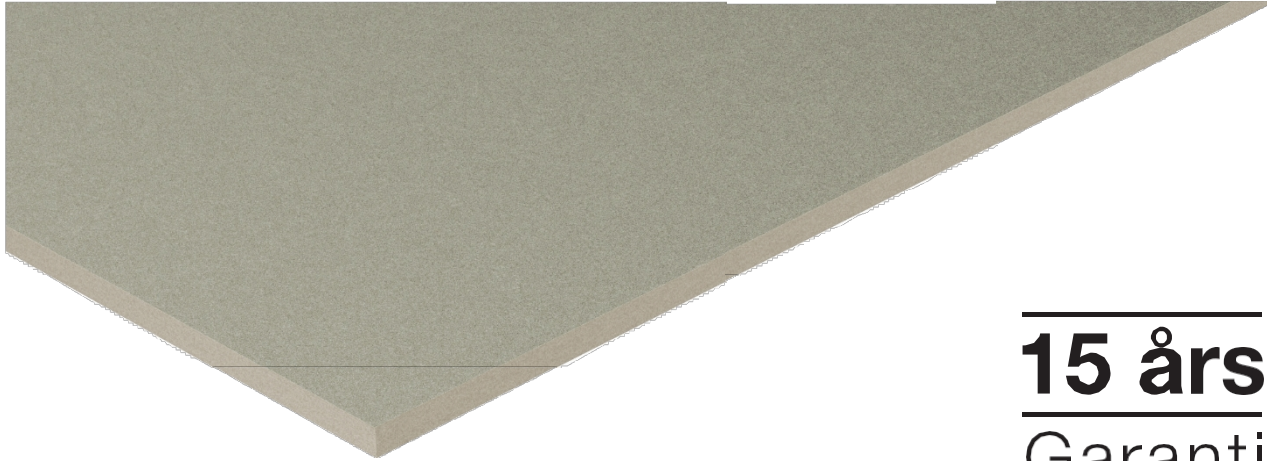


Hardie® Shield



15 års
Garanti

Product description

Hardie® Shield board is a 9 mm wind barrier board.

Hardie® fibre cement products consist of natural raw materials: cellulose fibres from FSC-labelled conifers, Portland cement, quartz sand and water. To optimise the product properties, special additives are also added, which have a positive effect on the durability of the cladding. Hardie® fibre cement products are characterised by outstanding, long-lasting properties. Thanks to the special composition, Hardie® fibre cement products are lightweight and easy to work with, yet very stable and durable.

How to use

Hardie® Shield board in fibre cement can be used for both new construction and renovation projects. The shield board can be used as a temporary facade for up to 12 months and can absorb disc effects. Hardie® Shield board is vapour permeable, ideal for use behind a ventilated facade and ensures the durability and functionality of the structure. The board is also flexible and can be bent in a radius of min. 6 m.

Mounting

Installation of Hardie® Shield board and accessories must always be carried out in accordance with applicable building regulations. Please also refer to the current installation instructions.

Mounting on vertical substructure:

The panels are installed with butt joints over vertical supports. In horizontal joints, galvanised Z-profile can be used in combination with loose timber behind, for example in storey partitions. In unsupported horizontal joints, galvanised H-profile is used.

Mounting on horizontal substructure:

The panels are installed with butt joints. For unsupported vertical joints, galvanised H-profile is used.

Sealing joints:

The Hardie® Shield board is installed in front of butt joints and can be installed both vertically and horizontally. All supported joints are sealed with Hardie™ Tape 3M FAST-F, the tape is first installed on horizontal joints and then overlapped on the vertical joints. Sealing panel joints is necessary for protection against moisture penetration to the underlying structure. All joints must be sealed to achieve 12 months exposure time.

When installed correctly, the Hardie® Shield board has the following properties:

- + Resistant to moisture damage, rot and mould.
- + Prevents moisture penetration into the substructure.
- + Provides temporary protection until the facade is closed (up to 12 months).
- + Can record disc action.
- + Can bend in a radius from min. 6 m.

Technical data/features

Hardie® Shield has a 15-year warranty.

