

Swisspearl Tectolit / Tectolit lap

Version: 6/26

Large format flat sheets for roof application

EN12467 / EN492

Tectolit / Tectolit lap

The Tectolit system is characterized by unmatched purity of design and impresses with its clearly defined surfaces and lines. It enables the simple, safe, and fast construction of monolithic building envelopes that create striking visual structures, even from a distance. Two different panel formats, along with a wide range of colors, provide additional design freedom. Tectolit Lap is an ideal complement to photovoltaic installations and combines perfectly with the Sunskin Roof system.



TECTOLIT

NATURA

— opaque

— grey based



REFLEX

— iridescent

— grey based



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Dimension (nominal)

Thickness	mm	8.0
Width	mm	1520/2500
Length	mm	930

Dimension tolerance

Thickness	mm	± 0.8
Width	mm	± 3.0
Length	mm	± 5.0

Physical properties

Density, dry minimum (EN 492)	Kg/m ³	> 1550
Density, dry average (EN 492)	Kg/m ³	1800
Weight (incl. 5% moisture)	Kg/m ²	16.1
Weight	Per piece	18.7

Mechanical properties

Bending modulus of elasticity (average)	Gpa	12.0
Bending Strength (average)	Mpa	> 18.0

Thermal properties

Coefficient of thermal expansion	mm/m °C	0.01
Thermal conductivity (ISO 8301, EN 492)	W/mK	0.5
Temperature (air) in use	°C	-40 +80
Freeze-thaw, 100 cycles -20 °C / +20 °C	R _i	0.90
Frost resistance (100 cycles EN 12467)	RL	RL > 0,75

Hygrothermal properties

Moisture movement (wet-dry-wet)	mm/m	< 5
Moisture movement (30/90% RH, EN 12467)	mm/m	1.5
Moisture content (on dispatch ex works)	%	5.0

Fire Performance

Reaction to fire (EN 13501-1)	Rating	A2-s1,d0
Reaction to fire (EN 13501-5)	Rating	Broof (Pass)

Other properties

Category, class (EN 492)	n.a.
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Water vapour transmission properties (ISO 12572)

Vapour performance	kg/m ² s Pa	0,19
Vapour transmission resistance (Z-value)	GPa m ² s/kg	5,21
Vapour transmission resistance	s/m	38185
Vapour resistivity	S _d (m)	1,01
Vapour resistance factor, μ	MN s/(gm)	651

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Visual Appearance



Certifications

In compliance with European Regulation (EU) 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 applicable harmonized European standard. The Declaration of Performance, issued under the CPR, is available at www.swisspearl.com



The manufacturing facility holds the latest versions of the following ISO certificates.

- ISO 9001 Quality Management System

Disclaimer

This Product Data Sheet reflects typical values based on current production. While we aim to maintain consistent quality, minor variations may occur. Please note that all values are subject to an AQL level and tolerances in accordance with EN 12467. Key performance indicators (KPIs) are monitored and reviewed annually to ensure product reliability and continuous improvement.

The information provided serves 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; therefore, each individual fibre-cement product has its own unique appearance and texture. Inclusions, impurities, and irregularities may occur, such as uneven surfaces or textures, which are part of the product's natural look and feel. Natural imperfections may be visible; however, the overall appearance of the product will remain homogeneous. These characteristics do not affect the strength or durability of fibre-cement products. Over time, the appearance of fibre-cement products will change as a result of exposure to environmental factors.