Intelligent Environments
Superglass


# A guide to intelligent Insulation

superglass.co.uk

etex inspiring ways of living

# Welcome to the Superglass insulation handy guide.

Superglass has a heritage of manufacturing insulation in Scotland for over 30 years. Today, we are no longer just an insulation manufacturer; we are focused on using glass science in the development of our products and we are an industry leader in sustainable construction solutions.

We have access to world-leading research facilities and an expansive range of integrated product solutions. While as a long-established UK brand, no-one has a better relationship with, or offers more support for their customers.

## Thinking like Superglass.

We believe now is the time to think carefully about our future. All our futures. Superglass creates intelligent insulation solutions that enable comfortable living and working environments – spaces that save energy and use recycled glass to protect our global environment too.

What we do today will have an immeasurable impact on tomorrow. And if we do the right thing, we'll all benefit. As will the next generation.

**Think about it. We do.**

# Why choose Superglass?

Performance, first and foremost. Superglass insulation is made from glass mineral wool, which not only offers excellent thermal and acoustic performance, but is also non-combustible and breathable, helping reduce risk of condensation. It consistently performs to its stated levels and as it's made from up to 84% recycled glass, it has outstanding environmental credentials too.

Working with Superglass also offers many advantages, with comprehensive technical support from beginning to end, together with in-depth knowledge of the UK construction market and the required Building Regulations.

## Thermal Benefits

Superglass insulation restricts heat transfer, meeting ever-more demanding regulations and reducing the need for heating and cooling.

## Easy & Quick To Install

Our products are light in weight and easy to carry, while glass mineral wool's flexibility makes it far easier to install than rigid insulation.


## Made in the UK

All Superglass products are proudly made in the UK for British construction. Our continued investment in the industry has created Europe's most advanced manufacturing facility in Stirling.


## The Environmental Choice

Superglass products are covered by BRE Group verified Environmental Product Declarations (EPD).


## Acoustic Benefits

Excellent sound absorption creates a more comfortable internal environment.

## Fire Credentials

All Superglass products are deemed non-combustible with a fire classification of Euroclass A1 (the highest possible rating) when tested to BS EN 13501-1 Reaction to Fire.

## Technical Support

Our free specification service can help your customers with U-value calculations, condensation risk analysis, Building Regulations compliance and more.

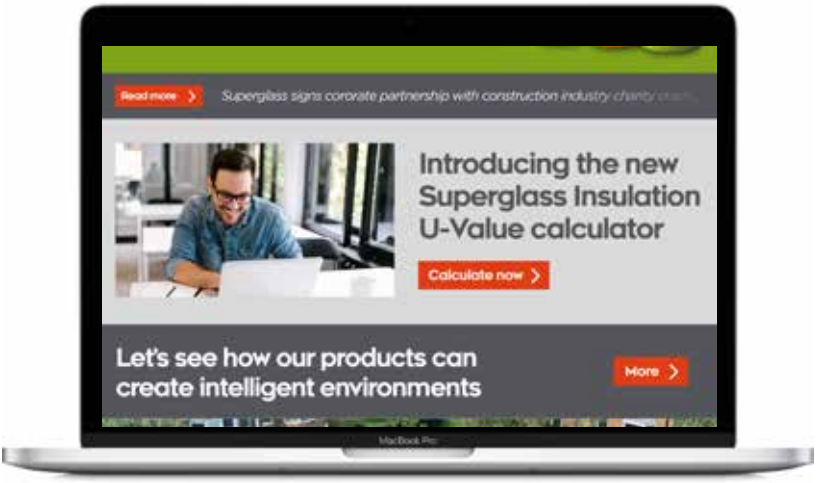
## Certification

From manufacturing to specification to performance, Superglass products meet and are approved to relevant standards and regulations.

# All the support you need...

We're renowned for the highest levels of customer support and service, and proud of our close relationships throughout the supply chain.

Our free specification service combines the skills of our external Business Development Team with our dedicated in-house Technical Team and the Superglass website contains a wide range of product and technical information, including product data sheets, DOP's and the facility to download all our BIM objects. An online U-value calculator and the facility to obtain Psi-values will help you make the most of our range of thermal insulation products at the click of a button.




## ...whenever you need it.

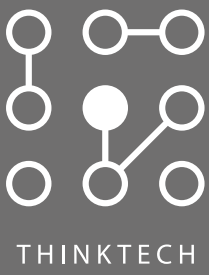
Our team will help you find the best solution for your application. And if that requires a bespoke product, they can design and produce it to your exact requirements.

The Superglass Technical Team can help with:

- U-value and Psi-value calculations
- Condensation risk analysis
- Building Regulations compliance
- Application and installation guidance
- Environmental and sustainability credentials

Call them today on 0808 1645 134
or email technical.stirling@etexgroup.com

# How Superglass sets new standards.




## Product quality.

Our product quality remains higher than ever, thanks to the introduction of THINKTECH.

THINKTECH is based around our philosophy of 'the smartest way to use energy is to not use it at all', and it's improved every aspect of Superglass insulation. Our latest generation products look better and feel better, thanks to investing in improved state-of-the-art production technology and innovative fibre science and glass chemistry.

## Packaging.

Our latest recyclable packaging is designed to be more environmentally friendly, compressing our products to make them lighter, more economical to transport and easier to carry. And with our distinctive colour coding, it's easy to choose the right product.

## Covering every application.

From roof to ground floor, the comprehensive Superglass range has every insulation need covered, with rolls and slabs in a choice of thicknesses to meet a wide range of thermal and acoustic performance criteria.


Let’s make
tomorrow better.
And think like
Superglass.

## Think about the environment.

Sustainability in construction is more important than ever. But we believe it's about more than just adding insulation to buildings. It's about looking at the bigger picture and having less of an impact on our world. That's why sustainability is intrinsic to everything we do.

## Making every environment better.

Our products retain heat, save energy, reduce noise and create a more comfortable living environment; over its lifetime, Superglass insulation saves up to 200 times the energy used to manufacture and transport it.

## Climate positive thinking.

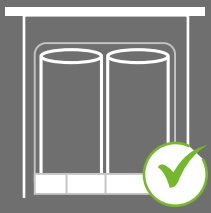
Many businesses talk about being carbon neutral – but we want to go much further. We don't just want to cancel out the effect we have on the planet, so we look for ways we and our products can have a positive effect on the climate.

## Minimising resources and much more.

Our main raw material is waste glass; our advanced production processes are designed to use less energy and recycle water and waste; and our packaging saves space and weight to reduce transportation costs and delivery miles.

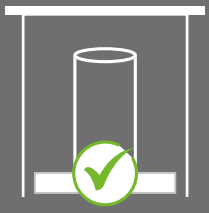
# Storage and care of Superglass products in stock.

## How to store our insulation

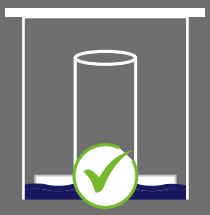


Keep the product covered and fully wrapped on a pallet until required.

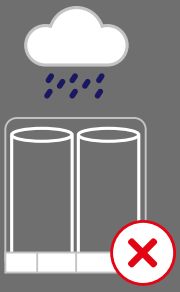
A wrapped pallet with its hood free from damage, can be left outside when space inside is not available but only for short term storage and not in severe weather.



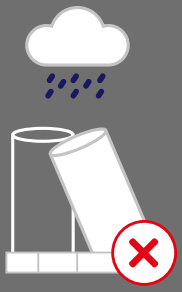
Once the plastic hood has been removed keep all of the product inside and off the ground away from the elements.



Product should be kept elevated on a pallet at all times to avoid sitting in water.



Product can become wet and damaged when exposed to the elements.



Loose product is extremely likely to have water damage when left in the rain rendering your stock unfit for sale.

**This guidance is suitable for all Superglass slab and roll products.**
**We do not recommend that Superglass pallets are double stacked.**

# Free pallet recovery service.

## A new service for our customers and a great way to protect our environment.

In association with Scott Pallets, an award-winning, national packaging recovery, repair and re-use specialist, we can now offer Superglass customers nationwide a unique and sustainable pallet recovery solution which has been endorsed by WRAP (The Waste and Resources Action Programme).

## What are the benefits for you?

- All reusable pallets go back to Superglass for re-use
- No waste to landfill: pallets are either re-used or recycled (for those damaged beyond repair)
- Cheaper than disposing of pallets in waste skips
- Nationwide solution
- Service in line with the principals of the Circular Economy
- Can form a valuable part of your sustainability strategy

## Key points:

- Free collection of reusable pallets (non-reusable pallets may attract a charge)
- Collections actioned as soon as a minimum of 50 pallets accumulated (can be a mix of pallets – not just Superglass pallets)
- Nationwide Collections within 15 workings days on average from request

## Interested? Can your site please:

- Ensure pallets are stacked on site, ready to be loaded before requesting a collection
- Load the pallets safely and efficiently onto the vehicle
- Ensure damaged pallets are also loaded
- Confirm of any vehicle or site access restrictions
- If sites can only accommodate rigid vehicles, note that the maximum quantity that can be loaded is 250 pallets (as opposed to 550 on an artic vehicle)
- Load within 1 hour of the lorry arriving on site (to avoid demurrage charges as per the RHA)

## Need a collection?

- Freephone: 0800 282 488
- Email: collection@scott-pallets.com

# Where to use Superglass insulation.

The Superglass product range covers every possible insulation need around the building envelope and our team will work closely with you and your customers to make sure the most effective solution is specified for any project.

