



## Case study

### Evesham Country Park, Worcestershire

**Client:** Eagle One Country Shopping Limited

**Architect:** Holder Mathias LLP, Cardiff

**Main Contractor:** Dawnus Construction Holdings Limited

**Roofing & Cladding Contractor:** Midport Construction

**Tata Steel products:** Trisomet® 120 and Trisomet® 135 insulated panel systems were used for the roof, and Trimapanel® 120 and Trisomet® 120 for the walls. All with Colorcoat HPS200 Ultra® pre-finished steel external skin in various colours.

**Year:** 2014-15

Regarded as a major player in the retail sector, Eagle One has invested in a significant new extension to Evesham Country Park in Evesham, Worcestershire, offering clients not just an attractive, high-class venue, but also buildings that meet excellent environmental and energy standards.

Within its designs for the development, Cardiff based architectural consultancy, Holder Mathias LLP, specified the use of Tata Steel's Trisomet® and Trimapanel® insulated panel systems which included the new thicker core Trisomet® 135. All were manufactured with Colorcoat HPS200 Ultra® for the external skin. The factory insulated panels helped to deliver

a building that achieved excellent thermal performance, with low U-values as well as high standards of air-tightness.





Evesham Country Park comprises 70,000 square feet of garden centre, factory outlet shops, restaurants and farm shop together with other attractions and covers 125 acres overlooking the River Avon. Evesham Country Park forms part of Eagle One's extensive £160 million property asset portfolio, built up over the past 25 years.

The new buildings form the first phase of the new development at Evesham Country Park to be known as The Valley, which will offer an additional 30,000 sq ft of retail and restaurant space. The development has been constructed by Birmingham based Dawnus

Construction Holdings Limited to the designs of renowned architectural consultancy, Holder Mathias LLP. Midport Construction was the specialist roofing and cladding contractor which installed all of Tata Steel's insulated panel products.

**The challenge:**

Within its design brief from the client, the project team was attempting to create a complex that would be visually appealing to both its occupants and customers, while offering the multiple attributes of long-term durability, weather resistance and excellent energy performance.

The issue of achieving high insulation standards is important not just because of increasingly tighter Building Regulations, but it is also now accepted that properties targeting lower energy consumption are a good investment and more attractive to the retail market. They offer reduced energy bills and can be expected to have a longer service life so reducing whole-life operating costs for both the building owner and the occupant.



### The solution:

As is frequently the case on commercial developments, the budget was an important consideration and Midport Construction recommended the use of Tata Steel's Trisomet® 120, Trisomet® 135 and Trimapanel® 120 products in various sizes and colours as a long-term value added solution.

Tata Steel's Business Development Manager and Technical Department were closely involved in liaising with both Holder Mathias and Eagle One in demonstrating the products' ability to meet all of the performance criteria for the project.

In fact Colorcoat HPS200 Ultra® pre-finished steel with its Confidex® Guarantee of up to 40 years was not only the client's preferred choice, but as it does not require regular maintenance to validate the guarantee, in terms of whole life costing it is ultimately more economical. Holder Mathias further benefited as Colorcoat HPS200 Ultra® is available in a wide palette of colours, as was required for this visually striking development.

The Technical Department, meanwhile, advised the architect that the Trisomet® 135 would be required to achieve a U-value of 0.15W/m<sup>2</sup>K on the roof, while the Trisomet® 120 and Trimapanel® 120 would actually exceed the figure set for the wall – achieving U-values of 0.16 and 0.17W/m<sup>2</sup>K respectively.

Guidance was also provided on issues such as the arrangement for dealing with rainwater run-off and the interfaces with sections of timber cladding.

George Hogetts, Managing Director for Midport Construction commented:

**“As a specialist contractor for roofing and cladding, working across the country, we know we can rely on the technical support and guidance we get from Tata Steel. We were very happy with both the Trisomet® and Trimapanel® cladding systems we fitted on the Evesham contract, and the project went very well despite some challenging weather while we were on-site.”**

This is the first project to use the thicker cored Trisomet®135 insulated panel which offers specifiers greater scope to achieve compliance with Approved Document L to the Building Regulations for England and Wales in respect of the SAP calculation. A U-value of 0.15W/m<sup>2</sup>K can be readily achieved, along with very good airtightness, while Colorcoat HPS200 Ultra® with its Confidex® Guarantee offered the quality of finish, in terms of durability and aesthetics, which the client was seeking for this prestigious venue.





#### Tata Steel products:

1,450m<sup>2</sup> Trisomet<sup>®</sup> 135 and 160m<sup>2</sup> Trisomet<sup>®</sup> 120 insulated panels both in Colorcoat HPS200 Ultra<sup>®</sup> in Anthracite and Goosewing Grey, with 612m<sup>2</sup> Trimapanel<sup>®</sup> 120 using Colorcoat HPS200 Ultra<sup>®</sup> in Albatross, Goosewing Grey, Merlin Grey, Wedgewood Blue and Jade which were used to create the Evesham Country Park units. The units were constructed with brickwork to the lower elevation with Trimapanel<sup>®</sup> over the door to the eaves and to the gable end, and Trisomet<sup>®</sup> to the roof and laid horizontally for the loading bay walls on one of the blocks.

The enhanced insulation performance of the composite panels met and

exceeded the Part L Building Regulation requirements and contributed to the BREEAM rating; ensuring the building will offer good energy performance throughout its life, reducing running costs. Colorcoat HPS200 Ultra<sup>®</sup> pre-finished steel delivered the desired aesthetic effect while also providing long-term corrosion resistance and durability reinforced through the Confidex<sup>®</sup> Guarantee from Tata Steel.

All Tata Steel's building envelope products manufactured in the UK are certified 'Very Good' to BES 6001, the BRE's Framework Standard for Responsible Sourcing of Construction Products.

"We considered a number of alternative cladding systems for the project, but Tata Steel's Trisomet<sup>®</sup> range offered the best response to our exacting requirements to provide a long-term cost effective, environmentally sound and aesthetically pleasing system. The clean lines and durability of the system have made them ideal for this exciting and modern extension to Evesham Country Park." Jon Symons, Construction Director for Eagle One.

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