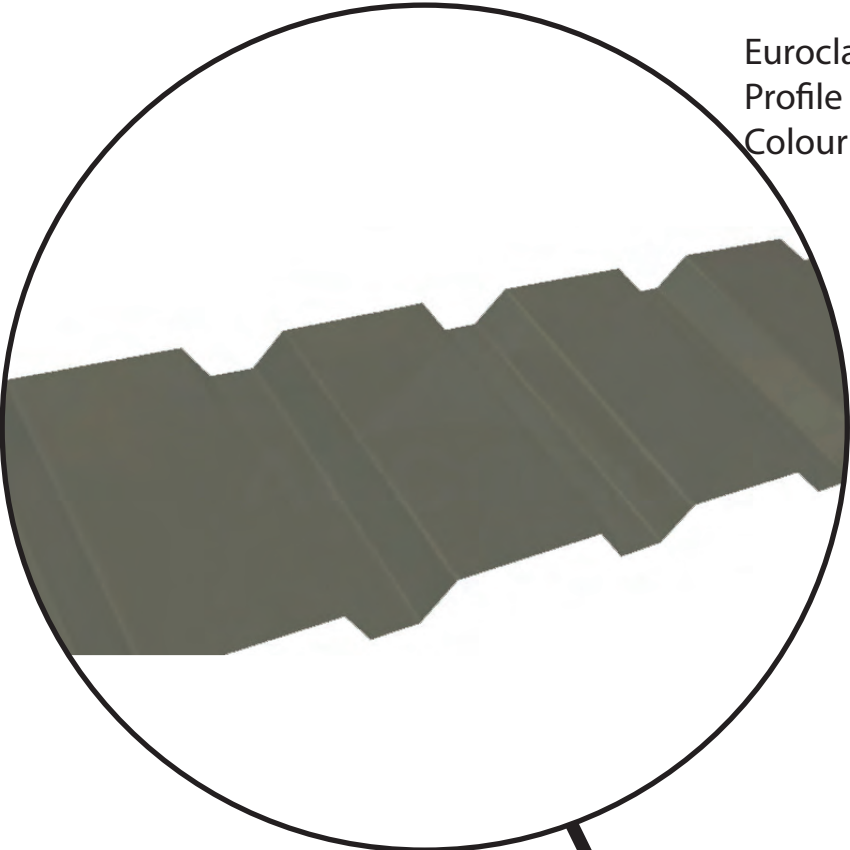
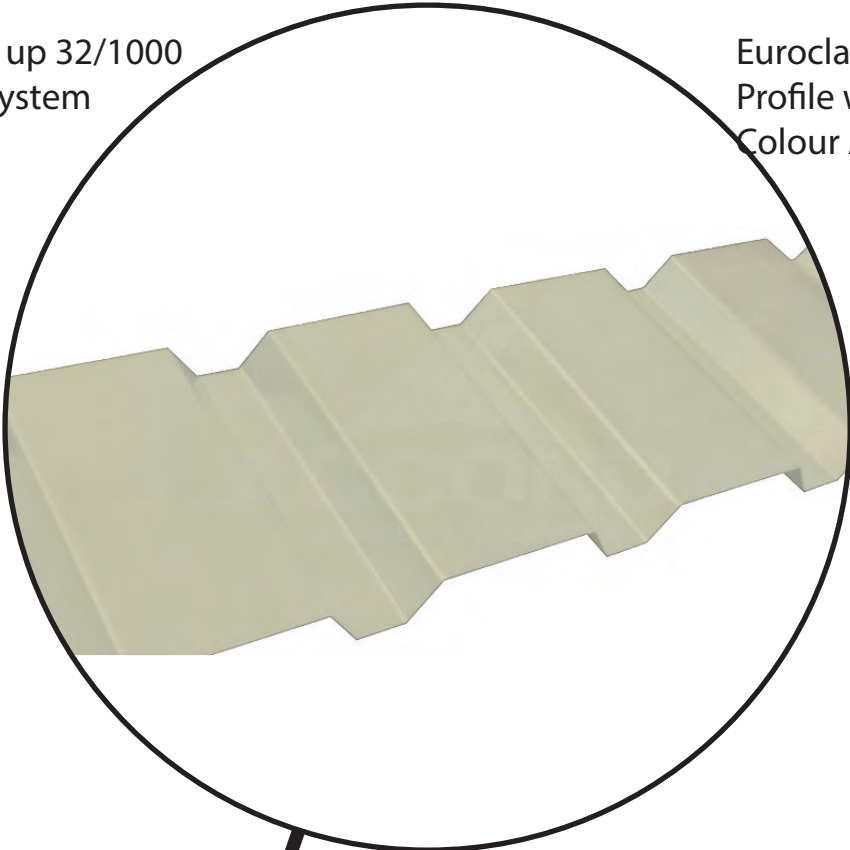


