

HardiePanel® Fibre Cement Cladding

HardiePanel® cladding is an 8 mm thick, large format sheet available in 21 colours and two textures – smooth or cedar wood effect finish.

James Hardie® fibre cement consists of Portland cement, sand, cellulose, water and selected additives.

Applications

Purposely designed as an external cladding for residential and commercial buildings in both new build and renovation. HardiePanel® cladding can be used in a ventilated construction fixed to timber frame, steel frame or masonry walls using corrosion resistant screws or rivets.

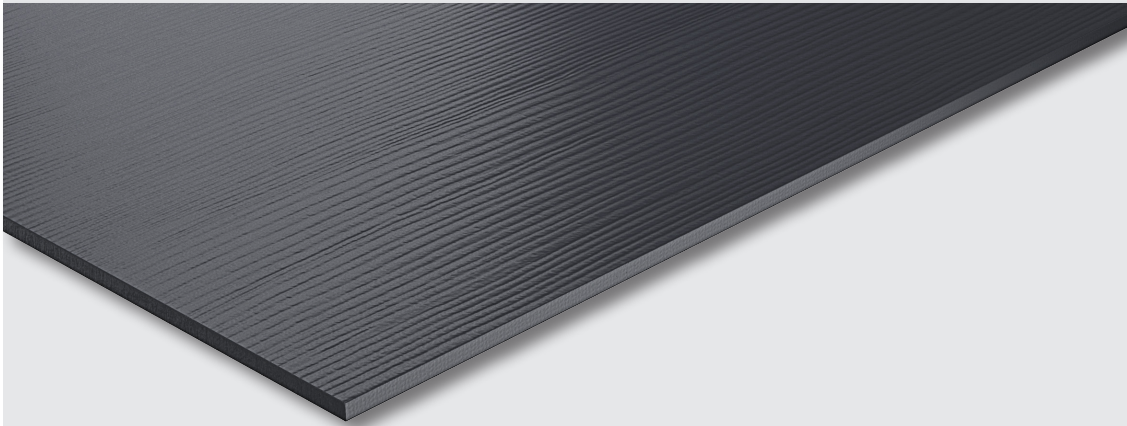
HardiePanel® cladding can be installed horizontally and vertically, with or without insulation.

Approvals

- Construction material class as per EN 13501-1: non-flammable A1-s1, d0
- BBA certified 05/4248
- DIBt approval = abZ Z-31.4-193

Properties

- Fibre cement panels according to EN 12467 - Type A, class 2
- Easy installation
 - No drilling of the panels on wood substructure required
 - Cutting with HardieBlade™ saw blade (suitable for most cable- or battery-powered circular saws)



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Material characteristics

Gross density	~ 1300 kg·m ⁻³
Mass per unit area	11.2 kg·m ⁻²
Thermal conductivity	λ10.tr = 0.23 W/(m·K)
Thermal resistance	R10.tr = 0.024 (m ² K)/W
Flexural strength (as per EN 124670)	<p>After dry storage:</p> <p>“Smooth” panel version 15.5 MPa at right-angles to fibre direction 10.1 MPa parallel to fibre direction</p> <p>“Cedar” wood structure panel version 14.0 MPa at right-angles to fibre direction 8.5 MPa parallel to fibre direction</p> <p>After wet storage: “Smooth” panel version 11.5 MPa at right-angles to fibre direction 7.5 MPa parallel to fibre direction</p> <p>“Cedar” wood structure panel version 10.0 MPa at right-angles to fibre direction 6.0 MPa parallel to fibre direction</p>
Young’s modulus	“Smooth” panel version 6200 N/mm ²
Linear strain	≤ 0.05 mm/m*

* betw. 30 % and 90 % RH

Dimensional tolerance for equilibrium moisture content for standard panel sizes

Panel thickness	8 mm
Panel sizes	3050 mm x 1220 mm
Length tolerance (as per EN 12467)	± 5 mm
Width tolerance (as per EN 12467)	± 3.66 mm
Thickness tolerance (as per EN 12467)	<p>“Smooth” version ± 0.8 mm</p> <p>“Cedar” wood structure version – 0.8 mm / + 1.2 mm</p>

Surfaces

Visible side with colour coating (ColourPlus™ technology); with the “Smooth” version, the surface is slightly undulating; with the “Cedar” wood structure version, the surface is decorated with a wood structure. Rear side slightly roughened, possible colour residues. Colour of panel material: light grey.

Storage

Packaged lying flat on pallets and stored preferably indoors where dry, away from weather influences. Product stored outside must be covered with a waterproof covering in addition to the product wrapper to avoid contact with water and dust. If wet, the product cannot be installed.

James Hardie is not responsible for damage caused by improper storage and handling of the product.

Cutting

Circular saw with HardieBlade™ saw blade, cut-outs with jigsaw or hole saw, fitted with hard or bi-metal or diamond.

If boards are cut to size on site, the edges must be sealed with HardieSeal™ edge coating prior to install.

Substructure distance

Wall	≤ 600 mm
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Disposal

Waste key (EWC) 17 01 01 (concrete)

Additional information

Our recommendations are based on comprehensive tests and practical experience. They do not replace applicable directives, standards, approvals or relevant technical notices. Due to the large number of possible influences during processing and use, we recommend processing and application on a sample. No liability of any kind is accepted for the information provided. Delivery, order processing and guarantee of the properties stated by us are subject to our General Terms and Conditions of Business.