# Product applications

## Lofts



## Ground Floors



## Internal Partition Walls



## Internal Floors



## Party/Separating Walls



## External Cavity Walls



## Timber Frame External Walls and Roofs



## Metal Clad Roofs and Walls

# Loft Spaces

# Multi-Roll 40/44

Loft Spaces

Superglass Multi-Roll is a non-combustible, glass mineral wool insulation roll. The roll is supplied partially perforated providing the flexibility to be used between common joists spacings and uncut as a full width roll as layers over the joists, reducing the need for on-site cutting and waste.

## Application:

Superglass Multi-Roll is primarily used as thermal insulation between and over the timber joists of new and existing lofts/cold pitched roofs. However, it can be used in several other applications including suspended timber ground floors.

## Performance:

**Thermal Conductivity:**

Declared thermal conductivity (lambda (λ) value) of
Multi-Roll 40 = 0.040W/mK
Multi-Roll 44 = 0.044W/mK

**Fire Classification:**

Deemed non-combustible with a fire classification of Euroclass A1 (the highest possible rating) when tested to BS EN 13501-1 Reaction to Fire.


### Multi-Roll 40

| Thickness (mm) | Length (m) | Width (mm) | Pack Area ($m^2$) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance ($m^2K/W$) | Product Code |
|---|---|---|---|---|---|---|---|
| 100 | 9.75 | 1200/2x600/3x400 | 11.700 | 24 | 0.040 | 2.50 | 2144425 |
| 150 | 6.30 | 1160/2x580/3x386 | 7.308 | 24 | 0.040 | 3.75 | 2144424 |
| 170 | 5.00 | 1160/2x580/3x386 | 5.800 | 24 | 0.040 | 3.85 | 2144422 |
| 200 | 4.60 | 1160/2x580/3x386 | 5.336 | 24 | 0.040 | 5.00 | 2144423 |

Please note that all dimensions are nominal.

### Multi-Roll 44

| Thickness (mm) | Length (m) | Width (mm) | Pack Area ($m^2$) | Thermal Conductivity (W/mK) | Thermal Resistance ($m^2K/W$) | Product Code |
|---|---|---|---|---|---|---|
| 100 | 10.10 | 1200/2x600/3x400 | 12.120 | 0.044 | 2.25 | 2144311 |
| 150 | 6.65 | 1160/2x580/3x386 | 7.714 | 0.044 | 3.40 | 2144310 |
| 170 | 5.80 | 1160/2x580/3x386 | 6.728 | 0.044 | 3.85 | 2144309 |
| 200 | 4.85 | 1160/2x580/3x386 | 5.626 | 0.044 | 4.50 | 2144308 |

Please note that all dimensions are nominal.

# Handy Pack 44

Loft Spaces

Superglass Handy Pack 44 is a non-combustible glass mineral wool insulation roll. The roll is supplied in shorter roll length for ease of handling and partially perforated providing the flexibility to be used between common joists spacings and uncut as a full width roll as layers over the joists, reducing the need for on-site cutting and waste.

## Application:

Superglass Handy Pack 44 is primarily used as thermal insulation between and over the timber joists of new and existing lofts/cold pitched roofs. However, it can be used in several other applications including suspended timber ground floors.

## Performance

**Thermal Conductivity:**

Declared thermal conductivity (lambda (λ) value) of 0.044W/mK

**Fire Classification:**

Deemed non-combustible with a fire classification of Euroclass A1 (the highest possible rating) when tested to BS EN 13501-1 Reaction to Fire.

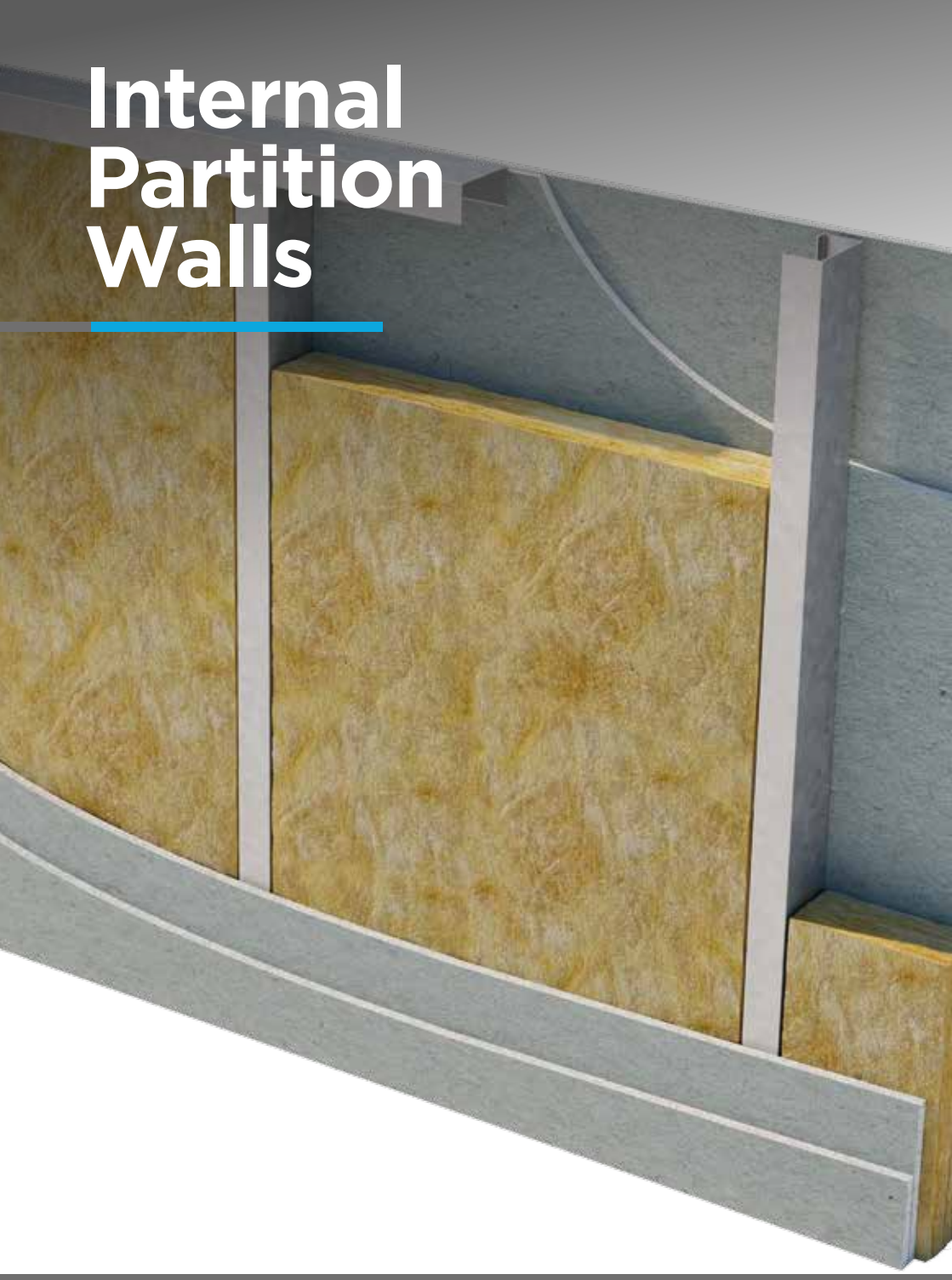

### Handy Pack 44

| Thickness (mm) | Length (m) | Width (mm) | Pack Area ($m^2$) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance ($m^2K/W$) | Product Code |
|---|---|---|---|---|---|---|---|
| 100 | 7.00 | 1140/2x570/3x380 | 7.980 | 30 | 0.044 | 2.25 | 2144312 |

Please note that all dimensions are nominal.


Super
NEW
Loft
Insul
Superglass
Loft
Insulation
IMPACT
Tel: 0845 601 5559
Flexi AC

# Internal Partition Walls



# Acoustic Partition Roll (APR)

Internal Partition Walls

Superglass Acoustic Partition Roll (APR) is a non-combustible glass mineral wool insulation roll. The roll is supplied at 1200mm and 2x600mm widths to allow quick and easy installation between common stud/joist spacings, minimising gaps at joints and reducing on-site cutting.

## Application:

Superglass Acoustic Partition Roll (APR) is designed to provide thermal and acoustic insulation for the following applications:

- Internal walls and floors
- Timber and metal stud partitions
- Separating walls and floors
- Drylining systems

## Performance:

**Density:**

25mm is manufactured at a nominal density of 18kg/m$^3$ 40mm and 50mm is manufactured at a nominal density of 16kg/m$^3$

**Thermal Conductivity:**

25mm has a declared thermal conductivity (lambda (λ) value) of 0.036W/mK
40mm and 50mm has a declared thermal conductivity (lambda (λ) value) of 0.038W/mK

**Fire Classification:**

Deemed non-combustible with a fire classification of Euroclass A1 (the highest possible rating) when tested to BS EN 13501-1 Reaction to Fire.



| Thickness (mm) | Length (m) | Width (mm) | Roll per pack | Pack Area (m$^2$) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance (m$^2$K/W) | Product Code |
|---|---|---|---|---|---|---|---|---|
| 25 | 11.25 | 1200 | 2 | 27.000 | 24 | 0.036 | 0.65 | 2144464 |
| 25 | 11.25 | 2x600 | 4 | 27.000 | 24 | 0.036 | 0.65 | 2144465 |
| 40 | 9.00 | 1200 | 2 | 21.600 | 24 | 0.038 | 1.05 | 2144529 |
| 50 | 6.50 | 1200 | 2 | 15.600 | 24 | 0.038 | 1.30 | 2144448 |
| 50 | 6.50 | 2x600 | 4 | 15.600 | 24 | 0.038 | 1.30 | 2144466 |

Please note that all dimensions are nominal.

