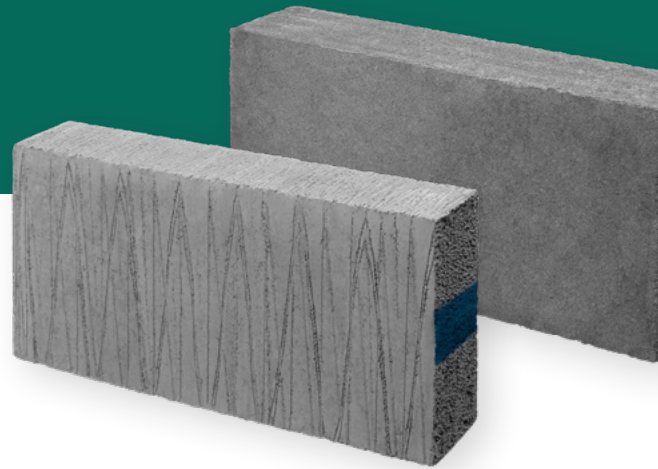




# Thin-Joint System



H+H aircrete products can be bonded using either traditional mortar or by using Celfix mortar, provided by H+H, ideally suited to the Thin-Joint System.

The H+H Thin-Joint System combines the range of high quality accurately dimensioned aircrete Jumbo Bloks and other formats, with Celfix, a specially developed thin layer mortar.

A classified Modern Method of Construction (MMC), this well-established BBA approved system utilises the fast setting Celfix mortar. Celfix allows a building to be constructed faster and to a better quality, with follow-on trades able to start work sooner in a weatherproof environment.

## Quality

The improvements in build quality gained from the use of the Thin-Joint System are:

- Improved thermal performance
- Improved stability during construction
- Improved build accuracy of finished walls
- Reduction of site wastage
- Cleaner cavities

## Speed

The Thin-Joint System allows construction times equivalent to off-site system-build solutions, without their associated lead times.

## Flexibility

As with traditional building methods, the construction is carried out on site. This allows the builder to overcome problems which may have been overlooked or changed since the design stage and simplifies modifications to the building should it need to be extended or adapted to suit future lifestyles.

## 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



# Thin-Joint System

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	46.0	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
<b>Solar Grade</b>				
Non-loadbearing	(EI)	4	4	4
Loadbearing	(REI)	1	2	4
<b>Standard, High &amp; Super Strength Grades</b>				
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
<b>Plus Block 630 x 215mm</b> (7.29 blocks/m <sup>2</sup> laid)	m <sup>2</sup> blockwork	6.86	4.90
	No. of blocks	50.0	35.7
<b>Jumbo Block 630 x 250mm</b> (6.28 blocks/m <sup>2</sup> laid)	m <sup>2</sup> 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) N/mm <sup>2</sup>			
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](http://www.hhcelcon.co.uk) or contact the following departments:

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For technical enquiries please contact  
Tel: 01732 880580

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