



Mark Stephens
Architects

A special thanks to Niall
Crosson at:

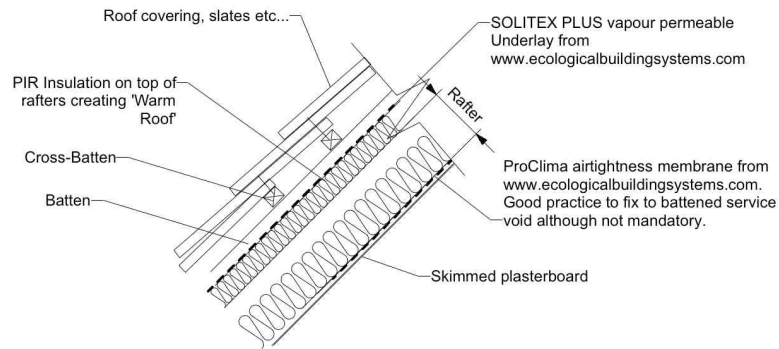
[Ecological Building Systems](http://www.ecologicalbuildingsystems.com)

ADVICE NOTE

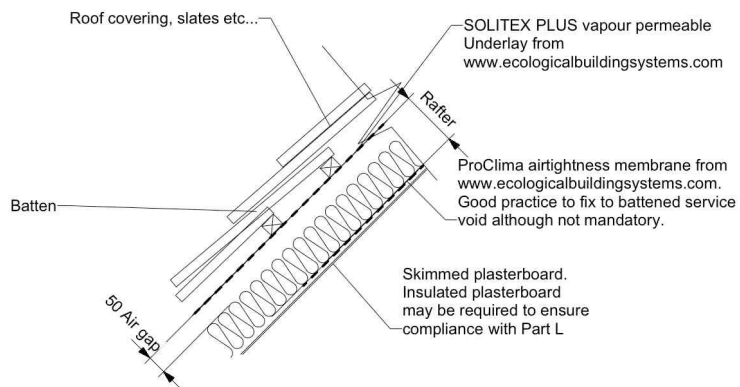
No. 5 - Roof Insulation/Ventilation

The following diagrams show the concepts involved in ensuring your roof is adequately insulated and ventilated. They are only diagrammatic and designed as an aid to ensure a roof is correctly insulated and ventilated.

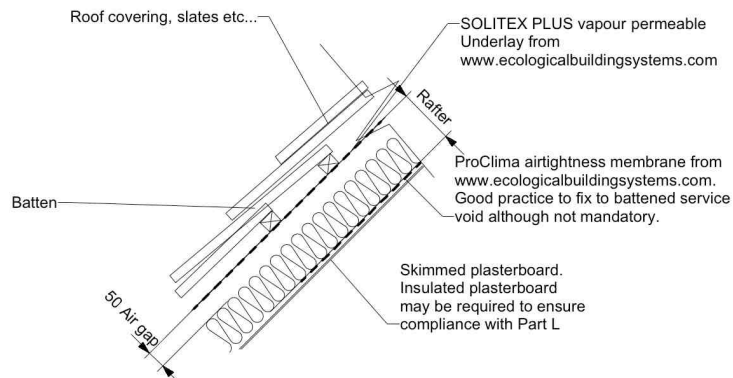
1. The Warm roof: Insulation is over the rafters and between the rafters. The rafter depth can be fully insulated using this method. Note the use of battens/counter battens on TOP of insulation on TOP of rafter.



2. The Cold Roof: Ventilation is required by a 50mm airgap between the top of the rafter insulation and the underside of the vapour permeable underlay.



3. The Battened Cold Roof: Similar to the cold roof with cross battening which provides ventilation but without the insulation on top of rafters. Here the rafter depth can be fully insulated.



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