THERMAL INSULATION CAVITY SLAB 32

Thermal protection for masonry cavity walls

The ROCKWOOL Thermal Insulation Cavity Slab 32 is a full and partial fill insulation solution for use in external and party masonry cavity walls.

Suitable for use in new builds, renovations or extensions, the lightweight slab is easy to handle and simple to install proving an accurate fit against the blockwork.

- Low thermal conductivity of 0.032 W/mK.
- Non-combustible - Euroclass A1 stone wool insulation as defined in EN13501-1.
- British Board of Agrément approved for use in all exposure zones, subject to conditions outlined in BBA certificate 22/6335.
- Quick and easy to install without gaps.

The ROCKWOOL Thermal Insulation Caity Slab 32 is manufactured using NyRock technology a patented high-speed technological innovation.

It delivers the most thermally efficient stone wool cavity insulation currently available in the UK and Ireland.

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APPLICATIONS

The ROCKWOOL Thermal Insulation Cavity Slab 32 is designed for use in 100mm masonry cavity walls to deliver thermal protection in residential, extension and renovation work.

ROCKWOOL Thermal Cavity Slab 32 has been examined by the British Board of Agrément (BBA) and granted Certificate 22/6335 for use in all exposure zones for domestic and non domestic buildings that are up 25m in height.

The NHBC accepts the use of ROCKWOOL Thermal Cavity Slab 32 other than in very severe exposure locations with fair-faced masonry, provided it is installed, used and maintained in accordance with the BBA Certificate, in relation to NHBC Standards, Chapter 6.1, External masonry walls.

PERFORMANCE

Thermal performance

ROCKWOOL Thermal Insulation Cavity Slab 32 has a thermal conductivity of 0.032 W/mK

Fire performance

ROCKWOOL Thermal Insulation Cavity Slab 32 is non-combustible achieving a reaction to fire classification of A1, as defined in EN13501-1. It is suitable for use in building of every purpose group, also acting as an effective cavity barrier when tightly fitted between masonry leaves where an insulated wall connects with an uninsulated wall cavity.

Acoustic performance

ROCKWOOL Thermal Insulation Cavity Slab 32 is made from stone wool, the non-directional fibre orientation and density means that sound waves are trapped, and vibrations dampened.

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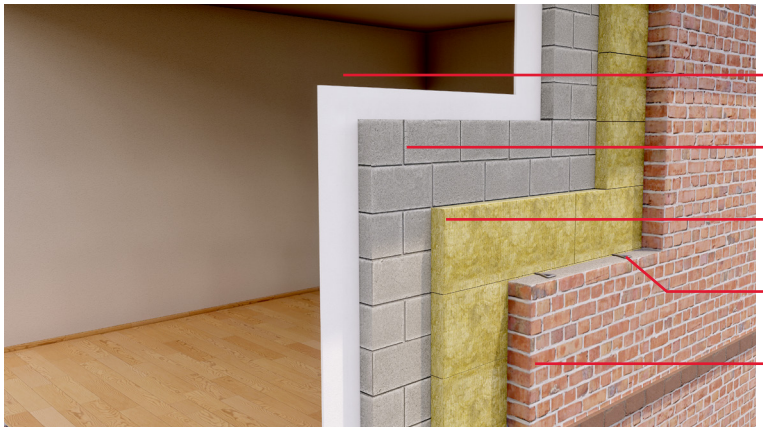
TYPICAL U-VALUES

Application performance - Full Fill

102mm facing brick outer skin, Thermal Insulation Cavity Slab 32, 100mm internal concrete block (various densities) Internal finishes: light plaster or plasterboard on dab.

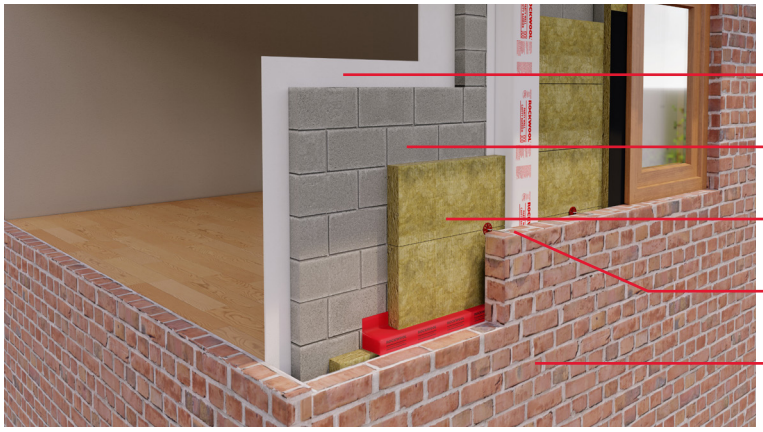
Inner block	Dense 1900-2250kg/m³		Medium Dense 1400-1450kg/m³		Aircrete Hi Strength 750kg/m³		Aircrete Std 600kg/m³	
W/mK	1.130 W/mK		0.470 W/mK		0.190 W/mK		0.150 W/mK	
Internal finish	Light plaster	Plasterboard on dab	Light plaster	Plasterboard on dab	Light plaster	Plasterboard on dab	Light plaster	Plasterboard on dab
Cavity (mm)	U-value W/m²K	U-value W/m²K	U-value W/m²K	U-value W/m²K	U-value W/m²K	U-value W/m²K	U-value W/m²K	U-value W/m²K
100	0.28	0.27	0.27	0.26	0.26	0.25	0.25	0.24



Application performance - Partial fill application 1

102mm facing brick outer skin, 50mm clear cavity space, Thermal Insulation Cavity Slab 32 Partial Fill, 100mm internal concrete block (various densities) Internal finishes: light plaster or plasterboard on dab.

