KNAUF INSULATION

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APPROVED DOCUMENT L –
WHAT YOU NEED TO KNOW

Interactive document

Build on us.

The new Part L (England) requirements for new build - external walls require a minimum limiting U-value of 0.26W/m²K. When using DriTherm® Cavity Slab 32, you can meet and exceed the new requirements.

The below table shows the thickness requirement depending on the type of block used.

DRITHERM® CAVITY SLAB 32	U-value with 102.5mm brick outer leaf				
100mm Inner Leaf	**Medium Block** (λ0.45)	**Lightweight aggregate** (λ0.28)	**High strength aircrete** (λ0.19)	**Standard aircrete** (λ0.15)	**Lightweight aircrete** (λ0.11)
Insulation thickness (mm)	**U-value** (W/m²K)	**U-value** (W/m²K)	**U-value** (W/m²K)	**U-value** (W/m²K)	**U-value** (W/m²K)
175 (100+75)	0.16	0.16	0.16	0.15	0.15
150	0.19 (Non-compliant)	0.18	0.18	0.18	0.17

For other block types please visit our online U-value calculator

https://tools.knaufinsulation.com/en-GB/tools/u-value-insulation-calculator

WHY DRITHERM® CAVITY SLAB 32?

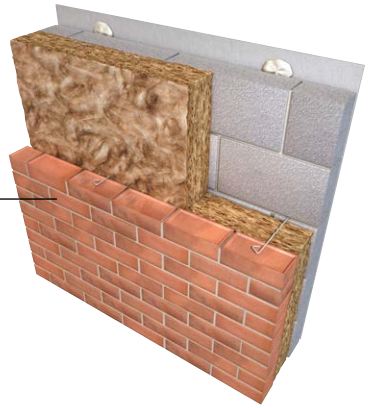
DriTherm® Cavity Slab 32 is a cost-effective solution for new-build projects with additional benefits, such as:

- Euroclass A1 reaction to fire classification
- BBA certified for use in all exposure zones, including those in **very severe** areas
- Slabs are sized to fit between wall ties, without the need for retaining discs
- Cavity barriers are not required with non-combustible full-fill insulation
- Up to 80% recycled glass content
- Slabs butt together, minimising air gaps and ensuring real performance
- Made with ECOSE® Technology, Knauf Insulation's unique bio-based binder
- Lower embodied carbon than rigid boards

Approved Document L 2021 England: Extensions - Headline Changes

DriTherm® Cavity Slab 32 150mm is a suitable solution to achieve the new external wall U-value of 0.18W/m²K in extensions.

INSULATION LIMITING U-VALUES	2013	2021
External Wall U-value (W/m²K)	0.28	0.18



When used with lightweight aggregate, light strength, standard or lightweight aircrete blocks.

The below table shows the thickness requirements depending on the type of block used.

DRITHERM® CAVITY SLAB 32	U-value with 102.5mm brick outer leaf				
100mm Inner Leaf	**Medium Block** (λ0.45)	**Lightweight aggregate** (λ0.28)	**High strength aircrete** (λ0.19)	**Standard aircrete** (λ0.15)	**Lightweight aircrete** (λ0.11)
Insulation thickness (mm)	**U-value** (W/m²K)	**U-value** (W/m²K)	**U-value** (W/m²K)	**U-value** (W/m²K)	**U-value** (W/m²K)
150	0.19	0.18	0.18	0.17	0.17
125	0.22	0.21	0.21	0.20	0.20
100	0.26	0.25	0.25	0.24	0.23

For other block types please visit our online U-value calculator

https://tools.knaufinsulation.com/en-GB/tools/u-value-insulation-calculator

**The U-values have been calculated using the Ancon ST1 Wall Tie (23.4mm2)*

KEY QUESTIONS TO ASK YOUR CUSTOMER

- Is the project a new build or an extension?
- What U-value is required?
- What brick / block is being used?

KEY QUESTIONS TO ASK YOUR CUSTOMER

With tightening regulations the thermal performance of insulation is becoming more and more important, DriTherm® Cavity Slab 32 offers a range of options to deliver the improved performance needed in both new-build and extensions.

So make sure to introduce DriTherm® Cavity Slab 32 into your stock profile.

To achieve maximum thermal performance and energy efficiency insulate to 500mm in pitched roofs at ceiling level.

