THERMAWOOL

Global Insulation Systems

One Solution, for everyone, everywhere

Engineered for Modern Construction

where the power of natural stone meets comfort

Product Catalogue **2026**

GLOBAL COVERAGE | CERTIFIED QUALITY | TRUSTED WORLDWIDE

A1 BBA kiwa ISO CE

Contents

BUILD SAFER & MORE EFFICIENT BUILDINGS

High-Performance Stone Wool Insulation Engineered for the Modern Construction

THERMAWOOL stone wool insulation is engineered to deliver fire safety, thermal efficiency and acoustic comfort across a wide range of building applications. Manufactured from natural volcanic basalt rock, THERMAWOOL insulation provides a durable and noncombustible solution for modern construction, supporting safer buildings and improved energy performance throughout the life of the structure.

From ventilated rainscreen facades and external wall insulation systems to floors, soffits, roofs and framed constructions, the THERMAWOOL range is designed to meet the demanding requirements of today's high-performance building envelope systems.

BUILT FOR PERFORMANCE

Fire Safety
Euroclass A1 non-combustible

Thermal Efficiency
Improved building energy performance.

Acoustic Comfort
Superior sound absorption & noise control

Durability
Consistent performance throughout the building lifecycle

Sustainability
Natural & recyclable materials

Stone Wool Insulation Engineered for Modern Construction

THERMAWOOL insulation is engineered as a complete building envelope solution:

- Ventilated Rainscreen Systems
- Steel & Timber Frame Structure
- Flat Roof and Parapet
- Open-joint façade
- Soffit and ceiling
- Acoustic Floors
- External wall insulation (EWI)
- Separation & acoustic floors
- Thermal Floors

" Where the power of natural stone meets comfort "

THERMAWOOL STONE WOOL INSULATION

Thermawool insulation boards are manufactured from volcanic basalt rock and classified Euroclass A1 non-combustible in accordance with **EN 13501-1**. Designed for façade and building envelope applications, it provides a combination of fire safety, thermal efficiency and acoustic performance within a single mineral wool solution. The open-fibre structure of stone wool allows vapour permeability, enabling breathable wall constructions while maintaining stable thermal performance throughout the building's lifetime. Thermawool insulation products incorporate a factory-applied hydrophobic treatment to reduce water absorption during construction and throughout the service life, while maintaining vapour permeability.

Stone wool insulation is resistant to temperatures exceeding 1000 C, does not contribute to fire growth and produces no flaming droplets, making it suitable for high-rise and high-risk buildings in accordance with current Building Regulations in UK and elsewhere.

THERMAWOOL By Application

1. **VENTILATED RAINSCREEN FACADES**
   RAINCLAD / RAINCLAD+
   DIMCLAD / DIMCLAD+
2. **SOFFIT AND CEILING**
   SOFFITCLAD
3. **EXTERNAL WALL INSULATION (EWI)**
   WALLCLAD
4. **FRAMED WALL CONSTRUCTIONS**
   FRAMECLAD
5. **FLOOR INSULATION**
   FLOORCLAD T / FLOORCLAD A
6. **ROOF INSULATION**
   ROOFCLAD

"**ONE**" SOLUTION FOR "**EVERY**" APPLICATION

THERMAWOOL PRODUCT FAMILY

The THERMAWOOL product family is organised by **application**, providing insulation solutions across all key areas of the building envelope:

PRODUCT	PRODUCT FAMILY	APPLICATION
RAINCLAD + **RAIN**CLAD+	VENTILATED FACADE	Ventilated facade insulation for rainscreen cladding systems, standard and customisable density configurations.
DIMCLAD + **DIM**CLAD+	VENTILATED FACADE	Open-joint facade insulation with black mineral fibre facing for visible joint systems, standard and engineered variants.
SOFFITCLAD	SOFFIT & CEILING	Non-combustible soffit and exposed ceiling insulation with optional tissue or aluminium foil facings.
WALLCLAD	EXTERNAL WALL	High-density insulation for external wall insulation systems (EWI), renders, bonded cladding and brick slip facades.
FRAMECLAD	FRAMED WALL	Friction-fit insulation for steel frame (SFS), timber frame and masonry infill wall constructions, providing reliable thermal and acoustic performance.
FLOORCLAD	FLOOR	Thermal and acoustic floor insulation for residential separation floors, suspended floors and concrete assemblies.
ROOFCLAD	ROOF	Flat roof and parapet insulation with dimensional stability for warm roof assemblies requiring noncombustible materials.

A1

COMPLETE NON-COMBUSTIBLE SYSTEM — Together, the THERMAWOOL product range forms a fully integrated insulation solution for the entire building envelope. All products achieve Euroclass A1 non-combustible classification in accordance with EN 13501-1.

PRODUCT DESCRIPTIONS & APPLICATIONS

Each Thermawool product has been developed to address specific construction applications while maintaining **Euroclass A1** non-combustible performance, vapour permeable and long-term dimensional stability.

FAÇADE INSULATION 01

RAINCLAD

Non-combustible stone wool insulation designed for ventilated rainscreen façade systems, providing reliable thermal insulation, acoustic absorption and fire protection within external wall constructions.

TYPICAL APPLICATIONS

— Ventilated rainscreen façade systems
— Cladding types including Brick slips, glass, zinc, ceramic, HPL, aluminium, terracotta, and composite panels
— Suitable for all building types, including high-rise residential and commercial buildings.
— New-build and façade refurbishment or replacement projects.

RAINCLAD+

Customisable Configuration

Customisable stone wool insulation for ventilated rainscreen facade systems, developed for projects requiring specific density and thickness configurations. Enables facade designers to optimise thermal, acoustic, and structural performance.

TYPICAL APPLICATIONS

— Complex façade systems requiring engineered insulation solutions.
— All buildings including High-rise developments with defined performance requirements
— Bespoke façade designs and specialist cladding systems

FAÇADE INSULATION 02

DIMCLAD

Stone wool insulation for open-joint and shadow-gap façades, featuring a black mineral fibre facing that provides a consistent visual appearance while resisting wind-driven rain, moisture, and UV exposure

TYPICAL APPLICATIONS

— Open-joint ventilated rainscreen façade systems
— Shadow-gap cladding systems
— Architectural façades with visible insulation layers
— Ventilated façade systems

DIMCLAD+

Engineered Variant

Customisable stone wool insulation for open joint and shadow gap facade systems, offering tailored density and thickness configurations to meet project- specific performance requirements.

TYPICAL APPLICATIONS

— Architectural façade systems with open joints
— Bespoke open joint ventilated rainscreen façade projects
— Façades requiring engineered insulation density and performance.

PRODUCT DESCRIPTIONS & APPLICATIONS

SOFFIT & CEILING INSULATION 03

SOFFITCLAD

Non-combustible stone wool insulation for soffit and exposed ceiling applications, delivering thermal performance, acoustic absorption and fire protection. Available with optional tissue or aluminium foil facings to provide a clean, and consistent appearance where insulation remains visible after installation.

TYPICAL APPLICATIONS

— Concrete soffits
— Car park ceilings
— Basement ceilings
— External walkways and overhangs
— Service areas and plant rooms
— Semi-exposed structural ceilings

EXTERNAL WALL INSULATION 04

WALLCLAD

High-density stone wool insulation for external wall insulation (EWI) systems and façade constructions where insulation is installed behind render or bonded cladding systems. The rigid mineral wool structure provides a stable substrate for façade finishes while maintaining vapour permeability within the wall build up.

TYPICAL APPLICATIONS

— Rendered external wall insulation systems (EWI)
— Structurally bonded brick slip systems
— Adhesive-fixed façade cladding systems
— Drained or ventilated façade constructions
— New-build and refurbishment projects

WALLCLAD+

Engineered Variant

Customisable high-density stone wall insulation for external wall and bonded facade systems, offering tailored density and thickness configurations to meet project specific performance and design

TYPICAL APPLICATIONS

— Rendered external wall insulation (EWI) systems with defined performance criteria.
— Structurally bonded brick slip and facade systems requiring engineered insulation.
— Adhesive-fixed cladding systems with project specific design requirements.
— Drained or ventilated façade constructions
— New-build and refurbishment projects

FRAMED WALL INSULATION 05

FRAMECLAD

Stone wool insulation developed for framed wall constructions, including steel frame systems (SFS), timber frame structures, and masonry infill wall assemblies. The flexible fibre structure enables friction-fit installation between framing members, helping to minimise gaps and reduce thermal bridging.

TYPICAL APPLICATIONS

— Steel frame system (SFS) external walls
— Timber frame wall constructions
— Composite panel systems infill
— Masonry infill wall systems
— Internal lining of external walls

PRODUCT DESCRIPTIONS & APPLICATIONS

FLOOR INSULATION 06

FLOORCLAD T

THERMAL

Stone wool insulation designed primarily to provide thermal insulation within floor constructions, improving energy efficiency and reducing heat loss through floor assemblies.

TYPICAL APPLICATIONS

— Intermediate floors within residential buildings
— Suspended timber floor constructions
— Concrete floor assemblies
— Floors requiring enhanced thermal performance

FLOORCLAD A

ACOUSTIC

Higher-density stone wool insulation designed to enhance acoustic performance within separation floors, reducing airborne sound transmission and impact noise between adjoining spaces.

TYPICAL APPLICATIONS

— Separation floors between residential units
— Floating floor constructions
— Acoustic floor systems
— Multi-storey residential, commercial and mixed-use buildings

ROOF INSULATION 07

ROOFCLAD

Non-combustible stone wool insulation designed for flat roof and parapet constructions, delivering thermal performance, fire resistance and dimensional stability in modern roof systems. The durable mineral fibre structure ensures reliable long-term performance within roof build-ups where noncombustible insulation is required.

TYPICAL APPLICATIONS

— Flat roof insulation systems
— Metal roof constructions
— Parapet wall insulation
— Warm roof assemblies
— Roof systems requiring non-combustible insulation

Complete Solutions for Stone Wool Insulation Requirements

Together, the THERMAWOOL product range provides comprehensive insulation solutions across the ENTIRE BUILDING ENVELOPE, enabling architects, engineers and contractors to specify a FULLY NONCOMBUSTIBLE INSULATION SYSTEM across FACADES, WALLS, FLOORS, ROOFS and STRUCTURAL ELEMENTS.

THERMAWOOL insulation combines FIRE SAFETY, THERMAL PERFORMANCE, ACOUSTIC COMFORT and LONG-TERM DURABILITY.

