Tata Steel has been developing and manufacturing the Colorcoat® range of pre-finished steel for nearly five decades. They have developed close strategic relationships with Euroclad, the market leading supplier at the forefront of the metal roofing and cladding industry. Working together delivers the highest levels of quality and service, supported by extensive technical support.
EUROCLAD

Euroclad is Ireland’s home-grown, independent supplier of metal roof and wall products which provide exceptional acoustic and thermal performance for the life of a building. Products are sustainably credible with proven routes for recycling and disposal. Euroclad listens to the needs of its customers and offers high performance, cost effective solutions.

Euroclad consistently invests in people and technology to satisfy customer needs. Cutting edge manufacturing maintains Euroclad’s position at the forefront of the metal roofing and cladding industry.

SYSTEM BENEFITS

Euroclad offer a range of integrated constructions which are superior, specifiable metal roofing and cladding systems. They are fully tested and benefit contractors with quick and easy installation, whilst offering designers flexibility and peace of mind.

Euroclad provides a single-source solution*; a one-stop shop for metal roof and wall systems. The range of systems available provides choice and flexibility, whilst offering a fully integrated and specifiable system.

Systems are unique in offering a comprehensive range of constructions covering all building types and almost every category of metal roofing and cladding.

Euroclad products provide benefits in the four key areas of sustainability, performance, non-combustibility and design flexibility.

*Insulation and some other system components are not supplied by Euroclad.

Sustainability

All cladding used is recyclable – with no added greenhouse gases, minimising any potential ecological impact. Euroclad offers the World’s first CarbonNeutral building envelope as part of Confidex Sustain® when specified with Colorcoat HPS200 Ultra® and/or Colorcoat Prisma®.

Performance

Euroclad products deliver the flexibility of construction to comfortably deliver specified air tightness, sound reduction and thermal performance.

Non-combustibility

Euroclad products are non-combustible, being constructed from inert, fire-resistant materials such as steel or aluminium skins.

Design flexibility

Specifiers and developers increasingly demand greater design flexibility. Euroclad systems offer complete visual freedom, allowing designs to be accurately converted into the correct aesthetic.
PRODUCT SELECTOR

**ROOFING SYSTEMS**

- **MW5**
  - **SECRET FIX SF500**
  - **EUROSEAM**
  - **WED**

**CLADDING SYSTEMS**

- **MW5**
  - **ANCILLARY PRODUCTS**
  - **32/1000 GALVANISED**
  - **MM10 CANOPIES AND SOFFITS**
  - **HALF ROUND**
  - **LINEAR RAINDROPS**
  - **LOUVERS**
  - **VIEO**

**PRODUCTS**

- **Popular trapezoidal profile**
- **Minimum actual pitch of 5°**
- **Self-curve down to 45m radius**
- **Recyclable profiled sheets, insulation and spacer system**
- **Great all-round roof for every application.**

- **Attractive low pitch steel secret fix roof**
- **Onsite manufacture on the ground or at building eaves**
- **Minimum actual pitch of 1°**
- **Self-curve down to 50m radius**
- **Excellent acoustic properties**
- **Developed for long-span applications in education, distribution centres, leisure and retail.**

- **Premium, low pitch aluminium standing seam roof**
- **Onsite manufacture including curved and tapered sheets**
- **Minimum actual pitch of 1°**
- **Self-curve down to 45m, induced down to 8m radius**
- **Excellent acoustic properties**
- **Adaptable solution for almost any performance requirement.**

- **Cost-effective, convenient alternative to traditional metal roofing**
- **Warm and cold roof options**
- **Condensed insulation provides walkable surface**
- **Charming, non-industrial aesthetic makes it ideal for housing, schools and universities.**

- **Popular wider-pitched trapezoidal profile**
- **Typical modern cladding system**
- **Can be laid horizontally or vertically**
- **Recyclable profiled sheets, insulation and spacer system**
- **Easy to detail and quick to install**
- **Great all-round cladding for every application.**

- **Sinusoidal profile provides retro finish**
- **Traditional cladding made from contemporary materials**
- **Can be laid horizontally or vertically**
- **Recyclable profiled sheets, insulation and spacer system**
- **Easy to detail and quick to install**
- **Popular for modern architectural applications.**

- **Striking arced profile with 1m cover width**
- **Manufactured from high quality prefinished steel**
- **Recyclable profiled sheets, insulation and spacer system**
- **Mitred corners or finned detailing available**
- **Popular choice for modern building design across all industry sectors.**

- **Premium finish**
- **Range of composite materials such as titanium and copper**
- **Popular aluminium composite material (ACM) available in a wide range of colours and finishes**
- **Fast-track constructions.**

- **Popular trapezoidal profile**
- **Galvanised steel**
- **Recyclable sheets**
- **Universal cladding for every application.**

