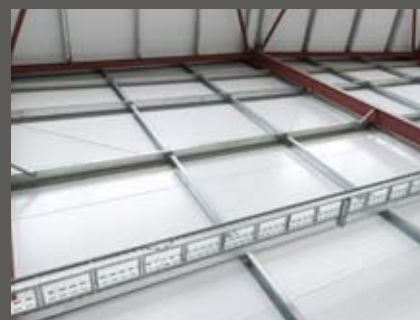




Panels and Profiles Case Study

Hambleside Danelaw, Daventry

Hambleside Danelaw specialises in the production of roofing systems and ventilation products, providing specifiers with systems specifically designed to be recyclable and to help reduce the carbon footprints of the buildings where they are used. Recognised by the Queen's Awards, the Business Commitment to the Environment and the Carbon Trust for products providing energy saving benefits and carbon emission reductions, Hambleside Danelaw has a strong sustainable agenda.



Project details

Client:	Hambleside Danelaw
Architect:	G4 Design
Sub contractor:	Howard Evans
Panels and Profiles products:	Trisomet® System (roof) / Trimapanel® System (walls)
Colorcoat® products:	Colorcoat HPS200® in Goosewing Grey (roof)
	Colorcoat Prisma® in Metallic Silver (walls)

Telephone: 0845 30 88 330



“We have a strong commitment to corporate social responsibility here, with a whole raft of initiatives to address energy use and product recycling which resulted in us attaining Carbon Negative status.”

Trademarks

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With success over the last five years leading to the firm more than doubling in size, production spread across nine factory units on the Royal Oak industrial estate in Daventry. It became clear that Hambleside Danelaw needed to consolidate manufacturing facilities under one roof.

Architect Stephen Gee of G4 Design was appointed to design a new 4,000m² manufacturing and production facility on the same industrial estate where the firm can efficiently produce its roofing and ventilation products. Group Marketing Director, Paul Wilkinson commented “We have a strong commitment to corporate social responsibility here, with a whole raft of initiatives to address energy use and product recycling which resulted in us attaining Carbon Negative status.”

With this strong focus on environmental issues, when it came to developing the new manufacturing facility, it was clear that a building with a low environmental impact was the way forward. A brief was drawn up by Hambleside Danelaw, G4 Design and Daventry Council that set out plans for a new manufacturing and warehousing building that would be as environmentally friendly as possible.

With this clear brief, the design team needed to specify products for the building that would match the low energy agenda. Timing was perfect therefore to take advantage of Confidex Sustain[®], offering the world’s first CarbonNeutral building envelope. Developed by us, Confidex Sustain[®] measures and offsets the unavoidable CO₂ emissions of the pre-finished steel cladding system from cradle to grave i.e. manufacture through to installation, use and end of life. Intended to encourage the specification of the most sustainable pre-finished steel products and cladding systems, it is available when Colorcoat HPS200[®] and/or Colorcoat Prisma[®] are specified as part of a Corus Colorcoat[®] assessed cladding system.

On the Hambleside Danelaw project, the specification of Colorcoat HPS200[®] pre-finished steel for the roof and Colorcoat Prisma[®] for the walls, as part of Panels and Profiles Trimapanel[®] System, ensured all the criteria to benefit from Confidex Sustain[®] were met. When added to the Panels and Profiles Platinum Warranty, this means the

entire pre-finished steel cladding system, including the fixings and insulation, can be both CarbonNeutral and fully warranted.

In terms of the building envelope, the use of Panels and Profiles cladding systems have enabled the architects to design a wide span building that provides an elegant and contemporary addition to the landscape as well as addressing the environmental aspects of the design brief. The walls of the impressive building, which appears on the industrial park site as a majestic ocean liner, are clad with 2,800m² of Trimapanel[®] System, an insulated panel system, using Colorcoat Prisma[®] pre-finished steel in Metallic Silver. LPCB approved, Trimapanel[®] System is a Colorcoat[®] assessed cladding system, designed to perform to the very highest level in terms of thermal performance, air tightness and structural performance and can be recycled at the end of its life.

For the roof, Panels and Profiles Trisomet[®] System insulated panel was specified using Colorcoat HPS200[®] in Goosewing Grey. The choice of the panel in this pre-finished steel offers the ultimate in durability, providing a long-term sustainable building envelope solution, again fitting in with the design brief.

Trimapanel[®] System and Trisomet[®] System, using Colorcoat HPS200[®] and Colorcoat Prisma[®], along with Hambleside Danelaw’s own ‘insulator’ rooflights that achieve a U value of 0.8W/m²K, enabled Hambleside Danelaw’s design team to deliver a building which fits with the culture and the business they undertake. The building envelope has an optimised performance in terms of energy efficiency and structural performance, and is reinforced by Confidex Sustain[®], which for the first time in the world, can offer clients the prospect of a CarbonNeutral building envelope.