



# INSULATION & DRY LINING SOLUTIONS FOR THE 21ST CENTURY

A brief overview of just some of the insulation and dry lining solutions available from your local Howarth Timber & Building Supplies

**KNAUF**INSULATION

**LAFARGE**  
PLASTERBOARD

**EcoTherm**

**CELLECTA**

**British Gypsum**

**TLX**  
ROOFING & CLADDING



**HOWARTH  
TIMBER &  
BUILDING  
SUPPLIES**



# INSULATION & DRY LINING SOLUTIONS FOR THE 21ST CENTURY

Howarth Timber & Building Supplies is wholly committed to supplying the highest quality, sustainable insulation and drylining products. Working with industry leading manufacturers, Howarth Timber & Building Supplies insulation and drylining range is perfect for any application, from domestic and commercial to refurbishment.

At the heart of the range is the environment. Chosen specifically for their environmental and energy efficient qualities we are proud to lead the way in providing insulation and drylining solutions for the 21st century.

## THERMAL INSULATION



Recent changes to the Building Regulations and the introduction of the Code for Sustainable Homes aim to improve the energy efficiency of new buildings.

Building Control approval will be radically different than before, with compliance relying on calculating and restricting the amount of Carbon Dioxide emissions (CO<sub>2</sub>) produced by new buildings.

## DID YOU KNOW?

*The European Union is committed to a reduction in CO<sub>2</sub> emissions of 20% by 2020 and the UK has an extended target of a 60% reduction by 2050. Reducing energy consumption in buildings is vital to achieve this target.*

## ACOUSTIC INSULATION



**Building Regulations. Revisions to Approved Document E 2003.** Part E of the Building Regulations addresses a number of areas: increased noise levels suffered by occupants of multi-storey dwellings, demand for higher density housing, greater use of noise producing equipment, and above all, absolute assurance that the prescribed dB values are achieved.

### What does the new Part E require?

All separating floors and walls must be constructed to meet minimum sound insulation values.

See right for more information on methods of compliance...

### Pre-Completion Testing (PCT)

This method of compliance requires the contractor to test 1:10 units adopting each specific construction. Tests must be carried out by an accredited acoustic engineer with the structure needing to achieve the minimum prescribed acoustic values:

|               | New Build | Change of use |
|---------------|-----------|---------------|
| Airborn Sound | ≥45 dB    | ≥43 dB        |
| Impact Sound  | ≤62 dB    | ≤64 dB        |

### Robust Details (RD)

This method eliminates the need for continual testing. Contractors can select from a number of rigorously tested approved robust constructions that will, if installed correctly, provide a level of sound insulation in excess of Document E requirements. The contractor then registers each unit adopting the detail with Robust Details Limited (0870 240 8209) and pays a registration fee.

|               | New Build (only) |
|---------------|------------------|
| Airborn Sound | ≥47 dB           |
| Impact Sound  | ≤60 dB           |

## DID YOU KNOW?

*Noise features in more than two-thirds of complaints to Environmental Health Officers.*

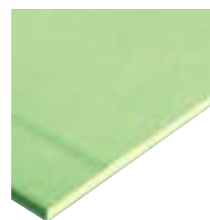


## DRY LINING



**HOWARTH**  
DRY LINING  
APPROVED CENTRE

Your local Howarth Timber & Building Supplies Drylining centre can supply everything you need to complete your project quickly, efficiently and to budget. Contact us today.



**Moisture Board**  
Silicone wax treated for use in bathrooms, kitchens and garages. Ideal base for ceramic tiling



**Standard Board**  
Ivory face suitable for seamless jointing



**Contour**  
Used for curved walls and ceilings



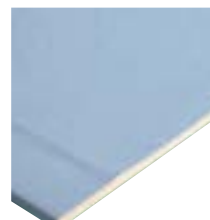
**Fire Board**  
Used where high levels of fire resistance are required. Pink face is suitable for direct decoration