Key Advantages:

- Euroclass A1 non-combustible fire performance in accordance with EN13501-1
- High thermal performance contributing to improved energy efficiency
- Suitable for all buildings types, including above 18 metres, in accordance with UK and worldwide regulations
- Excellent acoustic absorption properties
- Vapour-permeable open fibre structure supporting breathable wall constructions
- Hydrophobic treatment to reduce water absorption (RAINCLAD & WALLCLAD range)
- Optimised density for secure mechanical fixing
- Easy installation around facade brackets, EWI systems and sub-structures
- Compatible with rainscreen, EWI, framed wall, floor, roof and soffit applications
- Supported by independent third- party testing and certification.

PERFORMANCE OVERVIEW

THERMAWOOL insulation products provide reliable thermal, acoustic, and fire performance across a wide range of building-envelope applications.

Non-Combustible Fire Performance
Thermawool stone wool insulation achieves Euroclass A1 reaction to fire classification in accordance with EN 13501-1 and is suitable for use in non-combustible facade constructions.

Thermal Performance
Thermawool stone wool insulation delivers high thermal performance across the full product range, contributing to low U-values and improved energy efficiency in wall, floor, roof, soffit and framed construction assemblies.

Acoustic Performance
The open fibre structure of stone wool provides high sound absorption and helps reduce airborne sound transmission through wall and floor constructions.

Water Repellence
Thermawool insulation incorporates a hydrophobic treatment to reduce water absorption during construction and throughout the service life.

Condensation control
Vapour-permeable insulation allows moisture vapour to pass through the construction, reducing the risk of interstitial condensation.

Mechanical Stability
The optimised density and fibre structure provide a stable and robust insulation layer, supporting secure fixing and consistent performance within construction systems.

Durability
Thermawool insulation maintains its thermal and mechanical properties for the lifetime of the building.

Wind Resistance
Tested to withstand wind loading within ventilated façade systems while maintaining dimensional stability.

High-Rise Suitability
Suitable for buildings of all heights, including those exceeding 18 metres, when used within compliant non-combustible construction systems.

Tissue Facing

Uniform appearance

Open-Joint Systems

Visible façade insulation

Sustainability
Thermawool slabs are natural and widely recyclable.

RAINCLAD

Non-Combustible Mineral Wool Insulation for Ventilated Rainscreen Systems

λ = 0.034-35 W/mK	60 kg/m³	Euroclass A1	Any Height
THERMAL CONDUCTIVITY	NOMINAL DENSITY	REACTION TO FIRE	HEIGHT SUITABILITY Incl. buildings above 18m - UK regs

Thermawool Rainclad is a non-combustible stone wool insulation board designed for use within ventilated rainscreen façade systems. Manufactured from volcanic basalt rock, Rainclad provides reliable thermal insulation, fire resistance and acoustic absorption within external wall constructions.

The product incorporates a factory-applied hydrophobic treatment to reduce water absorption during installation while maintaining vapour permeability within the wall build-up. With a nominal density of 60 kg/m³ and a declared thermal conductivity of λ = 0.034-35 W/mK, Rainclad delivers high-performance thermal insulation suitable for modern façade systems.

Rainclad insulation is suitable for buildings of any height, including those exceeding 18 metres, when used within compliant non-combustible façade constructions.

KEY FEATURES

Non-Combustible Fire Performance

EuroclassA1 classification ensures the insulation does not contribute to fire growth.

Euroclass A1 — EN 13501-1

Thermal Performance

Low thermal conductivity supports improved building energy efficiency.

λ = 0.035 W/mK declared

Acoustic Performance

The open fibre structure provides high sound absorption and reduce airborne sound transmission through wall and floor

Water Repellence

hydrophobic treatment reduce water absorption during construction and throughout the service life.

Condensation control

Vapour-permeable insulation allows moisture vapour to pass through the construction, reducing the risk of interstitial condensation.

Wind Resistance

withstand wind loading while maintaining dimensional stability.

High-Rise Suitability

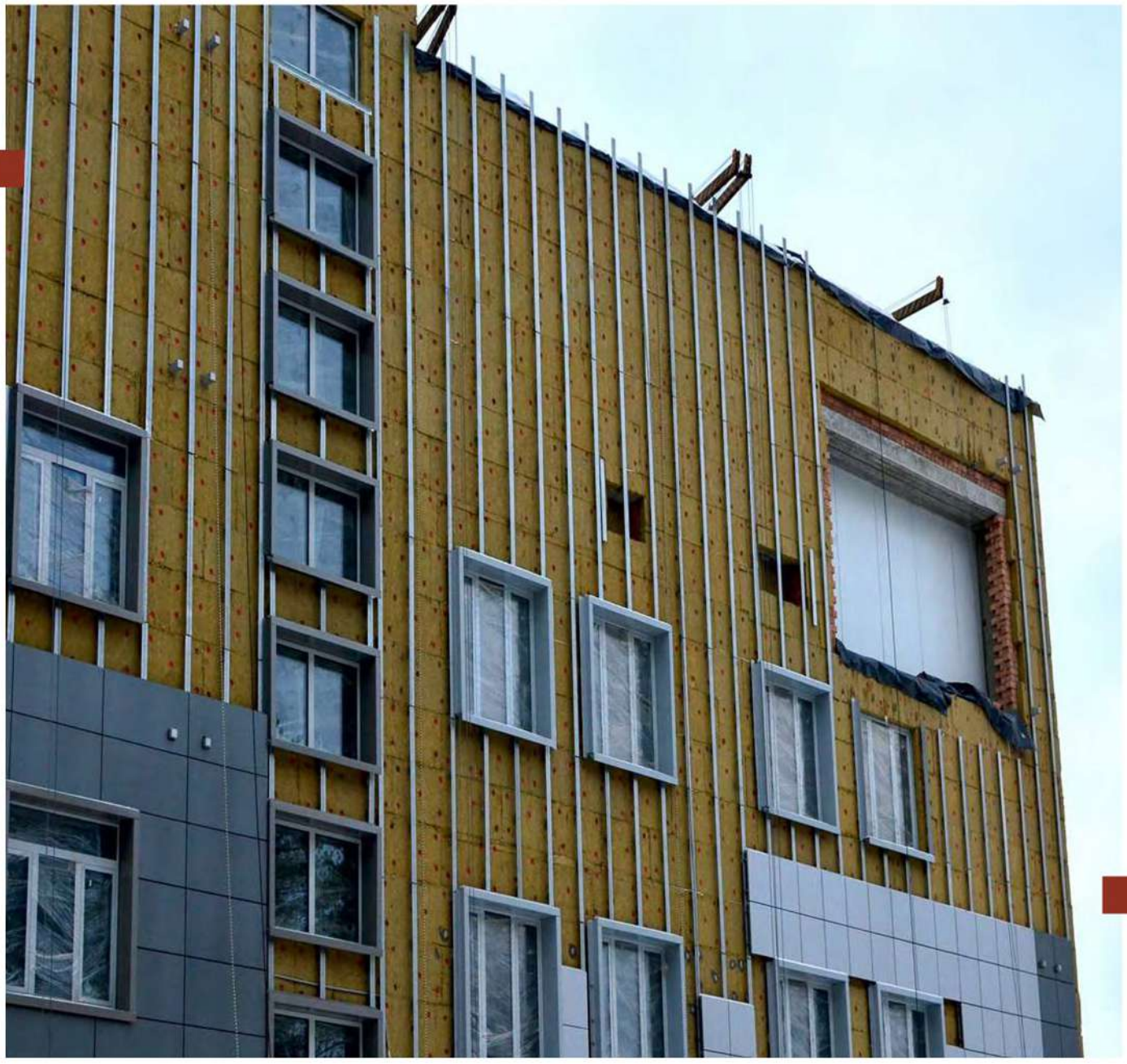
Suitable for buildings of all heights, including those exceeding 18 metres.

Durability

maintains its thermal and mechanical properties for the lifetime of the building.

TYPICAL APPLICATIONS

- Ventilated rainscreen façade systems.
- Aluminium, steel & composite panel cladding sytems.
- Terracotta, ceramic & stone facade systems.
- Fibre cement cladding systems.
- Brick slip and lightweight facade systems.
- Open-joint and closed-joint facade systems.
- Suitable for residential and commercial developments, including high-rise buildings.
- New-build & façade refurbishment.



RAINCLAD +

CUSTOMISABLE Non-Combustible Stone Wool Insulation for Ventilated Rainscreen Systems

DENSITY & THICKNESS

THERMAWOOL RAINCLAD+ is an engineered non-combustible stone wool insulation board developed for ventilated rainscreen façade systems requiring project-specific density and thickness configurations.

Designed for complex façade constructions, RAINCLAD+ enables architects and façade engineers to optimise thermal
performance, structural rigidity, and fixing requirements to suit individual project conditions.

Manufactured from natural volcanic basalt and incorporating a factory-applied hydrophobic treatment, RAINCLAD+ provides thermal insulation, fire resistance, and acoustic absorption within external wall assemblies. With declared thermal conductivity values from λ = 0.035 W/mK, RAINCLAD+ delivers high-performance insulation for complex façade systems and bespoke building designs.

RAINCLAD+ is suitable for use in buildings of all heights, including high-rise developments, when used within compliant non-combustible façade constructions in accordance with UK Building Regulations (Approved Document B).

KEY FEATURES

Non-Combustible Fire Performance

EuroclassA1 classification ensures the insulation does not contribute to fire growth.

Euroclass A1 — EN 13501-1

Thermal Performance

Low thermal conductivity supports improved building energy efficiency.

λ = 0.035 W/mK declared

Acoustic Performance

The open fibre structure provides high sound absorption and reduce airborne sound transmission through wall and floor

Water Repellence

hydrophobic treatment reduce water absorption during construction and throughout the service life.

Condensation control

Vapour-permeable insulation allows moisture vapour to pass through the construction, reducing the risk of interstitial condensation.

Wind Resistance

withstand wind loading while maintaining dimensional stability.

High-Rise Suitability

Suitable for buildings of all heights, including those exceeding 18 metres.

Durability

maintains its thermal and mechanical properties for the lifetime of the building.

