



FLAT ROOF INSULATION · LLANRWST

One extension roof. One day.

Stained, ponding felt at noon. A finished warm roof by quarter to six. Every layer photographed.



Swipe →

12:11, BEFORE



THE STARTING POINT

Patched, stained and holding water.

The extension roof on a rendered semi in the Conwy valley. Felt over a timber deck, next to no insulation, water sitting in the low spots.



LAYER 1

Vapour control layer over the existing roof.

The blue layer first, lapped and sealed, so moisture from the kitchen cannot reach the insulation.



LAYER 2

140 mm of foil faced PIR.

Cut tight to the edges and the upstand, joints staggered and taped. This is the layer that changes how the kitchen below feels.



LAYER 3

A new OSB deck on top.

Fixed through the insulation into the joists. The membrane needs a flat, firm base, and this is it.



LAYER 4

EPDM rubber, dressed over new edge trims.

One sheet bonded to the deck, dressed up the wall at the abutment and down over new trims at the eaves, so the water goes into the gutter and nowhere else.

17:41, AFTER



FINISHED

Same corner, end of the day.

New trims, new roof, edge protection still up. The household stayed put throughout.

WHY A WARM ROOF

Insulation above the joists, not between them.

- The timber stays on the warm side, so condensation has nowhere to form.
- One sheet of EPDM on a new deck: no seams across the roof for water to find.
- The room underneath stops being the coldest in the house in winter and the hottest in summer.
- A new covering on its own does none of this. The insulation is what changes the room.



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Got a flat roof like this?

- ✓ PAS 2030:2023 certified for flat roof insulation
- ✓ TrustMark registered
- ✓ Insurance Backed Guarantee issued by Energy Giants
- ✓ Every layer photographed, on every roof

Full case study: link in the comments

Homeowners get a free survey and a fixed price. Housing providers get a roof by roof survey and a build up that stands up to audit. 01200 407790 · energygiants.co.uk