

# Rear extension roof, Llanrwst Rebuilt as a warm roof in one day

Rendered semi detached house, Conwy · Insulated, decked and finished 1 September 2026

A stained, ponding felt roof over the rear extension of a rendered semi in the Conwy valley, with very little insulation beneath it. Energy Giants rebuilt it as a warm roof with 140 mm of foil faced PIR above the joists, and finished it in EPDM rubber with new edge trims, between noon and quarter to six the same day.

**1 day**

on site, start to finish

**4 layers**

full warm roof build up

**140 mm**

foil faced PIR insulation

**EPDM**

rubber membrane finish



12:11. The original felt, patched and holding water.



17:41. EPDM down, new edge trims on.

## WHAT WE DELIVERED

- Vapour control layer lapped and sealed over the existing roof
- 140 mm foil faced PIR insulation boards, laid tight and taped
- New OSB deck fixed through the insulation into the joists
- Single sheet EPDM rubber membrane bonded to the deck, dressed up the abutment and over new edge trims
- Edges and abutment formed properly, not dressed over
- Weathertight the same working day; every layer photographed

## CERTIFIED AND GUARANTEED

### PAS 2030:2023 certified

Energy Giants holds PAS 2030:2023 certification for flat roof insulation (measure B5, certificate SIC123052 P2030 1) and is TrustMark registered: the standard funded retrofit requires, and the same build up we deliver on housing programmes.

### Insurance Backed Guarantee, issued by Energy Giants

Every flat roof we install is handed over with an Insurance Backed Guarantee issued by Energy Giants and insured through the Bluedrop facility, so the workmanship guarantee is protected by an insurer as well as by us.

## FOR HOMEOWNERS

Stained or pooling felt, damp marks on the ceiling below, a kitchen that is cold in winter: the roof is uninsulated. An extension roof like this is usually done in a day.

## FOR HOUSING PROVIDERS AND CONTRACTORS

Each roof surveyed and priced individually, insulation above the deck, and a photographic record of every layer for handover and funding evidence.

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Full case study, photographs of every layer and notes: [energygiants.co.uk/case-studies/llanrwst-flat-roof-insulation](https://energygiants.co.uk/case-studies/llanrwst-flat-roof-insulation) (scan the code). Timings from our site photographs, 1 September 2026. Insulation is 140 mm foil faced PIR board; the board and thickness for any roof is set at survey and stated on the quotation. The customer's address is withheld for their privacy. Energy Giants is a trading style of Efficient Energy Systems Ltd (Company No. 17329387), The Former Ambulance Station, Princess Avenue, Clitheroe BB7 2AL.