TYPICAL APPLICATIONS

Rainclad+ insulation is suitable for use in:

- **Ventilated rainscreen façade systems requiring engineered insulation performance**
- **Façade systems requiring customised density or thickness**
- **Complex façade geometries and bespoke building designs**
- **High-rise buildings with defined structural or thermal performance requirements**
- **Specialist façade systems requiring enhanced fixing performance or rigidity**

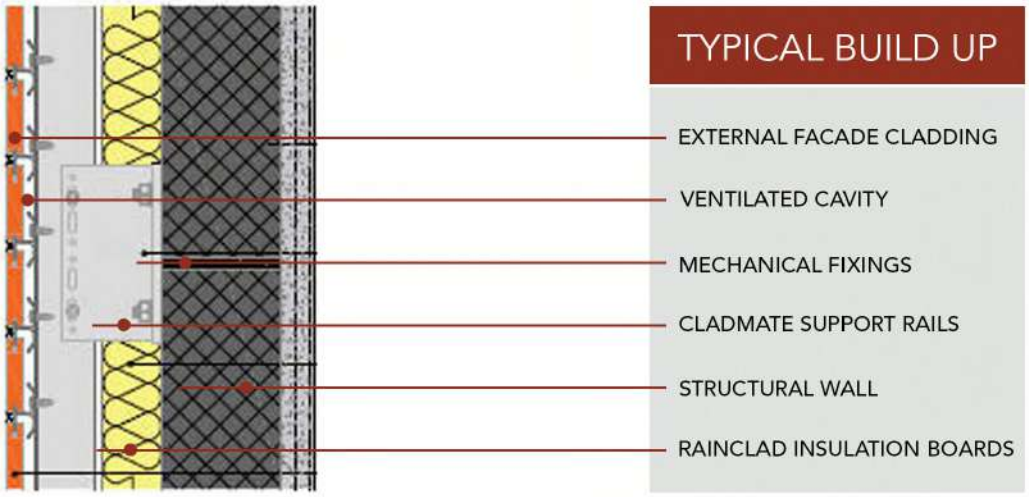
PRODUCT COMPARISON

FEATURE	RAINCLAD	RAINCLAD +
Application	standard ventilated r ainscreen facade	Engineered rainscreen facade systems
Density Options	60Kg/m3	Customisable density
Thickness Options	50-225 mm	Customisable thickness
Typical Projects	General facade applications	Complex or bespoke projects
Reaction to Fire	Euroclass A1	Euroclass A1

TECHNICAL PROPERTIES

Rainclad insulation boards are installed directly against the structural wall and mechanically fixed through the insulation into the substrate.

The insulation layer is installed behind the Cladmate and other cladding support rail systems, which creates the ventilated cavity and supports the external cladding.



CLADMATE

TECHNICAL DATA SHEET

THERMAWOOL

Product Name	**RAINCLAD**											
Standard	Thermal insulation products for buildings - Factory made of mineral wool (MW) products - Specification											
Description	Mineral wool - Thermal insulation material formed by melting basalt stone at 1350°C-1400°C into fiber - for thermal, sound and fire insulation product											
Surface Facing	**Uncoated / PE film packing**											
Area of Usage	Ideal for building façades with ventilated rainscreens, offering thermal performance, sound reduction, and fire protection											
Product Performance	**Technical Characteristics**	**Test Method**	**Units**	**Value or Statement**								
	Thickness / d	EN ISO 29466	mm	50-225								
	Nominal Density		$kg \cdot m^{-3}$	60								
	Tolerances - T4	-3% or -3 mm; +5% or +5mm. - absolute large value in tolerance, + absolute small value in tolerance.										
	Length / l	EN ISO 29465	mm	1200								
	Tolerances ±2 %											
	Width/ b	EN ISO 29465	mm	600								
	Tolerances ±1,5 %											
	Squareness Deviation / Sb	EN 824	mm/m	max.5								
	Surface Smoothness / Smax	EN ISO 29468	mm	max.6								
	Thermal Conductivity / λd	BS EN 13162: 2012	W/m.K	0.034 - 0.035								
	Thermal Resistance / R_d EN 12667 EN 12939		mm	50	60	75	80	90	100	110	120	125	130
			$(m^2.K)/W$	1.47	1.75	2.19	2.34	2.63	2.91	3.20	3.49	3.64	3.78
			mm	140	150	160	170	180	190	200	220	225	
			$(m^2.K)/W$	4.06	4.35	4.63	4.91	5.19	5.47	5.75	6.31	6.44	
	Fire Reaction Class	EN 13501-1: 2018	Euroclass	A1								
	Short Term Water Absorption/ WS	**BS EN 1609**	kg/m^2	≤1								
	Long Term Water Absorption/ WL(P)	**BS EN 1609**	kg/m^2	≤3								
	Water Vapour Resistivity	EN ISO 10456 : 2007	MN·s·g−1·m−1	5								
	Dimensional stability	EN 1604: 2013		≤ 1%								
	Acoustic performance		dB	up to 55-62								
Storage	The products should be stocked closed. If the storage area is open, the entire surface of the packages must be covered with cover or tarpaulin.											
	Product packages should be protected from water, moisture and sunlight in the storage area.											
	Appropriate work safety clothing and equipment must be used to protect the skin, eye and upper respiratory system during transport.											
	Product packages should be placed on at least one pallet which should not be in direct contact with the ground at storage area.											
	Products must be covered with a tarpaulin when shipped.											
	Do not leave any material on the products in such a way as to damage the package and the product.											
	Palletized products should not be stacked and stored on top of each other.											
	The opened packages must not be disposed of and must be disposed of in accordance with the regulations.											

DIMCLAD

Open-Joint Rainscreen Insulation with Black Tissue Facing

λ = 0.039 W/mK	60 kg/m³	Euroclass A1	Any Height
THERMAL CONDUCTIVITY	NOMINAL DENSITY	REACTION TO FIRE	HEIGHT SUITABILITY Incl. buildings above 18m - UK regs

THERMAWOOL DIMCLAD is a non-combustible stone wool insulation board designed for use within open-joint and shadow-gap rainscreen façade systems, where the insulation layer may be visible through façade joints.

Manufactured from natural volcanic basalt, DIMCLAD incorporates a black mineral fibre tissue facing that provides a uniform appearance behind open façades while maintaining the non-combustible performance of stone wool insulation. The black facing enhances the visual appearance of ventilated façades where panel gaps or open joints expose the insulation layer, while also providing resistance to wind-driven rain, moisture, and UV exposure without degradation. With a nominal density of 60 kg/m³ and a declared thermal conductivity of λ = 0.039 W/mK, DIMCLAD delivers thermal insulation, fire resistance, and acoustic absorption within ventilated façade constructions.

DIMCLAD also incorporates a factory-applied hydrophobic treatment to reduce water absorption during installation, while maintaining vapour permeability within the wall build-up. It is suitable for use in buildings of all heights, including high-rise developments, when used within compliant non-combustible façade constructions in accordance with UK Building Regulations (Approved Document B).

KEY FEATURES

Non-Combustible Fire Performance

EuroclassA1 classification ensures the insulation does not contribute to fire growth.

Euroclass A1 EN 13501-1

Thermal Performance

Low thermal conductivity supports improved building energy efficiency.

λ = 0.035 W/mK declared

Acoustic Performance

The open fibre structure of stone wool provides high sound absorption and helps reduce airborne sound transmission through wall and floor constructions.

Water Repellence

hydrophobic treatment to reduce water absorption during construction and throughout the service life.

Condensation control

Vapour-permeable insulation allows moisture vapour to pass through the construction, reducing the risk of interstitial condensation.

Wind Resistance

withstand wind loading while maintaining dimensional stability.

High-Rise Suitability

Suitable for buildings of all heights, including those exceeding 18 metres.

Open-Joint Systems

Visible façade insulation

Tissue Facing

Uniform appearance

Durability

maintains its thermal and mechanical properties for the lifetime of the building.

TYPICAL APPLICATIONS

- Open-joint and shadow-gap facade systems
- Architectural façade designs with visible insulation layers.
- Ventilated rainscreen facade systems with exposed insulation zones.
- High-rise residential and commercial developments.
- Facade systems requiring enhanced visual consistency behind open joints.

DIMCLAD +

CUSTOMISABLE Tissue Facing Stone Wool Insulation for Ventilated Rainscreen Systems

DENSITY & THICKNESS

Enhanced Open-Joint Rainscreen Insulation with Black Tissue Facing

THERMAWOOL DIMCLAD+ is an engineered version of DIMCLAD, developed for ventilated rainscreen façade systems requiring project-specific density and thickness configurations. Incorporating a black mineral fibre tissue facing, DIMCLAD+ provides a uniform aesthetic behind open-joint cladding systems while maintaining Euroclass A1 noncombustible performance.

DIMCLAD+ enables façade engineers and designers to optimise insulation performance, rigidity, and fixing characteristics to suit complex façade systems and bespoke building designs.

The product incorporates a factory-applied hydrophobic treatment to reduce water absorption while maintaining vapour permeability within the façade build-up.
With declared thermal conductivity values from $\lambda = 0.039$ W/mK, DIMCLAD+ delivers high-performance insulation suitable for complex or engineered façade applications.

DIMCLAD+ is suitable for use in buildings of all heights, including high-rise developments, when used within compliant non-combustible facade constructions in accordance with UK Building Regulations (Approved Document B).

TYPICAL APPLICATIONS

- **Open-joint façade systems requiring custom insulation density or thickness**
- **Architectural façade designs with visible insulation layers**
- **Complex rainscreen façade geometries**
- **High-rise buildings with defined structural or thermal performance.**
- **Specialist façade systems requiring enhanced fixing performance or rigidity.**

KEY FEATURES

Non-Combustible Fire Performance

EuroclassA1 classification ensures the insulation does not contribute to fire growth.

Euroclass A1 EN 13501-1

Thermal Performance

Low thermal conductivity supports improved building energy efficiency.

$\lambda = 0.035$ W/mK declared

Acoustic Performance

The open fibre structure of stone wool provides high sound absorption and helps reduce airborne sound transmission through wall and floor constructions.

Water Repellence

hydrophobic treatment to reduce water absorption during construction and throughout the service life.

Condensation control

Vapour-permeable insulation allows moisture vapour to pass through the construction, reducing the risk of interstitial condensation.

Wind Resistance

withstand wind loading while maintaining dimensional stability.

High-Rise Suitability

Suitable for buildings of all heights, including those exceeding 18 metres.

Open-Joint Systems

Visible façade insulation

Tissue Facing

Uniform appearance

Durability

maintains its thermal and mechanical properties for the lifetime of the building.

