

data
EBS Data UK March 2012

WARMCEL 500

Timber Frame Insulation

Product designation:	Product composition/construction:
WARMCEL 500	Cellulose Fibre Timber Frame Insulation

Property	Method	Units	Value
Resistance to Flammability	BS 5803: Part 4	Pass/Fail	Pass
Resistance to Smoulder	BS 5803: Part 4	Pass/Fail	Pass
Injected Density	Turbofill	kg/m ³	45 - 70
Sprayed Density	Damp Spray	kg/m ³	40 - 50
Thermal Conductivity	Declared Value EN 10456	W/mK	0.040
Resistance to Fire	BS 476 PART 21	Minutes	30 to 90 Depending on Panel Type
Resistance to Fire	EN13501-1	N/A	35-65kg/m ³ Class B-S2 d0
Settlement Under Vibration	In-House	%	0
Colour	N/A	N/A	Grey
Physical Form	N/A	N/A	Fibrous
Specific Heat Capacity	EN 12524	J/kg.K	1600
BBA Compliance	Certificate 943027	Pass/Fail	Pass
Vapour Resistivity	Wet Cup	MNs/gm	9.30
Settlement by humidity in Lofts	ISO CD 18393 Method D	%	8

Notes:

1. Values are Means (not minimum) obtained from initial type testing.
2. Values stated is in the weaker principle direction

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Certification:

UK: BBA - BS EN ISO 9001: 2008, BBA - BS EN ISO 14001: 2004
 UK: BBA - AGREEMENT CERTIFICATE No. 94/3027
 UK: LPCB - LPS 1181 : PART 2 (or LPS 1181-2) CERTIFICATE NO. 721a

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Roof Insulation: Minimum Installed Density Required in Order to Give Zero Settlement (Kg/m ³)					
Roof Timber Thickness	≤120mm	≤180mm	≤240mm	≤300mm	≤400mm
Flat Roof (with vapour control layer below and timber boarded above)	40	40	42	45	45
Flat Roof (with no vapour control layer below, but with breathable membrane above)	45	48	48	50	50
≤20° Pitch Roof	40	42	42	44	44
20-40° Pitch Roof	42	44	44	46	50
40-60° Pitch Roof	42	45	45	50	55
≥60° Pitch Roof	48	50	55	55	55

Wall Insulation: Minimum Installed Density Required in Order to Give Zero Settlement (Kg/m ³)					
Wall Timber Thickness	≤120mm	≤180mm	≤240mm	≤300mm	≤400mm
Damp Spray	40	45	N/A	N/A	N/A
Dry Injection	45	50	55	60	60

Loft Insulation: Average Installed Density (kg/m ³) – 8% Settlement					
Installed Thickness	≤120mm	≤180mm	≤240mm	≤300mm	≤400mm
Krendl 250	27	28	29	30	32
Krendl 450	35	36	36	38	38
Krendl 500	33	35	35	38	38
Krendl 2000/2001	33	35	35	38	38

For factory filled timber frame panels (where the panels are subjected to transport and excess movement) the minimum fill density for all applications is 60kg/m³ (65kg/m³ for installed thicknesses of 200mm and above). For floor application the minimum installed density is 45kg/m³.

Notes:

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