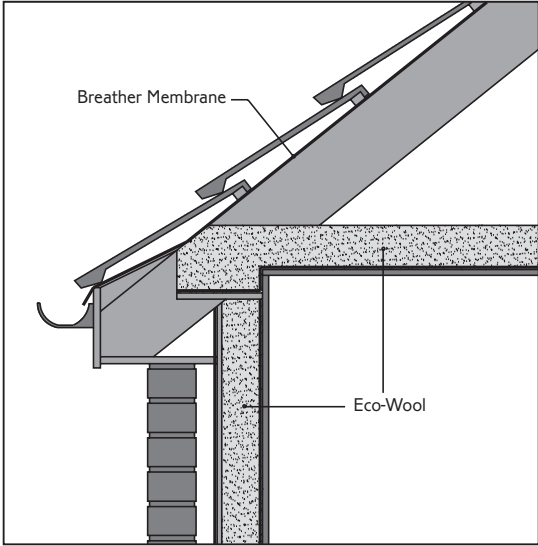




<b>Number</b> BPD 07-217	 <h1 style="margin: 0;">BDA Agrément Certificate</h1> <h2 style="margin: 0;">ROOFS Design</h2>	<b>Category</b> Specific
<b>Date</b> 2007.08.31		<b>Phase</b> Design
<b>Code</b> 41PET00		<b>Subject</b> Thermal insulation rolls for lofts and cavities

<b>Points of attention</b>	<ol style="list-style-type: none"> <li>1. Each roll is wrapped in polythene and should include product name, dimensions, the BDA identification mark and the number of this certificate.</li> <li>2. <b>Loft insulation</b> <ul style="list-style-type: none"> <li>- the building physical behaviour of roof structures incorporating the insulation at ceiling level must be analyzed by a specialist;</li> <li>- special attention should be given to the air tightness of the ceiling, being the most important measure to avoid excessive condensation in the space above the insulation; in certain cases a vapour barrier could be considered;</li> <li>- if ventilation openings are used they should be positioned along two opposite sides of the roof at eaves level in accordance with clause 9.4 of BS 5250: 1989;</li> <li>- ventilation openings should be arranged in such a way that blockage is prevented and also the ingress of rain, snow, birds and small mammals.</li> </ul> </li> <li>3. <b>Cavity insulation</b> <ul style="list-style-type: none"> <li>- it is essential that cavity walls incorporating the insulation in the cavity are designed in such a way that they contain the normal precautions against moisture ingress;</li> <li>- specifically the continuity of vapour control layers must be maintained at laps and joints;</li> <li>- all sorts of perforations should be kept to a minimum and well be sealed;</li> <li>- to minimize the risk of condensation within the structure the recommendations of BS 5250 : 1989 should be followed.</li> </ul> </li> <li>4. <b>Thermal insulation</b> <ul style="list-style-type: none"> <li>- for the purpose of U value calculations to determine if the requirements of the Building (or other statutory) Regulations are met, the thermal conductivity (<math>\lambda</math>value) of the product may be taken as <math>0.0425 \text{ W.m}^{-1}.\text{K}^{-1}</math> ;</li> <li>- the requirement for limiting the heat loss through the building fabric, including the effect of thermal bridging can be satisfied if the U values the building elements do not exceed the maximum values in the relevant Elemental Methods given in the national Building Regulations of England and Wales (Approved Documents L), Scotland (Technical Standards J) and Northern Ireland (Technical Booklet F);</li> <li>- in these documents also guidance is given on selecting the thickness of the insulation required to achieve the desired U value of the roof or the wall;</li> <li>- a typical timber frame construction with loft and cavity insulation is shown in diagram 1.</li> </ul> </li> <li>5. <b>Durability</b> The product is stable, rot-proof and durable and will remain effective as an insulant for the life of the building in which it is installed. There is no risk for moth or beetle infestation.</li> </ol> <p style="margin-top: 20px;">Diagram 1 - Typical timber frame construction with loft and cavity insulation</p> <div style="text-align: center;">  </div>
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<b>Number</b> BPD 07-218	 <h2 style="text-align: center;">BDA Agrément Certificate</h2> <h1 style="text-align: center;">ROOFS Installation</h1>	<b>Category</b> Specific
<b>Date</b> 2007.09.18		<b>Phase</b> Installation
<b>Code</b> 41PET00		<b>Subject</b> Thermal insulation rolls for lofts and cavities

<b>Points of attention</b>	<ol style="list-style-type: none"> <li>1. Each roll is wrapped in polythene and should include product name, dimensions, the BDA identification mark and the number of this certificate.</li> <li>2. <b>Loft insulation</b> <ul style="list-style-type: none"> <li>- special attention should be given to the air tightness of the ceiling, being the most important measure to avoid excessive condensation in the space above the insulation; in certain cases a vapour barrier could be considered;</li> <li>- if ventilation openings are used they should be positioned along two opposite sides of the roof at eaves level in accordance with clause 9.4 of BS 5250: 1989;</li> <li>- ventilation openings should be arranged in such a way that blockage is prevented and also the ingress of rain, snow, birds and small mammals.</li> </ul> </li> <li>3. <b>Cavity insulation</b> <ul style="list-style-type: none"> <li>- specifically the continuity of vapour control layers must be maintained at laps and joints;</li> <li>- all sorts of perforations should be kept to a minimum and well be sealed.</li> </ul> </li> <li>4. <b>Thermal insulation</b> <ul style="list-style-type: none"> <li>- great attention should be given to the thorough butting of the insulation rolls as well as where the rolls meet other parts of the construction.</li> </ul> </li> </ol>
<b>Handling</b>	<ol style="list-style-type: none"> <li>1. <b>General</b> <ul style="list-style-type: none"> <li>- the installation of Eco-Wool insulation can be carried out as a DIY operation.</li> <li>- Eco-wool does not itch or cause respiratory problems, therefore the product can be installed without the need for a mask, gloves or protective clothing.</li> </ul> </li> <li>2. <b>Loft insulation</b> <ul style="list-style-type: none"> <li>- all removable obstructions should first be cleared from the loft space and any holes in the ceiling, such as around pipes, should be sealed;</li> <li>- water tanks should be covered and any sources of moisture, such as vent pipes for central heating, should be arranged to avoid water vapour entering the loft space;</li> <li>- to reduce the risk of frost damage due to ceiling insulation, the pipes and tank in the loft space should be lagged before installing the Eco-Wool insulation;</li> <li>- the area directly below cold water tanks when resting at joist level must not be insulated to avoid the risk of freezing of the stored water in cold weather.</li> </ul> </li> <li>3. <b>Cavity insulation</b> <ul style="list-style-type: none"> <li>- rolls are fixed butted against each other between studs;</li> <li>- when necessary, the insulation can be cut to size with a serrated knife;</li> <li>- care should be taken to minimize gaps, all gaps should be sealed using pieces of uncompressed insulation;</li> <li>- a vapour control layer should be provided at the warm side of the insulation;</li> <li>- a typical timber frame construction with cavity insulation is shown in diagram 1.</li> </ul> </li> </ol> <p>Diagram 1 - Typical timber frame construction with cavity insulation</p> 