CLADMATE

TECHNICAL DATA SHEET

THERMAWOOL

Product Name	**RAINCLAD**
Standard	Thermal insulation products for buildings - Factory made of mineral wool (MW) products - Specification
Description	Mineral wool - Thermal insulation material formed by melting basalt stone at 1350°C-1400°C into fiber - for thermal, sound and fire insulation product
Surface Facing	**Uncoated / PE film packing**
Area of Usage	Ideal for building façades with ventilated rainscreens, offering thermal performance, sound reduction, and fire protection

Product Performance

Technical Characteristics	Test Method	Units	Value or Statement
Thickness / d	EN ISO 29466	mm	50-225
Nominal Density		$kg \cdot m^{-3}$	**60**
Tolerances - T4	-3% or -3 mm; +5% or +5mm. - absolute large value in tolerance, + absolute small value in tolerance.		
Length / l	EN ISO 29465	mm	1200
Tolerances ±2 %			
Width/ b	EN ISO 29465	mm	600
Tolerances ±1,5 %			
Squareness Deviation / Sb	EN 824	mm/m	max.5
Surface Smoothness / Smax	EN ISO 29468	mm	max.6
Thermal Conductivity / λd	BS EN 13162: 2012	W/m.K	0.034 - 0.035

Thermal Resistance / R_d EN 12667 EN 12939											
	mm	50	60	75	80	90	100	110	120	125	130
	$(m^2.K)/W$	1.47	1.75	2.19	2.34	2.63	2.91	3.20	3.49	3.64	3.78
	mm	140	150	160	170	180	190	200	220	225	
	$(m^2.K)/W$	4.06	4.35	4.63	4.91	5.19	5.47	5.75	6.31	6.44	

Fire Reaction Class	EN 13501-1: 2018	Euroclass	A1
Short Term Water Absorption/ WS	**BS EN 1609**	kg/m^2	≤1
Long Term Water Absorption/ WL(P)	**BS EN 1609**	kg/m^2	≤3
Water Vapour Resistivity	EN ISO 10456 : 2007	MN·s·g−1·m−1	5
Dimensional stability	EN 1604: 2013		≤ 1%
Acoustic performance		dB	up to 55-62

Storage

The products should be stocked closed. If the storage area is open, the entire surface of the packages must be covered with cover or tarpaulin.
Product packages should be protected from water, moisture and sunlight in the storage area.
Appropriate work safety clothing and equipment must be used to protect the skin, eye and upper respiratory system during transport.
Product packages should be placed on at least one pallet which should not be in direct contact with the ground at storage area.
Products must be covered with a tarpaulin when shipped.
Do not leave any material on the products in such a way as to damage the package and the product.
Palletized products should not be stacked and stored on top of each other.
The opened packages must not be disposed of and must be disposed of in accordance with the regulations.

SOFFITCLAD

Non-Combustible Stone Wool Insulation for Soffit and Exposed Ceiling Applications

λ = 0.0364 W/mK	100 kg/m³	Euroclass A1	Any Height
THERMAL CONDUCTIVITY	NOMINAL DENSITY	REACTION TO FIRE	HEIGHT SUITABILITY Incl. buildings above 18m - UK regs

THERMAWOOL SOFFITCLAD is a non-combustible stone wool insulation board designed for soffit and exposed ceiling applications, delivering thermal insulation, acoustic absorption, and fire resistance.

Manufactured from natural volcanic basalt, SOFFITCLAD provides thermal performance, acoustic control, and fire protection within concrete soffits and exposed structural ceilings.

The product is particularly suited to open or semi-exposed environments where the insulation remains visible after installation, such as car parks, basements, service areas, and external overhangs.

SOFFITCLAD is available with a range of optional surface finishes to meet both functional and Aesthetic requirements, including:

Unfaced stone wool slab | White tissue facing | Black tissue facing | Aluminium foil facing

KEY FEATURES

Non-Combustible Fire Performance

EuroclassA1 classification ensures the insulation does not contribute to fire growth.

Euroclass A1 EN 13501-1

Thermal Performance

Low thermal conductivity supports improved building energy efficiency.

λ = 0.035 W/mK declared

Acoustic Performance

The open fibre structure of stone wool provides high sound absorption and helps reduce airborne sound transmission through wall and floor constructions.

Water Repellence

hydrophobic treatment to reduce water absorption during construction and throughout the service life.

Condensation control

Vapour-permeable insulation allows moisture vapour to pass through the construction, reducing the risk of interstitial condensation.

Wind Resistance

withstand wind loading while maintaining dimensional stability.

High-Rise Suitability

Suitable for buildings of all heights, including those exceeding 18 metres.

Tissue Facing

Uniform appearance

Durability

maintains its thermal and mechanical properties for the lifetime of the building.

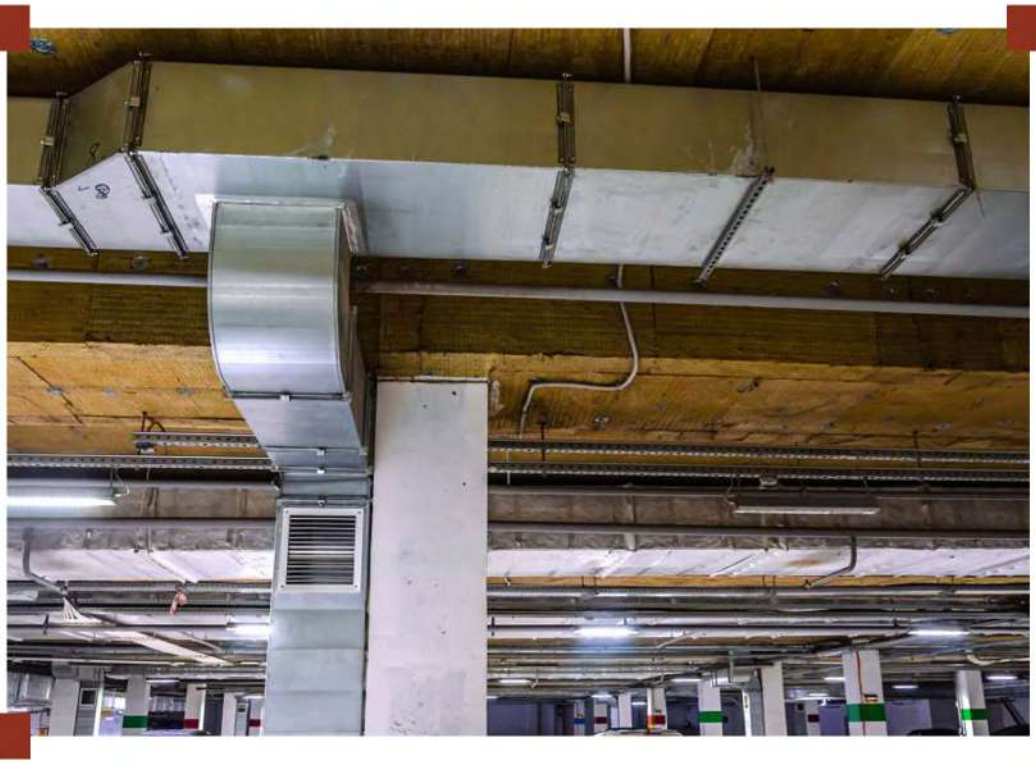
SOFFITCLAD

These facing options allow the insulation to remain exposed while maintaining a clean and consistent appearance.

With a declared thermal conductivity of λ = 0.0364 W/mK, SOFFITCLAD delivers effective thermal performance, while the open fibre structure provides excellent sound absorption, helping to reduce noise levels in large open spaces.

SOFFITCLAD can be mechanically fixed or friction-fitted to soffit structures and can be easily cut on site to accommodate service penetrations and irregular geometries.

SOFFITCLAD achieves Euroclass A1 reaction to fire classification in accordance with EN 13501-1 and is suitable for use in buildings of all heights, including high-rise developments, in accordance with UK Building Regulations (Approved Document B).



TYPICAL APPLICATIONS

- Concrete soffits
- Car park ceilings
- Basement ceilings
- External overhangs and walkways
- Service areas and plant rooms
- Semi-exposed structural ceilings

SOFFITCLAD

TECHNICAL DATA SHEET

CLADMATE	TECHNICAL DATA SHEET THERMAWOOL			
Product Name	**SOFFITCLAD**			
Standard	Thermal insulation products for buildings - Factory made of mineral wool (MW) products - Specification			
Description	Mineral wool - Thermal insulation material formed by melting basalt stone at 1350°C-1400°C into fiber - for thermal, sound and fire insulation product			
Surface Facing	Not faced			
Area of Usage	For soffits and exposed ceilings in open or semi-open areas requiring thermal insulation, acoustic absorption, and fire resistance.			
Product Performance	**Technical Characteristics**	**Test Method**	**Units**	**Value or Statement**
	Thickness / d	EN ISO 29466	mm	50-220
	Nominal Density		kg·m⁻³	100
	Tolerances - T4	-3% or -3 mm; +5% or +5mm. - absolute large value in tolerance, + absolute small value in tolerance.		
	Length / l	EN ISO 29465	mm	1200
	(Tolerances) ±2 %			
	Width/ b	EN ISO 29465	mm	600
	(Tolerances) ±1,5 %			
	Squareness/ S_b	EN 824	mm/m	max.5
	Flatness/ S_{max}	EN ISO 29468	mm	max.6
	Thermal Conductivity / λd	BS EN 13162: 2012	W/m.K	0.0364
	Thermal Resistance / R_c	EN 12667 EN 12939	mm	50, 130, 160, 180, 200, 220
			(m².K)/W	1.37, 3.57, 4.40, 4.95, 5.49, 6.04
	Fire Reaction Class	EN 13501-1: 2018	Euroclass	A1
	Short Term Water Absorption/ WS	**BS EN 1609**	kg/m²	≤1
	Long Term Water Absorption/ WL(P)	**BS EN 1609**	kg/m²	≤3
	Water Vapour Resistivity	EN ISO 10456 : 2007	MN·s·g–1·m–1	5
	Dimensional stability	EN 1604: 2013		≤ 1%
	Acoustic performance		dB	50-62
Storage	The products should be stocked closed. If the storage area is open, the entire surface of the packages must be covered with cover or tarpaulin.			
	Product packages should be protected from water, moisture and sunlight in the storage area.			
	Appropriate work safety clothing and equipment must be used to protect the skin, eye and upper respiratory system during transport.			
	Product packages should be placed on at least one pallet which should not be in direct contact with the ground at the storage area.			
	Products must be covered with a tarpaulin when shipped.			
	Do not leave any material on the products in such a way as to damage the package and the product.			
	Palletized products should not be stacked and stored on top of each other.			
	The opened packages must not be disposed of and must be disposed of in accordance with the regulations.			

