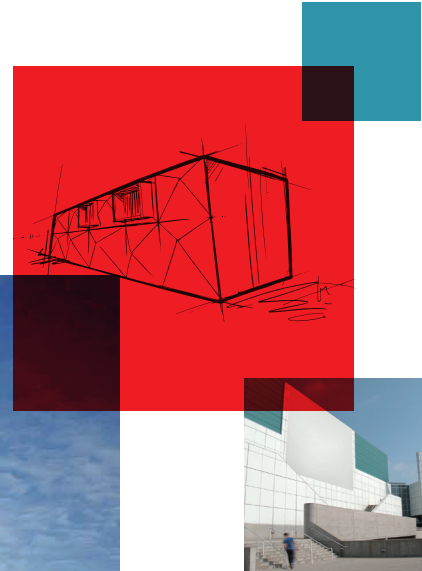




# ConRock Sandwich Panel Core



## General Product Information

ROCKWOOL stone wool products are mainly made of natural stone.

ROCKWOOL stone wool products are non-combustible with a melting point of approximately 1000°C. They are specially formulated to provide thermal insulation, fire protection and sound reduction/absorption. No CFCs, HFCs, HCFCs or asbestos are used in the manufacture of ROCKWOOL stone wool products.

ConRock (CR) product range is specifically designed for use as insulation core for metal faced composite panels. CR range is available in CR-L and CR-S series.

CR-L10.5	CR-S10.5
CR-L12	CR-S12

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## Common Applications

CR range is the ideal core insulation for metal faced sandwich panels used in commercial, industrial and public buildings in various applications such as external wall, roof, partition, etc.

CR-L series is supplied in lamella form, pre-cut into required thickness. CR-S series is supplied in slab form which can be processed directly by a panel production line.

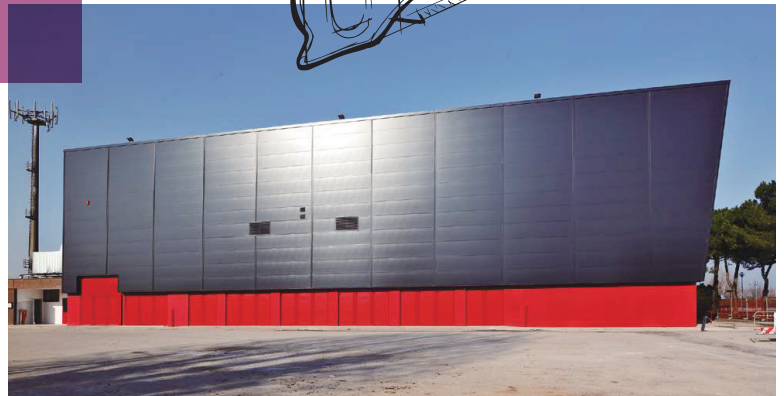
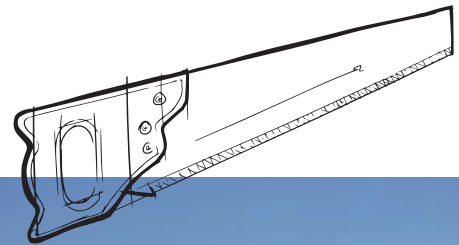


Product code	CR-L10.5	CR-L12
Nominal Density (kg/m <sup>3</sup> )	105	120
Dimension LxW (mm)*	1200x100	
Thickness (mm)	30-200	

\* Please contact our local representative for sizes not stated in the datasheet.

Product code	CR-S10.5	CR-S12
Nominal Density (kg/m <sup>3</sup> )	105	120
Dimension LxW (mm)*	1200x1200, 1200x600	
Thickness (mm)	100	100

\* Please contact our local representative for sizes not stated in the datasheet.



ROCKWOOL is the world's leading supplier of stone wool innovative products and systems, dedicated to improving the environment and people's quality of life.

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## Product Features

### ■ Fireproof

ROCKWOOL stone wool is non-combustible and can contribute to prevent fire from spreading in case of fire.

- Melting point above 1000°C, dimensionally stable in high temperature.
- Fire resistance up to 240 minutes (depending also on Panel structure and thickness).
- No smoke development and no production of toxic gases.

### ■ Mechanical Strength

The outstanding tensile, compressive and shear strengths of CR products contribute to the overall mechanical performance of the panel.

- Three dimensional fiber orientations provide required strengths.
- Fiber in lamella perpendicular to metal surfaces gives best compressive strength.
- Dimensionally stable and durable over time.

### ■ Thermal Properties

- Low shot content and low fire diameter give excellent thermal resistance.
- Even fiber distribution ensures consistent thermal conductivities across the product.
- Thermal conductivity remains stable over time.

### ■ Water Resistance

- Water repellence of the product prevents water from entering in the product.
- Open fiber structure enables vapor permeability and prevents trapping of moisture inside the product.

### ■ Acoustic Insulation

Fiber structure of stone wool gives excellent acoustic properties which effectively reduce noise and sound penetration.

### ■ Health and Safety

- No asbestos, CFCs, HFCs, HCFCs in the product and production process.
- Chemically neutral and does not cause or promote corrosion.
- Fully recyclable.



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## Handling and Storage

- CR is delivered in shrink wrap bales or in pallet with polythene wrap for protection during transit and for short term protection. The product shall be handled with proper tools and with care to avoid damage to the packaging.
- Do not expose the product directly to water source (rain or snow) during transportation, handling and storage.
- The product shall be stored in ventilated indoor space or temporarily outdoor on elevated base and fully covered from rain or snow.
- Maximum height for stacking is 2.5m.

## CR-L Technical Parameters

	CR-L10.5	CR-L12	Unit	Standard
Compressive strength	85	100	kPa	GB/T 13480
Tensile strength	170	220	kPa	GB/T 30804
Shear strength	60	80	kPa	GB/T 32382
Shot content	≤5 (shot ≥0.25mm)		%	GB/T 5480
λ 25°C for CR-S	≤ 0.036	≤ 0.036	W/m-K	GB/T 10294 or GB/T 10295
λ 25°C for CR-L	0.043	0.043	W/m-K	GB/T 10294 or GB/T 10295
Fire performance	Non-combustible, reaction to fire Class A1		-	GB/T 8624
Fire resistance	30 to 240 min. (depending on panel structure and thickness)		-	-
Water absorption (by mass)	≤ 0.5		%	GB/T 5480
Water Repellence	≥ 99		%	GB/T 10299
Melting point	>1000		°C	-

Note: The information contained in this data sheet is believed to be correct at the date of publication. ROCKWOOL Company does not accept responsibility for the consequences of using ConRock in applications different from those described above.

## ROCKWOOL

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