

## APPROVED DOCUMENT L – WHAT YOU NEED TO KNOW

### NEW BUILD - EXTERNAL WALLS

The new Part L (England) requirements for new build - external walls require a minimum limiting U-value of 0.26W/m<sup>2</sup>K. 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.

		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)
Product	Insulation thickness (mm)	U-value (W/m <sup>2</sup> K)	U-value (W/m <sup>2</sup> K)	U-value (W/m <sup>2</sup> K)	U-value (W/m <sup>2</sup> K)	U-value (W/m <sup>2</sup> K)
DriTherm® Cavity Slab 32	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  
[knaufinsulation.co.uk/uvalue-calculator](https://knaufinsulation.co.uk/uvalue-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



## EXTENSIONS - EXTERNAL WALL

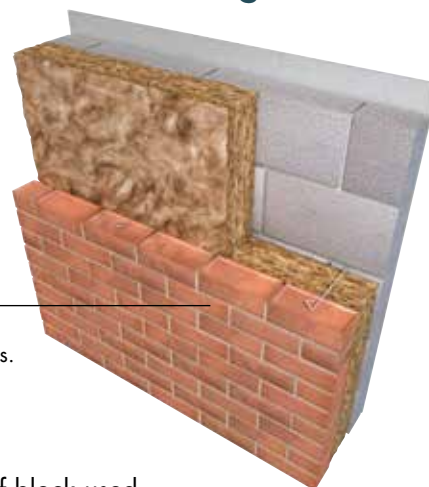
### Approved Document L 2021 England: Extensions - Headline Changes

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.

		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)
Product	Insulation thickness (mm)	U-value (W/m²K)	U-value (W/m²K)	U-value (W/m²K)	U-value (W/m²K)	U-value (W/m²K)
<b>DriTherm® Cavity Slab 32</b>	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 - [knaufinsulation.co.uk/uvalue-calculator](http://knaufinsulation.co.uk/uvalue-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?

## HOW DOES PART L AFFECT STOCK PROFILE?

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.



## LOFT INSULATION

**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:

PRE-EXISTING INSULATION IN WALLS				LOFT AREA (SQ MTR)		
Loft Roll 44	Loft insulation depth (mm)	40m <sup>2</sup> Ave. 2 bed semi/terrace	50m <sup>2</sup> Ave. 3 bed terrace	60m <sup>2</sup> Ave. 3 bed semi	70m <sup>2</sup> Ave. 4 bed detached	80m <sup>2</sup> 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)		
Loft Roll 44	Loft insulation depth (mm)	40m <sup>2</sup> Ave. 2 bed semi/terrace	50m <sup>2</sup> Ave. 3 bed terrace	60m <sup>2</sup> Ave. 3 bed semi	70m <sup>2</sup> Ave. 4 bed detached	80m <sup>2</sup> 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:

[knaufinsulation.co.uk/contact-us](http://knaufinsulation.co.uk/contact-us)



# IT'S NOT JUST ABOUT U-VALUES

CURED GLASS MINERAL WOOL



FIRE SAFETY



ACOUSTIC PERFORMANCE

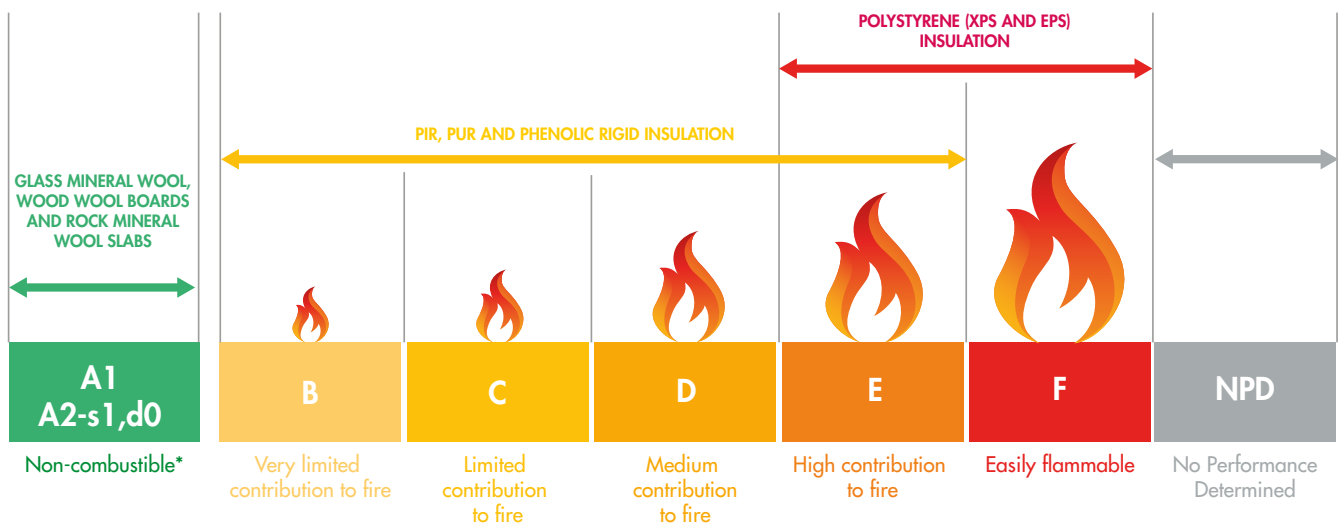


EMBODIED CARBON



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.**