# Multi Acoustic Roll

Internal Partition Walls

Superglass Multi Acoustic Roll is a non-combustible glass mineral wool insulation roll. The flexible roll is partially perforated at 2x600mm and 3x400mm widths to allow quick and easy installation between common stud/joist spacings, minimising gaps at joints and reducing on-site cutting.


## Application:

Superglass Multi Acoustic Roll is designed to provide thermal and acoustic insulation for the following applications:

- Internal walls and floors
- Timber and metal stud partitions
- Separating walls and floors
- Drylining systems

## Performance:

**Density:**
Manufactured at a minimum density of 10kg/m$^3$

**Thermal Conductivity:**
Declared thermal conductivity (lambda (λ) value) of 0.044W/mK

**Fire Classification:**
Deemed non-combustible with a fire classification of Euroclass A1 (the highest possible rating) when tested to BS EN 13501-1 Reaction to Fire.


| Thickness (mm) | Length (m) | Width (mm) | Pack Area (m²) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance (m²K/W) | Product Code |
|---|---|---|---|---|---|---|---|
| 60 | 11.25 | 1200/2x600/3x400 | 13.500 | 24 | 0.044 | 1.35 | 2144295 |
| 75 | 10.50 | 1200/2x600/3x400 | 12.600 | 24 | 0.044 | 1.70 | 2144388 |
| 80 | 10.40 | 1200/2x600/3x400 | 12.480 | 24 | 0.044 | 1.80 | 2144296 |
| 100 | 10.10 | 1200/2x600/3x400 | 12.120 | 24 | 0.044 | 2.25 | 2144294 |

Please note that all dimensions are nominal.

# Multi Purpose Acoustic Slab

Internal Partition Walls

Superglass Multi Purpose Acoustic Slab is a non-combustible glass mineral wool insulation slab. The flexible slab is supplied at 600mm width to allow easy installation between common stud/joist spacings minimising gaps at joints and reducing on-site cutting.


## Application:

Superglass Multi Purpose Acoustic Slab is designed to provide thermal and acoustic insulation in a wide range of timber & metal applications including:

- Light steel framing systems (between studs only)
- Internal walls and floors
- Separating walls and floors
- Timber and metal stud partitions
- Timber frame roofs and floors

## Performance:

**Density:**
Manufactured at a nominal density of 22kg/m$^3$

**Thermal Conductivity:**
Declared thermal conductivity (lambda (λ) value) of 0.035W/mK

**Fire Classification:**
Deemed non-combustible with a fire classification of Euroclass A1 (the highest possible rating) when tested to BS EN 13501-1 Reaction to Fire.


| Thickness (mm) | Length (mm) | Width (mm) | Slabs per pack | Pack Area (m$^2$) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance (m$^2$K/W) | Product Code |
|---|---|---|---|---|---|---|---|---|
| 50 | 1200 | 600 | 16 | 11.520 | 16 | 0.035 | 1.40 | 2144434 |
| 70 | 1200 | 600 | 12 | 8.640 | 16 | 0.035 | 2.00 | 2144433 |
| 75 | 1200 | 600 | 12 | 8.640 | 16 | 0.035 | 2.10 | 2144435 |
| 100 | 1200 | 600 | 8 | 5.760 | 16 | 0.035 | 2.85 | 2144436 |
| 150 | 1200 | 600 | 4 | 2.880 | 16 | 0.035 | 4.25 | 2144432 |

Please note that all dimensions are nominal.

# Internal Floors

# Multi Purpose Acoustic Slab

Internal Floors

Superglass Multi Purpose Acoustic Slab is a non-combustible glass mineral wool insulation slab. The flexible slab is supplied at 600mm width to allow easy installation between common stud/joist spacings minimising gaps at joints and reducing on-site cutting.

## Application:

Superglass Multi Purpose Acoustic Slab is designed to provide thermal and acoustic insulation in a wide range of timber & metal applications including:

- Light steel framing systems (between studs only)
- Internal walls and floors
- Separating walls and floors
- Timber and metal stud partitions
- Timber frame roofs and floors


## Performance:

**Density:**
Manufactured at a nominal density of 22kg/m$^3$

**Thermal Conductivity:**
Declared thermal conductivity (lambda (λ) value) of 0.035W/mK

**Fire Classification:**
Deemed non-combustible with a fire classification of Euroclass A1 (the highest possible rating) when tested to BS EN 13501-1 Reaction to Fire.


| Thickness (mm) | Length (mm) | Width (mm) | Slabs per pack | Pack Area (m$^2$) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance (m$^2$K/W) | Product Code |
|---|---|---|---|---|---|---|---|---|
| 50 | 1200 | 600 | 16 | 11.520 | 16 | 0.035 | 1.40 | 2144434 |
| 70 | 1200 | 600 | 12 | 8.640 | 16 | 0.035 | 2.00 | 2144433 |
| 75 | 1200 | 600 | 12 | 8.640 | 16 | 0.035 | 2.10 | 2144435 |
| 100 | 1200 | 600 | 8 | 5.760 | 16 | 0.035 | 2.85 | 2144436 |
| 150 | 1200 | 600 | 4 | 2.880 | 16 | 0.035 | 4.25 | 2144432 |

Please note that all dimensions are nominal.

# Multi Acoustic Roll

Internal Floors

Superglass Multi Acoustic Roll is a non-combustible glass mineral wool insulation roll. The flexible roll is partially perforated at 2x600mm and 3x400mm widths to allow quick and easy installation between common stud/joist spacings, minimising gaps at joints and reducing on-site cutting.


## Application:

Superglass Multi Acoustic Roll is designed to provide thermal and acoustic insulation for the following applications:

- Internal walls and floors
- Timber and metal stud partitions
- Separating walls and floors
- Drylining systems

## Performance:

**Density:**
Manufactured at a minimum density of 10kg/m$^3$

**Thermal Conductivity:**
Declared thermal conductivity (lambda (λ) value) of 0.044W/mK

**Fire Classification:**
Deemed non-combustible with a fire classification of Euroclass A1 (the highest possible rating) when tested to BS EN 13501-1 Reaction to Fire.

| Thickness (mm) | Length (m) | Width (mm) | Pack Area (m²) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance (m²K/W) | Product Code |
|---|---|---|---|---|---|---|---|
| 60 | 11.25 | 1200/2x600/3x400 | 13.500 | 24 | 0.044 | 1.35 | 2144295 |
| 75 | 10.50 | 1200/2x600/3x400 | 12.600 | 24 | 0.044 | 1.70 | 2144388 |
| 80 | 10.40 | 1200/2x600/3x400 | 12.480 | 24 | 0.044 | 1.80 | 2144296 |
| 100 | 10.10 | 1200/2x600/3x400 | 12.120 | 24 | 0.044 | 2.25 | 2144294 |

Please note that all dimensions are nominal.

# Acoustic Partition Roll (APR)

Internal Floors

Superglass Acoustic Partition Roll (APR) is a non-combustible glass mineral wool insulation roll. The roll is supplied at 1200mm and 2x600mm widths to allow quick and easy installation between common stud/joist spacings, minimising gaps at joints and reducing on-site cutting.

## Application:

Superglass Acoustic Partition Roll (APR) is designed to provide thermal and acoustic insulation for the following applications:

- Internal walls and floors
- Timber and metal stud partitions
- Separating walls and floors
- Drylining systems

## Performance:

**Density:**

25mm is manufactured at a nominal density of 18kg/m$^3$. 40mm and 50mm is manufactured at a nominal density of 16kg/m$^3$

**Thermal Conductivity:**

25mm has a declared thermal conductivity (lambda (λ) value) of 0.036W/mK
40mm and 50mm has a declared thermal conductivity (lambda (λ) value) of 0.038W/mK