**Plank**  
Ivory face with either tapered edge or square edge profile and grey faced back liner



**Vapour Board**  
Used as a lining where there is a risk of condensation. The board has a metallised film bonded to one face giving vapour control and improved thermal performance



**dB Board**  
Dense plasterboard to improve sound insulation for separating walls and ceilings

**DID YOU KNOW?**

*Very few emissions are produced during the manufacture of plasterboard. At the end of its life it is also fully recyclable into brand new plasterboard.*

Images for illustration only

## FIRE PROTECTION



Fire, whether caused by accident or malice, is an ever-present risk and can have catastrophic consequences on both lives and property. Fire protection is required for one reason only - simply to keep the building structure intact allowing everyone to escape to safety in the event of a fire.

The effective fire protection of buildings is a growing concern among designers as Building Regulations become more stringent.

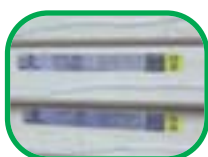
With the increasing use of structural steel in construction, designers need options that provide a combination of fast installation, cost effectiveness and to achieve the desired finish every time.

The construction works must be designed and built in such a way that in the event of a fire:

- **The load bearing capacity of the construction can be assumed for a specific period of time**
- **The generation and spread of fire and smoke within the works are limited**
- **The spread of the fire to neighbouring construction works is limited**
- **Occupants can leave the works or be rescued by other means**
- **The safety of the rescue teams is taken into consideration**

The fire safety of the built environment is immensely important to everyone - employers, designers architects, fire authorities, the construction industry at large and, of course, the general public - people who inhabit buildings.

Whatever the application Howarth Timber & Building Supplies can provide a wide range of certified fire protection systems.



**DID YOU KNOW?**

*On average over the last 5 years about 420 people are killed in house fires and 13,000 are injured each year.*

# INSULATION COMPARISONS

CONTACT YOUR LOCAL BRANCH FOR DETAILS

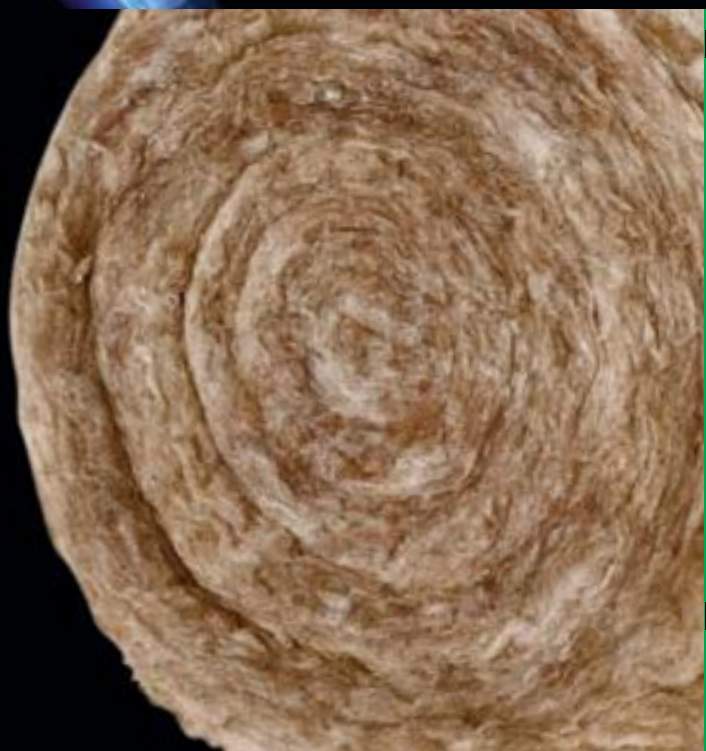
|                                | GLASS MINERAL WOOL                  | ROCK MINERAL WOOL                   | EXTRUDED POLYETHYLENE (XPE)       | EXTRUDED POLYSTYRENE (XPS)           | EXPANDED POLYSTYRENE (EPS)        | PHENOLIC                          | PUR & PIR                         | DOUBLE & MULTI LAYER FOILS | KEY     |
|--------------------------------|-------------------------------------|-------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------|---------|
|                                |                                     |                                     |                                   |                                      |                                   |                                   |                                   |                            | best    |
|                                |                                     |                                     |                                   |                                      |                                   |                                   |                                   |                            | good    |
|                                |                                     |                                     |                                   |                                      |                                   |                                   |                                   |                            | average |
|                                |                                     |                                     |                                   |                                      |                                   |                                   |                                   |                            | poor    |
|                                |                                     |                                     |                                   |                                      |                                   |                                   |                                   |                            | worst   |
| THERMAL PERFORMANCE            | high                                | medium                              | medium                            | high                                 | high                              | extra high                        | extra high                        | medium                     |         |
| COST                           | lowest                              | low                                 | low                               | medium                               | medium                            | extra high                        | high                              | high                       |         |
| SOUND ABSORPTION               | high                                | high                                | low                               | none                                 | none                              | none                              | none                              | none                       |         |
| REACTION TO FIRE               | non-combustible                     | non-combustible                     | combustible                       | combustible                          | combustible                       | combustible                       | combustible                       | combustible                |         |
| COMPRESSIVE STRENGTH           | low                                 | medium (suitable for some floors)   | medium (suitable for some floors) | high (suitable for floors)           | medium (suitable for some floors) | medium (suitable for some floors) | medium (suitable for some floors) | low                        |         |
| WATER RESISTANCE               | high                                | high                                | high                              | very high (0.3 absorption by volume) | high                              | high (1%)                         | high                              | high                       |         |
| WEIGHT/UNIT VOLUME             | very light to medium                | light to heavy                      | light                             | medium                               | medium                            | medium                            | medium                            | very light                 |         |
| WAREHOUSING SPACE REQUIREMENTS | very low (8:1 packaged compression) | medium (2.5:1 packaged compression) | medium to high                    | medium to high                       | medium to high                    | medium                            | medium                            | medium to high             |         |
| TRANSPORT EFFICIENCY           | very good                           | good                                | good                              | low                                  | low                               | medium                            | medium                            | medium                     |         |
| ENVIRONMENTAL IMPACT           | very low                            | low                                 | high                              | high                                 | very low                          | high                              | medium                            | high                       |         |