WALLCLAD

Stone Wool Insulation for External Wall Insulation Systems (EWI)

$\lambda = 0.0364$ W/mK	120 & 140 kg/m³	Euroclass A1	Any Height
THERMAL CONDUCTIVITY	NOMINAL DENSITY	REACTION TO FIRE	HEIGHT SUITABILITY Incl. buildings above 18m - UK regs

THERMAWOOL WALLCLAD is a high-density stone wool insulation board designed for use within external wall insulation (EWI) systems and façade constructions where insulation is installed directly behind render, bonded cladding, or other façade finishes.

Manufactured from natural volcanic basalt and compliant with EN 13162, WALLCLAD provides thermal insulation, acoustic performance, and non-combustible fire protection within external wall constructions.

The dense and dimensionally stable structure provides a robust substrate for direct surface applications, including render systems, structurally bonded brick slip systems, and adhesive-fixed façade finishes such as tiles, ceramic panels, and thin masonry units.

WALLCLAD incorporates a factory-applied hydrophobic treatment to reduce water absorption during installation, while maintaining vapour permeability within the wall build-up, helping to control condensation and moisture migration.

The product is suitable for use in unventilated external wall insulation systems, as well as drained or ventilated façade constructions, depending on the project design and cladding configuration.

KEY FEATURES

Non-Combustible Fire Performance

EuroclassA1 classification ensures the insulation does not contribute to fire growth.

Euroclass A1 — EN 13501-1

Thermal Performance

Low thermal conductivity supports improved building energy efficiency.

$\lambda = 0.035$ W/mK declared

Acoustic Performance

The open fibre structure provides high sound absorption and reduce airborne sound transmission through wall and floor

Water Repellence

hydrophobic treatment reduce water absorption during construction and throughout the service life.

Condensation control

Vapour-permeable insulation allows moisture vapour to pass through the construction, reducing the risk of interstitial condensation.

Mechanical Stability

The optimised density and fibre structure provide a stable and robust insulation layer, supporting secure fixing and consistent performance within construction systems.

High-Rise Suitability

Suitable for buildings of all heights, including those exceeding 18 metres.

Durability

maintains its thermal and mechanical properties for the lifetime of the building.

WALLCLAD IS AVAILABLE IN TWO DENSITY OPTIONS

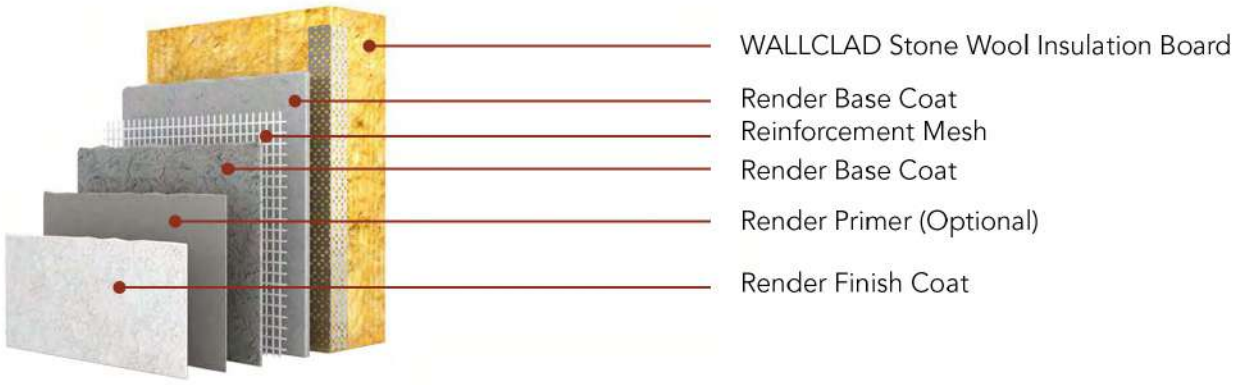
" 120 kg/m³ and 140 kg/m³ " allowing designers and façade engineers to select the appropriate performance based on structural loading, acoustic requirements, and the selected façade system.

The robust mineral wool structure provides a stable substrate for façade finishes while accommodating both bonded and mechanically supported systems.

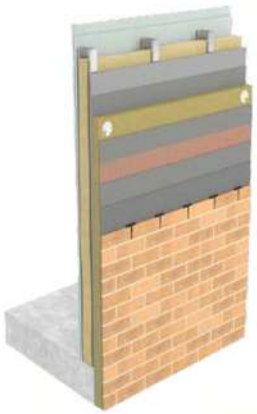
WALLCLAD achieves Euroclass A1 reaction to fire classification in accordance with EN 13501-1 and is suitable for use in buildings of all heights, including high-rise developments, in accordance with UK Building Regulations (Approved Document B).

TYPICAL APPLICATIONS

- Rendered external wall insulation (EWI) systems.
- Structurally bonded brick slip systems
- Adhesive-fixed facade cladding systems
- Drained EWI facade constructions
- Ventilated EWI facade systems
- Hybrid EWI cladding systems
- New build and refurbishment projects



COMPATIBLE CLADMATE SYSTEMS



1. BRICKCLAD CMS50A - EWI ADHESIVELY BONDED CLADDING SYSTEM

2. BRICKCLAD CMS50S - EWI STRUCTURALLY BONDED CLADDING SYSTEM

3. RENDERCLAD CMS50R - EWI RENDER SYSTEM

CLADMATE

TECHNICAL DATA SHEET

THERMAWOOL

Product Name	**WALLCLAD**
Standard	Thermal insulation products for buildings - Factory made mineral wool (MW) products - Specification
Description	Mineral wool - Thermal insulation material formed by melting of basalt stone at 1350°C-1400°C into fiber - for thermal, sound and fire insulation product
Surface Facing	Not faced
Area of Usage	Premium F series EWI insulation enhances thermal performance while providing sound insulation and fire-safe exterior protection.

Product Performance

Technical Characteristics	Test Method	Units	Value or Statement
Thickness / d	EN ISO 29466	mm	30-250
Tolerances - T5	-1% or -1 mm; +3mm. - absolute large value in tolerance.		
Length / l	EN ISO 29465	mm	1200
Tolerances ±2 %			
Width/ b	EN ISO 29465	mm	600
Tolerances ±1,5 %			
Squareness/ S_b	EN 824	mm/m	max.5
Flatness/ S_{max}	EN ISO 29468	mm	max.6
Density / D	EN ISO 29470	kg/m³	120
Tolerances ±10 %			
Thermal Conductivity	BS EN 13162	W/m.K	0.0364

Thermal Resistance / R_d EN 12667 EN 12939														
mm	50	60	70	80	90	100	110	120	130	140	150	160	170
(m².K)/W	1.37	1.64	1.92	2.19	2.47	2.74	3.02	3.29	3.57	3.84	4.12	4.39	4.67
mm	180	190	200	210	220	230	240	250					
(m².K)/W	4.94	5.21	5.49	5.76	6.04	6.31	6.59	6.86					

Density / D	EN ISO 29470	kg/m³	140
Tolerances ±10 %			
Thermal Conductivity	BS EN 13162	W/m.K	0.0364

Thermal Resistance / R_d EN 12667 EN 12939														
mm	30	40	50	60	70	80	90	100	110	120	130	140	150
(m².K)/W	0.82	1.09	1.37	1.64	1.92	2.19	2.47	2.74	3.02	3.29	3.57	3.84	4.12
mm	160	170	180	190	200								
(m².K)/W	4.39	4.67	4.94	5.21	5.49								

Point Load	EN 12430	N	NPD	
Compressive stress at 10% deformation (σ10)	BS EN ISO 29469	kPa	120 kg/m³	CS (10)30
			140 kg/m³	CS (10)40
Fire Reaction Class	BS EN 13501-1:2018	Euroclass	A1	
Tensile strength perpendicular to faces (σmt)	BS EN 1607	kPa	TR10	
Short Term Water Absorption/ WS	BS EN ISO 29767	kg/m²	≤1	
Long Term Water Absorption/ WL(P)	BS EN ISO 16535	kg/m²	≤3	
Determination of dimensional stability under specified temperature	EN 1604	-	DS(70,90)	
Water Vapour Diffusion resistance coefficient	EN 12086	μ	1	
Air Flow Resistance/ Afr	EN 29053	-	NPD	
Acoustic		dB	55-63	

Storage

- The products should be stocked closed. If the storage area is open, the entire surface of the packages must be covered with cover or tarpaulin.
- Product packages should be protected from water, moisture and sunlight in the storage area.
- Appropriate work safety clothing and equipment must be used to protect the skin, eye and upper respiratory system during transport.
- Product packages should be placed on at least one pallet which should not be in direct contact with the ground at storage area.
- Products must be covered with a tarpaulin when shipped.
- Do not leave any material on the products in such a way as to damage the package and the product.
- Palletized products should not be stacked and stored on top of each other.
- The opened packages must not be disposed of and must be disposed of in accordance with the regulations.

FRAMECLAD

Stone Wool Insulation for Framed Wall Constructions

λ = 0.035 W/mK	50 kg/m³	Euroclass A1	Incl. Above 18m
THERMAL CONDUCTIVITY	NOMINAL DENSITY	REACTION TO FIRE	HEIGHT SUITABILITY

THERMAWOOL FRAMECLAD is a non-combustible stone wool insulation board designed for use within framed wall constructions, including steel frame systems (SFS) , timber frame structures, and masonry infill wall assemblies. Modern construction commonly utilises reinforced concrete or structural steel frames, with external wall systems formed using steel framing systems (SFS) or masonry infill panels, onto which the façade build-up is applied. In other building types, the primary structure may be formed entirely from timber or steel framing systems.

FRAMECLAD has been developed specifically for these applications, delivering thermal insulation, acoustic absorption, and fire performance within framed wall constructions.
Manufactured from natural volcanic basalt, FRAMECLAD features a optimal dense, non-directional fibre structure that enables friction-fit installation between studs and framing members, accommodating minor tolerances while helping to minimise gaps and reduce thermal bridging.

With declared thermal conductivity values from □ = 0.035 W/mK, FRAMECLAD contributes to achieving low U-values in thru- wall constructions, while the open fibre structure provides excellent sound absorption, improving acoustic comfort within buildings.

FRAMECLAD achieves Euroclass A1 reaction to fire classification in accordance with EN 13501-1 and is suitable for use in buildings of all heights, including high-rise developments, when used within compliant façade systems in accordance with UK Building Regulations (Approved Document B) .

The product is engineered with an optimised density that ensures ease of installation while maintaining high thermal and acoustic performance, providing an effective insulation solution within framed wall systems.

SFS & Timber Frame | Easy install between studs | Minimises thermal bridging

KEY FEATURES

Non-Combustible Fire Performance

EuroclassA1 classification ensures the insulation does not contribute to fire growth.

