

Windstopper Basic

Datasheet - Build Boards

Windstopper Basic is a special type of build board that features a windproof membrane for exterior walls. The board consists of grey cement and limestone filler, reinforced with a specially selected fibre material that can absorb and release moisture without affecting the durability, strength or performance of the board.

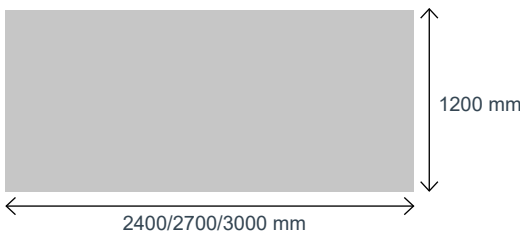
Windstopper Basic has a very low vapour transmission resistance, enabling moisture from inside the building to pass through. In consequence, insulation can be placed directly against the inner side of the board.

The unique manufacturing process does not include compressing resulting in a natural rough surface. The board is powerfully resistant towards both rot and fungal growth and can withstand considerable fluctuations in weather and climate conditions. Adding to this, the Windstopper Basic is non-combustible.

When installed according to Swisspearl installation instructions, Windstopper Basic will function as a temporary facade for up to 6 months.

Dimensions (nominal)		
Thickness	mm	9
Width	mm	1200
Length	mm	2400
		2700
		3000

Standard sizes



Project sales



Windstopper Basic

Dimension tolerance (EN 12467, Level 1)

Thickness	mm	+/-0.9
Width	mm	+/-3.6
Length	mm	+/-5

Physical properties

Density, dry, minimum (EN12467)	Kg/m ³	≥ 1300
Density, dry, average (EN12467)	Kg/m ³	1450
Weight average (Incl. 5% moisture)	Kg/m ²	13.7
Moisture content (on dispatch ex works)	%	3-7
Air permeability (EN 12114)	m ³ /m ² h Pa	0.004
Sound insulation reduction (ISO 717-1:2013)	R _w (dB)	32
	R _w + C (dB)	30
	R _w + C _{tr} (dB)	29

Mechanical properties (EN 12467)

Bending modulus of elasticity		
E-module along grain, ambient	GPa	2
E-module across grain, ambient	GPa	3

Bending strength (EN12467)

Along grain, ambient	MPa	±9
Across grain, ambient	MPa	±11
Along grain, wet	MPa	±4
Across grain, wet	MPa	6

Thermal properties

Coefficient of thermal expansion	mm/m °C	0.01
Frost resistance (max. cycles R _L > 0,75 EN12467)	Cycles	25
Thermal conductivity, λ ₁₀ (ISO 8301, EN 12667)	W/(mK)	0.34

Hygrothermal properties

Water absorption (24 hrs 105°C, 24 hrs in water, EN12467)	%	21.0
Moisture movement (30/90 % RH, EN12467)	mm/m	1.07
Moisture movement (wet-dry-wet)	mm/m	3.1
Water impermeability (EN12467)	Visual	No drop

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Water vapour transmission properties (EN ISO 12572, test method C)		
Vapour transmission resistance (Z-value)	Gpa m ² s/kg	1.7
Vapour transmission resistance	s/m	12453
Vapour diffusion equivalent air layer thickness	Sd (m)	0.33
Vapour resistivity	MN s/(gm)	176
Vapour resistance factor	μ	34.2
Vapour resistance	MN s/g	1.7
Water vapour transmission	USPerm	10.3
Fire performance		
Reaction to fire	EN 13501	A2-s1, d0
Fire protection classification (EN 13501-2)	Rating	K ₁ 10 & K ₂ 10
Fire performance (ASTM E136)		Pass
Other properties		
Category, class		NT D2 I