ConRock for Sandwich Panels

General Product Information

ROCKWOOL stone wool products are non-combustible with a melting point of approximately 1000°C. They are particularly suitable for thermal insulation, fire protection and sound reduction/absorption.

ROCKWOOL stone wool is inorganic and contains no nutritious substance. Therefore it will not be attacked by microorganisms. Stone wool will not rot and does not attract vermin.

No CFCs, HFCs, HCFCs, or asbestos are used in the manufacture of ROCKWOOL stone wool products.

Common applications

ROCKWOOL ConRock provides an excellent structural core for factory engineered flat and profiled sandwich panels. It is suitable for outdoor and indoor applications such as facades, walls, roofs, partitions, ceilings and heavy loaded sandwich panels for e.g. extra wide spans or supplication of greater height.

ROCKWOOL ConRock core is non-combustible and it is rated A1 in accordance with European Fire Class EN13501-1.

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Dimensions

ROCKWOOL ConRock is supplied in L-Series and S-Series. The L-Series are supplied as pre-cut lamella, whereas S-Series are supplied as slabs for customers having their own lamella cutting facilities.

L-Series

ConRock Lamella	L10	L12.5	L15
Nominal Density (kg/m³)	100	125	150
Size : L x W (mm)*	1200 x 100		
Thickness (mm)**	23 - 150		

S-Series

ConRock Slab	S10	S12.5	S15
Nominal Density (kg/m³)	100	125	150
Size : L x W (mm)*	1200 x 600		
Thickness (mm)**	50 - 150	50 - 140	50 - 110

* *Other sizes available upon request*

** *Thickness tolerance: L-Series +/- 1mm, S-Series +/- 3mm*

Note: ConRock S is also supplied after grinding to achieve -1/+2 mm tolerance

Handling and Installation

ROCKWOOL ConRock products are lightweight and easy to handle. To cut the product, it only requires a sharp knife with serrated edge. To install, ConRock should be placed in staggering position in accordance with the sandwich panel manufacturer's requirement.

Packaging and Storage

ROCKWOOL ConRock products are packed in shrink films as bales or packed in pallets as appropriate or as requested by the sandwich panel manufacturer. Corner protectors are available upon request.

Photo courtesy of Trimo d.o.o Slovenia

Technical Parameters

	L10	L12.5	L15	Standards
Compression Strength (kPa)	120	140	220	EN826
Tensile Strength (kPa)	180	215	280	EN1607
Shear Strength (kPa)	47	65	100	EN12090
Thermal Conductivity (W/mK)*	0.042	0.044	0.048	ASTM C518
Euro Fire Class	A1	A1	A1	EN13501-1
Fire Resistance	30 to › 120 minutes. This depends on the construction of the sandwich panel			
Application Temperature Range**	-30 °C to 250 °C			
Melting Point Of Stone Wool Core	› 1000 °C			ASTM E794
Moisture Resistance	Absorb less than 0.04 Vol %			ASTMC1104/1104M
Water Absorption	‹ 1.0 kg/m²			EN1609

* *Thermal Conductivity is tested on fibre direction at mean temperature 20°C*

** *Applications below 0°C are recommended, when vapour seal at warm side is adequately maintained*

Note: The above compression tensile and shear strength are based on products from ROCKWOOL Malaysia Sdn Bhd.

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