**Fire Classification:**

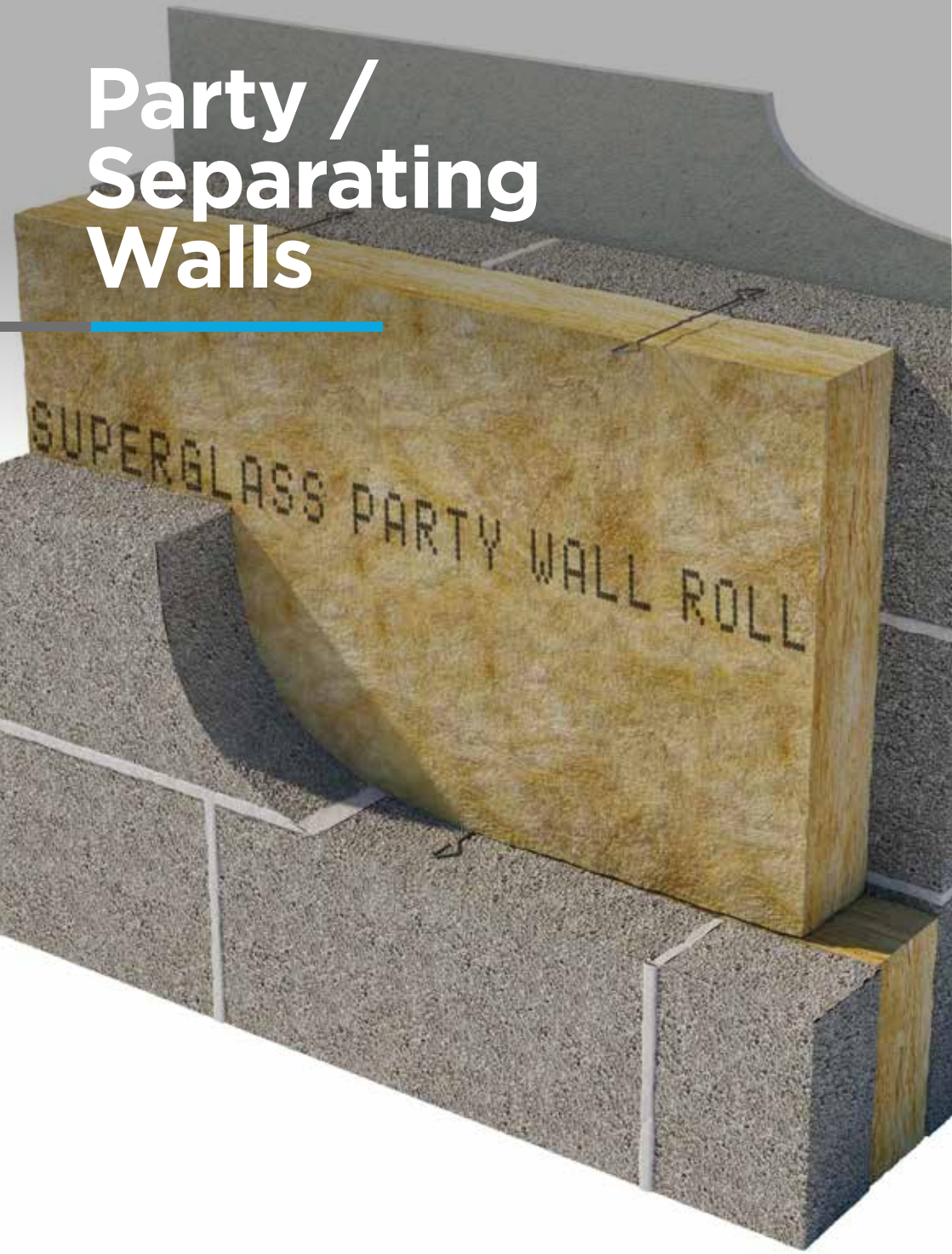
Deemed non-combustible with a fire classification of Euroclass A1 (the highest possible rating) when tested to BS EN 13501-1 Reaction to Fire.



| Thickness (mm) | Length (m) | Width (mm) | Roll per pack | Pack Area (m$^2$) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance (m$^2$K/W) | Product Code |
|---|---|---|---|---|---|---|---|---|
| 25 | 11.25 | 1200 | 2 | 27.000 | 24 | 0.036 | 0.65 | 2144464 |
| 25 | 11.25 | 2x600 | 4 | 27.000 | 24 | 0.036 | 0.65 | 2144465 |
| 40 | 9.00 | 1200 | 2 | 21.600 | 24 | 0.038 | 1.05 | 2144529 |
| 50 | 6.50 | 1200 | 2 | 15.600 | 24 | 0.038 | 1.30 | 2144448 |
| 50 | 6.50 | 2x600 | 4 | 15.600 | 24 | 0.038 | 1.30 | 2144466 |

Please note that all dimensions are nominal.

# Party / Separating Walls



# Party Wall Roll

Party / Separating Walls

Superglass Party Wall Roll is a non-combustible glass mineral wool insulation roll. The flexible roll is cut at 3x455mm widths to fit between standard wall ties spacings and to allow easy installation and minimum on-site cutting and waste.

## Application:

Superglass Party Wall Roll is designed to provide thermal and acoustic insulation within masonry party/separating walls.

Superglass Party Wall Roll may be used as a component in several Robust Details Solutions including proprietary systems E-WM-22, E-WM-23 & E-WM-27. It may also be used in party wall systems which require on-site pre completion. The product can be used as part of a full fill solution to achieve a zero effective U-value.

## Performance

**Density:**
Manufactured at a minimum density of 18kg/m$^3$

**Thermal Conductivity:**
Declared thermal conductivity (lambda (λ) value) of 0.036W/mK

**Fire Classification:**
Deemed non-combustible with a fire classification of Euroclass A1 (the highest possible rating) when tested to BS EN 13501-1 Reaction to Fire.


| Thickness (mm) | Length (m) | Width (mm) | Pack Area (m²) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance (m²K/W) | Product Code |
|---|---|---|---|---|---|---|---|
| 75 | 7.70 | 3x455 | 10.511 | 24 | 0.036 | 2.05 | 2144321 |
| 100 | 5.75 | 3x455 | 7.849 | 24 | 0.036 | 2.75 | 2144320 |
| 125 | 4.50 | 3x455 | 6.143 | 24 | 0.036 | 3.45 | 2144322 |
| 150 | 3.50 | 3x455 | 4.778 | 24 | 0.036 | 4.15 | 2144319 |

Please note that all dimensions are nominal.

## Superglass Party Wall Roll is suitable for use in robustdetails® masonry party walls.

| Robust Details Solutions - England, Wales & Northern Ireland | | | | |
|---|---|---|---|---|
| Robust Detail | Minimum Cavity Width (mm) | Block Type & Density (kg/m³) | Parge Coat Required | Wall Finish |
| E-WM-1 | 75 | Dense Aggregate - 1850 to 2300 | No | Wet Plaster |
| E-WM-2 | 75 | Lightweight Aggregate - 1350 to 1600 | No | Wet Plaster |
| E-WM-3 | 75 | Dense Aggregate - 1850 to 2300 | Yes | Render and gypsum-based board on dabs |
| E-WM-4 | 75 | Lightweight Aggregate - 1350 to 1600 | Yes | Render and gypsum-based board on dabs |
| E-WM-5 | 75 | Besblock 'Star Performer' - 1528 | Yes | Render and gypsum-based board on dabs |
| E-WM-6 | 75 | Aircrete - 600 to 800 | Yes | Render and gypsum-based board on dabs |
| E-WM-10 | 75 | Aircrete - Thin Joint System - 600 to 800 | Yes | Render and gypsum-based board on dabs |
| E-WM-11 | 100 | Lightweight Aggregate - 1350 to 1600 | Yes | Render and gypsum-based board on dabs |
| E-WM-12 | 75 | Plasmor 'Aglite Ultima' - 1050 | Yes | Render and gypsum-based board on dabs |
| E-WM-13 | 75 | Aircrete - Thin Joint Untied System - 600 to 800 | Yes | Render and gypsum-based board on dabs |
| E-WM-16 | 100 | Dense Aggregate - 1850 to 2300 | Yes | Render and gypsum-based board on dabs |
| E-WM-18 | 100 | Dense Aggregate - 1850 to 2300 | No | Wet Plaster |
| E-WM-19 | 100 | Dense or Lightweight Aggregate - 1350 to 1600 or 1850 to 2300 | Yes | Render and gypsum-based board on dabs |
| E-WM-21 | 100 | Lightweight Aggregate - 1350 to 1600 | No | Wet Plaster |
| E-WM-22 | 100 | Lightweight Aggregate - 1350 to 1600 or Plasmor 'Aglite Ultima' - 1050 | No | Gypsum-based board on dabs |
| E-WM-23 | 100 | Aircrete - Standard and Thin Joint - 600 to 800 | No | Gypsum-based board on dabs |
| E-WM-25 | 100 | Porotherm - Thin Joint - n/a | Yes | Ecoparge gypsum-based board on dabs |
| E-WM-26 | 100 | Besblock 'Star Performer' - 1528 | No | Gypsum-based board on dabs |
| E-WM-27 | 75 | Lightweight Aggregate - 1350 to 1600 | No | Gypsum-based board on dabs |
| E-WM-29 | 75 | Porotherm - Thin Joint - n/a | Yes | Ecoparge gypsum-based board on dabs |
| E-WM-31 | 100 | H+H Celcon Elements - thin joint - 575 | No | Gypsum-based board on dabs |
| E-WM-34 | 100 | Plasmor 'Aglite Ultima' - 1050 | No | Gypsum-based board on dabs |

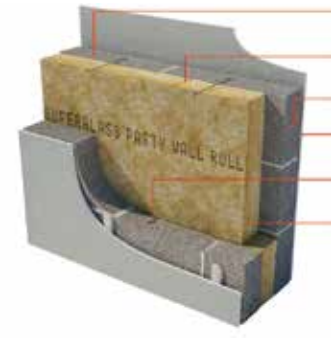
Please note: The requirements of the Robust Details Handbook should be strictly followed.

## Benefits

- Party Wall Thermal Bypass – Full-fill solution to aid zero U-value compliance.
- No requirement for pre-completion acoustic testing.

