Natural Wool for insulation in your home

Black Mountain – a natural choice

Black Mountain natural wool insulation is a simple direct replacement for man-made materials. This high-performance insulation can replace fibre glass and mineral wool products as its dimensions are the same as those less environmentally friendly insulations.

The rolls and batts offered conform to current Building Standards. Wool insulation matches or exceeds all of the relevant requirements and thermal standards of UK and EU building regulations, as well as achieving the Greener Homes standards – making it ideal for use in new as well as existing buildings.

This insulation works well with breathable house designs. When designing or building a modern timber frame home, wool can be integrated as part of breathing wall design where moisture is vented to the outer leaf of the structure and away from the living space. This delivers a safer, more energy efficient building that's more comfortable to live in – without any problems of condensation, VOCs or mould.

Both rolls and batts are ideal for prefabricated SIPs Structured Insulation. Batts fit between timber frames forming part of the external wall surface of the home. But not all SIPs are equal. If you specify a wool insert over one of polystyrene or other rigid foam insert, the performance and durability of the SIP will be enhanced, because wool draws moisture out of the SIP panels, its much better at controlling mould, reducing heating costs and providing additional comfort to occupants.

Black Mountain insulation is perfect for renovation of heritage properties. If you want to maintain the fabric of older buildings, you need to control moisture – otherwise dry rot or other damaging fungi can set in. That's why the National Trust recommends the use of wool insulation – due to its unique ability to manage moisture and control condensation.

Black Mountain Insulation in a roll

Some benefits of installing Black Mountain wool insulation …

- It is lightweight and easy to handle and install.
- The material can be easily cut to shape and size with a sharp knife.
- The product is completely safe to use causing no irritation to the skin, eyes or respiratory tract.
- Naturally breathable.
- The product is a hygroscopic material so can absorb and release water vapour without compromising its thermal efficiency – an important factor when refurbishing period or heritage buildings.
- Provides acoustic deadening of sound.
- Will remain an efficient insulator for many years.

Black Mountain Batt Insulation

Why buy Black Mountain insulation from nbs?
nbs provides the most economic and easy way to specify Black Mountain insulation. All you have to do is ascertain the U-values required, calculate the area to be insulated - round-up to the nearest nominal area, select the thicknesses and widths required, note the Order Codes, close this PDF then click the **Add to Cart** to progress your purchase. The insulation will be delivered direct to your home or building site. Any excess insulation can be used to insulate the hot or cold water tank or simply added on top of the thickness installed.

Black Mountain insulation rolls				**Black Mountain insulation batts*** Batts 1.2 metres long		
Thickness / Width mm	Length in roll metres	Area in roll m²	Order code	Thickness / Width mm	Area in batt m²	Order code
50 x 400	10	4.0	BMR504	50 x 400	0.48	BMB504
75 x 400	5	2.0	BMR754	75 x 400	0.48	BMB654
100 x 400	5	2.0	BMR1004	100 x 400	0.48	BMB1004
50 x 600	10	6.0	BMR506	50 x 600	0.72	BMB506
75 x 600	5	3.0	BMR756	75 x 600	0.72	BMB756
100 x 600	5	3.0	BMR1006	100 x600	0.72	BMB1006
* Batts are supplied in complete packs. 50 x 400 = 20 per pack 75 x 400 = 13 per pack Others = 10 per pack						

The Environmental Consideration

Lower embodied energy
A key idea behind all sustainable products is the use of as little energy as possible in its production. Wool insulation uses only 15% of the energy of a comparable man made material.

Low carbon impact
Thanks to the drastically reduced energy requirement of manufacturing wool insulation, the carbon dioxide that emission generates is very low. Better still, wool locks up 6kgs of carbon dioxide per m2of loft insulation. Man-made insulation – in stark contrast – generates sizable amounts of carbon dioxide in its manufacturing processes, raising the level of greenhouse gases in the atmosphere.

Security of supply
As wool is the natural by-product of sheep farming, wool is sheared annually. With the only limit to supply being the number of sheep farmed on the hills, wool is one of the earth's most sustainable resources.

Low carbon transportation footprint
Wool is sourced either at home or abroad. And even when imported, it's easy to ship in a high-density form, generating a low carbon footprint.

The definition of a long life material
Used properly wool will last for many hundreds of years. It doesn't lose its resilience, or compact over time – a claim other materials can't make. One simple example of the resilience of wool can be seen in carpets. Even in heavily trafficked areas, wool carpets retain their resilience, while mineral wool has been shown in comparative studies to compact to less than 50% of its original thickness, losing most of its insulation performance.

100% biodegradable or reusable
Wool's active life can be hundreds of years without losing its flexibility or moisture-retention properties. And even when that active life comes to an end, it is biodegradable in soil. Man-made cannot be effectively recycled and instead consumes landfill space.

Formaldehyde free
Most mineral wool insulation uses formal-dehyde-based binders to hold the product together. Formaldehyde is highly toxic and carcinogenic; its use is already being phased out by USA companies as alternatives become available. Black Mountain Wool insulation isn't just 100% Formaldehyde Free – it also has there remarkable property of absorbing and locking in formaldehyde emitted by other products.

A zero waste production process
During the production of Black Mountain insulation, all off-cuts are recycled to ensure there is no net waste from the production process.

nbs1 BLACKMOUNTAIN 05.02.10