HardieBacker® cement board

Technical Data Sheet


Water resistant


Fire resistant

High compressive strength


High flexural strength


Superior Bonding Tile Surface


Easy to install


No predrilling


Easy to handle


Easy to cut

Description

HardieBacker® cement board is a unique, cement based water resistant tile backerboard that can be used on walls, floors and worktops. **Hardie**Backer® cement board provides the greatest flexural and compressive strength. Providing an excellent tile bonding surface whilst adding value with its Mouldblock™ Technology, so you don't need to worry about costly call-backs.

Physical Properties

SPECIFICATIONS	HardieBacker® 250		HardieBacker® 500
Dimensions	1500 x 900 x 6 mm	1200 x 800 x 6 mm	1200 x 800 x 12 mm
Weight	12.5 kg	9 kg	13.8 kg
Reaction to Fire	A1, S1-d0		A1, S1-d0

Basic Composition

Portland cement, sand, cellulose and selected additives. **Hardie**Backer® cement board doesn't contain asbestos, gypsum, glass fibre or formaldehyde.

Approved Products

- **Hardie**Backer® cement board has been evaluated by the BBA and approved with **certificate no. 04/4100**.
- The products meet the European standard for fibre cement - **EN 12467** and its reaction to fire, in accordance with EN 13501-1, is A1,S1-d0. The product is therefore classified as fully non-combustible.
- **Hardie**Backer® cement board is covered by a **10-year limited product warranty.**

Health and safety

James Hardie® products contain respirable crystalline silica. During installation, use score and snap technique. During clean up use HEPA vacuums or wet cleanup methods. For further information, refer to our installations instructions and Material Safety data sheet available at: www.jameshardie.co.uk

HardieBacker® 250 Cement Board

	General Property	Test Method	Unit or Characteristic	Requirement	Result
Physical Attributes	Dimensional Tolerances	EN 12467	Length	± 0,5%	Pass
		EN 12467	Width	± 5 mm	Pass
		EN 12467	Thickness	± 6%	Pass
	Weight		kg/m²	As reported	9.25
	Apparent density	EN 12467	Saturated, kg/m³	As reported	1300
	Water Impermeability	EN 12467	Physical Observations	No drop formation	Pass
	Compressive Strength	ASTM D2394			48 Mpa
	Flexural Strength	EN 12467	Equilibrium conditioned, MPa	> 10 MPa	14 Mpa
	Category, class	EN 12467		As reported	NT Category C Class 2, level 3
Durability	Warm Water Resistance	EN 12467			Pass
	Heat/Rain Resistance	EN 12467			Pass
	Freeze/Thaw Resistance	EN 12467			Pass
	Soak/dry Resistance	EN 12467			Pass
Fire	Surface Burning Characteristics	EN13501-1	Fuel Contributed	As reported	A1
		EN13501-1	Smoke Development Index (SDI)	As reported	s1
		EN13501-1	Flames Droplets Index	As reported	d0
		EN13501-1	Euroclass	As reported	A1
	Combustibility	Suitable where non-combustible materials are specified in accordance with local building regulations.			
Thermal	Coefficient of Thermal Conductivity	EN 12667	k-value	As reported	0.19 W/(mxK)
	Coefficient of Thermal Resistance	EN 12667	r-value	As reported	0.039 m².K/W
Weight capacity	Tile weight carrying capacity		kg/m²	As reported	100kg/m² *

* Please contact JH technical department when considering application of heavy tiles

JamesHardie® www.jameshardie.co.uk Simple. Reliable. Durable.