# Recommended Robust Details Solutions

## Robust Detail E-WM-22




**Block density:** 1350 to 1600 kg/m$^3$ or Plasmor Aglite Ultima 1050kg/m$^3$

**Cavity width:** 100mm (min)

**Block thickness:** 100mm (min), each leaf

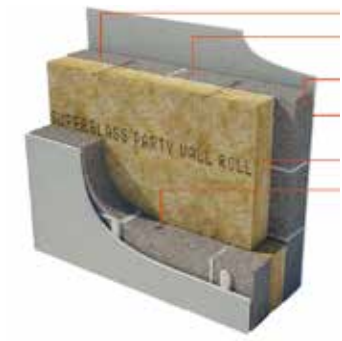
**Wall finish:** Gypsum based board mounted on dabs (nominal 10kg/m$^2$)

**Wall Ties:** Approved Document E 'Tie type A'

**Insulation:** Superglass Party Wall Roll

**External flanking wall:** Masonry (both leaves) with 50mm (min) cavity – fully filled or partially filled with Superglass Cavity Wall Insulation

## Robust Detail E-WM-23




**Block density:** 600 to 800kg/m$^3$

**Cavity width:** 100mm (min)

**Block thickness:** 100mm (min), each leaf

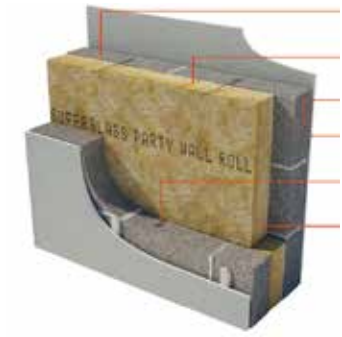
**Wall finish:** Gypsum based board mounted on dabs (nominal 8kg/m$^2$)

**Insulation:** Superglass Party Wall Roll

**Wall Ties:** Approved Document E 'Tie type A'. For thin joint, wall ties must be Ancon Building Products Staifix HRT4 or Clan PWT4 at no more than 2.5 ties per square metre

**External flanking wall:** Masonry (both leaves) with 50mm (min) cavity – fully filled or partially filled with Superglass Cavity Wall Insulation

## Robust Detail E-WM-27




**Block density:** 1350 to 1600 kg/m$^3$

**Cavity width:** 75mm (min)

**Block thickness:** 100mm (min), each leaf

**Wall finish:** Gypsum based board mounted on dabs (nominal 8kg/m$^2$)

**Wall Ties:** Approved Document E 'Tie type A'

**Insulation:** Superglass Party Wall Roll

**External flanking wall:** Masonry (both leaves) with 50mm (min) cavity - fully filled or partially filled with Superglass Cavity Wall Insulation

# Timber Frame Party Wall Roll

Party / Separating Walls

Superglass TF Party Wall Roll is a non-combustible glass mineral wool insulation roll. The flexible roll is supplied 2x675mm or 1200mm wide to allow easy installation and minimum on-site cutting and waste.

## Application:

Superglass TF Party Wall Roll is designed to provide thermal and acoustic insulation within timber frame party/separating wall cavities.

Superglass TF Party Wall Roll may be used as a component in Robust Details solutions E-WT-1 and E-WT-2, It may also be used in party wall systems which require on-site pre-completion and can be used as part of a full fill solution to achieve a zero effective U-value.


## Performance

**Density:**
Manufactured at a minimum density of 18kg/m$^3$

**Thermal Conductivity:**
Declared thermal conductivity (lambda (λ) value) of 0.036W/mK

**Fire Classification:**
Deemed non-combustible with a fire classification of Euroclass A1 (the highest possible rating) when tested to BS EN 13501-1 Reaction to Fire.

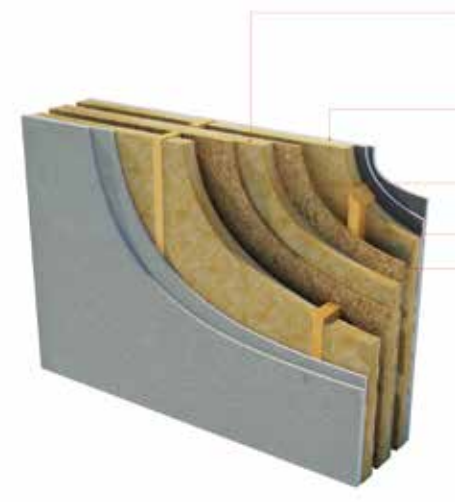

| Thickness (mm) | Length (m) | Width (mm) | Pack Area (m$^2$) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance (m$^2$K/W) | Product Code |
|---|---|---|---|---|---|---|---|
| 60 | 10.50 | 2x675 | 14.175 | 24 | 0.036 | 1.60 | 2144317 |
| 60 | 11.50 | 1200 | 13.800 | 24 | 0.036 | 1.60 | 2144328 |

Please note that all dimensions are nominal.

## Superglass Party Wall Roll is suitable for use in robustdetails® timber frame party & separating walls.

## Recommended Robust Details Solutions

### E-WT-2 (England & Wales) and V-WT-2 (Scotland)



**Wall width:** 240mm (min) between inner faces of wall linings 50mm (min) cavity (gap between wall panels) 68mm (min) between stud frames

**Wall lining:** 2 or more layers of gypsum-based board (total nominal mass per unit area 22 kg/ $m^2$), both sides - all joints staggered

**Insulation:** Superglass TF Party Wall Roll

**Sheathing:** 9mm (min) thick board.

**Absorbent material:** 60mm (min) mineral wool batts or quilt (density 10 - 60kg/$m^3$) both sides i.e Superglass Multi Acoustic Roll, Superglass Timber & Rafter Roll

**Ties:** Between frames not more than 40mm x 3mm, at 1200mm (min) centres horizontally, one row of ties per storey height vertically.

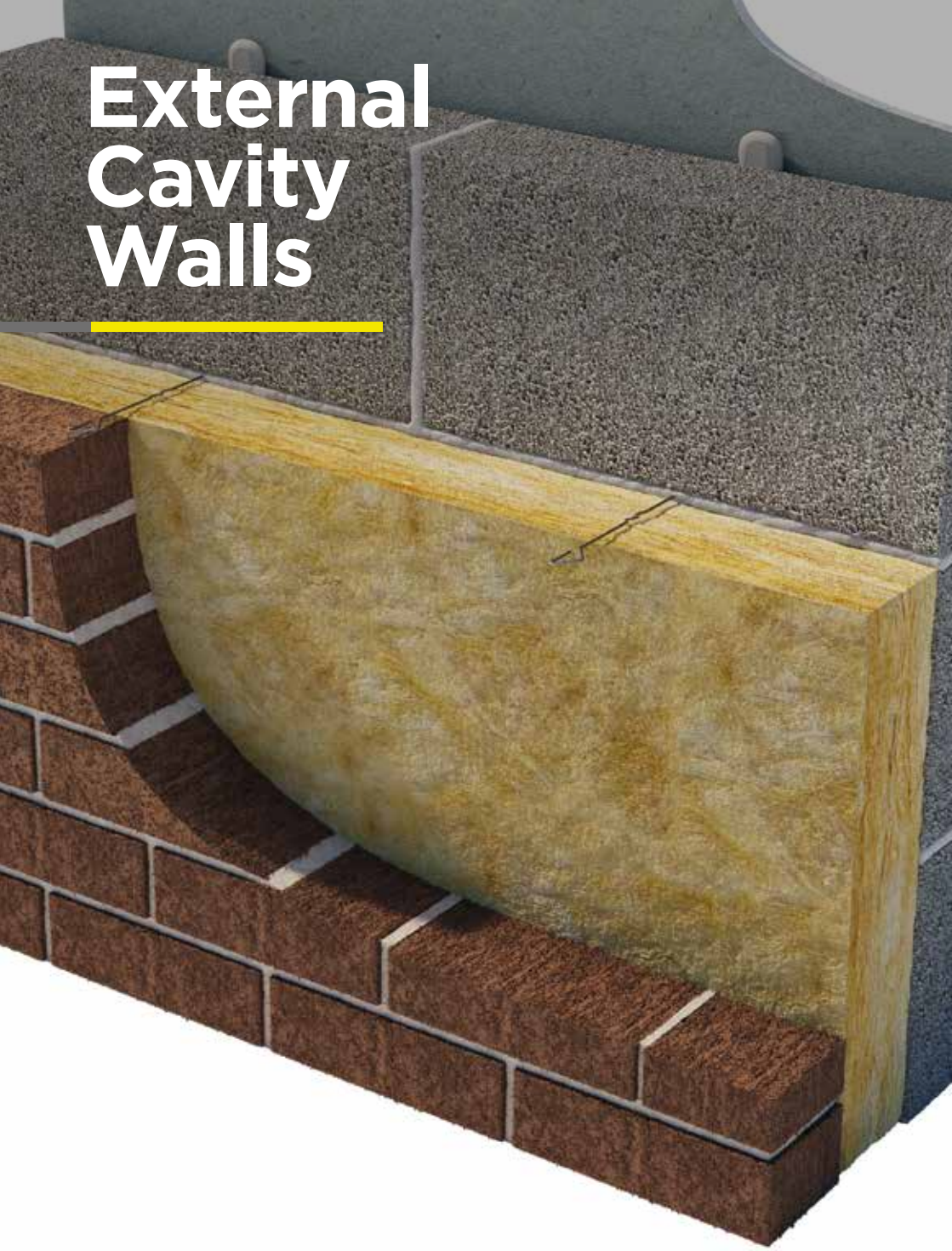
**External (flanking) wall:** Outer leaf masonry with minimum 50mm cavity.

Please note: The requirements of the Robust Details Handbook should be strictly followed.

### Benefits

- Party Wall Thermal Bypass - Full-fill solution to aid zero U-value compliance.
- No requirement for pre-completion acoustic testing.

# External Cavity Walls



# Superwall 32/34/36 Cavity Batts

External Cavity Walls

Superglass Superwall is a British Board of Agrément (BBA) approved, non-combustible and water repellent glass mineral wool insulation cavity wall batt. The flexible batt is supplied at 455mm wide to allow easy installation between standard vertical wall tie spacings, reducing the need for on-site cutting and waste.

## Application:

Superglass Superwall is designed to provide thermal insulation in full or partial fill in new external masonry cavity walls.

