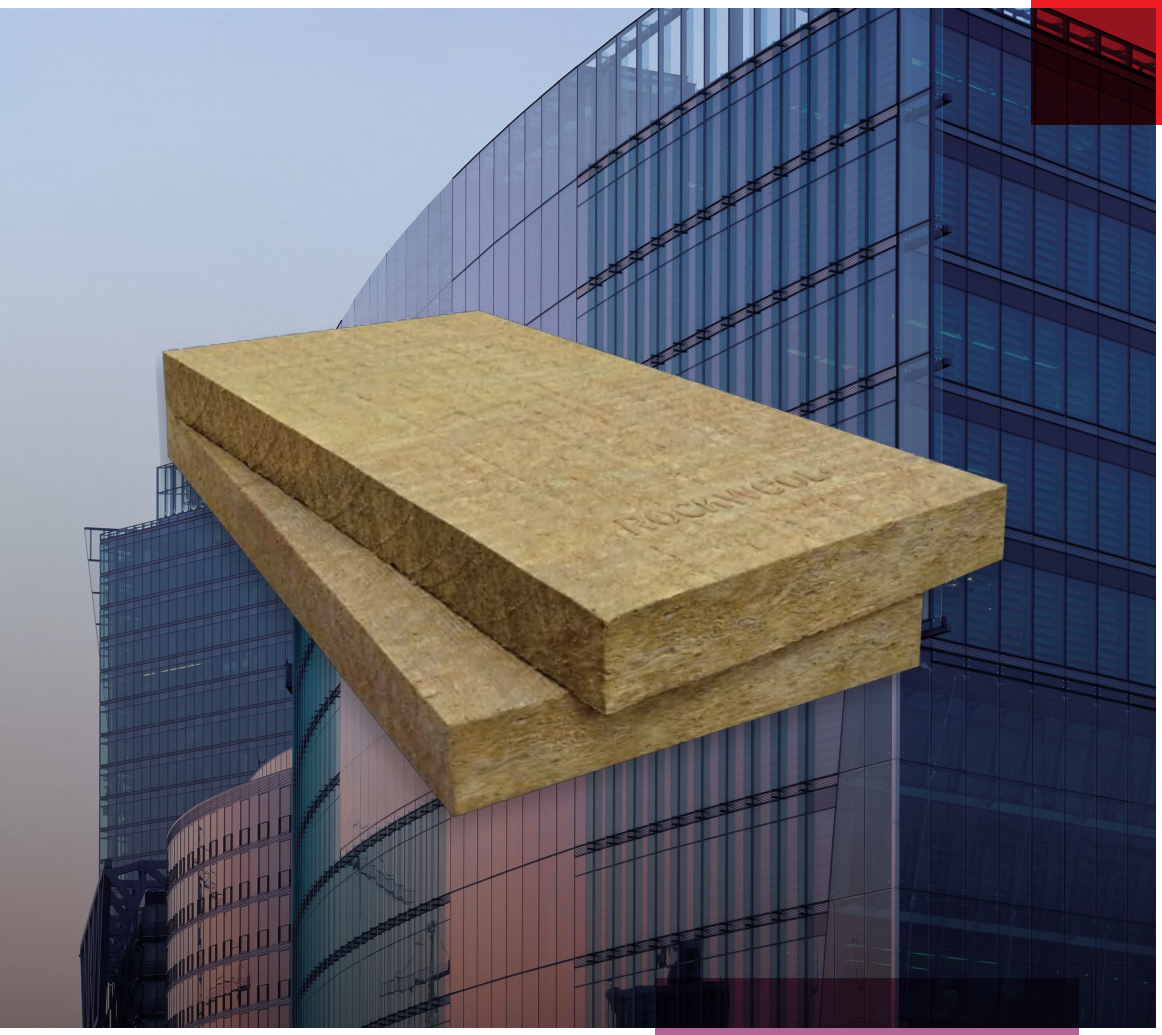
ROCKWOOL VentRock Stone Wool for Ventilated Facade System

ROCKWOOL stone wool products are mainly made of natural stone.



ROCKWOOL®

ROCKWOOL VentRock

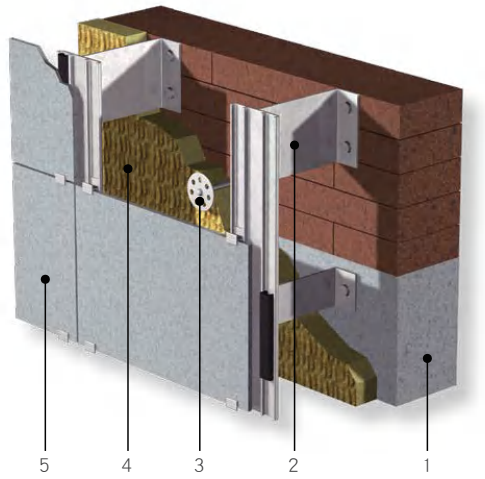
ROCKWOOL stone wool products are non-combustible with a melting point of approximately 1000°C. They are specially formulated to provide fire protection, thermal insulation and sound reduction/absorption.

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

Applications

VentRock is particularly designed for ventilated facade or rain-screen cladding system fixed on solid substrates such as concrete wall or brick wall. It can insulate new buildings and renovation buildings.

