

# Technical Data

## SWISSPEARL facade panels

03/2017

Property	Unit	Test Method	Result
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Physical Properties			
Density	g/cm <sup>3</sup>	EN 12467	>1.75
Weight	kg/m <sup>2</sup>		15.7 for 8 mm
Bending strength (equilibrium)	MPa	EN 12467	>22
Bending strength (wet condition)	Class 4/Cat.A	EN 12467	passed
Modulus of elasticity (E-Modul)	MPa	EN 12467	ca. 15000
Moisture movement	%	EN 12467	ca. 0.12
Thermal expansion coefficient	mm/mK	ASTM E 228-95	0.01
Thermal conductivity	W/mK	EMPA	ca. 0.56

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Dimensional tolerances			
Thickness	mm	EN 12467	±10%
Length and width	Level 1	EN 12467	passed
Straightness of edges	Level 1	EN 12467	passed
Squareness of edges	Level 1	EN 12467	passed

Durability			
Swisspearl facade panels fulfill the requirements of the highest durability category "A" according to EN 12467 and may be subjected to heat, high moisture and severe frost.			
Water impermeability	Category A	EN 12467, ASTM C 1185	passed
Freeze-thaw	Category A	EN 12467	passed (R <sub>L</sub> ca. 1.0)
Soak / dry	Category A	EN 12467	passed (R <sub>L</sub> ca. 1.0)
Heat-rain	Category A	EN 12467, ASTM C 1185	passed
Warm water	Category A	EN 12467	passed (R <sub>L</sub> ca. 1.0)

Fire			
Surface Burning Characteristics EN			
Fuel contributed	A2	EN 13501-1	passed
Smoke development index (SDI)	s1	EN 13501-1	passed
Flames droplet index	d0	EN 13501-1	passed
Fire performance	Suitable where non-combustible materials are used in accordance with local building regulations		