



Case study

Wickea Trade and DIY Store, Cirencester

Client: Travis Perkins plc

Architect: Bate and Taylor Architects

Principal contractor: Barnwood Construction

Cladding contractor: County Roofing
(Gloucester) Ltd

Tata Steel products: Trisomet® insulated roof and wall panel system; Trimapanel® insulated wall-cladding system; Colorcoat HPS200 Ultra® pre-finished steel; Colorcoat Prisma® pre-finished steel

Year: 2015

The new, steel-framed Wickea store at Cirencester was completed in March 2015. Guaranteed system performance and sustainability were key drivers in selecting the pre-finished steel cladding for the store. The client, Travis Perkins, specified Tata Steel branded products to meet the design and performance criteria.

The building is clad with Trisomet® and Trimapanel® insulated panels with super durable Colorcoat HPS200 Ultra® pre-finished steel used predominantly on the weather side. Tata Steel provided a tailored Platinum® Plus system guarantee covering performance of the complete building envelope. The versatility of Trisomet® allowed the building to be part-clad in timber to meet local planning requirements.

To support Wickea's brand identity, Tata Steel also supplied Colorcoat Prisma® pre-finished steel in a non-standard colour. Technical experts at Tata Steel supported the project with solutions and advice on structural and thermal performance, bespoke fixings and maximisation of BREEAM credits.



BESPOKE GUARANTEE DELIVERS CUSTOMER CONFIDENCE



The challenge:

Travis Perkins invested £3.5M in the development of the Travis Perkins Trade Park at Cirencester, Gloucestershire. The company invested a further £1M in its new Wickes Trade and DIY Store at the park. To protect the investment in this 20,000 square foot store, Travis Perkins required a comprehensive guarantee covering the long-term performance of the store's building envelope. In addition to structural and fire performance, a certain level of thermal performance was required. Whole life cost considerations demanded a building envelope with little or no inspection and maintenance requirement.

A sustainable building envelope was high on the list of requirements. Evidence of responsible sourcing was required – along with environmental product declarations (EPDs) for all pre-finished steel cladding components. Maximisation of BREEAM credits was an important consideration.

Travis Perkins' branding requirements demanded a pre-finished steel which could be supplied in a specified RAL colour. Local planning regulations also reinforced the need for a flexible building envelope system with scope for incorporation of a design feature using timber.

The solution:

Travis Perkins has worked with Tata Steel as its partner of choice in an ongoing store construction programme. At Cirencester, Travis Perkins again turned to Tata Steel to meet its need for a bespoke and high-quality building envelope with guaranteed performance. The client specified Tata Steel's Colorcoat HPS200 Ultra® and Colorcoat Prisma® pre-finished steel for the weather side of the building. This pre-finished steel was used in the manufacture of Tata Steel's Trisomet® insulated roof and wall panel system and Trimapanel® insulated wall-cladding system.

"Tata Steel provides a better guarantee on its branded products compared with other panel systems on the market. We are confident that if anything were to go wrong with the building envelope, Tata Steel would put it right." Travis Perkins

Tata Steel worked with Travis Perkins and Bate and Taylor Architects to develop a bespoke Platinum® Plus system guarantee covering performance of the complete building envelope. The guarantee specification considers the interactions of envelope components and how they impact building design and performance. The high-quality Colorcoat HPS200 Ultra® and Colorcoat Prisma® pre-finished steel products are themselves backed by Tata Steel's Confidex® Guarantee which offers cover for up to 40 years.



Colorcoat HPS200 Ultra® combines outstanding performance with exceptional durability. Subjected to natural and accelerated testing, it delivers proven high levels of corrosion resistance along with colour and gloss retention. The Wickes store at Cirencester uses more than 3,000m² of Colorcoat HPS200 Ultra® pre-finished steel on the walls. This was supplied in three toning colours to satisfy branding and aesthetic considerations – ‘White’, ‘Svelte Grey’ and ‘Honesty’. A further 4,200m² of Colorcoat HPS200 Ultra®, in ‘Goosewing Grey’, was used with Trisomet® 120mm insulated roof panel system in a bespoke roofing solution.

“We supplied the roofing system in very long lengths to span 19 metres. This minimised end laps to provide air tightness and helped ensure the building’s required thermal performance,” said Wayne Reynolds, Tata Steel’s Area Sales Manager, Building Systems UK. “In addition, the bespoke lengths minimised the number of roofing components for a fast and efficient build.”

Mark Craft said: “The choice and adaptability of Tata Steel’s products is a plus factor when it comes to providing bespoke solutions as with the roof and timber-clad elevation at the Cirencester store.”

