.4	14.2	13.9	13.7	12.9	12.7	11.9	11.6	11.4	11.1
17.5	24.0	23.5	23.1	21.7	21.4	20.0	19.6	19.3	18.7
22.5	30.8	30.2	29.7	27.9	27.5	25.7	25.2	24.8	24.1
30.0	41.1	40.2	39.6	37.2	36.6	34.2	33.6	33.0	32.1
40.0	54.8	53.6	52.8	49.6	48.8	45.6	44.8	44.0	42.8

Normalised strengths in N/mm² for 140mm high units

Unit Strength	Width of unit in mm								
	75	90	100	140	150	190	200	215	≥250
2.9	3.5	3.4	3.4	3.1	3.1	2.8	2.8	2.7	2.6
3.6	4.4	4.3	4.2	3.9	3.8	3.5	3.5	3.4	3.3
7.3	8.9	8.6	8.5	7.9	7.7	7.2	7.0	6.9	6.6
10.4	12.7	12.3	12.1	11.2	11.0	10.2	10.0	9.8	9.5
17.5	21.4	20.7	20.3	18.9	18.6	17.2	16.8	16.5	15.9
22.5	27.5	26.6	26.1	24.3	23.9	22.1	21.6	21.2	20.5
30.0	36.6	35.4	34.8	32.4	31.8	29.4	28.8	28.2	27.3
40.0	48.8	47.2	46.4	43.2	42.4	39.2	38.4	37.6	36.4

Normalised strengths in N/mm² for 65mm high units

Unit Strength	Width of unit in mm								
	75	90	100	140	150	190	200	215	≥250
2.9	2.6	2.5	2.5	2.2	2.2	2.1	2.0	2.0	1.89
3.6	3.2	3.1	3.1	2.8	2.7	2.6	2.5	2.5	2.34
7.3	6.6	6.4	6.2	5.6	5.5	5.2	5.1	5.0	4.75
10.4	9.4	9.1	8.8	8.0	7.8	7.4	7.3	7.2	6.76
17.5	15.8	15.2	14.9	13.5	13.1	12.4	12.3	12.1	11.38
22.5	20.3	19.6	19.1	17.3	16.9	16.0	15.8	15.5	14.63
30.0	27.0	26.1	25.5	23.1	22.5	21.3	21.0	20.7	19.50
40.0	36.0	34.8	34.0	30.8	30.0	28.4	28.0	27.6	26.00

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