Swisspearl Patina NXT

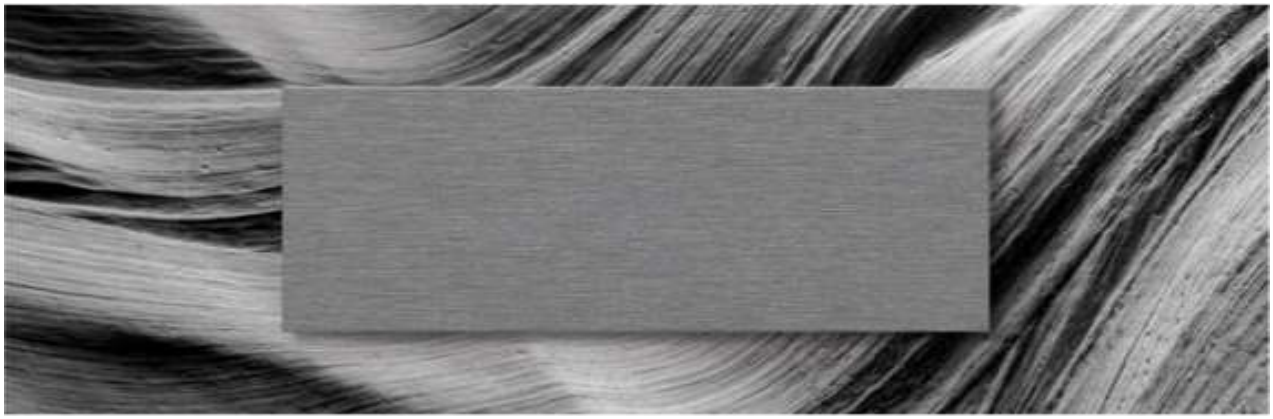
Version: 11/25

External and Internal wall and ceiling coverings **EN 12467**

Patina Orginal NXT | Patina Rough NXT | Patina Structure NXT

Swisspearl Patina Original NXT has fine, sanding lines on the surface. Here's a facade board that may be standard, yet it is much more than ordinary. Swisspearl Patina Original NXT comes in timeless colours – it evolves and changes the expression of your building. These facade boards will patinate beautifully over time, adding an aesthetic look to the building design with some unique and subtle variations on the surface.

Swisspearl Patina Rough NXT is a rustic fibre cement board with a tough, textured surface. Behind its rugged outside, is the steady core of high-quality fibre cement – a material, ideal for exterior and interior facade. Patina Rough NXT is a genuinely through-coloured board with a sand-blasted surface, that gives an attractive and stone-effect finish to your building design.



Visual Appearance

The color of the product derives from the raw materials used in its production, resulting in natural variations both within a single panel and between panels. Its distinctive surface creates an atmospheric play of shadows that shifts with the time of day and viewing angle. The panels demonstrate resistance to aging and chemicals comparable to unreinforced concrete, and their performance is unaffected by normal salted air environments, such as coastal areas. Each panel features a milled surface structure with a water-resistant (hydrophobic) coating, and the base panel is through-colored. A palette of 11 through-colored shades is available.

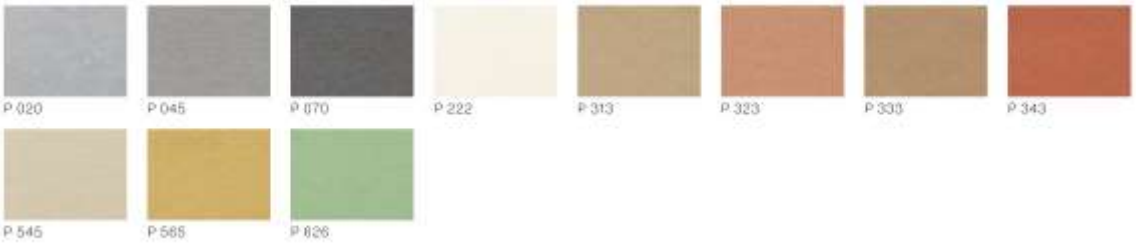
Shading

Deviations in the color shades both within the product and from product to product are a natural part of the production properties underlining the vibrant, expressive character of the material. Color variation measured on the production line (CIELAB color model), by which only the parameter lightness ΔL of the color is followed:

