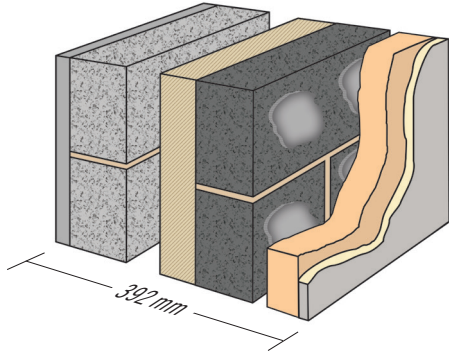


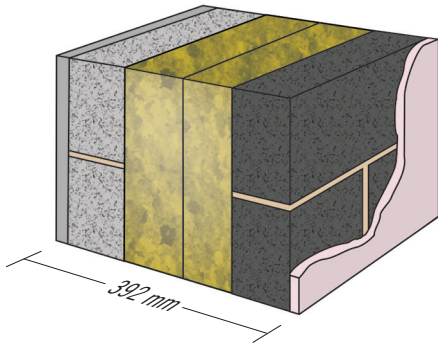
Fibotherm insulating blocks/bricks 3.6N/mm² to BS EN 771-3

U-Value 0.17



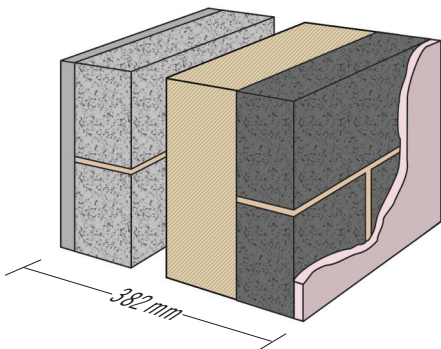
Outside resistance	0.040
19mm sand/cement render (λ 1.00)	0.019
100mm Dense 7.3N/mm ² (λ 1.43)	0.070
50mm low emissivity cavity	0.640
50mm foil-faced partial fill PIR/PU board (λ 0.022)	2.273
100mm Fibotherm 3.6N/mm ² (λ 0.29)	0.345
15mm dabs	0.170
45mm phenolic insulation (λ 0.020)	2.250
<i>bonded to...</i>	
13mm plasterboard (λ 0.21)	0.062
Inside resistance	0.130
Sum of resistances	5.999 m²K/W
Uncorrected U-value	0.167 W/m ² K
Mortar correction	0.001
Air gap correction	0.002
Wall tie correction – Staifix HRT4-225	0.002
U-VALUE	0.172 W/m²K

U-Value 0.18



Outside resistance	0.040
19mm sand/cement render (λ 1.00)	0.019
100mm Dense 7.3N/mm ² (λ 1.43)	0.070
160mm high performance mineral wool (λ 0.032)	5.000
100mm Fibotherm 3.6N/mm ² (λ 0.29)	0.345
13mm dense plaster (λ 0.57)	0.023
Inside resistance	0.130
Sum of resistances	5.627 m²K/W
Uncorrected U-value	0.178 W/m ² K
Mortar correction	0.001
Air gap correction	0.000
Wall tie correction – Ancon ST1-300	0.004
U-VALUE	0.183 W/m²K

U-Value 0.18



Outside resistance	0.040
19mm sand/cement render (λ 1.00)	0.019
100mm Dense 7.3N/mm ² (λ 1.43)	0.070
50mm low emissivity cavity	0.640
100mm foil-faced partial fill PIR/PU board (λ 0.022)	4.545
100mm Fibotherm 3.6N/mm ² (λ 0.29)	0.345
13mm dense plaster (λ 0.57)	0.023
Inside resistance	0.130
Sum of resistances	5.812 m²K/W
Uncorrected U-value	0.172 W/m ² K
Mortar correction	0.001
Air gap correction	0.006
Wall tie correction – Ancon ST1-300	0.005
U-VALUE	0.184 W/m²K

Stowell Fibotherm blocks are ideal for...

- INNER OR OUTER LEAF OF CAVITY WALLS
- PARTITION WALLS

Stowell Fibotherm blocks offer the following advantages...

- HIGH INSULATION
- LOW SHRINKAGE
- LOW SITE BREAKAGE
- LOW DENSITY
- GOOD FIXING
- EXCELLENT PLASTER KEY

THERMAL CONDUCTIVITY: λ^*

0.29 W/mK* at 3% m/c (inside skin)

0.32 W/mK* at 5% m/c (outside skin)

THERMAL RESISTANCE:

SIZE mm	m ² K/W at:	m ² K/W at:
75mm	3% m/c 0.259	5% m/c 0.243
100mm	3% m/c 0.345	5% m/c 0.313
140mm	3% m/c 0.483	5% m/c 0.438

(m/c = moisture content)

WEIGHTED SOUND INSULATION R_w : **

40 dB (75mm single skin, 121kg/m²)

41 dB (100mm single skin, 142kg/m²)

43 dB (140mm single skin, 180kg/m²)

FIRE RESISTANCE: ***

75mm (single skin unplastered)

½ hr @ 60% loading

100mm (single skin unplastered) 2 hrs

140mm (single skin unplastered) 3 hrs

* Calculated from oven dry density

** Calculated using mass law curve - BS8233 (with 2 skins of dense plaster each 25kg/m²)

*** Calculated using table 14 BS5628-3 2005 and BSEN 1996-1-2

3.6N/mm² (OVEN-DRY DENSITY approx 850 kg/m³)

Size mm nominal	approx weight kg	no. per tonne	multiples of	no. per pack
440×75×215	6.7	150	56	112
440×100×215	9.0	110	44	88
440×140×215	12.5	80	32	64
Coursing bricks				
215×100×65	1.35	740	128	512
215×140×65	1.9	530	96	384

STOWELL
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