Inner block	Dense 1900-2250kg/m³		Medium Dense 1400-1450kg/m³		Aircrete Hi Strength 750kg/m³		Aircrete Std 600kg/m³	
W/mK	1.130 W/mK		0.470 W/mK		0.190 W/mK		0.150 W/mK	
Internal finish	Light plaster	Plasterboard on dab	Light plaster	Plasterboard on dab	Light plaster	Plasterboard on dab	Light plaster	Plasterboard on dab
Cavity (mm)	U-value W/m²K	U-value W/m²K	U-value W/m²K	U-value W/m²K	U-value W/m²K	U-value W/m²K	U-value W/m²K	U-value W/m²K
100	0.27	0.26	0.26	0.25	0.25	0.24	0.24	0.23



THERMAL INSULATION CAVITY SLAB 32

PRODUCT INFORMATION

Thickness	Thermal resistance m²K/W	Width (mm)	Length (mm)	Pieces/ pack	Area/ pack (m²)	Packs/ pallet	Pieces/ pallet
100	3.10	455	1200	4	2.18	12	48

ADDITIONAL INFORMATION

Durability

The product is durable, rot proof, water resistant and sufficiently stable to remain effective as insulation for the life of the building.*

**Source: BBA certification 22/6335*

Water Resistance and Moisture

The product will resist the transfer of water across the cavity. The orientation of the water repellent fibres prevent water crossing the wall construction, providing the slabs are correctly installed and sound building techniques are applied to the cavity wall construction (see our installation manual for further guidance on this). Any water penetrating the outer leaf will drain down the surface of the slab.

Condensation

Vapour resistivity = 5.9 MNs/gm, preventing ingress of liquid water, but allowing the escape of water vapour.

ROCKWOOL stone wool insulation allows the construction to breathe, reducing the risk of condensation, which can lead to rot, mould and humidity damage.

STANDARDS AND APPROVALS

Certificate
Manufactured in accordance with BS EN 13162:2012+A1:2015 Thermal insulation products for buildings. Factory made mineral wool (MW) products. Designation code: MW-EN13162-T4-DS(70,90)-WS-WL(P)-MU1.
Manufactured under ISO 14001 Environmental Management Systems, and ISO 9001 Quality Management Systems.
BBA (British Board of Agrement) Certified for use in buildings up to 12m high in any exposure zone and for use in multi-storey applications up to 25m in height. Certificate no. 22/6335.

INSTALLATION

The product must be installed in accordance with the current ROCKWOOL guidelines. For further information please visit **www.rockwool.com/uk** or contact our Technical Solutions Team on 01656 868490.

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DISCLAIMERS

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Information contained in this data sheet is up-to-date as at the date of issue. As ROCKWOOL Limited cannot control or anticipate the conditions under which this product may be used, each user should review the information in specific context of the planned use. To the maximum extent permitted by law, ROCKWOOL Limited will not be responsible for damages of any nature resulting from the use or reliance upon the information contained in this data sheet. No express or implied warranties are given other than those implied by law.

SUSTAINABILITY

As an environmentally conscious company, ROCKWOOL promotes the sustainable production and use of insulation and is committed to a continuous process of environmental improvement.

All ROCKWOOL products provide outstanding thermal protection as well as four added benefits:

Fire resistance

Acoustic comfort

Sustainable materials

Durability

HEALTH & SAFETY

The safety of ROCKWOOL stone wool is confirmed by current UK and Republic of Ireland health & safety regulations and EU directive 97/69/EC:ROCKWOOL fibres are not classified as a possible human carcinogen.

A Material Safety Data Sheet is available and can be downloaded from **www.rockwool.com/uk** to assist in the preparation of risk assessments, as required by the Control of Substances Hazardous to Health Regulations (COSHH).

ENVIRONMENT

Made from a renewable and plentiful naturally occurring resource, ROCKWOOL insulation saves fuel costs and energy in use and relies on trapped air for its thermal properties.

ROCKWOOL insulation does not contain (and has never contained) gases that have ozone depletion potential (ODP) or global warming potential (GWP).

ROCKWOOL insulation is recyclable and can be transformed into new ROCKWOOL products. For waste ROCKWOOL material that may be generated during installation, we are happy to discuss the individual requirements of contractors and users considering returning these materials to our factory for recycling.