

Thin-Joint System



The H+H Thin-Joint System combines the range of high quality accurately dimensioned aircrete blocks with Celfix, a specially developed thin layer mortar. H+H's Thin-Joint range of aircrete products is made up from Celcon Plus Blocks and Jumbo Bloks.



Aircrete's unique characteristics make it ideal for the construction of cavity external walls as well as internal separating walls, partitions and foundations. With its combination of strength, resistance to moisture ingress and thermal insulation, it may also be used for external leaves and solid wall construction.

H+H aircrete combines superb thermal and sound insulation qualities, with impressive load bearing capabilities. Simple to work with, it has the additional benefits of being light weight with a high resistance to water penetration, fire, frost and sulfate attack.

Applications

- Cavity walls (internal and external leaf)
- Solid walls
- Partition walls
- Separating walls
- Flanking walls
- Multi-storey buildings

Benefits

- Fast setting mortar
- No mortar 'swimming' allowing continuous laying
- Ease of mixing and laying mortar
- Dimensionally highly accurate blocks
- First fix trades can be brought forward
- Larger block formats used

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Predicted weighted sound reduction index R_w (dB)									
Block Thickness (mm)	Unfinished Surfaces			Finished both sides with 13mm					
	Solar	Standard	High Strength	Lightweight Plaster			Dense Plaster		
				Solar	Standard	High Strength	Solar	Standard	High Strength
100	37.0	39.6	41.8	40.6	42.6	44.4	44.4	45.8	47.2
140	41.1	43.6	45.6	43.8	45.8	47.5	46.7	48.4	49.7
200	45.4	47.9	49.9	47.3	49.5	51.2	49.6	51.4	52.9

Fire Resistance table (hours)					
Block Thickness (mm)	(Criteria)	100	140	200	
Solar Grade					
Non-loadbearing	(EI)	4	4	4	
Loadbearing	(REI)	1	2	4	
Standard, High and Super Strength Grades					
Non-loadbearing	(EI)	4	4	6	
Loadbearing	(REI)	2	3	4	

Celfix Mortar – Approximate yield per 25kg bag – 2mm joints				
Block Thickness (mm)		100	140	200
Plus Block 630 x 215mm (7.29 blocks/m ² laid)	m ² blockwork	6.86	4.90	3.43
	No. of blocks	50.0	35.7	25.0
Jumbo Block 630 x 250mm (6.28 blocks/m ² laid)	m ² blockwork	7.65	5.46	-
	No. of blocks	48.0	34.2	-

* Representative sample of block sizes only

Please note that these figures are based on experience of 'typical' yield figures for a single bag of 25kg Celfix when constructing Thin-Joint blockwork on site. These yields will vary with site requirements and operative technique or ability.

Characteristic compressive strength, f_k , of masonry (to BS5628:Pt1) for H+H blocks						
Block			Celfix thin layer mortar Block type (declared compressive strength)			
Thickness	Height	H/t	Solar (2.9)	Standard (3.6)	High Strength (7.3)	Super Strength (8.7)
100mm	215mm	2.15	2.8	3.5	6.8	7.7
	250mm	2.50	2.8	3.5	6.8	7.7
140mm	215mm	1.54	2.3	2.9	5.7	6.4
	250mm	1.79	2.6	3.2	6.3	7.1
200mm	215mm	1.08	1.9	2.3	4.6	5.2



For further information and to check our most up-to-date product range, or to find your nearest stocking merchant, please visit our website www.hhcelcon.co.uk or contact the following departments:

Sales

For sales enquiries or to find your local stockist please contact
Tel: 01732 886444
Fax: 01732 887013

Technical

For technical enquiries please contact
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