# **Insulation**

## **The best way to save energy**

**Howarth Timber & Building Supplies is committed to keeping our customers informed of changes to legislation and providing the latest range of energy saving products for both new build and existing dwellings.**

**Your local Howarth Timber & Building Supplies is ideally placed to advise, recommend and supply the complete range of insulation products for any given application.**



## **Fantastic offers, leading products and expert insulation advice**

**...from your local Howarth Timber & Building Supplies**

Howarth Timber & Building Supplies is on hand to offer specialist advice and assistance on technical issues, U-value calculations and special projects. Site visits are also available where required.\*

Please contact us to arrange an appointment. Details of your nearest Howarth Timber & Building Supplies branch are on the reverse of this leaflet.

\*Services available may vary between branches, please contact us for details.



**Dedicated to you! Howarth Timber & Building Supplies, the UK's largest privately owned and operated timber group with branches located nationwide:**

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NEW PRODUCT UPDATE • NEW PRODUCT

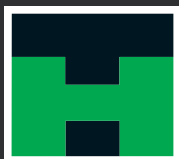


## ECOSE™ Technology - insulation will never be the same again!

Knauf Insulation's new glass and rock mineral wool products made with ECOSE™ Technology don't look or feel like any insulation you've ever experienced, that's because the natural brown colour represents a level of sustainability and handling never before achieved. The brown colour and 'super soft' feel comes from ECOSE™ Technology, a revolutionary sustainable binder which does not contain the oil based chemicals commonly used in other insulation.

Combined with the brown colour and new 'super soft' feel, is the same reliable thermal and acoustic performance you have come to expect from glasswool, which results in the next generation of energy saving insulation. Knauf Insulation products with ECOSE™ Technology are as good as traditional mineral wool insulation - only better... naturally!

**More information?**  
**Contact your local branch of Howarth Timber & Building Supplies.**



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