Material values - Hardie® Shield 9 mm (EN 12467)	
Density, Dry	1350 kg/m ³
Weight	13.1 kg/m ³
Air permeability (with joints)	0.01 m /m ³² h Pa
Mechanical properties E-module with fibre orientation, Dry	3.19 GPa
Mechanical properties E-modulus across the fibre direction, Dry	4.23 GPa
Bending strength parallel to the fibre direction, Dry	11.14 MPa
Flexural strength across the fibre direction, Dry	15.87 MPa
Thermal conductivity (ISO 8301, EN 12667)	0.2 λ10 W/(mK)
Water vapour diffusion resistance number μ	17,1
Vapour diffusion resistance (Z-value)	0.79 GPa-s-m /kg ²
Water absorption (wet to dry) (EN12467)	24,9 %
Moisture movement (30/90% RH) (EN12467)	0.5 mm/m
Water permeability (EN12467)	No droplets visual

* Max. wind load depends on construction and fastening. For more information contact technical department

Plate dimensions	
Thickness	9 mm
Width	1200 mm
Length	2400 mm, 2700 mm or 3000 mm
m ² Coverage	2.88 m ² - 3.24 m ² - 3.60 m ²

Measurement tolerances (EN 12467)

Length	± 5 mm
Width	± 3.6 mm
Plate thickness: 9 mm	± 0.9 mm

Characteristics

Home page	The plate is sealed with water-repellent primer on the front.
Back side	The back is rough and treated with a water-repellent primer. There may be small marks from the production line.
Edges	The plate is rectangular and is also sealed, with water-repellent primer on the edges.
Storage	Store in a dry place. Can be stored outdoors under a waterproof cover (packaging is not sufficient) on a level surface.
Colour	Hardie® Shield appears grey-green.

Documentation

Documentation - Hardie® Shield

Reaction to fire (R2F) (EN13501)	A2-s1, d0
Clothing	K1 10 B-s1 d0 (Class 1)
Wind load* Max. wind load (ETAG 04)	1.9 kPa

* Max. wind load depends on construction and fastening. For more information contact technical department

Environment

Hardie® Shield will soon have an EPD and is listed on the Swan.

Use suitable personal protective equipment. Please refer to the applicable Safety Data Sheet.

For further documentation contact the Technical Department.

Teknik-dk@jameshardie.com

Tel: +45 39 69 89 07

Storage

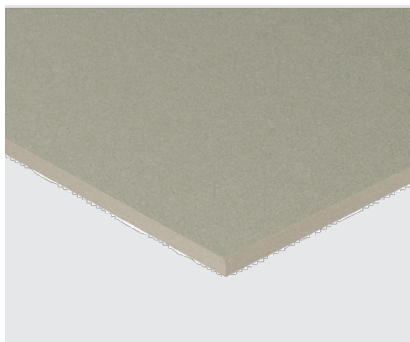
Hardie® Shield is delivered on pallets and can be protected by a dust and dirt-repellent plastic film. The film can NOT be considered a waterproof cover.

The products must be covered with a suitable tarpaulin to prevent water ingress. During storage on site, pallets should be placed on a flat, dry surface, preferably on top of a plastic moisture membrane or similar. To ensure product quality, the following instructions should be followed.

Disposal

Municipal collection point or waste processor - according to municipal waste regulations (EAK) 170101 (Concrete).

Dealer data



Hardie® Shield

Hardie® Shield fibre cement is highly suitable as wind and temporary façade panels for both new construction and renovation projects.

15 års
Garanti

Panels fulfil the applicable fire requirements for facades while ensuring a sealed solution that can be left exposed for up to 12 months.

Format in mm			Article	DB	Per pallet		Per plate	
Thickness	Length	Width	number	number	stk.	m²	kg* (kg*)	kg
9	2 400	1 200	5000021	2061767	40	115,2	1 596	37,9
	2 700		5000022	2061768	35	113,4	1 536	42,5
	3 000		5000023	2061770		126	1 719	47,4

* Please see order confirmation for exact pallet weight.

Size in mm	Package size	Quantity	Consumption per m ²		Article	DB
ø × length	Pakker á	stk.	c/c 400 mm	c/c 600 mm	number	number

Hardie™ mounting screw - For concealed mounting on wood - Torx 15

Specially developed mounting screw for fibre cement.

The screw has a drill tip, milling rib and enlarged extra thread to ensure correct installation and maximum stability.

The screw is rust-protected C4.

