

Swisspearl Patina Signature

Datasheet - Facade Boards

Swisspearl Patina Signature is based on the popular Patina Original and the rustic Patina Rough, together offering you a new design on a base of legacy and trusted quality.

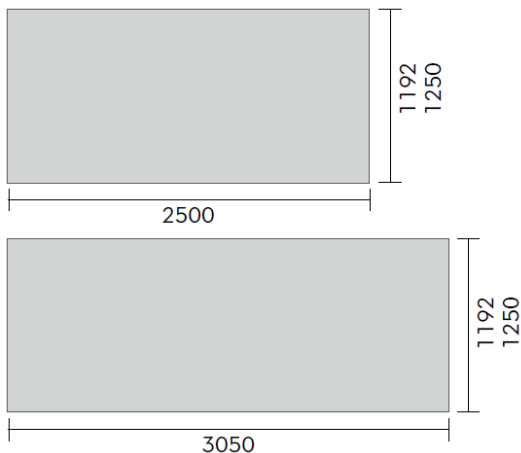
The requested design can be embossed in two ways – adding a new type of expression to the building –and serving as a true reflection of your creative vision.

You can choose to dedicate a specific limited area of the facade and make it stand out from the rest or go big and expand the design to cover the entire facade. Combine it with the other Patina boards and you are ready to stand out.

Swisspearl Patina Signature is available in the five timeless colours already known from Swisspearl Patina Rough and Swisspearl Patina Inline.

Dimension (nominal)		
Thickness	mm	8
Width	mm	1192 1250
Length	mm	2500 3050

Standard sizes



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Please visit the local website for contact details and further information.

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Dimension tolerance (EN 12467, Level I)

Thickness (6 mm < e ≤ 20 mm)	mm	± 10% e
Width (1000 mm < a ≤ 1600 mm)	mm	± 0,3% a
Length (1600 mm < Length)	mm	± 5.0

*a is the nominal width or length, e is the nominal thickness

Physical properties

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

* Nominal value may vary depending on the conditions

Mechanical properties (EN 12467)

Modulus of elasticity		
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 Modified Charpy

Along grain, dry	kJ/m ²	2.8
Across grain, dry	kJ/m ²	2.3

Thermal properties

Thermal conductivity (ISO 8301, EN 12667), λ ₁₀	W/mK	0.4
Coefficient of thermal expansion	mm/m °C	0.01
Temperature (air) in use	°C max	-40 - +80
Frost resistance (average along/across)	R _L	≥0.75

Hygrothermal properties

Water absorption (24 hrs 105°C, 24 hrs in water)	%	25
Moisture movement (wet-dry-wet)	%	0.18

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Water vapour transmission properties (EN 12572-C)		
Water vapour transmission resistance (Z-value)	GPa m ² 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

Other properties	
Category, class (EN12467)	NT A4 I

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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