VentRock has basic compressive and tensile strength properties, very low water absorption and moisture absorp-tion. The high aging resistance of VentRock guarantees its dimensionally stability, consistent thermal resistance and other physical properties. Together with its compatibility with other components used in ventilated facde or rain-screen cladding systems, VentRock protects buildings from fire while providing effective acoustic and thermal insulation performance.

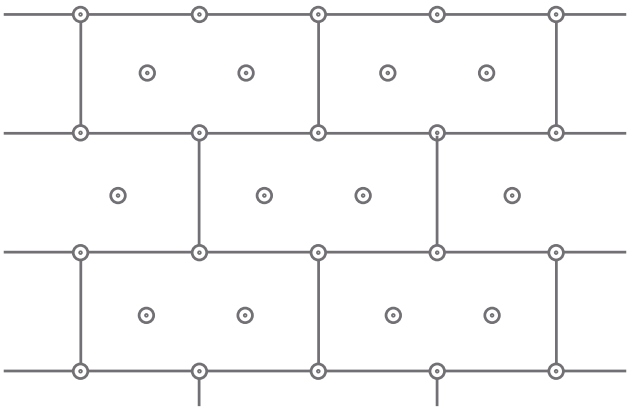


Structure

1.Substrate. 2.Vertical Profile. 3.Anchor.
4.VentRock slab (or faced with glass-fiber tissue etc.)
5. Cladding surface panel (Aluminum Panel, Granite, etc)

Product Features

- Compression and tensile strength meets the requirement of ventilated facade or rain-screen cladding.
- Excellent thermal properties to reduce the interstitial condensation in ventilated facade or rain-screen system.
- Excellent fire-resist performance.As a non combustible material,ROCKWOOL VentRock does not produce burning droplets,promote flashover or release toxic gases during a fire.
- Excellent thermal insulation. It can increase exterior wall's thermal resistance and reduce energy consumption of building.
- Neutral or slightly alkaline and does not cause corro sion of metal materials.
- Excellent sound absorption property.
- Water repellency, moisture resistant.
- High Acidity index, aging-resist and stable.
- Light weight, easy for handing and installation.



Layout Sketch of Anchoring

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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.

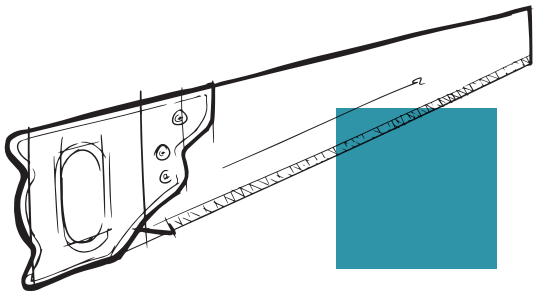
ROCKWOOL VentRock

Design and Installation

- Slab can be fixed to the substrate by bonding and anchorage or fully anchorage.
- It is suggested the number of anchor not be less than 6 pieces per square meter and be increased within the edges and corner areas and higher wind suction areas.
- While positioning VentRock slab on substrate wall, the joints shall be staggered as the layout sketch and gaps between slabs shall be avoided as much as possible. Small slabs is suggested to be used as less as possible.
- If VentRock becomes damp or wet, the next installa tion step must be applied after it is dried naturally.
- VentRock should be cut by sharp cutters or hand saws.
- For other design and construction details of VentRock used in ventilated facade or rain-screen cladding system, please refer to relevant guideline provided by the system holder.

Packaging and Storage

VentRock is shrink-wrapped in polyethylene sheets for ease of handling, transportation,storage and identification.Do not expose directly to water source (rain/snow) during transportation to prevent damage to products. VentRock should be stored in an unheated room or in an open area covered with a tarpaulin.



Facing

VentRock is available in plain, aluminium foil facing or one side glass tissue facing.

Standard Size

Code	Thickness (mm)	Size (mm)
VentRock 100	50 - 150	600 x 1200

Please contact your local sales representatives for sizes and densities not stated in the data sheet.

Thermal Resistance for Reference

Thickness of VR100	Thermal Resistancece	Unit
50 mm	1.47	m^2K/W
100 mm	2.94	m^2K/W
150 mm	4.41	m^2K/W

Technical Parameters

Code	VentRock 100	Unit	Standard
Nominal Density	100	Kg/m^3	GB/T 19686
Compressive Strength (vertical to surface)	⩾ 10	kPa	GB 13480
Tensile Strength (vertical to surface)	⩾ 2.5	kPa	GB/T 29906
Thermal Conductivity (λ 25°C)	⩽ 0.034	W/mK	GB/T 10295
Fire Performance	A1 class non-combustible	-	GB/T 8624
Water Repellence	⩾ 99	%	GB/T 10299
Water Absorption (Partial Immersion)	⩽ 0.5	kg/m^2	GB/T 25975
Water Vapour Absorption	⩽ 0.5	%	GB/T 5480
Dimension Stability	⩽ 1.0	%	GB/T 8811
Acidity Ratio	⩾ 1.8	-	GB/T 5480
Shot Content (Shot Size > 0.25mm)	<5	%	GB/T 5480
Melting temperature	>1000	℃	DIN4102-17

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 VentRock in applications different from those described above.

ROCKWOOL

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