ROCKWOOL®

OUTRIGHT
Continuous Insulation

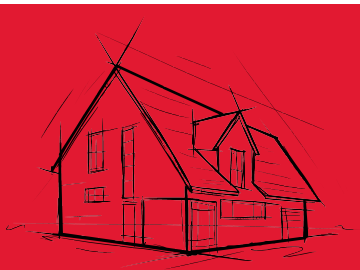
ROCKWOOL Facaderock

Solution for ETICS (External Thermal Insulation Composite System)

ROCKWOOL Facaderock is a stone wool slab mainly used in external thermal insulation composite systems (ETICS).

This external wall insulation system is made from many layers, including a base coat, reinforced mesh and finishing coat. Continuous external insulation improves thermal performance and reduces thermal bridges, storing heat in the walls to create a more comfortable living environment.

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.



Durable Performance

Provides consistent density and high compressive strength throughout the board.

For more information contact www.outright.co.nz

ROCKWOOL Facaderock

Technical Data Sheet
Exterior Insulation
1st November 2023

Technical Parameters

Product	Facaderock 7.5	Facaderock 10	Test Standard
Reaction to Fire	Non-combustible Euroclass A1	Non-combustible Euroclass A1	AS 1530.1 EN 13501-1
Fire Hazard Properties	Ignitibility: 0 Spread of flame: 0 Heat evolved: 0 Smoke developed: 0-1	Ignitibility: 0 Spread of flame: 0 Heat evolved: 0 Smoke developed: 0-1	AS 1530.3
Melting Point	1000°C	1000°C	ASTM E794
Thermal Conductivity at mean 15°C	0.037 W/mK	0.038 W/mK	ASTM C518
Water Absorption (partial immersion) - short	0.5 kg/m^2	0.5 kg/m^2	BS EN ISO 29767
Water Repellent	99 %	99 %	GB/T 10299
Compressive Strength @ 10% deformation	40 kPA	40 kPA	EN 826
Tensile Strength (perpendicular to the surface)	≥ 7.5 kPA	≥ 10 kPA	EN 1607

Application

ROCKWOOL Facaderock is a non-combustible stone wool insulation boards engineered to be used in mechanically-astened exterior thermal insulation composite systems (ETICS).

Compliance with the New Zealand Building Code

ROCKWOOL stone wool products when used, installed and maintained in accordance with the requirements outlined in this datasheet, will meet or contribute to meeting the following provisions of the NZBC:

1. Clause B2 DURABILITY: Performance B2.3.1 (a) not less than 50 years and B2.3.1 (b) 15 years.

   Where the building is maintained so that provisions of the NZBC E2 and E3 Clauses are met, and where the insulation is not crushed or exposed to conditions that will diminish its thermal performance, ROCKWOOL Stone Wool Insulation can expect to have a serviceable life of at least 50 years. Refer to Installation Guideline and Product Handling and Storage Guideline for more information.

2. Clause E3 INTERNAL MOISTURE: Performance E3.3.1.

   ROCKWOOL Stone Wool Insulation contributes to meeting this requirement.

3. Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1.

   ROCKWOOL Stone Wool Insulation is safe when handled.

4. Clause H1 ENERGY EFFICIENCY: Performance H1.3.1 (a) and H1.3.2 E.

   ROCKWOOL Stone Wool Insulation will contribute to meeting the requirements of NZBC Clause H1, Performance H1.3.1 (a) and H1.3.2 E by complying with NZBC Verification Methods H1/VM1, H1/VM2, NZBC Acceptable Solutions H1/AS1, or H1/AS2.

Packaging and Storage

ROCKWOOL Facaderock is shrink-wrapped in polyethylene sheets for ease of handling, transportation and storage. Products should be stored in doors or under waterproof covering.

Health & Safety

ROCKWOOL stone wool products are manufactured from FBS-1 stone wool. FBS-1 stone wool is safe to use and the fibre component of these products is listed by Safe Work Australia as Man-made Vitreous Fibre (stone wool) of low bio persistence as specified under Note Q in the Australian Hazardous Substances Information System and in the Australian Approved Criteria.