## Performance:

**Thermal Conductivity:**

Declared thermal conductivity (lambda (λ) value) of:
Superwall 32 - 0.032W/mK
Superwall 34 - 0.034W/mK
Superwall 36 - 0.036W/mK

**Fire Classification:**

Deemed non-combustible with a fire classification of Euroclass A1 (the highest possible rating) when tested to BS EN 13501-1 Reaction to Fire.



BBA

### Superwall 32

| Thickness (mm) | Length (mm) | Width (mm) | Batts per pack | Pack Area (m²) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance (m²K/W) | Product Code |
|---|---|---|---|---|---|---|---|---|
| 75 | 1200 | 455 | 8 | 4.368 | 30 | 0.032 | 2.30 | 2144313 |
| 85 | 1200 | 455 | 8 | 4.368 | 30 | 0.032 | 2.65 | 2144314 |
| 100 | 1200 | 455 | 6 | 3.276 | 30 | 0.032 | 3.10 | 2144315 |
| 125 | 1200 | 455 | 4 | 2.184 | 30 | 0.032 | 3.90 | 2144316 |
| 135 | 1200 | 455 | 4 | 2.184 | 30 | 0.032 | 4.20 | 2144329 |
| 150 | 1200 | 455 | 4 | 2.184 | 30 | 0.032 | 4.65 | 2144449 |

Please note that all dimensions are nominal.

### Superwall 34

| Thickness (mm) | Length (mm) | Width (mm) | Batts per pack | Pack Area (m²) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance (m²K/W) | Product Code |
|---|---|---|---|---|---|---|---|---|
| 75 | 1200 | 455 | 8 | 4.368 | 30 | 0.034 | 2.30 | 2144412 |
| 100 | 1200 | 455 | 6 | 3.276 | 30 | 0.034 | 2.90 | 2144413 |
| 125 | 1200 | 455 | 6 | 3.276 | 30 | 0.034 | 3.65 | 2144318 |
| 150 | 1200 | 455 | 4 | 2.184 | 30 | 0.034 | 4.40 | 2144414 |

Please note that all dimensions are nominal.

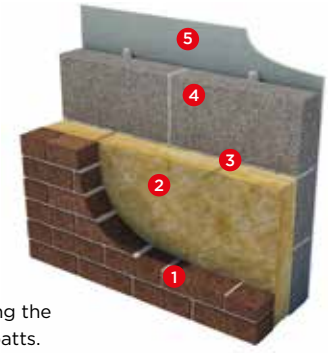
### Superwall 36

| Thickness (mm) | Length (mm) | Width (mm) | Batts per pack | Pack Area (m²) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance (m²K/W) | Product Code |
|---|---|---|---|---|---|---|---|---|
| 50 | 1200 | 455 | 16 | 8.736 | 30 | 0.036 | 1.35 | 2144288 |
| 75 | 1200 | 455 | 10 | 5.460 | 30 | 0.036 | 2.05 | 2144289 |
| 85 | 1200 | 455 | 8 | 4.368 | 30 | 0.036 | 2.35 | 2144405 |
| 100 | 1200 | 455 | 8 | 4.368 | 30 | 0.036 | 2.75 | 2144290 |
| 125 | 1200 | 455 | 6 | 3.276 | 30 | 0.036 | 3.45 | 2144406 |
| 150 | 1200 | 455 | 6 | 3.276 | 30 | 0.036 | 4.15 | 2144291 |

Please note that all dimensions are nominal.

External Cavity Walls

1. Outer Leaf - 102.5mm Brick
2. Superwall Cavity Batt fully filling the cavity
3. Wall ties
4. Inner Leaf - 100mm Blocks
5. 12.5mm Standard Plasterboard on dabs



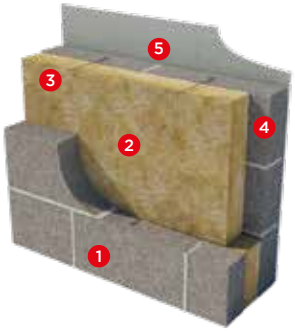

Typical U-values (W/m²K) achieved when fully filling the wall cavity with Superglass Superwall cavity wall batts.

## Brick and Block Construction

### Full Fill

| Outer Leaf - Brick | 102.5mm (0.77W/mK) | 102.5mm (0.77W/mK) | 102.5mm (0.77W/mK) | 102.5mm (0.77W/mK) | 102.5mm (0.77W/mK) | 102.5mm (0.77W/mK) |
|---|---|---|---|---|---|---|
| Inner leaf - Blocks | 100mm Dense (1.13W/mK) | 100mm Medium Dense (0.45W/mK) | 100mm Ultra Lightweight Aggregate (0.28W/mK) | 100mm High Strength Aircrete (0.19W/mK) | 100mm Standard Aircrete (0.15W/mK) | 100mm High Performance Aircrete (0.11W/mK) |
| 100mm Superwall 36 | 0.30 | 0.29 | 0.28 | 0.27 | 0.26 | 0.25 |
| 125mm Superwall 36 | 0.25 | 0.24 | 0.23 | 0.23 | 0.22 | 0.21 |
| 150mm Superwall 36 | 0.21 | 0.21 | 0.20 | 0.20 | 0.19 | 0.19 |
| 175mm Superwall 36 (100+75mm) | 0.19 | 0.19 | 0.18 | 0.18 | 0.18 | 0.17 |
| 200mm Superwall 36 (2x100mm) | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.15 |
| 100mm Superwall 34 | 0.28 | 0.27 | 0.27 | 0.26 | 0.25 | 0.24 |
| 125mm Superwall 34 | 0.24 | 0.23 | 0.22 | 0.22 | 0.21 | 0.2 |
| 150mm Superwall 34 | 0.20 | 0.20 | 0.19 | 0.19 | 0.18 | 0.18 |
| 175mm Superwall 34 (100+75mm) | 0.18 | 0.18 | 0.18 | 0.17 | 0.17 | 0.16 |
| 200mm Superwall 34 (2x100mm) | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 |
| 100mm Superwall 32 | 0.27 | 0.26 | 0.25 | 0.25 | 0.24 | 0.23 |
| 125mm Superwall 32 | 0.22 | 0.22 | 0.21 | 0.21 | 0.20 | 0.19 |
| 150mm Superwall 32 | 0.19 | 0.19 | 0.18 | 0.18 | 0.17 | 0.17 |
| 175mm Superwall 32 (100+75mm) | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 |
| 200mm Superwall 32 (2x100mm) | 0.15 | 0.15 | 0.15 | 0.15 | 0.14 | 0.14 |

1. Outer Leaf - 100mm Blocks with render
2. Superwall Cavity Batt fully filling the cavity
3. Wall ties
4. Inner Leaf - 100mm Blocks
5. 12.5mm Standard Plasterboard on dabs




External Cavity Walls

## Block and Block Construction

### Full Fill

| Outer Leaf - Blocks | 100mm Dense (1.13W/mK) | 100mm Dense (1.13W/mK) | 100mm Dense (1.13W/mK) | 100mm Dense (1.13W/mK) | 100mm Dense (1.13W/mK) | 100mm Dense (1.13W/mK) |
|---|---|---|---|---|---|---|
| **Inner leaf - Blocks** | **100mm Dense (1.13W/mK)** | **100mm Medium Dense (0.45W/mK)** | **100mm Ultra Lightweight Aggregate (0.28W/mK)** | **100mm High Strength Aircrete (0.19W/mK)** | **100mm Standard Aircrete (0.15W/mK)** | **100mm High Performance Aircrete (0.11W/mK)** |
| 100mm Superwall 36 | 0.30 | 0.29 | 0.28 | 0.27 | 0.26 | 0.25 |
| 125mm Superwall 36 | 0.25 | 0.24 | 0.23 | 0.23 | 0.22 | 0.21 |
| 150mm Superwall 36 | 0.21 | 0.21 | 0.20 | 0.20 | 0.19 | 0.19 |
| 175mm Superwall 36 (100+75mm) | 0.19 | 0.19 | 0.19 | 0.18 | 0.18 | 0.17 |
| 200mm Superwall 36 (2x100mm) | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.15 |
| 100mm Superwall 34 | 0.29 | 0.28 | 0.27 | 0.26 | 0.25 | 0.24 |
| 125mm Superwall 34 | 0.24 | 0.23 | 0.22 | 0.22 | 0.21 | 0.21 |
| 150mm Superwall 34 | 0.20 | 0.20 | 0.19 | 0.19 | 0.18 | 0.18 |
| 175mm Superwall 34 (100+75mm) | 0.18 | 0.18 | 0.18 | 0.17 | 0.17 | 0.16 |
| 200mm Superwall 34 (2x100mm) | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 |
| 100mm Superwall 32 | 0.27 | 0.26 | 0.26 | 0.25 | 0.24 | 0.23 |
| 125mm Superwall 32 | 0.22 | 0.22 | 0.21 | 0.21 | 0.20 | 0.20 |
| 150mm Superwall 32 | 0.19 | 0.19 | 0.18 | 0.18 | 0.17 | 0.17 |
| 175mm Superwall 32 (100+75mm) | 0.18 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 |
| 200mm Superwall 32 (2x100mm) | 0.16 | 0.15 | 0.15 | 0.15 | 0.14 | 0.14 |

# Ground Floors

# Multi-Roll 40/44

Ground Floors

Superglass Multi-Roll is a non-combustible, glass mineral wool insulation roll. The roll is supplied partially perforated providing the flexibility to be used between common joists spacings and as uncut as a full width roll as layers over the joists, reducing the need for on-site cutting and waste.


