

Corus Building Systems

Kalzip XT



product review

Perfection in roll forming technology

Malleable, pliable, foldable and flexible Kalzip XT profiled sheets make it possible to transform computer generated designs and structural principles into reality.

Revolutionary in its field, this computer controlled roll forming technology allows 3 dimensional contouring to be combined with a standing seam system to achieve technical perfection in the creation of free flowing shapes.

Benefits:

- Patented revolutionary roll form technology for free profile shaping.
- Horizontal and vertical profiled sheets in convex and concave shapes.
- Extremely tight radii ensure the cladding of unusual building designs.



Project: Vigo University, Spain
 Architect: Xosé Carlos Rodríguez

A flexible and versatile material

From the discreet to the elaborate, combining sophisticated elegance with contemporary design, Kalzip standing seam can meet the most demanding architectural requirements through the successful combination of outstanding functionality and stunning aesthetics.

The amalgamation of shapes with the introduction of colour and the design flexibility of these highly dramatic, revolutionary profiles, allows the creation of stunning, futuristic architectural concepts.






Numerous patents and utility models are clear evidence of the unique features and technological prowess of the system which opens up unimaginable flexibility and freedom of design.

Available in the standard Kalzip '65' seam profiles, the material is available in both 1.0 mm and 1.2 mm gauges and can be produced in stucco embossed, colour coated, AluPlusPatina and AluPlusZinc finishes.

Technical specification

Kalzip type (with two stiffening ribs)	65
Minimum cover width	250 mm
Maximum cover width curved	620 mm
straight, theoretical	1200 mm
Minimum curving radius	8 m
Minimum length of sheet with constant XT side radius	1.5 m
with various XT side radii	7 m

Available shapes:

-  'S' shaped profile
-  'Banana' shaped
-  'Bulging' profile
-  'Waisted' profile
-  'Free form' profile



Project: Spiegel Theatre, The Netherlands
 Architect: Greiner van Goor Architects



Project: Amsterdam Architecture Centre (ARCA), The Netherlands
 Architect: René van Zuuk



Project: BMW Central Building, Leipzig, Germany
 Architect: Zaha Hadid, Patrick Schumacher



Project: Emmen Hospital, The Netherlands
 Architect: A/d Amstel Architects

Geometric flexibility

The unique formability of the Kalzip profiled sheets, together with the revolutionary XT technology has enabled the fast, easy, flexible and cost efficient manufacturing of three dimensional profile shapes.

Opening up the boundaries of technical perfection and creative thinking in the design of roof and wall cladding, Kalzip XT is capable of achieving a wide range of shapes from ellipses, cones, prisms and spherical caps to the more classical geometries.

To assess your project specific requirements, our technical services department are able to carry out a design feasibility assessment using specialist computer modelling software.



Kalzip XT is available in both convex and concave applications.



elliptically curved



hyperbolically curved



XT freeform



XT freeform



XT freeform



Aintree comes first with Kalzip XT

“Kalzip XT was one of very few cladding materials capable of being used on the complex geometric forms of the roof and envelope design.”

Richard Elsdon, BDP Architects

When architects The Building Design Partnership were looking for a material to roof and clad Aintree's two new grandstands they put their money on Kalzip XT - a revolutionary system that has certainly proved to be a winner at Aintree Racecourse.

The past two years have seen a close collaboration between the project teams and has resulted in successfully bringing an exciting design into reality for this world class facility.

Fifty-metre lengths of Kalzip XT aluminium standing seam, which can be tapered, curved and twisted in 3D shapes, reach from the bottom of the Earl of Derby and Lord Sefton grandstand walls to the peak of the overhanging roofs, curving around the eaves as they near the home straight.

Each individual sheet for the 456m² area was designed using 3D CAD technology that was also used for the soffits which had to be twisted at different angles to follow the curves of the gutters and fascias.

Richard Elsdon of BDP said they specified the stucco embossed Kalzip XT because: “It offered good value for money and a sound technical solution based on previous experience. It also complies with the life cycle maintenance and costing requirements for the cladding systems. The stucco provides a suitable, low maintenance finish which will patina naturally over time.

“Our design also required some specialist, non-standard applications which we knew Kalzip would be able to develop with us. It was one of very few cladding materials capable of being used on the complex geometric forms of the roof and envelope design.”

Graham Cleland, Regional Manager at Lakesmere said: “We had very limited space to complete the installation works and there was literally no room for error as the bespoke XT sheets had been specially designed for this project. Accuracy therefore was vital.”

Project team:
Client: Aintree Racecourse
Architect: Building Design Partnership
Main Contractor: Laing O'Rourke Northern Ltd
Installer: Lakesmere Ltd

www.kalzip.com

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