HardieBacker® 500 Cement Board

	General Property	Test Method	Unit or Characteristic	Requirement	Result
Physical Attributes	Dimensional Tolerances	EN 12467	Length	± 0,5%	Pass
		EN 12467	Width	± 5 mm	Pass
		EN 12467	Thickness	± 6%	Pass
	Weight		kg/m²	As reported	13.7
	Apparent density	EN 12467	kg/m³	As reported	1140
	Water Impermeability	EN 12467	Physical Observations	No drop formation	Pass
	Compressive Strength	ASTM D2394			45 Mpa
	Flexural Strength	EN 12467	Equilibrium conditioned, MPa	> 10 MPa	12 Mpa
	Category, class	EN 12467		As reported	NT Category C Class 2, level 3
Durability	Warm Water Resistance	EN 12467			Pass
	Heat/Rain Resistance	EN 12467			Pass
	Freeze/Thaw Resistance	EN 12467			Pass
	Soak/dry Resistance	EN 12467			Pass
Fire	Surface Burning Characteristics	EN13501-1	Fuel Contributed	As reported	A1
		EN13501-1	Smoke Development Index (SDI)	As reported	s1
		EN13501-1	Flames Droplets Index	As reported	d0
		EN13501-1	Euroclass	As reported	A1
	Combustibility	Suitable where non-combustible materials are specified in accordance with local building regulations.			
Thermal	Coefficient of Thermal Conductivity	EN 12667	k-value	As reported	0.19 W/(mxK)
	Coefficient of Thermal Resistance	EN 12667	r-value	As reported	0.068 m².K/W
Weight capacity	Tile weight carrying capacity		kg/m²	As reported	100kg/m² *

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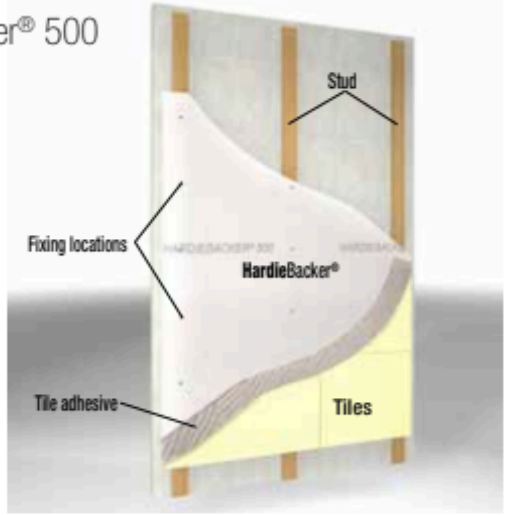
Applications

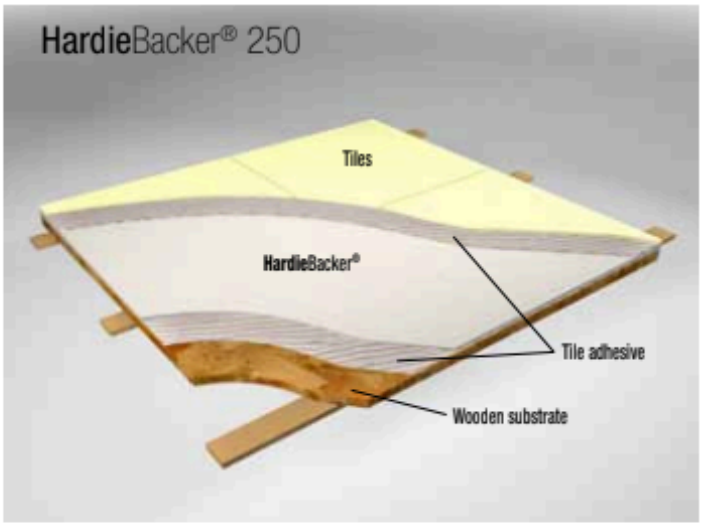
- HardieBacker® cement board is intended as an internal substrate for tiling in residential and commercial properties. It is a water resistant board and can be used in wet areas in both new build and renovation.
- HardieBacker® cement board is suitable for use in domestic steam rooms, saunas, swimming pool surrounds and changing areas.
- HardieBacker® 500 cement board can be used as backing for new domestic boilers.

How to install HardieBacker® cement board?

HardieBacker® 500



HardieBacker® 250



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