## Application:

Superglass Multi-Roll is primarily used as thermal insulation between and over the timber joists of new and existing lofts/cold pitched roofs. However, it can be used in several other applications including suspended timber ground floors.

## Performance:

**Thermal Conductivity:**

Declared thermal conductivity (lambda (λ) value) of
Multi-Roll 40 = 0.040W/mK
Multi-Roll 44 = 0.044W/mK

**Fire Classification:**

Deemed non-combustible with a fire classification of Euroclass A1 (the highest possible rating) when tested to BS EN 13501-1 Reaction to Fire.


### Multi-Roll 40

| Thickness (mm) | Length (m) | Width (mm) | Pack Area ($m^2$) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance ($m^2K/W$) | Product Code |
|---|---|---|---|---|---|---|---|
| 100 | 9.75 | 1200/2x600/3x400 | 11.700 | 24 | 0.040 | 2.50 | 2144425 |
| 150 | 6.30 | 1160/2x580/3x386 | 7.308 | 24 | 0.040 | 3.75 | 2144424 |
| 170 | 5.00 | 1160/2x580/3x386 | 5.800 | 24 | 0.040 | 3.85 | 2144422 |
| 200 | 4.60 | 1160/2x580/3x386 | 5.336 | 24 | 0.040 | 5.00 | 2144423 |

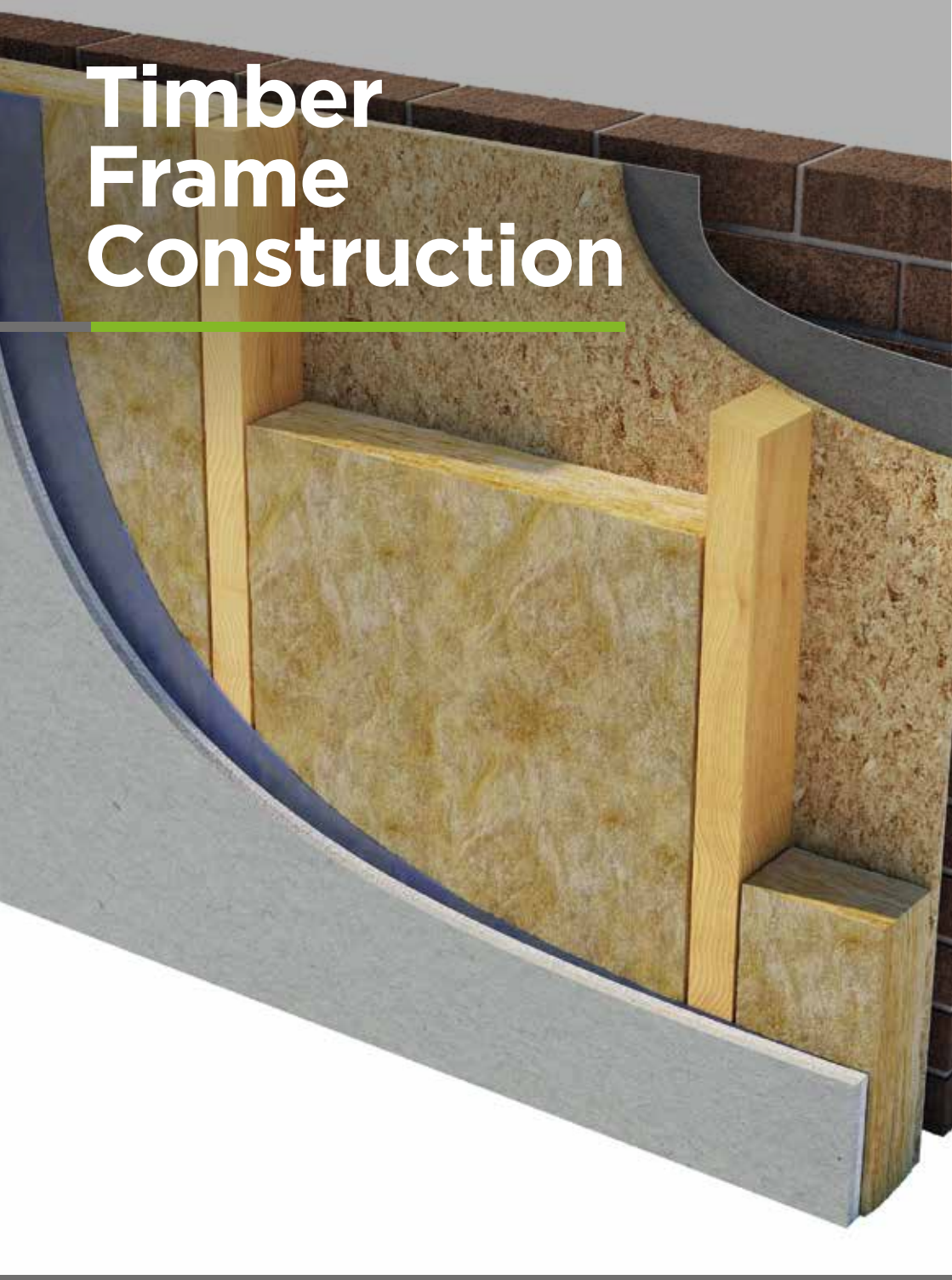
Please note that all dimensions are nominal.

### Multi-Roll 44

| Thickness (mm) | Length (m) | Width (mm) | Pack Area ($m^2$) | Thermal Conductivity (W/mK) | Thermal Resistance ($m^2K/W$) | Product Code |
|---|---|---|---|---|---|---|
| 100 | 10.10 | 1200/2x600/3x400 | 12.120 | 0.044 | 2.25 | 2144311 |
| 150 | 6.65 | 1160/2x580/3x386 | 7.714 | 0.044 | 3.40 | 2144310 |
| 170 | 5.80 | 1160/2x580/3x386 | 6.728 | 0.044 | 3.85 | 2144309 |
| 200 | 4.85 | 1160/2x580/3x386 | 5.626 | 0.044 | 4.50 | 2144308 |

Please note that all dimensions are nominal.

# Timber Frame Construction



# Timber Frame External Walls

Timber Frame External Walls

## Timber and Rafter Rolls

Superglass Timber & Rafter Roll is a non-combustible glass mineral wool insulation roll. The flexible roll is cut at 2x570mm widths to allow friction fitting between common stud/rafter spacings minimising gaps at joints and reducing on-site cutting.

### Application:

Superglass Timber & Rafter Roll is designed to provide thermal insulation for external timber frame walls, warm pitched roofs, and suspended timber floors.

### Performance:

**Thermal Conductivity:**

Declared thermal conductivity (lambda (λ) value) of:
Timber & Rafter Roll 32 - 0.032W/mK
Timber & Rafter Roll 35 - 0.035W/mK
Timber & Rafter Roll 40 - 0.040W/mK

**Fire Classification:**

Deemed non-combustible with a fire classification of Euroclass A1 (the highest possible rating) when tested to BS EN 13501-1 Reaction to Fire.



### Timber & Rafter Roll 32

| Thickness (mm) | Length (m) | Width (mm) | Pack Area (m²) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance (m²K/W) | Product Code |
|---|---|---|---|---|---|---|---|
| 90 | 3.90 | 2x570 | 4.446 | 24 | 0.032 | 2.80 | 2144421 |
| 120 | 3.00 | 2x570 | 3.420 | 24 | 0.032 | 3.75 | 2144343 |
| 140 | 2.80 | 2x570 | 3.192 | 24 | 0.032 | 4.35 | 2144420 |

Please note that all dimensions are nominal.

### Timber & Rafter Roll 35

| Thickness (mm) | Length (m) | Width (mm) | Pack Area (m²) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance (m²K/W) | Product Code |
|---|---|---|---|---|---|---|---|
| 90 | 5.00 | 2x570 | 5.700 | 24 | 0.035 | 2.55 | 2144244 |
| 140 | 4.50 | 2x570 | 5.130 | 24 | 0.035 | 4.00 | 2144243 |

Please note that all dimensions are nominal.

### Timber & Rafter Roll 40

| Thickness (mm) | Length (m) | Width (mm) | Pack Area (m²) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance (m²K/W) | Product Code |
|---|---|---|---|---|---|---|---|
| 90 | 10.65 | 2x570 | 12.141 | 24 | 0.040 | 2.25 | 2144232 |
| 140 | 6.90 | 2x570 | 7.866 | 24 | 0.040 | 3.50 | 2144231 |

Please note that all dimensions are nominal.

# Warm Pitched Roofs

Timber Frame External Roofs

## Timber and Rafter Batt

Superglass Timber & Rafter Batt is a non-combustible glass mineral wool insulation batt. The flexible batt is supplied at 570mm width to allow friction fitting between common stud/rafter spacings minimising gaps at joints and reducing on-site cutting.

### Application:

Superglass Timber & Rafter Batt is designed to provide thermal insulation for external timber frame walls, warm pitched roofs, and suspended timber floors.

### Performance:

**Thermal Conductivity:**

Declared thermal conductivity (lambda (λ) value) of:
Timber & Rafter Batt 32 - 0.032W/mK
Timber & Rafter Batt 35 - 0.035W/mK
Timber & Rafter Batt 40 - 0.040W/mK

**Fire Classification:**

Deemed non-combustible with a fire classification of Euroclass A1 (the highest possible rating) when tested to BS EN 13501-1 Reaction to Fire.