Euroclass A1 EN 13501-1

Thermal Performance

Low thermal conductivity supports improved building energy efficiency.

λ = 0.035 W/mK declared

Acoustic Performance

The open fibre structure of stone wool provides high sound absorption and helps reduce airborne sound transmission through wall and floor constructions.

Condensation control

Vapour-permeable insulation allows moisture vapour to pass through the construction, reducing the risk of interstitial condensation.

High-Rise Suitability

Suitable for buildings of all heights, including those exceeding 18 metres.

Sustainability

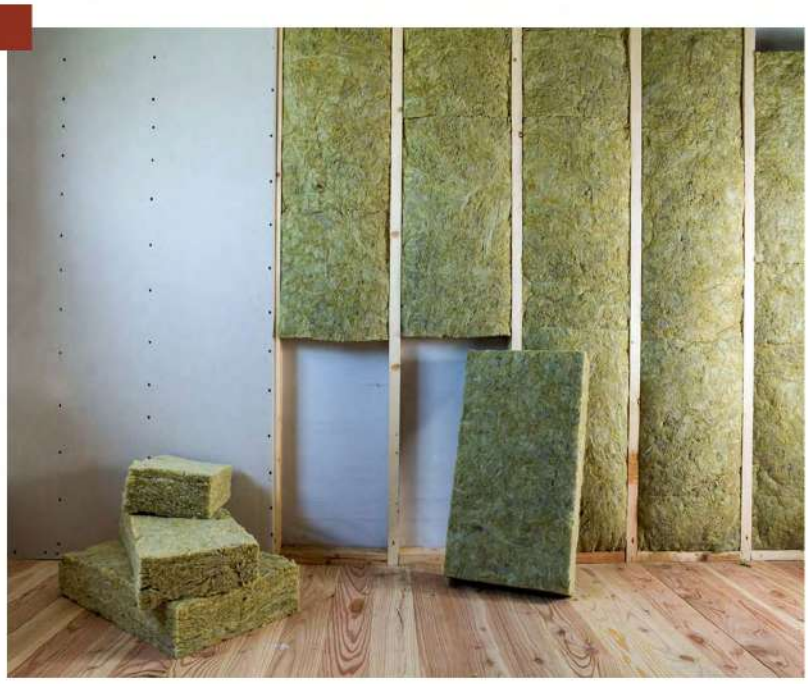
Thermawool slabs are natural and widely recyclable.

Durability

maintains its thermal and mechanical properties for the lifetime of the building.

TYPICAL APPLICATIONS

- Steel frame system (SFS) external walls
- Timber frame wall constructions
- Masonry infill wall assemblies
- Internal lining of external walls
- New build and refurbishment projects



FRAMECLAD

TECHNICAL DATA SHEET

CLADMATE

TECHNICAL DATA SHEET

THERMAWOOL

Product Name	**FRAMECLAD**
Standard	Thermal insulation products for buildings - Factory made of mineral wool (MW) products - Specification
Description	Mineral wool - Thermal insulation material formed by melting of basalt stone at 1350°C-1400°C into fiber - for thermal, sound and fire insulation product
Surface Facing	Not faced
Area of Usage	Between aluminum, PVC, granite, marble and glass facade coating systems Light weight partition walls can be used as internal insulation of exterior walls, stairs and elevator cavities.

Product Performance

Technical Characteristics	Test Method	Units	Value or Statement
Thickness / d	EN ISO 29466	mm	50-200
Nominal Density		$kg \cdot m^{-3}$	50
Tolerances - T4	-3% or -3 mm; +5% or +5mm. - absolute large value in tolerance, + absolute small value in tolerance.		
Length / l	EN ISO 29465	mm	1200
Tolerances ±2 %			
Width/ b	EN ISO 29465	mm	600
Tolerances ±1,5 %			
Squareness/ S_b	EN 824	mm/m	max.5
Flatness/ S_{max}	EN ISO 29468	mm	max.6
Thermal Conductivity / λd	BS EN 13162: 2012	W/m.K	0.035
Thermal Resistance / R_d	EN 12667 EN 12939	mm	50 60 70 90 100 120 140 150 180 200
		$(m^2.K)/W$	1.43 1.71 2.00 2.57 2.86 3.43 4.00 4.29 5.14 5.71
Fire Reaction Class	EN 13501-1: 2018	Euroclass	A1
Short Term Water Absorption/ WS	**BS EN 1609**	kg/m^2	≤1
Long Term Water Absorption/ WL(P)	**BS EN 1609**	kg/m^2	≤3
Water Vapour Resistivity	EN ISO 10456: 2007	MN·s·g–1·m–1	5
Dimensional stability	EN 1604: 2013		≤ 1%
Acoustic performance		dB	50-65

Storage

The products should be stocked closed. If the storage area is open, the entire surface of the packages must be covered with cover or tarpaulin.
Product packages should be protected from water, moisture and sunlight in the storage area.
Appropriate work safety clothing and equipment must be used to protect the skin, eye and upper respiratory system during transport.
Product packages should be placed on at least one pallet which should not be in direct contact with the ground at storage area.
Products must be covered with a tarpaulin when shipped.
Do not leave any material on the products in such a way as to damage the package and the product.
Palletized products should not be stacked and stored on top of each other.
The opened packages must not be disposed of and must be disposed of in accordance with the regulations.

FLOORCLAD

Stone Wool Insulation for Floor Constructions and Separation Floors

λ = 0.039 W/mK **Nominal Density= 150 kg/m³** FLOORCLAD - T	**λ = 0.04 W/mK** **Nominal Density= 200 kg/m³** FLOORCLAD - A	**Euroclass A1** REACTION TO FIRE	**Any Height** HEIGHT SUITABILITY Incl. buildings above 18m - UK regs

THERMAWOOL FLOORCLAD is a non-combustible stone wool insulation range designed for use within floor constructions and separation floors, providing thermal insulation, acoustic performance, and fire safety.

Manufactured from natural volcanic basalt and compliant with EN 13162, FLOORCLAD delivers thermal performance, sound absorption, and long-term dimensional stability within residential and commercial floor assemblies.

The open fibre structure of stone wool provides excellent airborne sound absorption, helping to reduce sound transmission between adjoining spaces, while the resilient structure contributes to improved impact sound performance in floating floor constructions.

The FLOORCLAD range is available in two performance variants, allowing designers to select the most appropriate solution depending on the primary performance requirement of the floor system.

KEY FEATURES

Non-Combustible Fire Performance

EuroclassA1 classification ensures the insulation does not contribute to fire growth.

Euroclass A1 — EN 13501-1

Thermal Performance

Low thermal conductivity supports improved building energy efficiency.

λ = 0.035 W/mK declared

Acoustic Performance

The open fibre structure provides high sound absorption and reduce airborne sound transmission through wall and floor

Condensation control

Vapour-permeable insulation allows moisture vapour to pass through the construction, reducing the risk of interstitial condensation.

Mechanical Stability

The optimised density and fibre structure provide a stable and robust insulation layer, supporting secure fixing and consistent performance within construction systems.

High-Rise Suitability

Suitable for buildings of all heights, including those exceeding 18 metres.

Sustainability

Thermawool slabs are natural and widely recyclable.

Durability

maintains its thermal and mechanical properties for the lifetime of the building.

FLOORCLAD T

Thermal Floor Insulation

Designed primarily to deliver thermal performance within floor constructions, while maintaining the inherent acoustic and fire performance of stone wool insulation.

With declared thermal conductivity from λ =0.039 W/mK, FLOORCLAD T improves energy efficiency and reduces heat loss through floor structures.

TYPICAL APPLICATIONS

- Intermediate floors within residential buildings
- Suspended timber floor constructions
- Concrete floor assemblies
- Floor systems requiring improved thermal performance

FLOORCLAD A

Acoustic Floor Insulation - Airborne Sound - Impact Sound

Higher-density stone wool insulation developed to enhance acoustic performance within separation floors, improving both airborne sound reduction and impact sound control.

With declared thermal conductivity from λ = 0.040 W/mk, FLOORCLAD A optimised for acoustic performance, also provides thermal efficiency and maintains Euroclass A1 non-combustible fire performance.

TYPICAL APPLICATIONS

- Separation floors between residential units
- Floating floor constructions
- Acoustic floor systems
- Multi-storey residential and commercial buildings

FLOORCLAD

TECHNICAL DATA SHEET

CLADMATE

TECHNICAL DATA SHEET

THERMAWOOL

Product Name	**FLOORCLAD**
Standard	Thermal insulation products for buildings - Factory made of mineral wool (MW) products - Specification
Description	Mineral wool - Thermal insulation material formed by melting basalt stone at 1350°C-1400°C into fiber - for thermal, sound and fire insulation product
Surface Facing	Not faced
Area of Usage	Designed for use within floor constructions and separation floors where thermal insulation, acoustic performance and fire safety are required.

Product Performance

Technical Characteristics	Test Method	Units	Value or Statement				
Length / l	EN ISO 29465	mm	1200				
Tolerances ±2 %							
Width/ b	EN ISO 29465	mm	600				
Tolerances ±1,5 %							
Tolerances - T4	-3% or -3 mm; +5% or +5mm. - absolute large value in tolerance, + absolute small value in tolerance.						
Squareness/ S_b	EN 824	mm/m	max.5				
Flatness/ S_{max}	EN ISO 29468	mm	max.6				
FLOORCLAD T							
Thickness / d	EN ISO 29466	mm	50-100				
Nominal Density		$kg \cdot m^{-3}$	150				
Thermal Conductivity / λd	BS EN 13162: 2012	W/m.K	0.039				
Thermal Resistance / R_d	EN 12667 EN 12939	mm	50	80	100		
		$(m^2.K)/W$	1.28	2.05	2.56		
FLOORCLAD A							
Thickness / d	EN ISO 29466	mm	25-50				
Nominal Density		$kg \cdot m^{-3}$	200				
Thermal Conductivity / λd	BS EN 13162: 2012	W/m.K	0.040				
Thermal Resistance / R_d	EN 12667 EN 12939	mm	25	30	50		
		$(m^2.K)/W$	0.625	0.75	1.25		
Fire Reaction Class	EN 13501-1: 2018	Euroclass	A1				
Short Term Water Absorption/ WS	BS EN 1609	kg/m^2	≤1				
Long Term Water Absorption/ WL(P)	BS EN 1609	kg/m^2	≤3				
Water Vapour Resistivity	EN ISO 10456: 2007	$MN \cdot s \cdot g^{-1} \cdot m^{-1}$	5				
Dimensional stability	EN 1604: 2013		≤ 1%				
Acoustic performance		dB	up to 55-65				

Storage

The products should be stocked closed. If the storage area is open, the entire surface of the packages must be covered with cover or tarpaulin.
Product packages should be protected from water, moisture and sunlight in the storage area.
Appropriate work safety clothing and equipment must be used to protect the skin, eye and upper respiratory system during transport.
Product packages should be placed on at least one pallet which should not be in direct contact with the ground in the storage area.
Products must be covered with a tarpaulin when shipped.
Do not leave any material on the products in such a way as to damage the package and the product.
Palletized products should not be stacked and stored on top of each other.
The opened packages must not be disposed of and must be disposed of in accordance with the regulations.

