

### Warmshell Woodfibre Boards

Warmshell woodfibre boards are the universal sustainable, breathable, rigid insulation slabs for direct plastering and rendering with products from Lime Green. Ideal for new build and retrofit, Warmshell boards can be fitted inside or out, and used with render, plaster or cladding or under roof tiles.

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#### Description

Warmshell woodfibre boards are the intelligent insulation option which can buffer and store heat and moisture, keeping you warm and dry in winter and stopping overheating in summer. Warmshell boards won't trap moisture because they are highly breathable and exploit wood's incredible ability to wick and harmlessly move water. Made with waste sawdust from sustainable FSC accredited forests, they are the sustainable, low carbon option for use on walls and roofs insulated from the inside or out.

Compared to lightweight synthetic insulations, the density of Warmshell woodfibre allows phase-shift to reduce summer overheating as well as giving excellent sound deadening acoustic properties. Warmshell doesn't just save heat, it creates a comfortable, healthy indoor climate. And unlike some insulations, our boards are totally free from formaldehyde and other biocides.

A range of compatible renders and plasters are available with the boards as part of the system, along with detailed guidance and installation information.

Thickness (mm)	Dimensions (mm) Inc T&G	Edge profile	Coverage m <sup>2</sup> /board	Boards per pallet	m <sup>2</sup> per pallet	Weight per pallet (Kg)	Pallet size (mm)	Unit of sale
40	1430 x 560	Tongue & Groove	0.8	56	44.8	397	1500 x 1200	Board
60	1430 x 560	Tongue & Groove	0.8	36	28.8	384	1500 x 1200	Board
80	1430 x 560	Tongue & Groove	0.8	28	22.4	275	1500 x 1200	Pallet
100	1430 x 560	Tongue & Groove	0.8	22	17.6	271	1500 x 1200	Pallet
120	1430 x 560	Tongue & Groove	0.8	18	14.4	272	1500 x 1200	Pallet
140	1430 x 560	Tongue & Groove	0.8	16	12.8	275	1500 x 1200	Pallet
160	1430 x 560	Tongue & Groove	0.8	14	11.2	270	1500 x 1200	Pallet

## Product Data

### Performance

	40 & 60mm boards	80 to 160mm boards
Density	165 Kg / m <sup>3</sup>	130 Kg / m <sup>3</sup>
Thermal conductivity (EN 13171) W/(mK)	0.043	0.040
Specific heat capacity c J/(kgK)	2100	2100
Vapour diffusion resistance coefficient $\mu$	4	3
Reaction to fire (EN 13501-1)	E	E
Tensile strength perpendicular to faces [kPa]	10	10
Water absorption	WS1.0	WS1.0
Compressive Strength at 10% deformation [kPa]	CS(10\Y)100	CS(10\Y)70
Dimensional stability	DS(70,90)3	DS(70,-)2

### Application

Only apply to dry backgrounds. Consult with your supplier for fixing advice. Before rendering or plastering, do not allow the boards to become saturated and ensure the absolute moisture content is no more than 13%. Render within 4 weeks of installation. When used as a sarking board ensure the Warmshell Woodfibre Board is covered with a breather membrane immediately after installation. Compatible renders and plasters are available from Lime Green.

### Disposal

Waste code (EWC) 030105; 170201; 170604