



# Lofts Solutions

We offer many different solutions to help you meet the latest Building Regulations for new build and refurbishment projects. We stock a comprehensive range of products for traditional lofts and 'room-in-a-roof' applications. We can also supply you with all of the accessories and ancillary products you need.



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Insulation Between Rafters Plus Thermal Laminate

Fully Filled Insulation Between Rafters

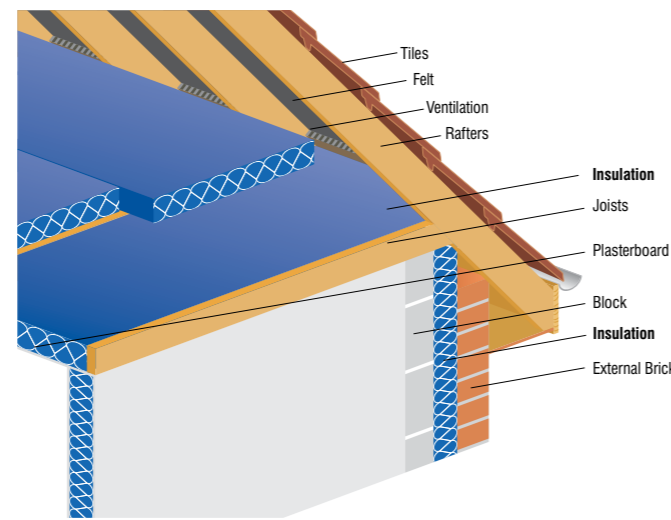
### Key to Insulation Materials

 Polyurethane Foam	 Cellular Glass	 Sheep's Wool
 Mineral Wool	 Polyisocyanurate Foam	 Wood Fibre
 Foil Bubble	 Phenolic Foam	 Hemp
 Extruded Polystyrene	 Foil Bubble/Expanded Polystyrene	 Recycled Polyester Fibre
 Expanded Polystyrene	 Non-Specific Material	

## Traditional Loft Insulation Applications

### Insulation Between Roof Joists

- Rock and glass wool are available in a range of thicknesses and widths to suit all common joint spacings.
- Looselay insulants are particularly useful where access is a problem or for unusual joint spacings found in older properties.
- Natural insulation materials are suitable for this application.



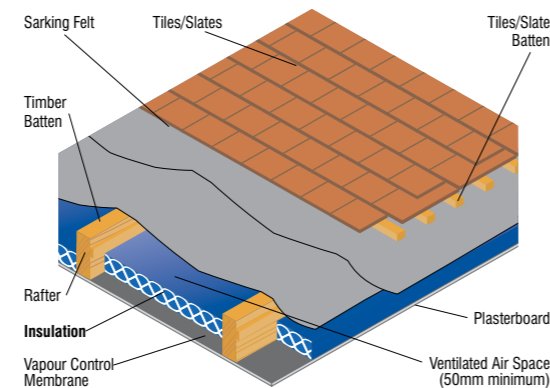
#### Product solutions

- |                                     |                           |                          |
|-------------------------------------|---------------------------|--------------------------|
| ■ Crown Encapsulated Loft Roll      | ■ Micafil (pour in)       | ■ Silvaperl (pour in)    |
| ■ Crown Loft Roll                   | ■ NaturePro Hemp          | ■ Thermafleecce          |
| ■ Greenloft                         | ■ NaturePro Sheep's Wool  | ■ Ursa 10 Loft Roll      |
| ■ Isover General Purpose Roll       | ■ NaturePro Wood Fibre    | ■ Ursa Diverso Loft Roll |
| ■ Isover Modular Roll               | ■ Rockwool Universal Slab |                          |
| ■ Isover Spacesaver/Spacesaver Plus | ■ Rockwool Roll           |                          |

## 'Room-in-a-Roof' Applications

### Insulation Between Rafters

- Ideal for loft conversions
- Slaters felt can be used in a ventilated roof.
- Air cavity must be a minimum of 50mm
- A vapour control layer is required between the plasterboard and insulation
- Natural insulation materials are suitable for this application.