ROCKWOOL Facaderock

Technical Data Sheet
Exterior Insulation
1st November 2023

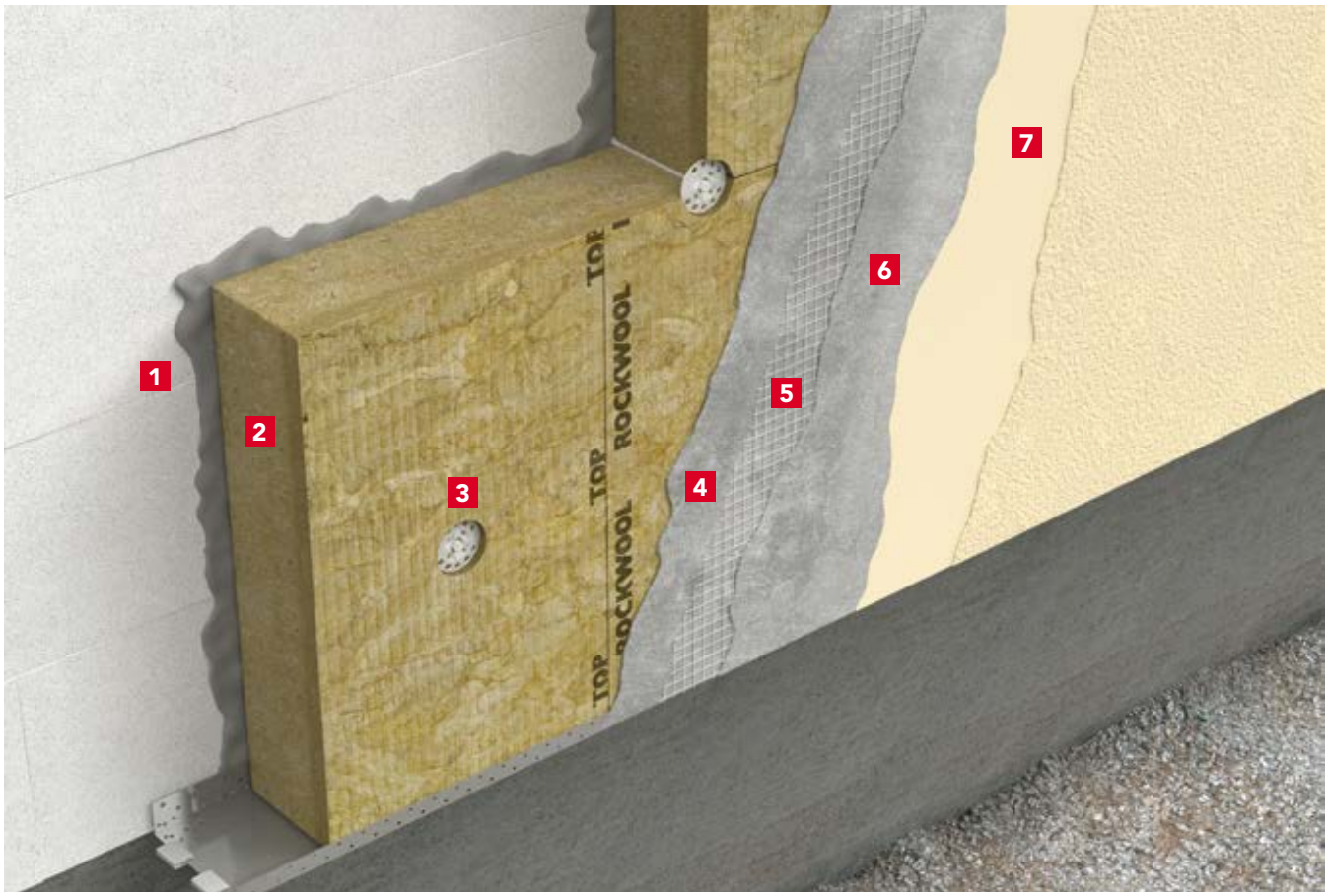
Product Specification

ROCKWOOL Facaderock 7.5

R-Value m²K/W	Thickness (mm)	Width (mm)	Length (mm)	# Pieces per pack	Area per pack (m²)
1.35	50	600	1200	6	4.32
2.05	75	600	1200	4	2.88
2.Ì F	100	600	1200	3	2.16

ROCKWOOL Facaderock 10

R-Value m²K/W	Thickness (mm)	Width (mm)	Length (mm)	# Pieces per pack	Area per pack (m²)
1.30	50	600	1200	6	4.32
1.95	75	600	1200	4	2.88
2.65	100	600	1200	3	2.16



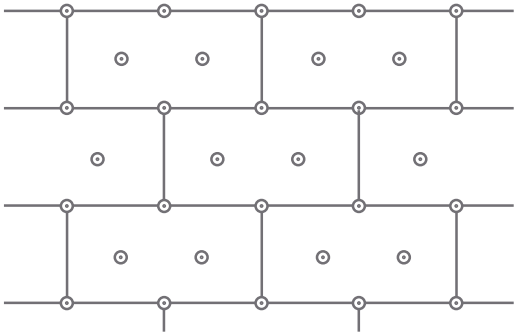
1	Adhesive mortar
2	**ROCKWOOL Facaderock**
3	Recessed mechanical fastener
4	Reinforced mortar
5	Fiberglass mesh
6	Base coat
7	Finishing coat

ROCKWOOL Facaderock

Technical Data Sheet
Exterior Insulation
1st November 2023

Design & 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.
- 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.



Layout of anchoring

OUTRIGHT
Continuous Insulation

North Island Phone: 027 449 6750
60D Leon Leicester Ave, Mt Wellington, Auckland

South Island Phone: 027 250 6832
76A Hayton Road, Wigram, Christchurch

FBS-1 MINERAL WOOL BIO SOLUBLE INSULATION ™

For more information contact www.outright.co.nz

ROCKWOOL Malaysia Sdn. Bhd.
Lot 4, Solok Waja 1, Bukit Raja Industrial Park,
41050 Klang, Selangor, Malaysia.

510 300 NZ-11/23 V1 (EN)