The installation of the roof and wall cladding was undertaken by County Roofing (Gloucester) Ltd. Jason Perkins, the company’s General Manager, said: “We’ve worked constructively with Tata Steel in the past and this job was no exception. The single-length roof panels worked well and went up quickly.”

Travis Perkins is both the landlord and the tenant. It was vital that they had a guarantee for the building envelope to protect their investment.

Customer support

Trisomet® 80mm insulated panels provided a robust backing wall for fitting timber cladding to a feature elevation. Tata Steel’s technical support team worked closely with the architects and cladding contractor to deliver structural calculations and devise a fixing methodology for the timber.

Jason Perkins said: “Getting the design details right for the timber-clad wall and fixings provided an interesting challenge. It was obviously vital that we had a robust fixing solution for the timber. By working closely with Tata Steel and the architects, we arrived at a good solution. The successful timber cladding has helped to deliver a pleasing building that blends with the environment.”

Tata Steel’s technical support team also provided advice on meeting the building’s thermal performance requirements. Wayne Reynolds said: “Our UK-based technical support team is always on hand to make clients’ lives easier. The team provides assistance with detailed design, wind and snow loading calculations, load span checks, acoustic predictions, building regulation compliance and how to maximise BREEAM credits.”

Mark Craft acknowledged the technical support supplied by Tata Steel. He said: “The high level of personal service and support which we receive is another reason why we choose to work with Tata Steel. Their customer service extends to providing us with pre-finished steel in a special RAL colour to meet Wickes’ branding requirements.”

The Cirencester store incorporates 140m² of Trimapanel® 90mm insulated wall-cladding with Colorcoat Prisma® pre-finished steel on the weather side in a colour developed specifically for the client. Tata Steel holds stock of this customer-specific colour at its manufacturing plant at Shotton, North Wales, to support Travis Perkins’ ongoing construction programme.





Wayne Reynolds said: "Our branded products go a long way towards meeting the Wickes corporate identity. But we're committed to supporting our customers in any way we can and making a real difference for them. That's why we're happy to produce and store pre-finished steel in a special colour for Travis Perkins."

"The Wickes store at Cirencester was a very satisfying project to work on. Not only does it look stunning, but we're very pleased we've been able to help ensure it's a sustainable building. All of our products were supplied with environmental product declarations. Our Trisomet® and Trimapanel® panels are also certified as responsibly sourced to BES 6001, helping to maximise BREEAM credits."

Tata Steel products:

Colorcoat HPS200 Ultra® pre-finished steel is suitable for many different construction applications. Designed to withstand the most demanding and aggressive environments, it is available with the market-leading Confidex® Guarantee for up to 40 years for the weather side of industrial and commercial buildings – with no inspection or maintenance to maintain its validity.

Colorcoat Prisma® pre-finished steel provides an optimum combination of aesthetics and durability. It is available in a wide range of popular colours with a Confidex® Guarantee for solid and metallic colours of up to 30 years, and matt colours for up to 25 years.

Confidex® Guarantee is the product performance guarantee for Colorcoat HPS200 Ultra® and Colorcoat Prisma®, when used in an external conventional building envelope application namely roof and wall cladding using single skin, built-up or composite panel construction in industrial and commercial buildings. Confidex® offers the longest and most comprehensive guarantee for pre-finished steel in Europe.

Trisomet® and Trimapanel® insulated panels have been developed as one-fix construction components. This ensures fast and consistent installation and performance, reducing the need for labour-intensive processing on-site. Tata Steel is the only manufacturer that produces PIR insulated panels certified

to the responsible sourcing standard, BES 6001. This provides independent evidence of Tata Steel's corporate responsibility and makes it easier for customers to achieve responsible sourcing credits in BREEAM.

Platinum® Plus system guarantee has been designed in collaboration with Tata Steel's innovative supply chain of leading component manufacturers to provide a complete building envelope solution that is guaranteed for 25 years. To ensure that the building envelope will perform as required by the client, Tata Steel work with specifiers to tailor a specification that considers the interactions of the components and how they impact the building design and performance.

For design advice on any of our Colorcoat® products, please contact the Colorcoat Connection® helpline:

T: +44 (0)1244 892434

E: colorcoat.connection@tatasteel.com

For design advice on any of our insulated panel products, please contact a member of our Technical Design Team:

T: +44 (0)1244 892199

E: technical.theworks@tatasteel.com

W: www.tatasteelconstruction.com

www.tatasteelconstruction.com

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Tata Steel

Shotton, Deeside
Flintshire CH5 2NH

T: +44 (0) 1244 892199

F: +44 (0) 1244 892121