Going beyond the 270mm minimum requirement for loft insulation in both new-build and extension projects delivers valuable extra savings to energy bills:

LOFT ROLL 44

Pre-Existing Insulation in Walls					**Loft Area (Sq Mtr)**	
Total Insulation Thickness (mm)	**Loft Roll** (mm)	**40m²** Ave. 2 bed semi/terrace	**50m²** Ave. 3 bed terrace	**60m²** Ave. 3 bed semi)	**70m²** Ave. 4 bed detached	**80m²** Ave. 4 bed detached
		Savings*	**Savings***	**Savings***	**Savings***	**Savings***
100mm	100	£250	£314	£375	£437	£498
270mm	270 = 100 + 170	£309	£389	£465	£541	£617
500mm	500 = 100 (2x200)	£325	£408	£488	£567	£648
No insulation in home (NIH)					**Loft Area (Sq Mtr)**	
Thickness	**Loft insulation depth** (mm)	**40m²** Ave. 2 bed semi/terrace	**50m²** Ave. 3 bed terrace	**60m²** Ave. 3 bed semi)	**70m²** Ave. 4 bed detached	**80m²** Ave. 4 bed detached
		Savings*	**Savings***	**Savings***	**Savings***	**Savings***
100mm	100	£198	£268	£295	£412	£472
270mm	270 = 100 + 170	£245	£331	£365	£487	£557
500mm	500 = 100 (2x200)	£256	£347	£382	£506	£578

**Savings calculated based on kw/hr Unit price £0.1236 by the Building Regulations Services (BRS) in conjunction with Knauf Insulation.*

What should you be stocking?

Knauf Insulation products can make up your ideal stock profile!

Our mineral wool provides a unique combination of benefits:

- THERMAL PERFORMANCE
- FIRE SAFETY
- ACOUSTIC PERFORMANCE
- COMFORT
- SUSTAINABILITY

Loft Roll 44
100mm 150mm 170mm 200mm
Pitched roofs at ceiling level

Rocksilk® Flexible Slab
100mm
Loft conversion floor

DriTherm® Cavity Slab 32
100mm 125mm 150mm 175mm
Masonry cavity walls
and / or
FrameTherm® Roll 35
90mm 140mm
Timber frame walls

Acoustic Roll
100mm
Internal walls and floors

OmniFit® Roll 34 & 40/ Slab 35
100mm
Multi-Application

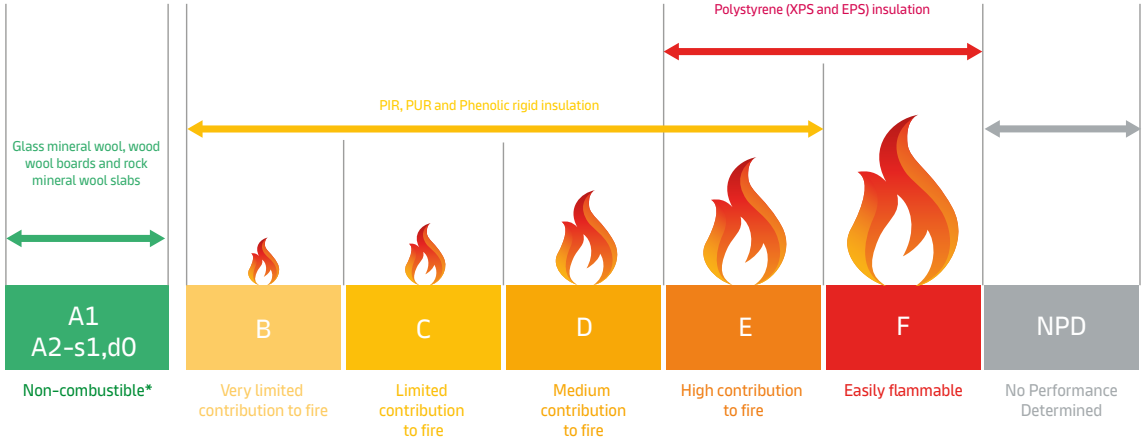
To speak to us about your ideal stock profile please visit:

https://knauf.com/en-GB/knauf-insulation/contact-details/contact-us

CURED GLASS MINERAL WOOL

Fire safety | Acoustic performance | Embodied Carbon | Comfort

Think about Fire safety



*As set out in changes to the Building Regulations 2010 which bans the use of combustible materials, limiting the use of materials to those that achieve A1 or A2-s1,d0 on buildings in scope of the ban (as defined in regulation 7(4))

Notes: Other classifications of smoke and flaming droplets within A2 are classed as limited combustibility (Not shown here as no insulant falls in that category). Flames are illustrative only.

NPD = No Performance Determined. In this instance no performance is declared and information regarding reaction to fire performance is unknown.

Illustration for guidance only. It is crucial to check the actual Euroclass reaction to fire classification of a product before use.

All our glass mineral wool, wood wool boards and rock mineral wool slabs are non-combustible with Euroclass A1 or A2,s1-d0 reaction to fire classification.

To learn more about how our products can help your customers with Part L scan the QR code.