

# Black Mountain Sheep Wool Insulation

## Technical data



### ■ Product Description

Black Mountain insulation is a general purpose natural sheep's wool insulation product designed for use in loft, rafter, internal wall and inter-floor applications. Specified to match and surpass the Part L Building Standards with reference to Thermal, Fire, Mould Resistance and Structural performance.

It uses 100% virgin wool which is sourced from UK and Ireland, combined with up to 15% adhesive to bond the fibres together to maintain its thickness over the life of the product.

### ■ Applications

Black Mountain insulation is designed for use in new and existing buildings. Wool insulation is ideal for dry lining on external walls and throughout all parts of timber frame buildings.

Wool insulation is not only breathable but also able to absorb, retain and release moisture without affecting its thermal properties or performance. Black Mountain insulation is ideal

for breathable wall construction and period buildings.

### ■ Environmental Information

The manufacture of Black Mountain insulation requires 90% less energy to manufacture than mineral wool insulation. In use, the durability and moisture control properties of wool allow for a higher level of performance and longevity – retaining its insulating properties for the life of the building.

Wool is treated with boron salts so as to heighten its vermin and insect resistance for the life of the product.

### ■ Fire Standards

Wool is naturally fire retardant; the material only chars since there is insufficient oxygen in the atmosphere to support combustion of wool. In the event of a fire, wool will not add to the fire risk and produces no toxic gases. All of our products are tested to:

*Building Regulations Part L BS:5803-4*

### ■ Thermal Performance

Wool insulation matches the following standards for loft, rafter and internal wall thermal requirements as follows:

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*England / Wales Approved Document L1, L2 – Table 1*

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*Scotland Technical Standard Table J23*

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*N. Ireland Technical Booklet F – Table 1.2 / 1.4*

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### ■ Performance and Technical Standards

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|             |   |
|-------------|---|
| <i>Fire</i> | <i>BS 5803-4:1985</i><br><i>EN ISO 11925-2:2002 class E</i> |
|-------------|---|

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|                     |                      |
|---------------------|----------------------|
| <i>Condensation</i> | <i>BS 5250: 1989</i> |
|---------------------|----------------------|

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|                             |                   |
|-----------------------------|-------------------|
| <i>Thermal Conductivity</i> | <i>0.039 W/mK</i> |
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|------------------------|------------|
| <i>U Value (100mm)</i> | <i>0.4</i> |
|------------------------|------------|

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### Sizes - Special Widths Available

Black Mountain is unique in its ability to manufacture rolls and batts in a wide range of widths and thicknesses.

Older properties very rarely have 400mm or 600mm rafter centres, Black Mountain can produce special widths at the 100mm thickness, which reduces wastage and fitting time thus reducing costs, often lower than man-made insulation.

Minimum order quantities apply to special widths please contact Black Mountain for details and lead times.

### ■ Sizes - Super thickness available

Black Mountain has introduced super thick insulation with 125mm and 150mm gauges.

The 125mm is targeted at the loft market, two layers achieve the building regulation requirements, this saves the time and effort required to install three layers with other brands. It also simplifies the ordering process since only one item is required for both layers. It is available in rolls.

The 150mm gauge is an exciting new addition to Black Mountain's product range; this product is ideally suited to the timber frame market. One piece fits into a timber frame wall, whereas other brands require two layers, this requires the client to install the insulation twice!

Both of these gauges will significantly reduce the installed cost of Black Mountain sheep wool insulation compared to other brands.

### Sizes available

Widths - 400mm, 600mm - others to special order

| <b>Rolls</b> | length     | 400mm             | 600mm             |
|--------------|------------|-------------------|-------------------|
| 50mm         | 10m        | 4m <sup>2</sup>   | 6m <sup>2</sup>   |
| 75mm         | 5m         | 2m <sup>2</sup>   | 3m <sup>2</sup>   |
| 100mm        | 5m         | 2m <sup>2</sup>   | 3m <sup>2</sup>   |
| 125mm        | 4m         | 1.6m <sup>2</sup> | 2.4m <sup>2</sup> |
| 150mm        | batts only |                   |                   |

| <b>Batts</b> | length     | 400mm              | 600mm              |
|--------------|------------|--------------------|--------------------|
| 50mm         | 20 pieces  | 9.6m <sup>2</sup>  | 14.4m <sup>2</sup> |
| 75mm         | 13 pieces  | 6.24m <sup>2</sup> | 9.36m <sup>2</sup> |
| 100mm        | 10 pieces  | 4.8m <sup>2</sup>  | 7.2m <sup>2</sup>  |
| 125mm        | rolls only |                    |                    |
| 150mm        | 6 pieces   | 2.88m <sup>2</sup> | 4.32m <sup>2</sup> |

All batts are 1.2mtr length

