

# Ty Unnos homes for Dolwyddelan

## WARMCEL® Project Overview



### WARMCEL proves the perfect prefab partner



## PROJECT DETAILS

### Installer:

Pen Y Coed Insulation

### Developers:

Coed Cymru, Elements Europe Ltd and the Welsh School of Architecture

### Contractor:

J R Pickstock Ltd

### Client:

Tai Ciyd affordable homes

### Project Value:

£505,000

### Project Start:

July 2010

### Project Finish:

July 2010

## Overview

This sustainable 'Ty Unnos' development in the heart of Snowdonia National Park is a £505,000 community housing project across 1.5 acres in the village of Dolwyddelan.

Designed to meet the needs of locals who struggle to afford to live in their own hometown, the project represents a significant green collaboration of

Welsh businesses working together for mutual benefit.

WARMCEL insulation was key to this collaboration, offering an off-site installation which is void free, breathable and offers high thermal performance while reducing the final development's carbon footprint.

## Project

The term Ty Unnos relates to a Welsh folklore tradition which states that anyone who can build a house on common land overnight becomes the owner of that house. By this token, the project encourages speedy construction methods which take advantage of local natural resources - Welsh sitka spruce (coniferous evergreen) trees.

The green focus of the project is reflected in many ways, including built in heat recovery systems, with solar panels to supplement water heating, and use of WARMCEL insulation.

Installed off-site before the construction of the pre-fabricated structures (to speed up build time on-site), WARMCEL offers

the homes high thermal insulation and a full-fill finish to reduce leakage of warm air and energy waste. WARMCEL is itself manufactured from 100% recycled newsprint and has a Global Warming Potential of -1.9, effectively reducing the carbon footprint of any building into which it is installed.

The local Welsh Assembly Member Gareth Jones commented: "Investing sustainable resources in the community promotes and strengthens the village's future."

"This project is symbolic of how Welsh businesses can work together to foster green communities and a green economy," added Excel's MD Andrew Izod.

### Excel Industries Limited

Maerdy Industrial Estate (South), Rhymney,

Gwent NP22 5PY United Kingdom

Telephone: +44 (0) 1685 845200 Fax: +44 (0) 1685 844106

Email: tech@excelfibre.com Web: www.excelfibre.com

Registered in England No.2072145

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