



Corus Panels and Profiles Refurbishment Case Study

Hoo Farm Industrial Estate

Sustainability is a key concern within the construction industry. A low carbon footprint is the aim of every responsible developer. Wind turbines, solar panels and heat pumps are becoming standard features on even the most basic buildings, slashing their dependence on expensive and environmentally unfriendly fossil fuels.



Refurbishment project details

Client:	Easter Properties
Architect:	Hamiltons Architects
Main contractor:	Marbank
Cladding sub contractor:	DGT
Corus cladding system:	R32/1000 profile (roof) R32/1000 profile (wall)
Colorcoat® products:	Colorcoat HPS200® in Merlin Grey and Sirius



“All emissions are balanced by Corus investing in renewable energy and climate friendly projects that will have important social and economic as well as environmental benefit in various locations across the world.”

Trademarks of Corus

Colorcoat, Confidex, Confidex Sustain, HPS200 and Scintilla are trademarks of Corus.

For further information, contact

Corus Panels and Profiles

Severn Drive

Tewkesbury Business Park

Tewkesbury

Gloucestershire GL20 8TX

T +44 (0) 1684 856600

F +44 (0) 1684 856601

contact@coruspanelsandprofiles.co.uk

www.coruspanelsandprofiles.co.uk

But sustainability starts before a building goes into use. The procurement and construction process itself also involves the emission of greenhouse gases, from the manufacture of the basic building materials to the fossil fuel needed to transport the building's elements to site and erect them in position. In particular, the building envelope can contain significant levels of embedded energy, so any move to reduce this factor must be welcomed. Additional to this, via targeted grants and support for the Building Research Establishment's BREEAM building environmental assessment scheme, both national and local government is pressing developers to go down the sustainable route as fast as possible and there is an ever increasing number of clients wanting carbon neutral buildings

So the specification of Corus Panels and Profiles built-up cladding and roofing for the Hoo Farm project at Kidderminster, Wiltshire is no surprise as the company is a unique supply chain partner of Corus Colors enabling it to exclusively offer the Confidex Sustain® Guarantee. Through its Confidex Sustain® process, Corus Panels and Profiles is able to offer one of the world's first CarbonNeutral Building envelopes, offsetting every kilogram of carbon dioxide produced during manufacture, delivery and installation of the pre-finished steel, cladding, insulation and fixings. This offsetting continues throughout the building's lifetime, from cradle to cradle and takes into consideration the emissions associated with demolition and recycling. All emissions are balanced by Corus investing in renewable energy and climate friendly projects that will have important social and economic as well as environmental benefit in various locations across the world.

All these benefits come on top of the long established Confidex® Guarantee itself. As this treats cut edges the same as the rest of the cladding, Confidex® allows a single guaranteed figure of up to 40 years to be attributed to the whole building envelope. Confidex® is offered directly to the building owner, and is fully transferable should ownership change during the building's life. On this project the guarantee was awarded and is not dependent on annual inspections.

Hoo Farm is a typical light industrial development, consisting of five individual single storey buildings subdivided into a total of nine separate units. Steel frame construction is used, with spans of up to

40m and height to eaves typically 9m. Located close to a railway mainline, the site has good ground conditions with a free draining sandy subsoil, so the only logistical problem for main contractor Marbank was the restricted working hours laid down by the planning authority in response to local objections.

A classic built up building envelope was specified throughout, with 120mm of mineral wool insulation in the walls and 150mm in the roofs. The outer skin of the 12,500m² of roofing utilises a Corus Panels and Profiles R32/1000 profile in Colorcoat HPS200® with the distinctive Scintilla® emboss in Merlin Grey. Walls use Corus Panels and Profiles R32/1000 profile in Corus Colorcoat HPS200®, this time finished in Sirius. A contrasting Corus Colorcoat HPS200® in Hamlet was selected for the 1,500m² of external soffit. Some 19,000m² of liner panel was needed, plus 530m² of perforated liner for added acoustic performance.

Light industrial units have a hard life. As HGVs and forklift trucks manoeuvre around and inside them impacts on the cladding are inevitable. However rugged the cladding system originally specified might be, at some point sections of it will have to be replaced. Getting a good colour and finish match between the original panels and the replacements is important, and this is down ultimately to the quality and consistency of manufacture over the long term. Corus Panels and Profiles has an unmatched reputation in this area. Many years of experience and a unique traceable supply chain have confirmed that colour consistency in Corus Panels and Profiles cladding products can be taken for granted and replacements ordered with confidence that the new cladding will match the old.

Specifiers have the reassurance that those responsible for fixing the Corus Panels and Profiles cladding systems will be familiar with the product and have access to the Technical Advisory Desk which serves the whole construction industry, offering our world renown technical expertise and advise at your convenience.