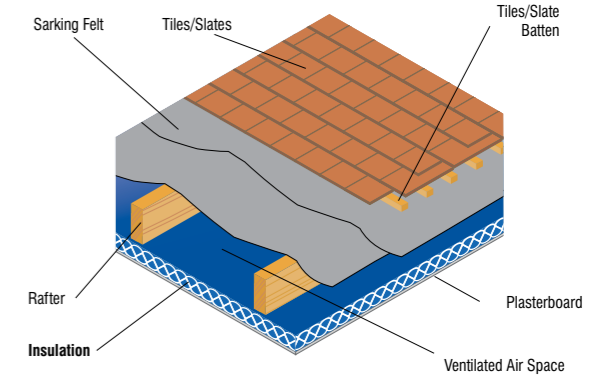


#### Product solutions

- |                         |  |                                   |
|-------------------------|--|-----------------------------------|
| ■ Alreflex Raftertherm  | ■ Icopal Monartherm Foil Board             | ■ Rockwool Flexible Slab          |
| ■ Collecta Yelofoam X2I | ■ Isover Frame Batt/Roll 035               | ■ Rockwool Universal Slab         |
| ■ Collecta Yelofoam XWL | ■ Jablite Board                            | ■ Rockwool Flexi                  |
| ■ Celotex GA3000        | ■ Jabsqueeze                               | ■ Rockwool Roll                   |
| ■ Celotex XR3000        | ■ Kingspan Kooltherm K7 Pitched Roof Board | ■ Rockwool RWA45                  |
| ■ Crown Frametherm Slab | ■ Kingspan Thermapitch TP10                | ■ Springvale Platinum Warmsqueeze |
| ■ Crown Rafter Roll 32  | ■ NaturePro Hemp                           | ■ Springvale Warmsqueeze          |
| ■ Dow Roofmate RL-X     | ■ NaturePro Sheep's Wool                   | ■ Xtratherm Thin-R                |
| ■ Dow Styrofoam SP-X    | ■ NaturePro Wood Fibre                     |                                   |
| ■ Greenloft             | ■ Polyfoam Raftersqueeze                   |                                   |

### Insulation Under Rafters

- Ideal solution for the refurbishment (provided there is enough head room to allow for the insulation thickness below the rafter).
- Slaters felt can be used in a ventilated roof.
- Suitable for rigid insulation boards.
- The joints of all foil lined boards to be sealed with aluminium foil vapourcheck tape.
- Where the Insulation thickness would require excessively long nails, timber battens can be fitted - sandwiching the insulation between the batten and rafter. The plasterboard is then fitted to the batten. The air space below the insulation allows for the fitting of electrical wiring and services.

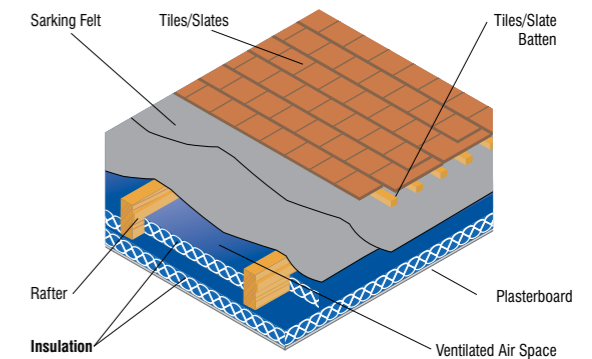


#### Product solutions

- |                              |  |                                 |
|------------------------------|--|---------------------------------|
| ■ Collecta Yelofoam X2D      | ■ Gyproc ThermaLine SUPER                  | ■ Lafarge GTEC Thermal K Board  |
| ■ Celotex GA3000             | ■ Gyproc TriLine                           | ■ Lafarge GTEC Thermal XP Board |
| ■ Celotex TB3000             | ■ Icopal Monartherm Foil Board             | ■ Multi Layered Foils           |
| ■ Dow Roofmate RL-X          | ■ Kingspan Kooltherm K7 Pitched Roof Board | ■ Polyfoam Linerboard           |
| ■ Dow Styrofoam SP-X         | ■ Kingspan Thermapitch TP10                | ■ Rockwool Rockliner            |
| ■ Foamglas Wallboard         | ■ Knauf Phenolic Laminate                  | ■ Therma-Flect EPS Roof Board   |
| ■ Gyproc ThermaLine BASIC    | ■ Knauf Thermal Laminate                   | ■ Xtratherm Thin-R              |
| ■ Gyproc ThermaLine PLATINUM | ■ Knauf Thermal Laminate Plus              |                                 |
| ■ Gyproc ThermaLine PLUS     | ■ Lafarge GTEC Thermal Board               |                                 |

