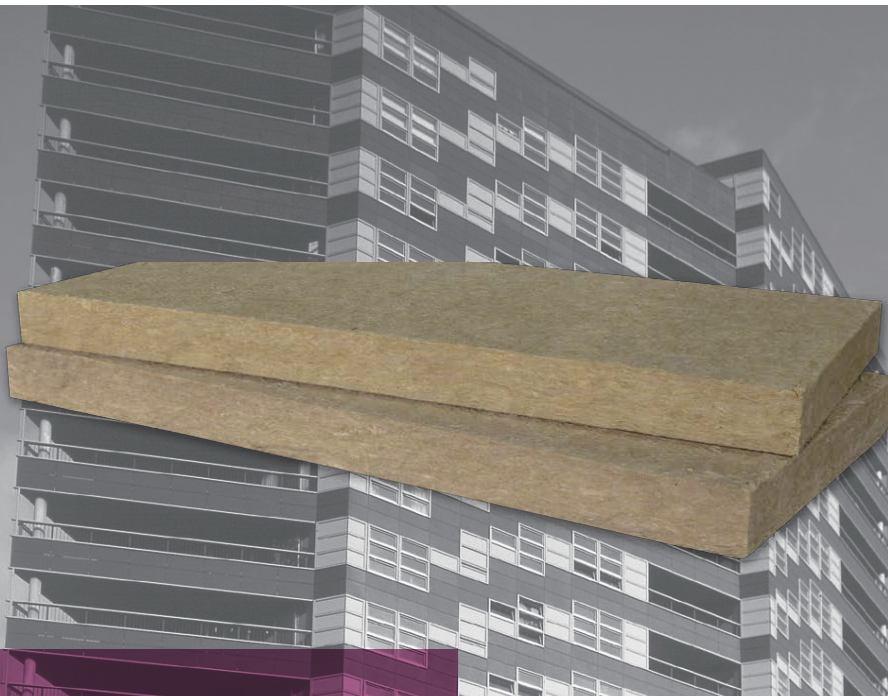




ROCKWOOL FacadeRock (Slab for ETICS)



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 fire protection, thermal insulation and sound reduction/absorption. No CFCs, HFCs, HCFCs or asbestos are used in the manufacture of ROCKWOOL stone wool products.

ROCKWOOL FacadeRock is an environmentally-friendly and

dimensionally stable product. It has high compression and tensile strength, low thermal conductivity, good water repellency and low water absorption, is crack resistant and requires little maintenance.

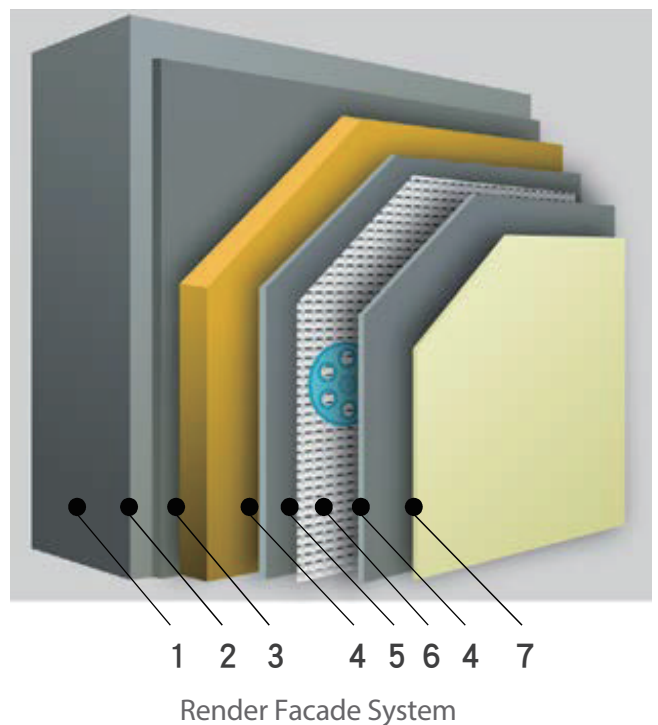
FacadeRock products are available in two tensile strengths to suit various applications and installation methods:
FR10 FR15

ROCKWOOL FacadeRock

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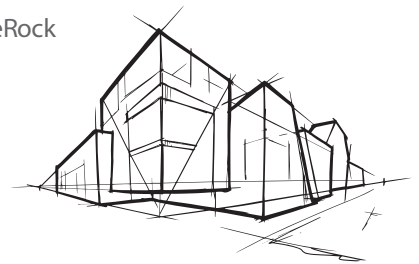
Applications

- FacadeRock is a stone wool slab mainly used in external thermal insulation composite systems (ETICS). It is fixed to the substrate by anchor and/or adhesives. One layer of base coat reinforced with glass fiber mesh is applied on FacadeRock. Finally top layer cover of base coat provides protection for the system against weathering and mechanical stress and also as a decorative finish.
- FacadeRock is also suitable for use in non-transparent curtain wall insulation system or ventilated facade when base coat and reinforcement on insulation are required.
- FacadeRock is used as fire barrier around buildings or over openings for the exterior wall system insulated with non-class A fire-classification material.