$$\Delta L = \pm X.X \text{ (Patina NXT } \Delta L = \pm 2.5)$$

Color Range*

*Restrictions may apply please check homepage



Swisspearl Patina NXT

Dimension (nominal)	Units	6 mm	8 mm	12 mm
Width*	mm	1192 1250	1192 1250	1192 1250
Length*	mm	2500 3050	2500 3050	2500 3050

*For specific projects, the panels can be cut to custom dimensions.

Dimension tolerance (EN 12467, Level 1)				
Thickness (up to 20 mm)	mm	± 0.6	± 0.8	± 1.2
Width (1000mm < a < 1600mm)	mm	± 0,3% a	± 0,3% a	± 0,3% a
Length (1000mm < a < 1600mm)	mm	± 0,3% a	± 0,3% a	± 0,3% a
Length (1600 mm < Length)	mm	± 5.0	± 5.0	± 5.0

a is the nominal width or length

Physical properties				
Density, dry minimum (EN12467)	Kg/m³	≥ 1400	≥ 1400	≥ 1400
Density, dry avarage (EN12467)	Kg/m³	1550	1570	1620
Weight (Nominal, Mean)*	Kg/m²	10.4	14.9	21.8
Moisture content	%	5-10	5-10	5-10

*Nominal values may vary depending on the conditions

Mechnical properties MOE (EN 12467)				
Bending modulus of elasticity				
E-module Average , ambient	GPa	13	15	19

Bending strength MOR (EN 12467)				
Wet average (EN12467)	MPa	22	23	21
Minimum Class A4 (EN12467)	MPa	18	18	18

Color variation				
CIELAB colour model	ΔL	-2.5/+2.5	-2.5/+2.5	-2.5/+2.5
Color Resistance to UVA				
3000 hours	ΔE	2.7	2.7	2.7

Environmental footprint (EN 15804 ISO 14040/ ISO 14044)		Original NXT 6,8,12	Rough NXT 6, 8,12
GWP-total (A1-C4)	kgCO2-eq	11.6 / 15.5 / 19.4	13.1 / 17.5 / 21.9
GWP-biogenic (A1-C4)	kgCO2-eq	0.22 / 0.3 / 0.37	0.24 / 0.32 / 0.40
GWP-fossil (A1-C4)	kgCO2-eq	11.4 / 15.2 / 19.0	12.9 / 17.2 / 21.5

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Thermal properties	Units	6 mm	8 mm	12 mm
Coefficient of thermal expansion λ_{10}	mm/m °C	0.01	0.01	0.01
Temperature (air) in use	°C	-40 - +80	-40 - +80	-40 - +80
Frost resistance (max. 100 cycles EN12467)	R_L	RL > 0,75	RL > 0,75	RL > 0,75

Hygrothermal properties				
Water absorption (24 hrs 105 °C, 24 hrs in water)	%	< 25	< 25	< 25
Moisture movement (30/90 % RH, EN 12467)	%	0.08	0.08	0.08
Moistore movement (wet-dry-wet)	mm/m	1.8	1.8	1.8

Water vapour transmission properties (EN 12572-C)				
Water vapour transmission resistance (Z-value)	GPa m² s/kg	2.4	2.5	1.8
Water Vapour transmission resistance (Z-value)	s/m	17700	18500	NA
Water vapour diffusion equivalent air layer thickness,	Sd(m)	0.5	0.5	NA
Water vapour resistivity	MN s/gm	366	327	320
Water vapour resistance factor,	μ	58	58	NA
Water vapour resistance	MN s/g	2.4	2.5	NA
Water vapour transmission	USPerm	7.2	7.0	NA

