HardieWindbreaker™ Sheathing Board

HardieWindbreaker™ sheathing board is a 9 mm fibre cement board used as a sheathing layer behind ventilated cladding. It can be used in new build or refurbishment projects. The board can be installed onto steel or timber frames and removes the need for a membrane to seal the building. It meets all the current UK fire regulations for external rain-screen cladding. It can also be left installed and exposed for up to 12 months prior to the decorative cladding being installed.

Application

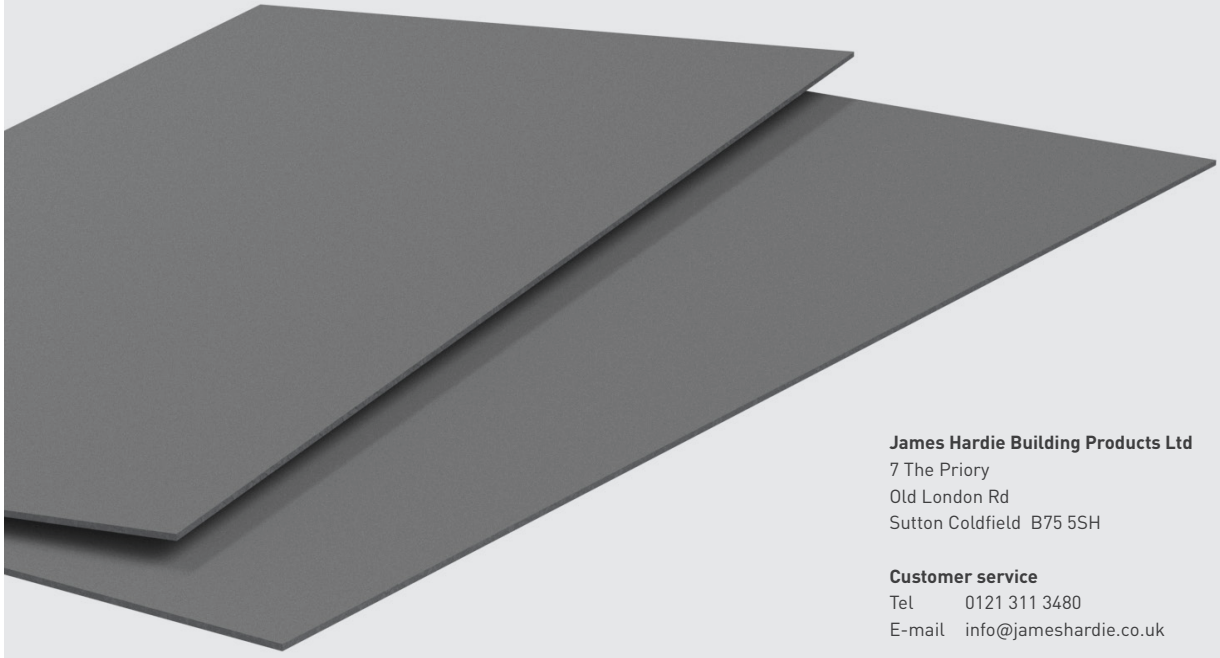
Primarily as a sheathing board in facade constructions, which are subsequently covered with an external rain-screen cladding in the form of HardiePanel® cladding or similar.

Key Benefits

- Superior air tightness and water resistance
- Easy installation due to various fixing methods
- Provides protection during construction
- Resistant to moisture and frost
- Removes the need for a membrane
- Up to 12 months' exposure time
- A2, s1-d0 –offers a fire rating up to 60 mins from either direction
- Complies with UK building regulations for rain-screen cladding

Dimensions

Thickness: 9 mm
Width: 1200 mm
Length: 2400, 2700, 3000 mm
Weight: 13.1 kg/m²



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Dimension (nominal)		
Thickness	9.0	mm
Width	1200	mm
Length	2400/2700/3000	mm

Dimension tolerance (EN 12467, Level 1)		
Thickness	+/-0.9	mm
Width	+/-3.6	mm
Length	+/-5.0	mm

Physical properties		
Density, dry, minimum (EN12467)	⩾ 1300	Kg/m³
Density, dry, average (EN12467)	1350	Kg/m³
Weight average (incl. 5% moisture)	13.1	Kg/m²
Moisture content (on dispatch ex works, ASTM C1185)	5-8	%
Air permeability (EN12114)	0.0 (Panel only) 0.0103 (taped, butt joint)	m³/m²h Pa

Mechanical properties (EN12467) – Bending modulus of elasticity (MOE)		
E-module along grain, ambient	3.19	GPa
E-module across grain, ambient	4.23	GPa

Bending strength (EN12467) – Bending moment of rupture (MOR)		
Along grain, ambient	11.14	MPa
Across grain, ambient	15.87	MPa

Thermal properties		
Coefficient of thermal expansion	4.0 x 10^{-6}/ °C	mm/m °C
Thermal conductivity (ISO 8301, EN 12667)	0.263	λ10 W/(mK)

Hydrothermal properties		
Water absorption (24 hrs 105°C, 24 hrs in water, EN12467)	24.9	%
Moisture movement	0.5	mm/m
Water impermeability (EN12467)	No drop	Visual

Water vapour transmission properties (EN12572-C)		
Vapour transmission resistance (Z-value)	0.79	GPa m² s/kg
Vapour transmission resistance	5786	s/m
Vapour diffusion equivalent air layer thickness	0.16	Sd (m)
Vapour resistivity	87	MN s/(gm)
Vapour resistance factor (μ/value)	17.43	μ
Vapour resistance	0.79	MN s/g

Fire performance		
Reaction to fire	A2-s1, d0	EN13501
Fire protection classification (rating)	K1 10	EN13501-2

Other properties	
Average racking strength	Contact us for further details
Windloads – for details on wind loading please see the installation guide	