



## Tŷ-Mawr's LABC Registered **warm roof system**

Tŷ-Mawr's new warm roof system is the first in our innovative new range of LABC registered sustainable building solutions. In addition to its superb thermal and acoustic performance, its vapour permeability also helps to regulate humidity within the building contributing to a more comfortable and healthy living environment.

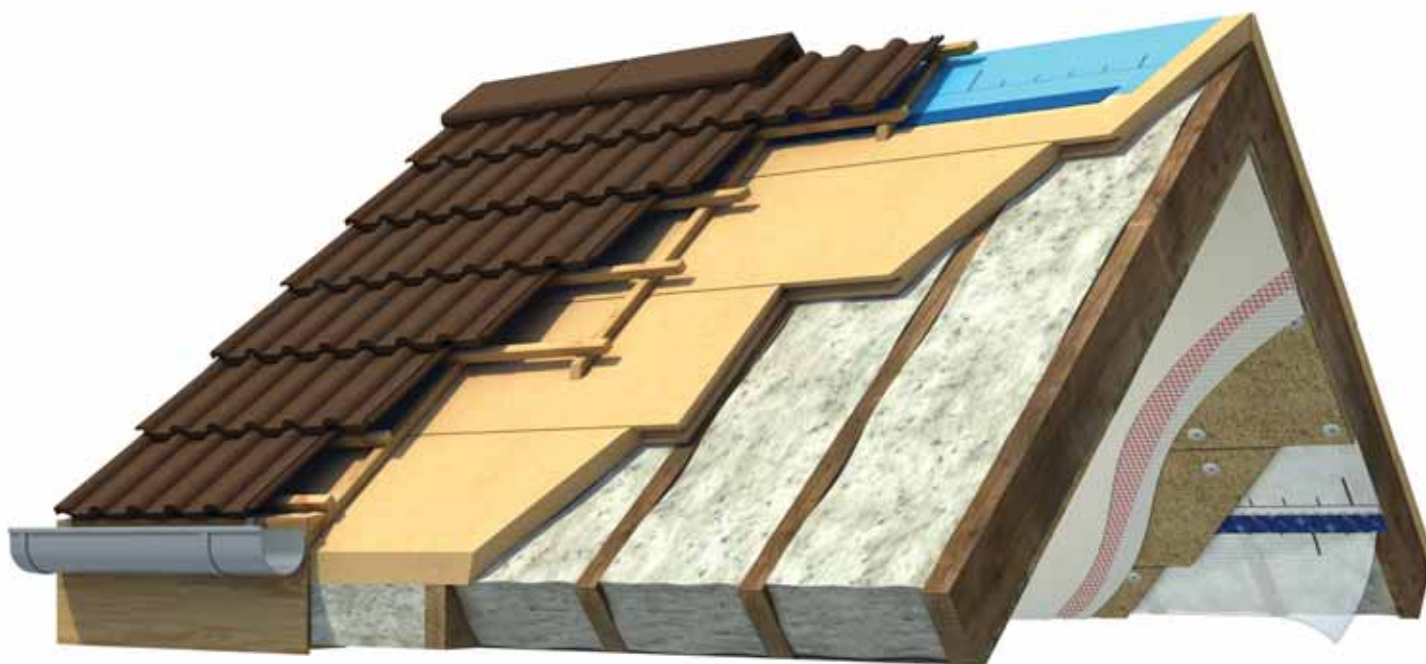
This system is an ideal solution for refurbishment of existing roofs but can also be used as a sustainable warm roof design in ecological new builds.

The Tŷ-Mawr registered system offers a choice of high quality, ecological and sustainable insulation materials. The system comprises: water resistant, interlocking woodfibre board over rafters and natural fibre insulation between rafters. Further wood fibre boards can be fitted below rafters before plastering if required or, alternatively, our woodwool board can be installed as the lime plaster carrier.

### **Above Rafters**

Insulating Wood Fibre Sarking Board 22mm-120mm thick.  
Ridge protected with Breather Membrane or Primed & taped.

Approx ~250mm overall Insulation  
to give 0.18 W/(m<sup>2</sup>K) Building  
Regulations England & Wales.



### **Between Rafters**

Fully fill with Flexible Insulation  
from table over page.

### **Below Rafters**

Further Flexible insulation (from table over  
page) between timbers and 25mm Wood  
Wool or Tongue & Groove Wood Fibre  
40mm-100mm.

Finished with two coat lime plaster (meshed)  
and vapour permeable paint.





Courtesy: Royston Davies

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## Benefits

- LABC (Local Authority Building Control) Reregister detail; recognised in all 376 local authority areas in the UK this will help to streamline the planning process with building control.
- Excellent sound insulation
- Low thermal conductivity which keeps the building warm in winter reducing energy consumption, lowering the carbon footprint of the building and reducing the running costs.
- High volumetric heat capacity giving excellent protection from summer heat (stopping overheating of attic rooms).
- Air and wind tight reducing energy consumption and hence running costs.
- Vapour permeable design making a fully breathable construction helping to regulate humidity within the building giving a pleasant, healthy living environment.
- Certification of components.
- Technical support and design guidance from the Tŷ-Mawr Technical Team.
- Good for the environment - constructed with low carbon materials from sustainable, renewable resources.
- Easy to install, no on-going maintenance.

	Option 1	Option 2	Option 3*
Above Rafters	35mm Insulating Wood Fibre Sarking Board	60mm Insulating Wood Fibre Sarking Board	Proclima Solitex plus fully taped windtight membrane
Fully fill between Rafters	200mm of Insulation chosen from below		
	Tŷ-Mawr Thermafleece Original, EcoRoll, TF35, Hemp, Holzflex mais, Flex CL		
Below Rafters	Intello Plus fully taped (if air tightness required)		
	Tŷ-Mawr 25mm Wood Wool board and approved washer fixings at 8 per m <sup>2</sup>	Insulating Wood Fibre 60mm T&G boards and approved washer fixings at 8 per m <sup>2</sup>	
	Internal Plaster		
	Tŷ-Mawr Lime Hemp Plaster (medium) 1 x 15mm Coat and 1 x 6mm Lime Hemp Plaster (fine) Or, Tŷ-Mawr Basecoat for Boards 1 x 9mm (meshed) and 1 x 3mm Topcoat Plaster		
	Vapour permeable Paint Finish - Internal Silicate Paint, Plant based Emulsion, Tŷ-Mawr Limewash		

Please note different insulation thicknesses are available if there is not a Building Regulations requirement - please contact us.

\*Option 3 is advisable if you cannot raise the height of the roof.



Installing sarking board over rafters.



Placing sheep's wool insulation between rafters and under sarking board.



Applying lime hemp plaster (base coat) to wood wool boards.

The LABC registration only applies to systems where all components have been supplied by Tŷ-Mawr Lime Ltd. Please email us for a quotation [tymawr@lime.org.uk](mailto:tymawr@lime.org.uk)

Please be aware that not all products with the same name/description have the same technical characteristics and hence performance.

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