### Timber & Rafter Batt 32

| Thickness (mm) | Length (mm) | Width (mm) | Batts per pack | Pack Area ($m^2$) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance ($m^2K/W$) | Product Code |
|---|---|---|---|---|---|---|---|---|
| 90 | 1175 | 570 | 6 | 4.019 | 16 | 0.032 | 2.80 | 2144419 |
| 140 | 1175 | 570 | 4 | 2.679 | 16 | 0.032 | 4.35 | 2144333 |

Please note that all dimensions are nominal.

### Timber & Rafter Batt 35

| Thickness (mm) | Length (mm) | Width (mm) | Batts per pack | Pack Area ($m^2$) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance ($m^2K/W$) | Product Code |
|---|---|---|---|---|---|---|---|---|
| 90 | 1175 | 570 | 10 | 6.698 | 16 | 0.035 | 2.55 | 2144417 |
| 140 | 1175 | 570 | 6 | 4.019 | 16 | 0.035 | 4.00 | 2144330 |

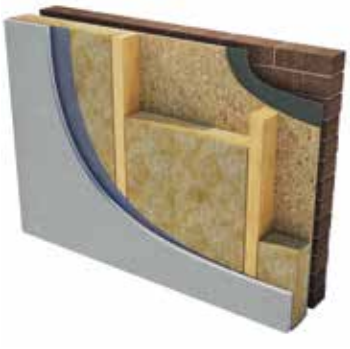
Please note that all dimensions are nominal.

### Timber & Rafter Batt 40

| Thickness (mm) | Length (mm) | Width (mm) | Batts per pack | Pack Area ($m^2$) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance ($m^2K/W$) | Product Code |
|---|---|---|---|---|---|---|---|---|
| 90 | 1175 | 570 | 12 | 8.037 | 16 | 0.040 | 2.25 | 2144331 |
| 140 | 1175 | 570 | 8 | 5.358 | 16 | 0.040 | 3.50 | 2144332 |

Please note that all dimensions are nominal.

Typical U-values achieved when installed Superglass Timber & Rafter Roll or Batt between the timber studs along with a reflective breather membrane and reflective vapour control layer.

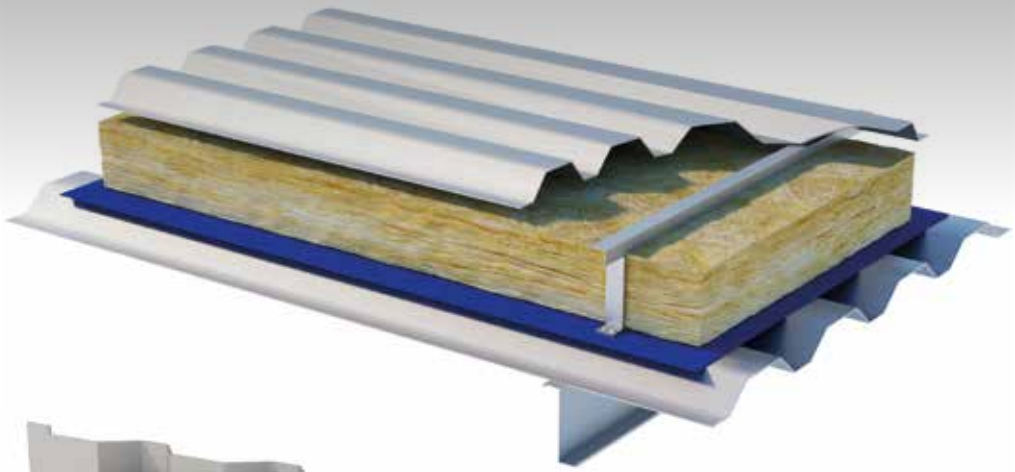


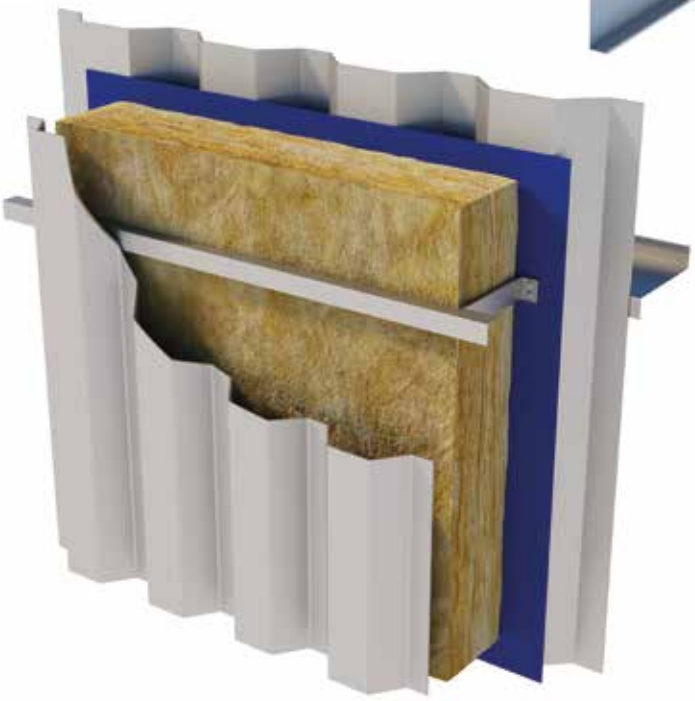
## Timber Frame Wall

| Insulation and timber studs thickness | Superglass Products | Standard Breather Membrane & VCL | Reflective Breather Membrane & VCL | |
|---|---|---|---|---|
| 230 (90+140mm) | Timber & Rafter Roll or Batt 32 | 0.17 | 0.14 | U-values (W/m²K)* |
| | Timber & Rafter Roll or Batt 35 | 0.18 | 0.15 | |
| | Timber & Rafter Roll or Batt 40 | 0.19 | 0.16 | |
| 180mm (2x90mm) | Timber & Rafter Roll or Batt 32 | 0.21 | 0.17 | |
| | Timber & Rafter Roll or Batt 35 | 0.22 | 0.17 | |
| | Timber & Rafter Roll or Batt 40 | 0.23 | 0.18 | |
| 140mm | Timber & Rafter Roll or Batt 32 | 0.25 | 0.19 | |
| | Timber & Rafter Roll or Batt 35 | 0.27 | 0.20 | |
| | Timber & Rafter Roll or Batt 40 | 0.29 | 0.21 | |

* Note: U-values calculated using 48mm widths and 600mm centres timber joists

# Metal Clad Walls & Roofs





# Cladding Mat 40

Metal Clad Walls and Roofs

Superglass Cladding Mat 40 is a non-combustible glass mineral wool insulation roll. The roll is supplied 1200mm wide to allow quick and easy installation in commonly used rail and bracket systems.


## Application:

Superglass Cladding Mat 40 is designed to provide thermal and acoustic insulation in the walls and roofs of twin skin profiled metal clad systems and portable & modular buildings.

## Performance:

**Thermal Conductivity:**

Declared thermal conductivity (lambda (λ) value) of 0.040W/mK

**Fire Classification:**

Deemed non-combustible with a fire classification of Euroclass A1 (the highest possible rating) when tested to BS EN 13501-1 Reaction to Fire.


| Thickness (mm) | Length (m) | Width (mm) | Pack Area (m²) | Packs per pallet | Thermal Conductivity (W/mK) | Thermal Resistance (m²K/W) | Product Code |
|---|---|---|---|---|---|---|---|
| 60 | 16.00 | 1200 | 19.200 | 24 | 0.040 | 1.50 | 2144217 |
| 80 | 12.10 | 1200 | 14.520 | 24 | 0.040 | 2.00 | 2144265 |
| 90 | 10.65 | 1200 | 12.780 | 24 | 0.040 | 2.25 | 2144264 |
| 100 | 9.95 | 1200 | 11.940 | 24 | 0.040 | 2.50 | 2144263 |
| 120 | 8.05 | 1200 | 9.660 | 24 | 0.040 | 3.00 | 2144262 |
| 140 | 7.00 | 1200 | 8.400 | 24 | 0.040 | 3.50 | 2144261 |
| 150 | 6.50 | 1200 | 7.800 | 24 | 0.040 | 3.75 | 2144387 |
| 160 | 6.05 | 1200 | 7.260 | 24 | 0.040 | 4.00 | 2144250 |
| 170 | 6.00 | 1200 | 7.200 | 24 | 0.040 | 4.25 | 2144335 |
| 180 | 5.45 | 1200 | 6.540 | 24 | 0.040 | 4.50 | 2144249 |
| 200 | 4.60 | 1200 | 5.520 | 24 | 0.040 | 5.00 | 2144248 |
| 220 | 3.20 | 1200 | 3.840 | 24 | 0.040 | 5.50 | 2144214 |
| 230 | 3.10 | 1200 | 3.720 | 24 | 0.040 | 5.75 | 2144342 |
| 240 | 3.00 | 1200 | 3.600 | 24 | 0.040 | 6.00 | 2144215 |
| 260 | 3.00 | 1200 | 3.600 | 24 | 0.040 | 6.50 | 2144351 |
| 280 | 2.80 | 1200 | 3.360 | 24 | 0.040 | 7.00 | 2144369 |

Please note that all dimensions are nominal.

# Notes

# Notes

Intelligent Environments
Superglass

Superglass Insulation Ltd | Thistle Industrial Estate | Kerse Road | Stirling | FK7 7QQ | UK

HAN01
March 2024

**Technical**
Hotline: **0808 1645 134**
Email: **technical.stirling@etexgroup.com**

**Customer Services**
Tel: **01786 451170**
Email: **customerservice.stirling@etexgroup.com**

**Social**
**superglassinsulationuk**
**superglassuk/**
**superglass_uk**

**superglass.co.uk**



etex inspiring ways of living