### Insulation Between and Under Rafters

- Ideal for loft conversions.
- Slaters felt can be used in a ventilated roof.
- Air cavity must be a minimum of 50mm.
- The joists of all foil lined boards should be sealed with an aluminium foil vapourcheck tape.
- A two layer system of insulation may need to be used where very low U-values are required.

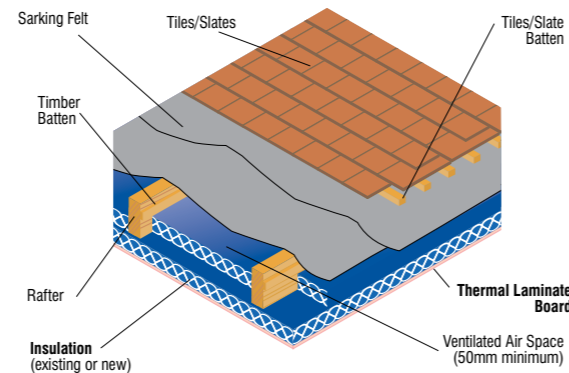


#### Product solutions

- |                        |                                |                                   |
|------------------------|--------------------------------|-----------------------------------|
| ■ Alreflex 2L2 Super R | ■ Foamglas Wallboard           | ■ Springvale Platinum Warmsqueeze |
| ■ Celotex GA3000       | ■ Icopal Monartherm Foil Board | ■ Springvale Warmsqueeze          |
| ■ Celotex XR3000       | ■ Jablite Board                | ■ Xtratherm Thin-R                |
| ■ Dow Roofmate RL-X    | ■ Kingspan Thermapitch TP10    |                                   |
| ■ Dow Styrofoam SP-X   | ■ Micafil (pour in)            |                                   |

## Insulation Between Rafters Plus Thermal Laminate

- Slaters felt can be used in a ventilated roof.
- A thermal laminate can be added to the underside of an empty rafter to improve thermal performance.
- A thermal laminate can be added to the underside of a rafter that already has existing insulation or fitted between the rafter. This may be necessary in order to meet U-value requirements.



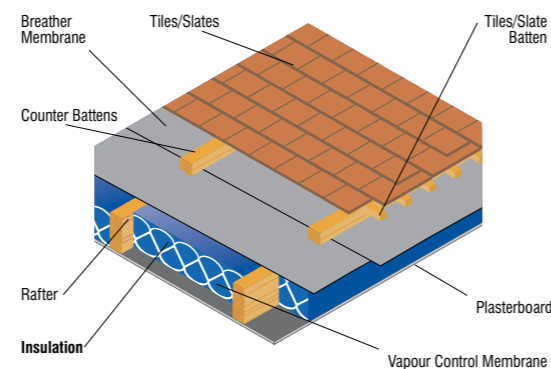
### Product solutions

Gyproc ThermaLine BASIC	Kingspan Kooltherm K18 Insulated Plasterboard	Lafarge GTEC Thermal K Board
Gyproc ThermaLine PLATINUM	Knauf Phenolic Laminate	Lafarge GTEC Thermal XP Board
Gyproc ThermaLine PLUS	Knauf Thermal Laminate	Polyfoam Linerboard
Gyproc ThermaLine SUPER	Knauf Thermal Laminate Plus	Rockwool Rockliner
Gyproc TriLine	Lafarge GTEC Thermal Board	Rockwool Rockliner

## Fully Filled Insulation Between Rafters

(With specialist breather membrane & counter batten)

- Mainly specified for new build or in re-roofing projects.
- Allow maximum thickness of insulation to be used. No requirements for a 50 mm air cavity.
- A breather membrane must be used in conjunction with counter battens.
- Suitable for mineral wool and some rigid board materials.
- A vapour control layer is required between the plasterboard and insulation.
- Can be lined with a plasterboard or thermal laminate.
- Natural insulation materials are suitable for this application.