Fire Performance				
Reaction to fire (EN 13501-1)	Rating	A2-s1, d0	A2-s1, d0	A2-s1, d0
Behavior of materials at 750ºC (ASTM E136)		N/A	Passed	Passed
External thermal insulation for walls (BS 8414-2-2015+A1-2017)*		N/A	Passed	Passed

*installtion princples determine the classfication, contact product compliance for further infomation

Other properties			
Category, class (EN12467)	NT A4 I	NT A4 I	NT A4 I
M1-Classification, VOC emission, EN 16516:2017 + A1:2020	Approved	Approved	Approved
REACH (EC) No. 1907/2006	Compliant	Compliant	Compliant

Impact resistance test (EAD 090062-01-0404) 8 mm , 12 mm					
	Category IV	Category III	Category II	Category II	Category I
Hard body	1 Joule		Passed		
	3 Joule		Passed		
	10 Joule		Passed		
Soft body	10 Joule		Passed		
	60 Joule		Passed		
	300 Joule		Passed		
	400 Joule			Not passed (8)*	Passed (12)*
Impact end use catergory (EAD 090062-01-0404)				(8) Category II-a*	(12) Category I*

*installtion princples determine the classfication, contact product compliance for further infomation

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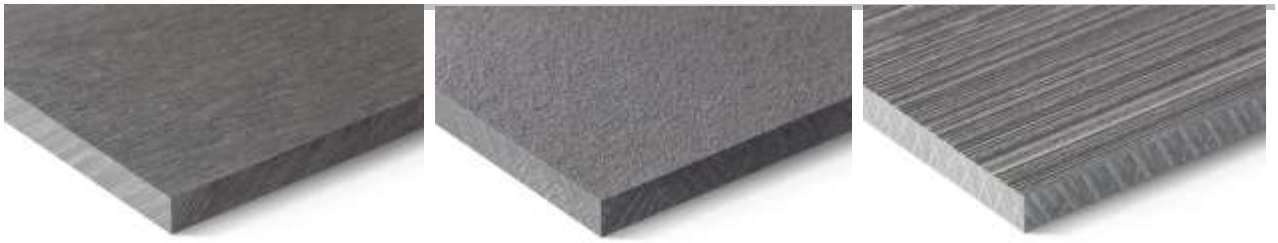
PATINA ORIGINAL NXT	PATINA ROUGH NXT	PATINA STRUCTURE NXT



Certifications

In compliance with European Regulation No. 305/2011 (Construction Products Regulation – CPR), the manufacturer provides a Declaration of Performance (DoP) for the product, confirming that it bears the CE marking. This marking indicates that the product meets the essential requirements set out in the relevant harmonized European standard. The Declaration of Performance, issued under the CPR, is available at www.swisspearl.com

*Structure will be larnched in all certfications.

ISO 9001:2015 QMS Certification

ISO 14001:2015 EMS Certification

ISO 45001:2018 QMS Certification

Disclamer

This Product Data Sheet reflects typical values based on current running production. While we aim to maintain consistent quality, minor variations may occur. Please Note: that all values have a AQL level and a tolerance, also in relation to the EN12467. Key performance indicators (KPIs) are monitored and reviewed annually to ensure product reliability and continuous improvement. The information is provided as a general guide and may be updated without notice. We recommend validating the product for your specific application before use.

The material is made from natural raw materials, each individual fibre-cement product has its own individual look and texture. Spots, Inclusions, impurities, irregularities, can occur, such as uneven surface, or texture which are part of the products look and feel. The product appearance does not affect the strength and durability of fibre-cement products. Over the years, the appearance of fibre-cement products will change as a result of exposure to environmental factors.Note: If any recipe or production process change, the verification period is accordantly revised.

The values given are typical values.

* at the botom of the section

NA: Not applicable.

NR: Not relevant

NOTE: All values given in this document are taken from nominal dimminsions., Tollerance will apply.