- **Shallow, symmetrical profile that is ideal for canopies and soffits.**
- **Recyclable sheets.**

- **Drips, cills, barges, ridges, eaves, soffits, fabricated corners, mitred corners, curves, faceted, tapered**
- **Bullnoses, cappings, fascia/soffits.**

- **Architectural performance louvers**
- **Acoustic louvers**
- **Dummy louvers**
- **Active louvers.**
To ensure both the long-term and environmental performance as well as the appearance of the building, it is important that the pre-finished steel product is specified alongside the cladding. Euroclad roof and wall systems are available with the technically leading range of Colorcoat® pre-finished steel, exclusive to Tata Steel. Combining metal roof and wall cladding systems from Euroclad with Colorcoat® products from Tata Steel results in the highest quality products and services in the UK.

PRODUCTS AND SERVICES
The Colorcoat® brand provides the recognised mark of quality and metal envelope expertise exclusively from Tata Steel. For nearly 50 years Tata Steel has developed a range of technically leading Colorcoat® pre-finished steel products which have been comprehensively tested and manufactured to the highest quality standards. These are supported by a range of services such as comprehensive guarantees, technical support and guidance.

COLORCOAT HPS200 ULTRA®
Colorcoat HPS200 Ultra® by Tata Steel provides exceptional performance and corrosion resistance for building envelope applications. It is backed up with extreme testing and real world global data to demonstrate the best combination of excellent colour stability, gloss retention and outstanding durability. Designed to withstand even the most demanding and aggressive environments, Colorcoat HPS200 Ultra® pre-finished steel provides super durability and corrosion resistance.

Whatever your type of building, from warehouses to offices, retail outlets to processing plants, Colorcoat HPS200 Ultra® demonstrates proven performance and reliability.

COLORCOAT PRISMA®
Colorcoat Prisma® is a technically and aesthetically superior pre-finished steel that represents the ultimate combination of durability and aesthetic appeal. As such, it provides the designer with the freedom to create architecturally striking buildings with exceptional performance, that meet the desired functionality of the building.

CONFIDEX® GUARANTEE
The Confidex® Guarantee from Tata Steel was first launched in 1992 and since then has remained best in class. Confidex® from Tata Steel offers the most comprehensive guarantee for pre-finished steel products in Europe and is available for industrial and commercial buildings with Colorcoat HPS200 Ultra® and Colorcoat Prisma®.

The Confidex® Guarantee is clear and simple and unlike many other guarantees, offers full remedial action in the unlikely event of coating failure.

COLORCOAT® TECHNICAL PAPERS
Working closely with the Tata Steel Colorcoat® Centre for the Building Envelope based at Oxford Brookes University and the Steel Construction Institute, Tata Steel has produced a number of Technical Papers. These address key construction issues such as the creation of an airtight building envelope and end of life options for pre-finished steel cladding systems. For more information about Tata Steel Colorcoat® products and services visit www.colorcoat-online.com or call the Colorcoat Connection® helpline on +44 (0)1244 892434.

Euroclad insulated panels deliver fully traceable and technically robust solutions with Colorcoat® for total peace of mind.
The history of metal roofing stretches way back almost 3000 years. In 970BC King Solomon’s temple in Jerusalem was outfitted with a bronze roof and 1000 years later the original construction of The Pantheon in Rome was roofed with copper.

Today Euroclad are at the forefront of the metal roofing industry, offering choice, performance and convenience.

BOTTLING SUCCESS

Euroclad was chosen for the roof and walls on the huge expansion at Bulmers in Clonmel, as they met both Bulmers’ and John M Allen Architects’ requirements; supplying a non-combustible, complete building envelope solution that provides cradle to cradle carbon neutrality. Euroclad’s systems using Tata Steel Colorcoat® pre-finished steel are assessed and approved under the Confidex Sustain® system, which enables building envelopes supplied by Euroclad to offer carbon neutrality through socially responsible carbon offsetting schemes.

“We are proud to have played a major role in the project right from the outset and that by using our systems, Bulmers achieved the first CarbonNeutral metal clad building in Ireland” said John Barrett, Euroclad Managing Director.

The building houses three high-speed bottling lines and was developed under phase one of Bulmers €200m Capital Investment Programme.

Brendan McGuinness, Managing Director of Bulmers said that: “installing Euroclad systems featuring Tata Steel Confidex Sustain® was the most suitable option for the company, which operates a stringent environmental policy. This system is a great fit with the environmental ethos of Bulmers and supports our efforts to constantly improve our systems, across the entire operational and production process”.

