

CEIBRIT

# Windstopper Extreme

Fire resistant sheathing board



Also available  
in lightweight  
4.5mm thick

Can be left exposed to the elements for up to 12 months! \*



Cembrit Windstopper Extreme has been designed for use as a sheathing board in rainscreen cladding applications



Windstopper Extreme fire test at VTT

Cembrit Windstopper Extreme is a vapour permeable cement based building board. It has a very low vapour transmission resistance, enabling moisture from inside the building to pass through. Insulation can therefore be placed directly against the inner side of the board.

## Cembrit Windstopper Extreme 4.5mm

Cembrit Windstopper Extreme 4.5mm is a lightweight vapour permeable fibre cement sheathing board weighing only 7.6 Kg/m<sup>2</sup>. It can be scored and snapped, making for dust free installation.

Cembrit Windstopper Extreme 4.5mm has been tested to BS EN 1364-1:2015. As part of a non-load bearing vertical building element it will provide 60/60 minutes of fire resistance to EN 1364-1:201 when exposed to fire on one side.

Although only 7.6 Kg/m<sup>2</sup> the 4.5mm thick board can give a great acoustic rating of RW (db) of 29 for a single layer.

## Cembrit Windstopper Extreme 9.0mm

Cembrit Windstopper Extreme is non combustible and rot and fungal resistant. It can withstand fluctuations in temperature and climate.

Cembrit Windstopper Extreme 9.0mm has been tested to BS EN 1364-1:2015 (BS 476-22:1987). As part of a non-load bearing vertical building element it will provide 60/60 minutes of fire resistance to EN 1364-1:2015 when exposed to fire from one side.

### Quality

Fibre cement flat sheets EN 12467:2012 NT D3

### Guarantee

Cembrit Windstopper Extreme is guaranteed for durability for 15 years. For further details contact Cembrit Ltd at the address below.

### Fire properties

- Determination of fire resistance BS EN 1364-1: 2015 EI 60 60/60 minutes
- Reaction to fire EN 13501-1 A2-s1, d0
- 9.0mm thick board has a fire protection to classification EN 13501-2 K<sub>1</sub> 10 & K<sub>2</sub> 10



\* Can be left exposed to the elements for up to 12 months

Fire rated sheathing for multi-unit constructions

## Technical data

Dimension (nominal)	Tolerance (EN 12467, Level 1)	
	4.5mm	9.0mm
Thickness	4.5mm +/- 0.6	9.0mm +/- 0.9
Width	900/1200 +/- 3.6	900/1200 +/- 3.6
Length (Special sizes available on request)	2700/3000 +/- 5	2700/3000 +/- 5

Physical properties		4.5mm	9.0mm
Density, dry, minimum (EN12467)	Kg/m <sup>3</sup>	≥ 1400	≥ 1300
Density, dry, average (EN12467)	Kg/m <sup>3</sup>	1600	1425
Weight (EN12467)	Kg/m <sup>2</sup>	7.6	13.5

Bending strength (EN12467)		4.5mm	9.0mm
Along grain, ambient	MPa	20	14.5
Across grain, ambient	MPa	24	18.2
Along grain, wet	MPa	9.2	7.5
Across grain, wet	MPa	10.8	8.5

Sound Insulation		4.5mm	9.0mm
RW (db)		29	31
RW + C (db)		28	29
RW + Ct (db)		25	28

Thermal properties		4.5mm	9.0mm
Heat conductivity	W/m °C	0.5	0.5
Coefficient of thermal expansion	mm/m °C	0.01	0.01
Frost resistance (max. cycles RL > 0,75 EN12467)	Cycles	100	50

Hygrothermal properties		4.5mm	9.0mm
Water absorption (24 hrs 105°C, 24 hrs in water, EN12467)	%	19.9	22.3
Moisture movement (30/90 % RH, EN12467)	mm/m	0.55	0.42
Water impermeability (EN12467)	Visual	No drop	No drop

Water vapour transmission properties (23 °C- 0/99 %RH) (EN12572-C)		4.5mm	9.0mm
Vapour transmission resistance (Z-value)	Gpa m <sup>2</sup> s/kg	2.12	2.21
Vapour transmission resistance	s/m	15555	16191
Vapour diffusion equivalent air layer thickness	Sd (m)	0.41	0.43
Vapour resistivity	MN s/(qm)	448	239
Vapour resistance factor	μ	88.6	46.6

The values given are typical values.

### Installed strength

Characteristic	4.5mm	9.0mm
Racking strength (EN 1995-1-1) KN per board 2400x1200 fixed at 200/300mm centres	2.02	2.76**
Average Racking strength (BS EN 594 in timber frame 2400x1200)	3.32KN (299 N/mm)	6.33KN (238 N/mm)

\* When joints are sealed with Windstopper Tape

\*\* (5.07 with reduced fixing centres)



Cembrit Windstopper Watertight Tape - seals joints making the facade water and air tight

4.5mm no mechanical cutting!

## Windstopper Tape

- Proprietary Film backing seals around joints to prevent moisture intrusion
- Tough backing resists punctures and tears during application
- Unique backing is thin to fit conveniently into corners and under siding
- Windstopper scribe for score and snap cutting.
- Resists UV exposure up to 12 months
- Tested to ASTM and EN standards, refer to datasheet for specific characteristics
- 25m x 50mm per roll

The information contained in this publication and otherwise supplied to users of the company's products is based on the company's general experience, best knowledge and belief. However, because of factors beyond the company's knowledge and control, which can affect the use of the products, no warranty is given or implied with respect to such information.

The company's policy is one of continuous improvement. Cembrit Limited therefore reserves the right to alter specifications at any time and without notice.

As with all manufactured materials, appearance of Cembrit Windstopper Extreme may vary according to light and weather conditions. It is advisable to ask for samples of sheets prior to specification and purchase. Owing to this and limitations of the printing process, colours of sheets in this brochure may only be taken as indicative.

Please ensure that you have the latest version of this datasheet by checking that the publication date on the top right of the front cover corresponds with the downloadable version on our website.

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