	3,9-4,8 × 38	125 pcs.	125	19 pcs.	13 pcs.	6059634	2000463
---	--------------	-----------------	-----	---------	---------	---------	---------

Hardie™ mounting screw - For concealed mounting on wood - PH2 taped

Specially developed mounting screw, taped for greater efficiency and time savings

The cut is rust-protected C4

	3,9-4,8 × 38	20 tapes	500	19 pcs.	13 pcs.	6059635	2000470
---	--------------	-----------------	-----	---------	---------	---------	---------

Size	Package size	Quantity	Consumption per m ²		Article	DB
ø × length	Pakker á	stk.	c/c 400 mm	c/c 600 mm	number	number

Hardie™ mounting screw - For concealed mounting on steel - Torx 20

Specially developed mounting screw for fibre cement.

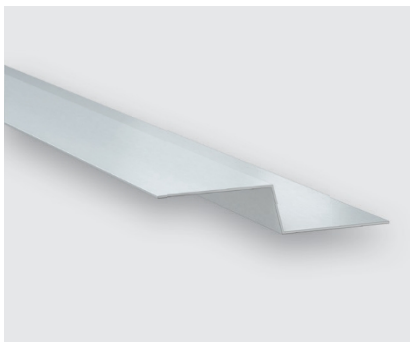
The screw is equipped with a special drill tip with wings to ensure that the plate does not jump out during installation. The screw is rust-protected C4.

	3,9-4,8 × 27	125 pcs.	125	19 pcs.	13 pcs.	6059636	2000473
---	--------------	-----------------	-----	---------	---------	---------	---------

Hardie™ mounting screw - For concealed mounting on steel - Torx 20

banded Specially developed mounting screw, banded for greater efficiency and time saving The cut is rust protected C4

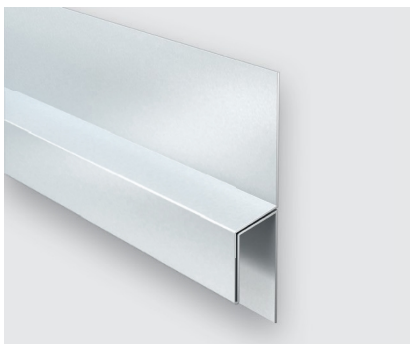
	3,9-4,8 × 27	20 tapes	500	19 pcs.	13 pcs.	6059637	2000475
---	--------------	-----------------	-----	---------	---------	---------	---------



Z-Profile for Hardie® Shield

Galvanised profiles for supported horizontal joints in soffits etc.

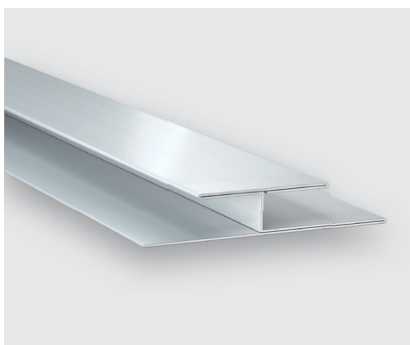
Format in mm		Article	DB	Quantity	Weight	
Length	Thickness	number	number	per bundle.	per metre in kg	per bundle in kg
2 400	0 6	6060003	2061760	5	0,37	4,44



h-Profile for Hardie® Shield

Galvanised profiles for unsupported horizontal joints.

			DB	Quantity	Weight	
Length	Thickness	number	number	per bundle.	per metre in kg	per bundle in kg
2 400	0 6	6060001	2061757	5	0,47	5,64



H-Profile for Hardie® Shield

Galvanised profiles for unsupported vertical joints.

			DB	Quantity	Weight	
Length	Thickness	number	number	per bundle.	per metre in kg	per bundle in kg
2 400	0 6	6060002	2061758	5	0,53	6,36

Unit of measurement Unit size		Article number	DB number	Description of the device	Device
Hardie™ Tape Sealing Tape					
	Roller	50 mm x 25 m	6060004	2061765	For sealing panel joints when using Har- die® Shield or fibre plaster as a wind barrier. For small panels approx. 4 m per m² For large panels approx. 2 metres per m²
					1 roll 1 carton (24 rolls)
Size i mm	Device	Package size / description		Article number	DB number
Hardie™ Blade saw blade					
	160	1 piece.	Specially designed blade to minimise dust. Fits most electric circular saws on the market. Pack of 1 piece.	5300163	1942434
	190			5300164	1942435

Our information is intended to help the user find the best possible product and working method. As the user's working conditions are beyond our control, we cannot accept responsibility for the results obtained by using the product. The information in this product information sheet is a guide to typical values and is not a product specification.

We reserve the right for printing errors. We reserve the right to make technical changes. Please also refer to our general terms and conditions of sale and delivery.