OLYMPIC SUCCESS

Euroclad manufactured and supplied the entire roof for the enormous International Broadcast Centre (IBC) at the 2012 Olympic Games. The London 2012 Games were the catalyst for transforming 2.5Km² of land into a fully functional, exceptional Olympic Park. What was once industrial, contaminated land was rapidly transformed. Euroclad played a big part in creating the World-class facilities needed to host the Olympics and showcase the best of Britain.

The roof of the IBC posed a unique set of challenges. With a roof area of 27,000m² and a requirement to manufacture 77m continuous length sheets directly onto the roof, there were few places for roofing contractor Hathaway to turn. Euroclad offered the perfect solution with its Secret fix roofing system, which was manufactured onsite in continuous lengths.

A fully tested lifting rig and remote control manufacture meant that sheets could be rollformed directly onto the roof, saving time and making construction of the roof much more efficient.

Acoustic performance was a critical factor in the choice of Secret fix SF500. The original specification called for a foam insulated roof panel which could not achieve the demanding acoustic performance required. Euroclad provided sound reductions of around 45dB, helping to create an acoustic environment conducive to live broadcasting.

Euroclad also manufactured around 4,500m² of LINEAR 2 rainscreen facades for the Olympic stadium. The size of panels and the type of installation presented considerable technical challenges and the solutions proposed by Euroclad formed part of the successful bid by specialist contractor Prater.
TOP OF THE CLASS

Euroclad supplied a series of stunning standing seam roofs for the new Coláiste Bríde secondary school in Clondalkin, Dublin. The development takes advantage of the excellent performance and contemporary appearance of Euroclad’s standing seam roof system. The numerous curved roofs encompass a total of 13,000m² with the Euroseam outer profile being fixed over a structural steel deck, offering excellent acoustic performance; a key factor in sound-sensitive buildings like schools.

Construction of the new secondary school and gymnasium started with the demolition of the old school, with the new buildings developed on the same site for the Irish Department of Education and Science.

Main contractor Glennman Corporation managed the construction with McCaughney Roofing & Cladding installing the Euroclad standing seam roof.

Euroclad Managing Director John Barrett said of the Coláiste Bríde development: “Euroseam was chosen for this project because of its great performance and looks. The environmental credentials of Euroclad building envelopes support the more tangible benefits of acoustic and thermal performance.”

CASE STUDY: EUROSEAM

A LESSON IN CONSTRUCTION

Vieo helped realise a large and complex redevelopment project at the Cambridge campus of Anglia Ruskin University, carried out whilst the university remained operational. The centre section of the campus was demolished and required major service diversions, prior to the commencement of the main construction.

2000m of Vieo in a mixture of bespoke 525mm and 225mm pan widths was manufactured by Euroclad and installed as feature roofing and cladding to help achieve the challenging geometry of the progressive new building.

The site is in Cambridge city centre and is very restricted with only two small side roads to access the site. It is surrounded by sensitive neighbours including an old people’s home, a primary school, a theatre and local residents. It was a critical requirement that the project was delivered without any disruption to the education of the 6000 students who use the campus every day. Euroclad were able to coordinate all deliveries to minimise disruption to the students and surrounding residents.

CASE STUDY: VIEO
The use of metal in the construction of buildings and other architectural structures was one of the most distinctive innovations of the Industrial Revolution. The performance and convenience of metal in construction was a revelation and it continues to evolve to meet the changing requirements of modern construction.

Today, Euroclad’s wall systems offer choice, performance and convenience; supported by Euroclad’s position at the forefront of the metal cladding industry.

UNIVERSITY UNDULATIONS

Corrugated profiles used to be synonymous with sheds and old industrial buildings. With the move towards trapezoidal profiles the undulating curves of sinusoidal roofing and cladding fell out of favour. But recent years have seen resurgence in their use, often with great visual effect as part of a modern building envelope. The new £3.7m state-of-the-art coaching and performance development Centre at Glamorgan Sport Park, Wales, is one such building that takes full advantage of this attractive cladding option in Silver Colorcoat Prisma®. It is also the first sports centre in the UK to receive a BREEAM excellent rating for its facilities.

Glamorgan Sport Park is the home of outdoor sports students at Glamorgan University. The site covers an impressive 30 acres, which includes indoor and outdoor facilities that are regularly used by professional teams, including Cardiff City FC, Cardiff Blues Rugby Academies and the Welsh Rugby Union as part of their elite coach education programme. It has also been used by various professional teams including the British and Irish Lions and the Australian, New Zealand and South African national rugby teams.

SPORTING NEW SHAPES

Trapezoidal profiles are cost-effective and have excellent performance. They can also be used to create unique structures, as was the case at Ravenscraig Sports Centre, Scotland, where the impressive roofs that erupt into the Lanarkshire skyline are forced to share equal billing with the remarkable diagonally-laid walls. Using Colorcoat Prisma on both the roof and walls the former home of Scottish steel will be an attractive and familiar part of the landscape for many years to come.

