

International Paints, Gateshead

Painting a greener picture



Project:

Chartek Building, International Paints

Project Type:

Testing Facility

Project Architect:

Devereux Architects

Main Contractor:

STP

Cladding Contractor:

Complete Cladding

Materials:

100m² of SolarWall[®] and 1,500m² of Twin-Therm[®]

CA Building Products have supplied SolarWall[®], Twin-Therm[®] & Twin-Therm[®] FW30 to Complete Cladding for installation on a new fire protection testing laboratory for International Paints in Felling, Gateshead.

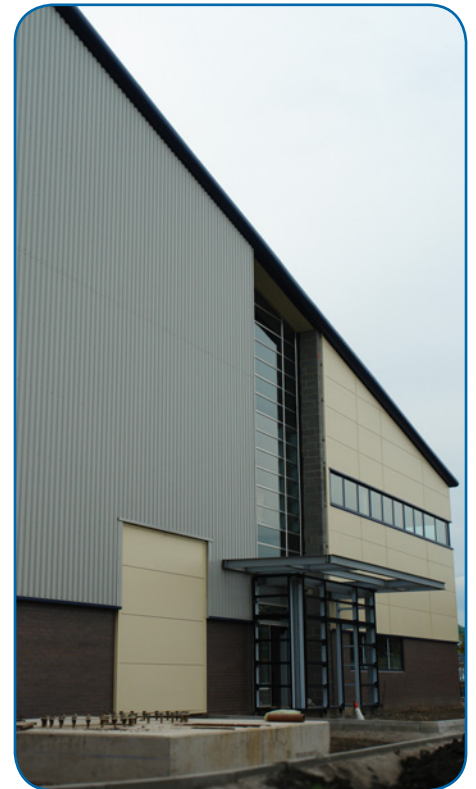
The £6.4 million project will provide International Paints with a state-of-the-art, Centre of Excellence for Fire Protection Development.

The facility will allow them to extend their portfolio of Fire Protection coatings, used to protect steel structures such as buildings and oil and gas installations.

In conjunction with this, the company have also installed a 100m² SolarWall[®] Transpired Solar Collector (TSC) which will be used to supply solar heated air to the office environment, significantly reducing the energy consumption and CO₂ emissions of the building whilst providing increased levels of fresh air. The solar heated air is delivered via a Nordair Niche unit which is fully integrated with the SolarWall[®] System to provide tempered air via solar heating or a modulating gas fired heat exchanger when insufficient solar heat is available.

The SolarWall[®] technology has been independently proven to provide energy savings of up to 50% and will see International Paints achieve energy savings of 31,169kWh per annum and reduce their CO₂ emission by 7.73t per annum.

CA Group have supplied a full site assembled Twin-Therm[®] insulated roof (1,500m²) that will provide a non-fragile roof assembly and wall specification, guaranteed U-values and future proof qualities such as being PV ready. CA Group is working with Complete Cladding, one of the North East's leading sub-contractors and installers of industrial roofing and cladding systems to deliver the project.



Andrew Brewster, Technical Design Engineer, CA Group comments:

"This is an exciting project for us and we are especially delighted that it's for another successful North East based business. Fire protection and energy savings were key to the brief and these are both areas in which CA Group has extensive expertise."

The energy savings from the SolarWall® technology alone will be significant and exemplary ventilation levels that are Building Regulation Approved Document F compliant are all important in this type of facility."

Recognised on a global scale, the Transpired Solar Collector technology has been independently proven to deliver one of the fastest ROI's available for any renewable technology.

With operational efficiencies as high as 80%, the system harnesses the sun's energy to help heat and ventilate buildings at an extremely low cost.

As part of the project CA Group also supplied Twin-Therm® FW30, a construction that uses rock fibre insulant to achieve 240 minutes integrity and 30 minutes insulation at a reduced build cost. The system is manufactured from benign components so the system produces no toxic or noxious gases and is proven to not collapse or fuel flame, which is helpful to both fire-fighters and evacuees as it provides a substantial period of time to help bring the fire under control and to evacuate the building safely.

Warren Smith of Complete Cladding said of the project:

"It's great to be working with CA Group again. As we are both based in Bishop Auckland, we have partnered each other on a number of projects before and that past experience stands us in good stead to ensure a smooth delivery."

