

# Swisspearl Rock

## Datasheet - Facade Boards

Swisspearl Rock is a unique combination of natural stone covering fiber-cement facade board, giving your building a long lasting, natural finish.

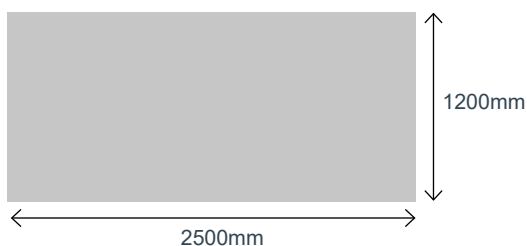
The board is produced from Portland cement, mineral fillers, cellulose and non-toxic organic fibers. Due to the surface bonded rocks it has minimal maintenance and will withstand the test of time regardless of weather. It is as easy and quick to install as any other Swisspearl facade board, and does not need to be treated separately after installation.

Swisspearl Rock has the properties to withstand direct contact with the ground, features high impact strength and sound insulation, and therefore applications are ideally suited for residential areas, industrial properties, leisure homes and for basement footings.

Finishing a new facade or renovating an old pebble dash building, Swisspearl Rock will be an easy choice. Available as standard in three different shades: Reddish brown Clay; Graphite Gray Coal and Light Gray Ash. Others upon request.

Dimensions	Thickness	Width mm	Length mm
Size	12mm	595 1200	2500

### Standard sizes



[www.swisspearl.com](http://www.swisspearl.com)

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

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<b>Dimension</b>		
Thickness	mm	12.0
<b>Tolerances (ref. EN 12467)</b>		
Thickness	mm	-
Length	mm	+_3
Width	mm	+_2
<b>Physical properties</b>		
Density, dry, average (EN 12467)	Kg/m <sup>3</sup>	-
Density, dry, minimum (EN 12467)	Kg/m <sup>3</sup>	1550
Weight (Average incl. 5% moisture)	Kg/m <sup>2</sup>	18.8
<b>Mechanical properties (EN 12467)</b>		
Bending modulus of elasticity		
Ambient E-module with grain	GPa	21
Ambient E-module across grain	GPa	20
Wet E-module with grain	GPa	13
Wet E-module across grain	GPa	9
<b>Bending strength (EN 12467)</b>		
Ambient with grain	MPa	26
Ambient across grain	MPa	22
Wet with grain	MPa	20
Wet across grain	MPa	15
<b>Interlaminar bond</b>		
Dry	MPa	min. 0.5
<b>Impacts strength (Charpy)</b>		
Ambient with grain	kJ/m <sup>2</sup>	2.7
Ambient across grain	kJ/m <sup>2</sup>	2.0
<b>Thermal properties</b>		
Coefficient of thermal expansion	mm/m °C	0.008
Temperature range	°C	+40 to +80
Frost resistance (EN 12467)	Cycles	>100
Thermal conductivity (ISO 8301, EN 12667)	$\lambda_{10}$ W/(mK)	0.4

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<b>Hygrothermal properties</b>		
Water absorption (wet over dry)	%	12.0
Wet-dry-wet (max)	mm/m	3

<b>Fire performance</b>		
Reaction to fire	EN 13501	B-s1,d0

<b>Other properties</b>		
Category, Class	EN 12467	NT A31

<b>Soft- and hard body impact resistance (ETAG 034, ISO 7892), 8 mm</b>					
Type of impact	Energy	Category IV	Category III	Category II	Category I
Hard body	1 Joule	passed	-	-	-
	3 Joule	-	passed	passed	passed
	10 Joule	-	-	passed	passed
Soft body	10 Joule	passed	passed	-	-
	60 Joule	-	-	not passed	not passed
	300 Joule	-	-	not passed	-
	400 Joule	-	-	-	not passed

<b>Soft- and hard body impact resistance (ETAG 034, ISO 7892), 10 mm</b>					
Type of impact	Energy	Category IV	Category III	Category II	Category I
Hard body	1 Joule	passed	-	-	-
	3 Joule	-	passed	passed	passed
	10 Joule	-	-	passed	passed
Soft body	10 Joule	passed	passed	-	-
	60 Joule	-	-	passed	passed
	300 Joule	-	-	not passed	-
	400 Joule	-	-	-	not passed