



# Patina Rough

## Facade Boards

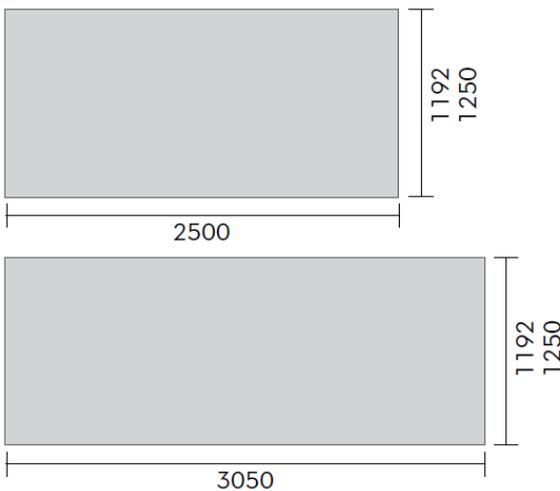
Patina Rough has a velvety, structured surface – as if formed over time by nature. This appearance will add a mineral, natural and subtly eroded surface finish to your facade. The board texture will give your facade a dynamically changing appearance throughout the day depending on external light and viewing angle. Natural imperfections like dots and spots can be visible but from 3-5 meters distance the imperfections will appear homogenous.

Patina Rough is a through-colored board. Variations in the color of the board are visible – color variations are measured according to a simplified CIELAB color model where only the color lightness is checked. The accepted variation is  $\Delta L = \pm 2,5$  based on five measurements. And as the seasons change and the years pass, the natural aging of the fiber cement leaves subtle traces on the surface, and the facade will gradually acquire a distinctive patina. Patina Rough facade boards are high quality fiber cement products used as part of a ventilated facade solution in all types of construction.

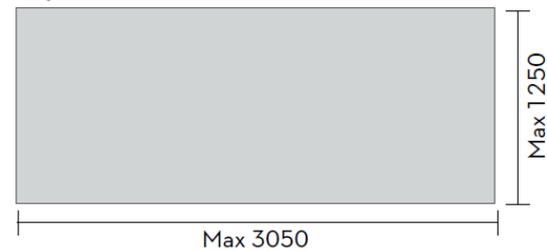
### Dimension (nominal)

Thickness	mm	8
Width	mm	1192 1250
Length	mm	2500 3050

### Standard sizes



### Project sales



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## Dimension tolerance (EN 12467, Level 1)

Thickness (up to 20 mm)	mm	± 0.8
Width (a ≤ 1000 mm)	mm	± 3.0
Width/Length (1000 mm < a < 1600 mm)	mm	± 0,3% a
Length (1600 mm < Length)	mm	± 5.0

\* a is the nominal width or length

## Physical properties

Density, dry minimum (EN12467)	Kg/m <sup>3</sup>	≥ 1300
Density, dry average (EN12467)	Kg/m <sup>3</sup>	1460
Weight (incl. 10% moisture)*	Kg/m <sup>2</sup>	12.4
Moisture content (on dispatch ex works)	%	5-10

\* Nominal value may vary depending on the conditions

## Mechanical properties (EN 12467)

Flexural modulus		
E-module along grain, ambient	GPa	13
E-module across grain, ambient	GPa	15
E-module along grain, wet	GPa	11
E-module across grain, wet	GPa	13

## Bending strength (EN 12467)

Along grain, ambient	MPa	25
Across grain, ambient	MPa	36
Along grain, wet	MPa	17
Across grain, wet	MPa	26

## Impact strength - Pendulum test

Along grain, dry	kJ/m <sup>2</sup>	2.8
Across grain, dry	kJ/m <sup>2</sup>	2.3

## Thermal properties

Thermal conductivity (ISO 8301, EN 12667), λ <sub>10</sub>	W/mK	0.4
Coefficient of thermal expansion	mm/m °C	0.01
Frost resistance (average along/across)	RL	≥ 0.75

## Hygrothermal properties

Water absorption (24 hrs 105°C, 24 hrs in water)	%	25
Moisture movement (30/90 % RH, EN 12467)	%	0.07

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## Water vapour transmission properties (EN 12572-C)

Water vapour transmission resistance (Z-value)	GPa m <sup>2</sup> s/kg	2.5
Water Vapour transmission resistance (Z-value)	s/m	18500
Water vapour diffusion equivalent air layer thickness, Sd	m	0.5
Water vapour resistivity	MN s/(gm)	327
Water vapour resistance factor, μ		58
Water vapour resistance	MN s/g	2.5
Water vapour transmission	USPerm	7.0

## Fire Performance

Reaction to fire (EN 13501-1)	Rating	A2-s1, d0
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## Other properties

Category, class (EN12467)	NT A4 I
M1-Classification, VOC emission of building materials	Pass

## Impact resistance test (ETAG 034, ISO 7892), 8 mm

	Max.	Category IV	Category III	Category II	Category I
Hard body	1 Joule	Passed			
	3 Joules		Passed	Passed	Passed
	10 Joules			Passed	Passed
Soft body	10 Joules	Passed	Passed		
	60 Joules			Passed	Passed
	300 Joules			Not passed	
	400 Joules				Not passed
Evaluation		Passed	Passed	Not passed	Not passed

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