Typical Structure

1. Substrate
2. Adhesive
3. ROCKWOOL FacadeRock
4. Base Coat
5. Glass Fiber Mesh
6. Anchor
7. Finishing Coat



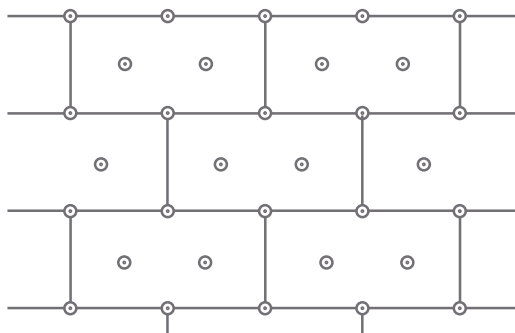
ROCKWOOL is the world's leading supplier of stone wool innovative products and systems, dedicated to improving the environment and people's quality of life.

ROCKWOOL FacadeRock

ROCKWOOL stone wool products are mainly made of natural stone.

Product Characteristics

- Non-combustible and meets the highest fire classification rating.
- Does not produce burning droplets, promote flashover or release toxic gases during a fire.
- Compression and tensile strength meets the standard for ETICS.
- Does not contain CFCs or HCFCs insulant that can diffuse over time, thereby ensuring constant thermal resistance value.
- Excellent permeability and thermal properties assist the reduction of condensation built-up in the system.
- It is water repellent and moisture resistant and is mostly made up of inorganic fibres, providing little nutrient source to allow fungal growth.
- Dimensionally stable and does not shrink, warp or deform over time.
- Its open fibre structure provides excellent sound absorbing properties.
- Easy to cut and handle.
- It is neutral or slightly alkaline and does not cause corrosion on fiber glass mesh and metal fixing.
- Fibres are non-toxic and fully safe for use.



Layout of anchoring

Design and Installation Considerations

- The adhering surface of FacadeRock should be treated with suitable primer for stone wool to achieve the best adhering effect.
- FacadeRock should be fixed to substrate by bonding and anchorage. And the adhering area shall not be less than 50% of contact area.
- It is suggested the number of anchor not be less than 6 pieces per square meter and should be increased within the edges and corner areas.
- Glass fiber mesh should be embedded in base coat which is covering FacadeRock; an additional layer of glass fiber mesh should be applied on the walls of ground floor.
- Rendered finishing coat should be used. Bricks and tiles are not recommended.
- While positioning FacadeRock, the joints shall be staggered as the layout sketch and gaps between slabs shall be avoided as much as possible. Small slabs should be used as few as possible.
- FacadeRock should be cut with sharp cutters or hand saws.
- If FacadeRock becomes damp or wet, the reinforcement layer (base coat) and finishing coat must be applied after the panels are dried naturally.
- When repairing the external walls, all affected FacadeRock slabs must be removed and new FacadeRock should be used unless the original external thermal insulation layer remains solid and fixed tightly. The designers or contractor should inspect the tightness quality of ETICS fixed on the building structure to make accurate judgment.
- For other design and construction details of FacadeRock used in ETICS, please refer to relevant guideline provided by the system holder.

ROCKWOOL FacadeRock

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Dimensions

Product Type	Thickness(mm)	Length x Width(mm)
FR10	40 - 100	1200 x 600
FR15	40 - 100	1200 x 600

Note: Please contact your local representatives for sizes not stated in the datasheet.

Packaging and Storage

FacadeRock is shrink-wrapped in polyethylene sheets for ease of handling, transportation, storage and identification. Do not expose the product directly to water source (rain or snow) during transportation, handling and storage, and prevent packaging from damage. FacadeRock should be stored in ventilated indoor space, or temporarily outdoor on elevated base and fully covered from rain or snow.

Technical Parameters

Product Code	FR 10	FR 15	Unit	Standards
GB Product Class	TR10	TR15	-	GB/T 25975-2018
Tensile Strength (Perpendicular to the Surface)	≥ 10	≥ 15	kPa	GB/T 30804
Compressive Strength (Perpendicular to the Surface)	≥40 (thickness ≥50mm) ≥20(thickness <50mm)		kPa	GB/T 13480
Thermal Conductivity (λ 25°C)	≤ 0.040		W/m·K	GB/T 10295
Fire Performance	Non-combustible material, reaction to fire not less than Class A1		-	GB/T 8624
Water Repellence	≥ 99		%	GB/T 10299
Water Absorption (Partial Immersion, Short Term)	≤ 0.4		kg/m ²	GB/T 30805
Moisture Absorption	≤ 0.2		% by vol.	GB/T 5480
Dimensional Stability	≤ 1.0		%	GB/T 30806
Vapour Diffusion Resistance Factor	≥ 4.0		-	GB/T 17146
Acidity Ratio	≥1.8		-	GB/T 5480
Melting Point	> 1000		C	DIN4102-17
Standards Applied	GB/T 25975-2018			

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 FacadeRock in applications different from those described above.

ROCKWOOL

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