

Case study

# ROCKWOOL® helps hospital meet BREEAM Excellent rating

Morriston Hospital



Photo courtesy of ABMU Health Board



“Timing on this project was very tight, so we had to rely on an efficient installation to keep us on track. ROCKWOOL products were always on-site when we needed them and we found both Ductslab and Ductwrap easy to cut and simple to install.”

Andy Walsh  
Contracts Manager  
Denco Thermal Ltd.



## The project

Morrison Hospital is a major district general and teaching hospital located in Cwmrhdyceirw near Morrison in Swansea, Wales.

For a recent £60 million three-storey extension, main contractor BAM Construct UK has created 13,000 sq ft of new, state-of-the-art facilities for the hospital's renal dialysis, dental, and x-ray departments in addition to a new education centre.

With sustainability at the heart of the building's design and specification, ROCKWOOL® insulation has played a significant role in the project which has achieved its target of a BREEAM Excellent rating.





## The challenge

In meeting the specification, building services consultants, ARUP, considered a range of factors to select the right insulation for the project.

These included sustainability, performance and ease of installation. As a healthcare project, the construction also had to comply with BS 5422: 2009 and HTM 05-01: Managing healthcare fire safety which recommends only non-combustible products are used in a building. As a result, ARUP specified ROCKWOOL stone wool insulation as the preferred solution.



## The solution

The Morriston Hospital project demanded versatile insulation which could meet critical sustainability and fire safety performance criteria.

ARUP selected a combination of ROCKWOOL products to meet Morriston Hospital's pipe and ductwork insulation requirements. Over 5000 l/m of RockLap H&V Pipe Sections, and DuctWrap & DuctSlab, were supplied by SIG Technical Insulations to insulation contractors Denco Thermal Ltd who experienced first-hand how easy it is to cut and install ROCKWOOL insulation.

Versatility proved another major advantage of using ROCKWOOL insulation on this project. ROCKWOOL products could be installed throughout the whole development, on both the modular services and traditional pipework insulation, and with any type of pipe\*.

Sustainable solutions are hugely important in reaching an Excellent BREEAM target. ROCKWOOL stone wool insulation is 97% recyclable, and helps achieve BREEAM credits in: health and wellbeing, acoustic performance, energy (reduction in Co2 emissions), materials specification, insulation, and waste management.

Naturally inert, ROCKWOOL stone wool is both sustainable and recyclable and doesn't encourage or support the growth of fungi, moulds or bacteria and will generally perform effectively during the lifetime of a building, plant or structure.

ROCKWOOL insulation does not contain (and has never contained) gases that have ozone depletion potential (ODP) or global warming potential (GWP) and is made from a renewable and plentiful naturally occurring resource relying on trapped air for its thermal properties. ROCKWOOL stone wool also sets the standard for environmentally-friendly insulation with high tech production processes enhancing these properties ensuring an environmentally responsible approach.

"In our experience, ROCKWOOL stone wool performs better than many alternatives on the market. For Morriston Hospital, ROCKWOOL stone wool insulation fitted the bill perfectly as it's a non-combustible material and sustainable too. This gave us a lot of confidence towards our aim of achieving a BREEAM Excellent rating on this project.

It gave us huge peace of mind from a design perspective that ROCKWOOL could be used on the modular and traditional pipework insulation. This removed any potential interfacing issues for us. Because ROCKWOOL is suitable for all types of pipe, it also meant that there was no risk of the insulation being installed on the wrong pipe, which is always reassuring to hear as a specifier."

Hywyn Jones  
Senior Mechanical Engineer  
ARUP Cardiff