ROOFCLAD

Stone Wool Insulation for Flat Roof and Parapet Applications

λ = 0.039 W/mK	Euroclass A1	EN 13162	Incl. Above 18m
THERMAL CONDUCTIVITY	REACTION TO FIRE	PRODUCT STANDARD	HEIGHT SUITABILITY

THERMAWOOL ROOFCLAD is a non-combustible stone wool insulation board designed for use within flat roof and parapet constructions, delivering fire safety, thermal performance, and dimensional stability.

Manufactured from natural volcanic basalt and compliant with EN 13162, ROOFCLAD provides thermal insulation, acoustic absorption, and fire resistance within modern roof assemblies.

The product is particularly suited to flat roof systems, metal roof constructions, and parapet wall insulation where noncombustible materials are required.

ROOFCLAD features a dense and durable fibre structure designed to withstand the mechanical demands of roof build-ups while maintaining consistent thermal performance throughout the service life of the building.

The insulation can be supplied unfaced or with optional tissue facings, allowing use across a range of roof construction types depending on system design and installation requirements.

With declared thermal conductivity from λ = 0.039 W/mK, ROOFCLAD contributes to improved energy efficiency within roof constructions.

ROOFCLAD achieves Euroclass A1 reaction to fire classification in accordance with EN 13501-1 and is suitable for use in buildings of all heights, including high-rise developments, in accordance with UK Building Regulations (Approved Document B).

TYPICAL APPLICATIONS

- Flat roof insulation systems
- Metal roof constructions
- Parapet wall insulation
- Warm roof assemblies
- Roof build-ups requiring non-combustible insulation
- New build and refurbishment projects

KEY FEATURES

Non-Combustible Fire Performance

EuroclassA1 classification ensures the insulation does not contribute to fire growth.

Euroclass A1 — EN 13501-1

Thermal Performance

Low thermal conductivity supports improved building energy efficiency.

λ = 0.035 W/mK declared

Acoustic Performance

The open fibre structure provides high sound absorption and reduce airborne sound transmission through wall and floor

Condensation control

Vapour-permeable insulation allows moisture vapour to pass through the construction, reducing the risk of interstitial condensation.

Mechanical Stability

The optimised density and fibre structure provide a stable and robust insulation layer, supporting secure fixing and consistent performance within construction systems.

High-Rise Suitability

Suitable for buildings of all heights, including those exceeding 18 metres.

Sustainability

Thermawool slabs are natural and widely recyclable.

Durability

maintains its thermal and mechanical properties for the lifetime of the building.

ROOFCLAD

TECHNICAL DATA SHEET

CLADMATE

TECHNICAL DATA SHEET

THERMAWOOL

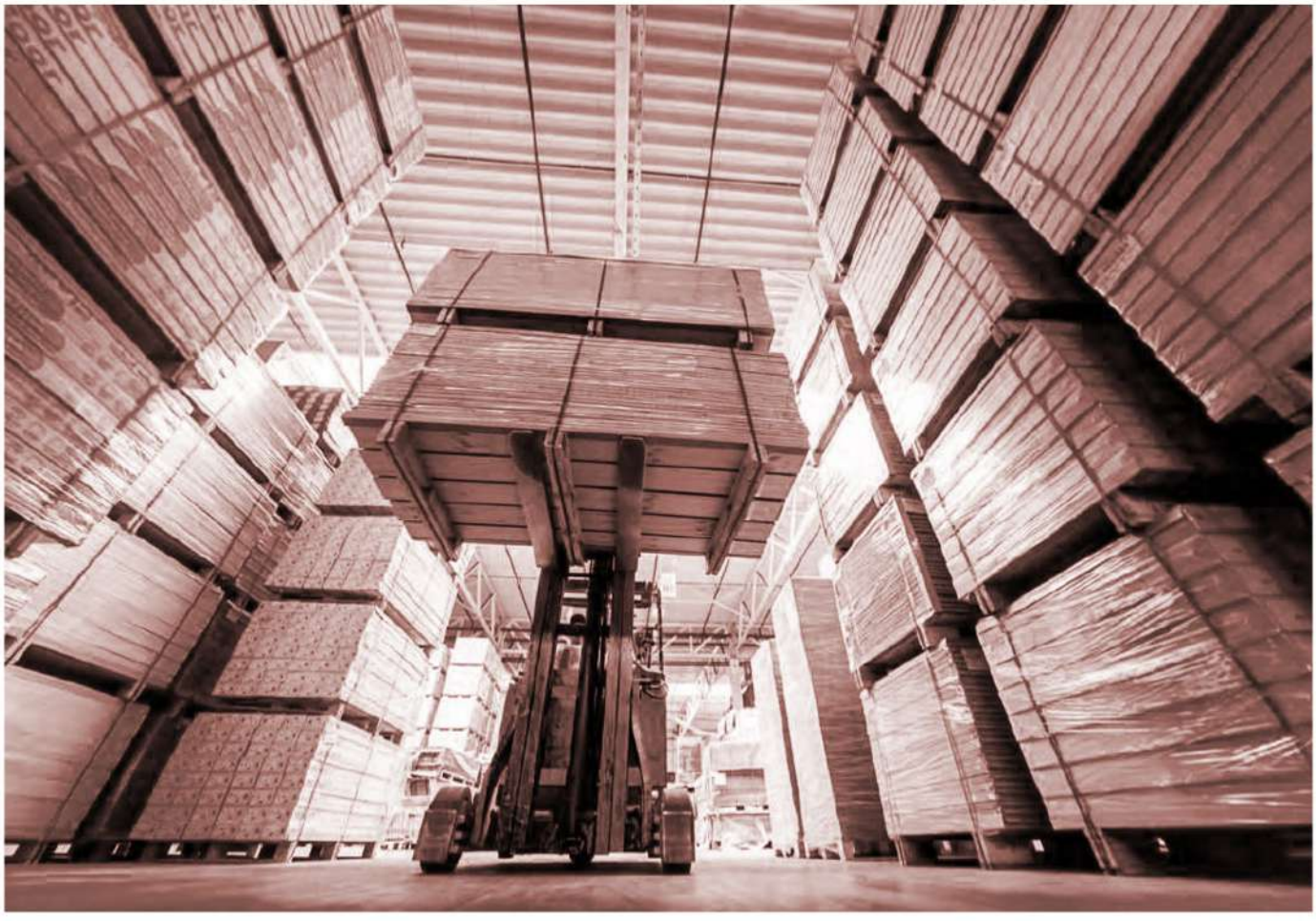
Product Name	**ROOFCLAD**												
Standard	Thermal insulation products for buildings - Factory made of mineral wool (MW) products - Specification												
Description	Mineral wool - Thermal insulation material formed by melting of basalt stone at 1350°C-1400°C into fiber - for thermal, sound and fire insulation product												
Surface Facing	Not faced												
Area of Usage	Used within flat roof and parapet constructions as a non-combustible insulation layer, providing high levels of fire safety, thermal performance, and dimensional stability												
Product Performance	**Technical Characteristics**	**Test Method**	**Units**	**Value or Statement**									
	Thickness / d	EN ISO 29466	mm	60-185									
	Nominal Density		kg·m⁻³	150									
	Tolerances - T4	-3% or -3 mm; +5% or +5mm. - absolute large value in tolerance, + absolute small value in tolerance.											
	Length / l	EN ISO 29465	mm	1200									
	Tolerances ±2 %												
	Width/ b	EN ISO 29465	mm	600									
	Tolerances ±1,5 %												
	Squareness/ S_b	EN 824	mm/m	max.5									
	Flatness/ S_{max}	EN ISO 29468	mm	max.6									
	Thermal Conductivity / λd	BS EN 13162: 2012	W/m.K	0.039									
	Thermal Resistance / R_d	EN 12667 EN 12939	mm	60	85	105	115	150	185				
			(m².K)/W	1.54	2.18	2.69	2.95	3.84	4.74				
	Fire Reaction Class	EN 13501-1: 2018	Euroclass	A1									
	Short Term Water Absorption/ WS	**BS EN 1609**	kg/m²	≤1									
	Long Term Water Absorption/ WL(P)	**BS EN 1609**	kg/m²	≤3									
	Water Vapour Resistivity	EN ISO 10456: 2007	MN·s·g–1·m–1	5									
	Dimensional stability	EN 1604: 2013		≤ 1%									
	Acoustic performance		dB	Upto (45-55)									
Storage	The products should be stocked closed. If the storage area is open, the entire surface of the packages must be covered with cover or tarpaulin.												
	Product packages should be protected from water, moisture and sunlight in the storage area.												
	Appropriate work safety clothing and equipment must be used to protect the skin, eye and upper respiratory system during transport.												
	Product packages should be placed on at least one pallet which should not be in direct contact with the ground at storage area.												
	Products must be covered with a tarpaulin when shipped.												
	Do not leave any material on the products in such a way as to damage the package and the product.												
	Palletized products should not be stacked and stored on top of each other.												
	The opened packages must not be disposed of and must be disposed of in accordance with the regulations.												

HANDLING, TRANSPORT & STORAGE

THERMAWOOL insulation slabs are lightweight and can be easily cut to size using a sharp knife. Products are supplied in waterproof packaging on pallets and shrink-wrapped for external storage. Once installed, insulation may be left temporarily exposed prior to the installation of the external façade system, subject to site conditions.

SITE RECOMMENDATIONS

- Installation should be carried out in dry weather conditions.
- Insulation should be protected from moisture during transport and handling.
- Slabs should be stored in their original packaging and not used if packaging is damaged.
- Packs should be stored on a flat, stable, and non-slip surface.
- Slabs should not be dragged or pulled across the ground.
- Insulation should not be stepped on or subjected to unnecessary loading.
- Slabs should be handled carefully and carried by a minimum of two operatives.
- Ensure the correct orientation of the slab during installation (textured face outward where applicable).



