

Design *Structural design: unreinforced walls*

Non-loadbearing internal walls

The limiting dimensions for internal walls not required to support imposed lateral or vertical loading are given in BS 5628: Part 3. Wall thickness is determined by the length and height of the panel and by the nature and extent of any vertical and/or horizontal restraint provided.

It may be necessary to modify the thickness to take account of:

- openings
- fire resistance
- sound insulation.

Minimum block thickness - walls restrained at both ends

Length (m)	4	5	6	7	8	9	10	11	12
Height (m): block thickness (mm)									
2.4	90	100	140	140	140	190	190	190	190
2.7	90	100	140	140	150	190	190	190	190
3.0	90	100	140	140	150	190	190	190	200
3.3	90	100	140	140	150	190	190	200	215
4.0	100	140	140	140	190	190	190	200	215
5.0	100	140	140	150	190	190	190	215	215
6.0	140	140	140	190	190	190	200	215	-

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Minimum block thickness - walls restrained at both ends and top

Length (m)	4	5	6	7	8	9	10	11	12
Height (m): block thickness (mm)									
2.4	75	75	75	75	90	90	90	90	90
2.7	75	75	75	90	90	90	90	90	90
3.0	75	75	75	90	90	90	100	100	100
3.3	75	75	90	90	90	100	100	140	140
4.0	90	90	90	100	100	140	140	140	140
5.0	100	100	140	140	140	140	140	140	140
6.0	100	100	140	140	140	140	140	150	150

Minimum block thickness - walls restrained at top only

Height (m)	Minimum block thickness (mm)
2.2	75
2.7	90
3.0	100
4.2	140
4.5	150
5.7	190
6.0	200
6.4	215

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