

Candiwall Technical Data Sheet

Candiwall XPS Board

Candiwall XPS Board is a thermal foam, rigid extruded polystyrene (XPS) board that has a closed cell structure. It is manufactured to exceed the European Standard EN13164 "Thermal insulation products for buildings. Factory made extruded polystyrene foam (XPS) products." The boards have a lap joint arrangement on all edges and the patented grooves on one side.



- Available to suit 50mm or 65mm real clay brick slips
- Lap Joints for continuity of thermal performance
- Easy to carry, cut and apply
- Contains no CFC's or HCFC's
- 100% recyclable
- High Dimensional Stability
- Low Water Absorption
- High Compressive Strength
- Weather resistant - won't degrade over time
- Excellent Thermal Performance
- Board Size 1250mm x 600mm
- Thicknesses available
30mm; 40mm; 50mm; 60mm; 80mm ; 100mm 120mm

Certification: **BBA Certified: Ref No 16/5317 ***
EN 13164; EN13501-1; EN ISO11925-2

* Full Certificate available on our Website

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Technical Data

Properties	Unit	EN Standard	Candiwall XPS Board
Edge Profile			All edges Lap Jointed
Thicknesses Available	mm		30; 40; 50; 60; 80; 100; 120
Board Dimensions	mm	EN 822	1250 x 600
Dimensional Tolerance	mm	EN 1604	≤ 2
Compressive Strength at 10% deformation	kPa	EN 826	300
Thermal Conductivity (λ) – after 25 years	W/mK	EN 12667	0.035
Temperature range in use	°C		From -50 to +75
Reaction to fire	Class	EN13501-1	E

Declared Thermal Resistance Values and U Value after 25 years ($\lambda_{90/90} = 0.035\text{W/mK}$)

Candiwall XPS Board Thickness (mm)	Thermal Resistance (m ² k/w)	U Value (w/m ² k)
30mm (with $\lambda=0.035$)	0.857	1.166
40mm (with $\lambda=0.035$)	1.142	0.875
50mm (with $\lambda=0.035$)	1.428	0.700
60mm (with $\lambda=0.035$)	1.714	0.583
80mm (with $\lambda=0.035$)	2.285	0.437
100mm (with $\lambda=0.035$)	2.857	0.350
120mm (with $\lambda=0.035$)	3.428	0.291

For specific U Value calculations, please send details of the wall make up to sales@candiwall.net and we will help you all we can with U Value Calculations.

Candiwall XPS Boards can be stored outside on a clean smooth surface, or in an enclosed and ventilated space. The unpierced shrink wrap film is UV resistant for up to 6 months. Keep away from flammable materials naked flames and any other ignition sources. Do not allow the Candiwall XPS Board to come in to contact with any of the following: Petrol; Coal Tar; Formic Acid; Methane Gas; Ethane Gas; Propane Gas or Butane Gas. The appearance or structure may be damaged if Candiwall XPS board comes in to contact with Mineral or Vegetable Oils; Paraffin, Phenol and fats so please avoid contact.

Please read the Candiwall Installation Manual for Installation details.