SUSTAINABILITY

Building Performance with Responsibility

Thermawool insulation is manufactured from natural volcanic basalt rock, one of the most abundant and durable raw materials found in nature. Through advanced manufacturing processes, this natural material is transformed into high-performance stone wool insulation designed to improve building efficiency, safety and environmental performance.

By improving the thermal efficiency of buildings, Thermawool insulation helps to reduce energy consumption and lower operational carbon emissions throughout the lifetime of the building. High-performance insulation plays a vital role in reducing the environmental impact of buildings and supporting the transition towards more energy-efficient and sustainable construction.

ENVIRONMENTAL RESPONSIBILITY

Stone wool insulation is manufactured from naturally occurring volcanic basalt rock, a durable and widely available raw material that provides a sustainable foundation for high-performance insulation solutions.

Thermawool is committed to the responsible use of natural resources through the continuous improvement of manufacturing processes and the development of products that support more efficient and sustainable construction. Through ongoing innovation and production fefficiency, Thermawool aims to minimise environmental impact while delivering reliable insulation performance.

By enhancing the performance of the building envelope, Thermawool insulation contributes to:

- Reduced heating and cooling energy demand
- Lower operational carbon emissions
- Improved overall building energy efficiency
- Long-term environmental performance

The inherent durability of stone wool insulation enables it to maintain its thermal and mechanical performance throughout the life of the building, reducing the need for replacement and helping to minimise construction waste.

Thermawool stone wool insulation is also widely recyclable, supporting circular material use and contributing to more sustainable construction practices.

ENERGY EFFICIENCY AND CARBON REDUCTION

Thermawool insulation improves the thermal performance of buildings by reducing heat loss in winter and limiting heat gain during warmer periods.

By improving the building envelope, Thermawool products help to:

- Reduce heating and cooling energy demand
- Improve indoor comfort
- lower operational carbon emissions
- Support energy-efficient building design

Effective insulation is one of the most important components in delivering low-energy and sustainable buildings.

DURABLE AND STABLE MATERIALS

Stone wool insulation is naturally durable and dimensionally stable. Thermawool products maintain their performance even under significant temperature variation and environmental conditions.

The mineral fibre structure does not degrade over time and helps ensure consistent thermal, acoustic and fire performance throughout the life of the building.

The material is also resistant to moisture and does not support the growth of mould, bacteria or microorganisms, contributing to healthier building environments.

HEALTH AND SAFETY

Thermawool stone wool insulation products are manufactured in accordance with recognised European standards and are designed to support safe installation and long-term building performance.

Stone wool insulation is not classified as carcinogenic under current UK and European health and safety regulations, including EU Directive 97/69/EC.

To assist with risk assessments in accordance with the Control of Substances Hazardous to Health (COSHH) Regulations, a Material Safety Data Sheet is available for all Thermawool products.

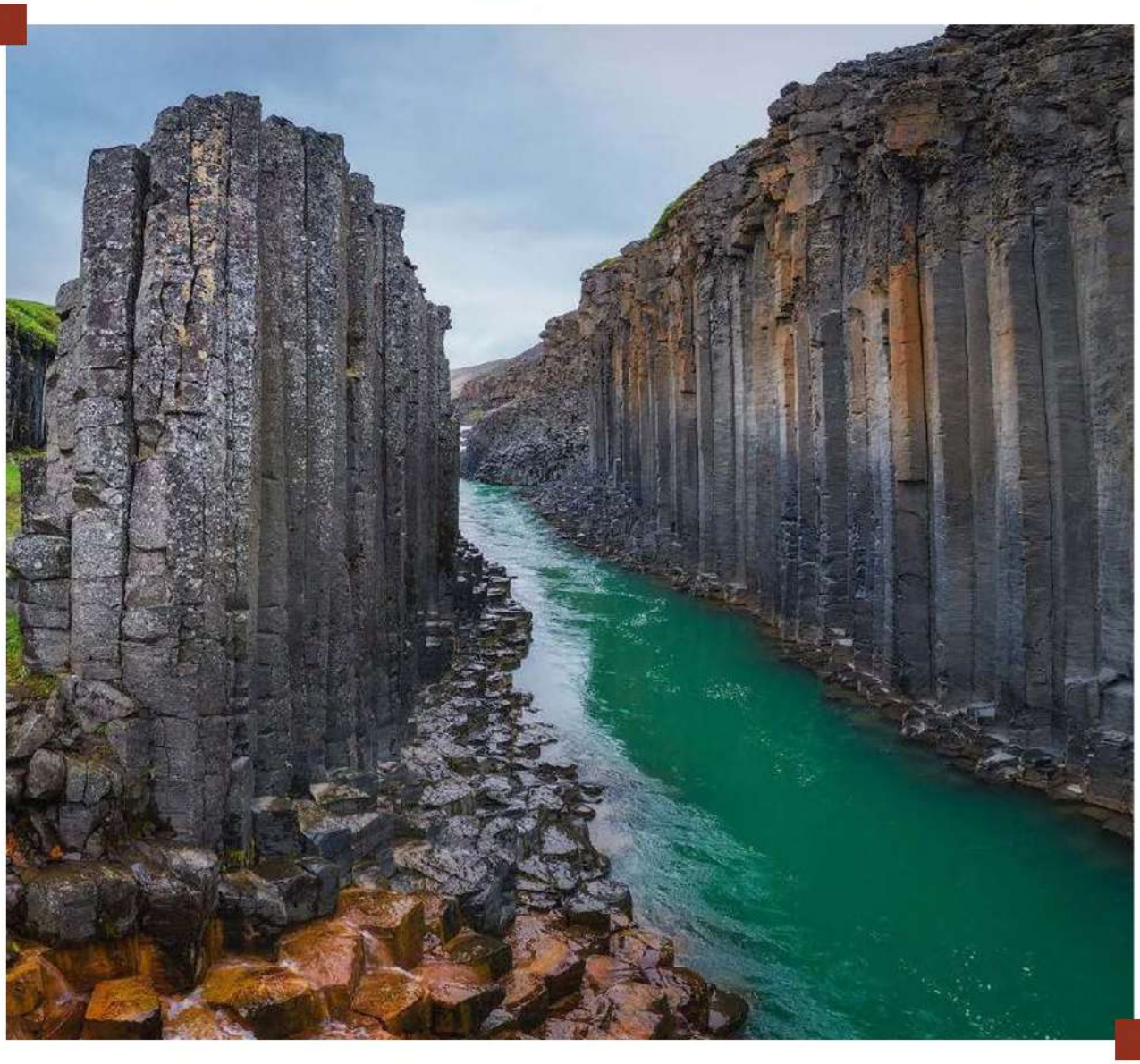
When installed in accordance with recommended practices, Thermawool insulation contributes to safe, durable and healthy buildings.

High-Performance Stone Wool Insulation for Modern Construction

Thermawool insulation solutions are engineered to deliver reliable thermal performance, fire safety and acoustic comfort across a wide range of modern construction applications.

Manufactured from natural volcanic basalt rock, Thermawool stone wool insulation combines durability, sustainability and technical performance, supporting the design and construction of safe, efficient and long-lasting buildings.

From façade insulation and external wall systems to floors, roofs and framed constructions, the Thermawool product range is designed to meet the demands of contemporary architecture and high-performance building envelopes.



NON-COMBUSTIBLE FIRE SAFETY

Fire safety is a critical requirement in modern building design. Thermawool stone wool insulation achieves Euroclass A1 reaction to fire classification in accordance with EN 13501-1, meaning the material is non-combustible and does not contribute to fire spread. Suitable for use in buildings of all heights, including high-rise developments, THERMAWOOL supports compliance with UK Building Regulations (Approved Document B).

A1

EUROCLASS A1

Non-Combustible
Reaction to Fire - EN 13501-1
Withstands temperatures > 1,000°C

APPLICATION VERSATILITY

THERMAWOOL insulation is suitable for a wide range of building systems, including:

- Ventilated rainscreen façades
- External wall insulation systems (EWI)
- Framed wall constructions (SFS and timber frame)
- Flat roof and parapet insulation
- Open-joint façade systems
- Soffit and exposed ceiling insulation
- Floor insulation and separation floors

THERMAL EFFICIENCY

THERMAWOOL insulation improves building performance by reducing heat loss in winter and limiting heat gain during warmer periods. With thermal conductivity values from λ = 0.035 W/mK, THERMAWOOL contributes to achieving lower U-values and improved energy efficiency across building envelope systems.

ACOUSTIC COMFORT

The open fibre structure of stone wool provides excellent sound absorption, reducing airborne sound transmission between spaces and improving internal acoustic comfort. This makes THERMAWOOL particularly suitable for residential, commercial, and mixed-use developments where acoustic performance is critical.

SUSTAINABLE CONSTRUCTION

THERMAWOOL insulation is manufactured from natural volcanic basalt — an abundant and durable raw material. By improving thermal performance, THERMAWOOL helps reduce energy consumption and operational carbon emissions. Stone wool is also recyclable, supporting circular construction practices.

DURABILITY AND LONG-TERM PERFORMANCE

Stone wool insulation is inherently durable and dimensionally stable. THERMAWOOL products maintain their thermal, acoustic, and fire performance throughout the lifetime of the building. The material is resistant to temperature variation, moisture, and ageing, ensuring longterm reliability.

ON-SITE HANDLING & INSTALLATION

THERMAWOOL insulation slabs are lightweight and easy to cut using a sharp knife. Products are supplied in waterproof packaging on pallets and shrink-wrapped for external storage. Insulation may be left temporarily exposed after installation, subject to site conditions.

THERMAWOOL

Designed for Architects, Engineers and Contractors

Thermawool insulation is engineered to support efficient installation and consistent performance across a wide range of construction applications.
Balanced density structures allow easy installation while ensuring secure mechanical fixing and compatibility with modern façade and building envelope systems.

" Where the power of natural stone meets comfort "

THE COMPLETE STONE WOOL INSULATION SOLUTION

The Thermawool range provides insulation solutions for all major building applications, forming a complete noncombustible stone wool insulation system for modern construction.

Together, these products form a complete stone wool insulation solution for modern construction.

RAINCLAD
+ RAINCLAD+

Ventilated rainscreen façade insulation

DIMCLAD
+ DIMCLAD+

Open-joint façade insulation

SOFFITCLAD

Soffit and exposed ceiling insulation

WALLCLAD

External wall insulation systems (EWI)

FRAMECLAD

Framed wall insulation

FLOORCLAD

Thermal and acoustic floor insulation

ROOFCLAD

Flat roof and parapet insulation

THERMAWOOL

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