Euroclad supplied 22,000m² of roof and wall cladding in Silver Colorcoat Prisma®, which formed a thermally efficient envelope around the sports centre. The products are applied in an unconventional but visually effective way with diagonal cladding providing impact and individuality.

A series of roofs of varying pitch deliver an interesting eruption at the centre of the building. Euroclad trapezoidal profiles were specified on the roof and walls with a combination of perforated and solid liners.

There are many factors that need to be balanced when designing and constructing an architecturally striking leisure facility that must also meet the very practical requirements of a sports venue. In the case of Ravenscraig Sports Facility, key to achieving this was specifying systems and products that can create an arresting and unique building whilst ensuring it takes into consideration practical requirements such as durability and cost.
FANTASTIC FACILITY

The new £8.5m Exeter College Technology Centre was officially opened at the end of last year by former education minister Lord Adonis, who hailed it as a “fantastic” facility “which will create huge opportunities for young people developing their skills”.

The new college features a range Euroclad’s most attractive and high performance products, which help achieve the visual and functional design of this significant new centre of excellence.

Euroclad customer MA Wilcombe Ltd installed the building envelope which includes: an attractive half round profile in lustrous Anthracite Colorcoat Prisma®; the clean lines and proven performance of an aluminium standing seam roof system; and visually impressive red LINEAR Façade rainscreen panels. In addition, the half round profiled steel is fixed to a Rainspan substrate; a long-span structural composite panel manufactured by sister company Eurobond and supplied by Euroclad.

CURRICULAR CURVES

Three Ways School in Bath is an exceptional example of a project which has incorporated modern building materials into a school to produce a visually stunning and exciting learning centre. The school is for children with special needs and therefore good interior and exterior design is fundamental to its effectiveness.

At the heart of the school is a sensory studio. This is an egg-shaped multi-sensory room that has its exterior clad in copper composite panels, manufactured by Euroclad. To create the egg each panel is narrow at the end and wider at the centre and is precisely curved. The panels were fixed using copper rivets to give the exterior a seamless finish.

Given the nature of the material used in this unique project, the children are provided with an inspiring environment and will also witness the exterior colour change from shiny copper to green as the copper gradually oxidizes over the years.

Speaking about the project, Julie Dyer the Headteacher at Three Ways School said: “We are really happy with our multi-sensory studio, the copper egg has such an aesthetic impact and it sets our school apart from any other. The idea has worked really well and it has shaped a creative and imaginative learning environment where anything is possible, exactly the feelings we want to generate for our visual arts. It’s amazing what today’s materials allow you to do; we definitely didn’t have anything like this when I was at school.”
FINISHING SCHOOL

Flashings are an important part of the Euroclad portfolio. The demand for complex and challenging fabrications has grown over the years but Euroclad still prides itself on the efficient production and fast turnaround of flashings. These products close the building envelope off to the weather and provide an attractive finish where building elements meet.

A recent example of the application of flashings to great effect is Ysgol Gyfun Gwynllyw School in Pontypool.

The flashings on this building complement the overall building design and provide the finishing touch that is needed. The school was a mixture of new construction and refurbishment, with work split into three phases, involving the construction of a new teaching block and the removal of several demountable classrooms; the construction of a new dining block; and finally refurbishment works to the existing main building.

ANCILLARY PRODUCTS

Support is a major part of what makes Euroclad unique. The support available throughout the specification process is a key differentiator that makes Euroclad the company that can be relied on from start to finish; enquiry to installation.

But there is also a range of supporting products that perfectly complement the roof and wall cladding systems or provide niche products for specialised applications. It is this holistic approach that provides customers with a sustainable advantage when it comes to metal construction.

CASE STUDY: FLASHINGS

FINISHING SCHOOL

Case study: Flashings

BREATH OF FRESH AIR

Euroclad supplied Severn Insulation with performance louvers for the records office in Ebbw Vale, South Wales. The centrepiece of this regeneration project is the re-furbished Grade 2 listed Steelworks general office which has benefitted from the addition of a new extension that will house the records office, to be known as Gwent Archives. The refreshed steelworks general office will be home to the Steelworks Archive Trust as well as a visitor centre allowing guests to trace the valley’s industrial past.

The new extension features a modern design which Euroclad helped to achieve by supplying a standing seam roof, over which aluminium cassette panels were installed.

To provide natural ventilation, performance louvers were precision manufactured to provide year-round fresh air and a cooling effect in the summer.

The challenge with these particular louvers was that they were to be installed on a sloping face. To avoid water entering the building the louvers had to be fitted with a special weather eliminator. This commitment to achieving functional as well as aesthetic solutions sets Euroclad apart.

CASE STUDY: LOUVERS

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CASE STUDY: LOUVERS