### Product solutions

Celotex GA3000	Kingspan Thermapitch TP10	Rockwool Universal Slab
Greenloft	NaturePro Hemp	Rockwool Flexi
Isover Frame Batt/Roll 035	NaturePro Sheep's Wool	Springvale Platinum Warmsqueeze
Jablite Board	NaturePro Wood Fibre	Springvale Warmsqueeze
Kingspan Kooltherm K7 Pitched Roof Board	Rockwool Flexible Slab	Xtratherm Thin-R

## A wide range of Additional Products & Accessories for Loft Applications

- Armaflex Adhesive Paint
- Breather Membranes
- Channels
- Condensation Drainage
- Cylinder Jackets
- Easiflex Clips
- Fixings
- Foil Tapes
- Insulation Support Netting
- Loft Access Traps/Ladders
- Metal & Accessories
- Pipe Accessories
- Pipe Insulation
- PVC Tape
- Rooflights
- Roofing Felts
- Roofspace Ventilators
- Speedline Breathable Membrane
- Speedline Chipboard
- Speedline Dry Lining
- Speedline Protection Board
- Tank Lagging Jackets
- Vapourcheck Tape
- Vapour Control Layer/Polythene
- Waterproof Membranes

## Examples of Ancillary Products



### Armaflex Tubolit

Tubolit is a high quality CFC and HCFC free silver grey flexible closed cell polyethylene pipe insulation. Particularly effective for the thermal insulation of domestic heating and plumbing pipework for energy conservation and frost protection. Tubolit is easy to install and creates no dust during installation or use.



### Mayplas Hotcoat Cylinder Jacket

For the thermal insulation of domestic hot water cylinders - Hotcoat 80 is Kitemarked to BS 5615:1985 providing optimum heat loss performance. Available in any size, including combination cylinders, the Mayplas Cylinder Jacket complies with the Home Energy Efficiency Scheme (HEES) as well as Gas and Electricity Board specification.



### Glidevale RV Rafter Ventilators

Glidevale RV Rafter Ventilators are designed to ensure a clear air path between the roof underlay and insulation at all types of eaves. Glidevale Rafter Ventilators can be used with any depth of soffit and will suit all standard rafter spacings. Non-standard spacing options are also available.



### Speedline Breathable Membrane

Speedline Breathable Membrane is a high performance breathable (vapour permeable) underlay for use in both vented and non-vented cold and warm pitched roofs. Speedline Breathable Membrane is especially suitable for use in supported warm roof specifications where the insulation is located along the rafter line.

## Your Lofts Applications questions answered

### 1. Can the rafters be fully filled with insulation in a room-in-a-roof application?

No, not unless the tiles and battens are removed for re-roofing. This allows for both a counter batten and a breather membrane to be added to this construction. Fully filled rafters are suitable for new build applications. Room-in-a-roof systems and the upgrading of lofts usually use a partial fill insulation product.

### 2. What is the best solution to use when the rafters are not deep enough for the thickness of insulation required to reach a specific U-value?

Use a two layer system. One layer of insulation between and one layer below the rafters. Also used where a high thermal performance insulation is required.

### 3. How do I stop the problem of condensation when insulating between rafters?

In a partial fill or cold roof application, ensure that the cavity above the insulation is an absolute minimum of 50mm. A vapour control layer should be in place on the warm side of the insulation.

### 4. What thickness of insulation do I require to meet the Building Regulations?

This varies according to the solution adopted and the insulation chosen. Advice is available from your local branch of Sheffield Insulations.

See also:

[Roofing Section pages 20-27](#)

[Ground Floors Section pages 28-33](#)

[Dry Lining Section pages 34-39](#)

[Acoustic Insulation Section pages 40-49](#)