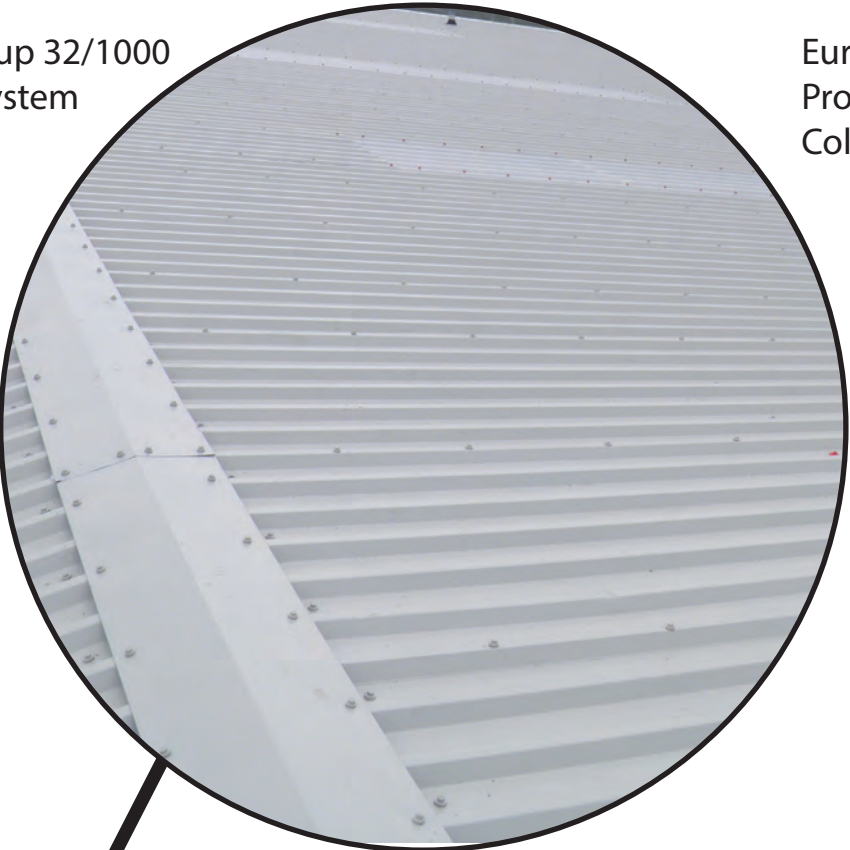
Materials Samples



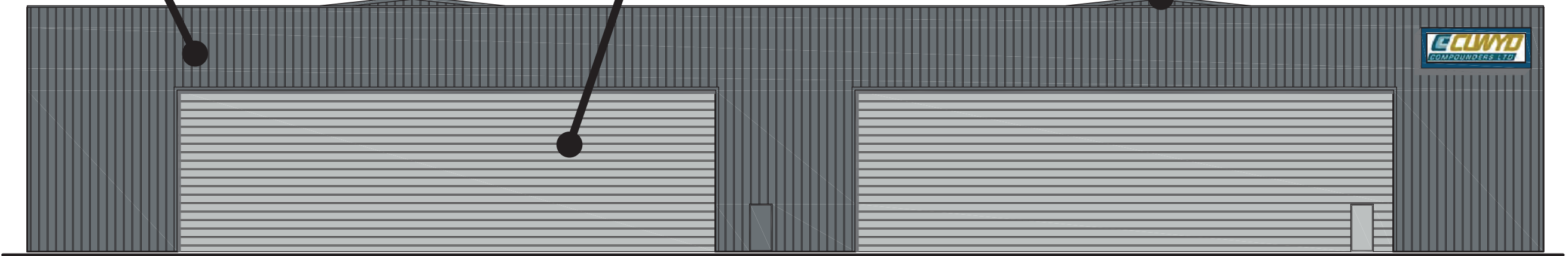
Euroclad Elite 51 built up 32/1000  
Profile wall cladding system  
Colour Merlin Grey



Euroclad Elite 51 built up 32/1000  
Profile wall cladding system  
Colour Albatross



Euroclad Elite 2 built up 32/1000  
Profile roof cladding system  
Colour Goosewing Grey



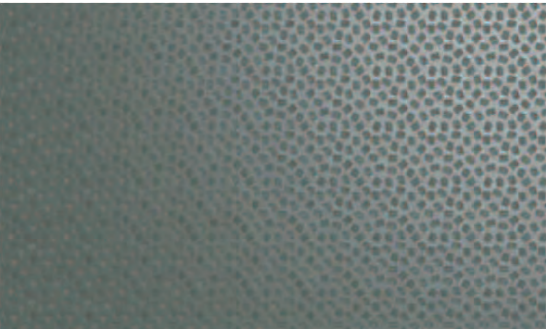
Elevation along service road



Elevation towards Main Entrance



Albatross (RAL 240 80 05)



Merlin Grey (RAL 180 40 05)



Goosewing Grey (RAL 7038)



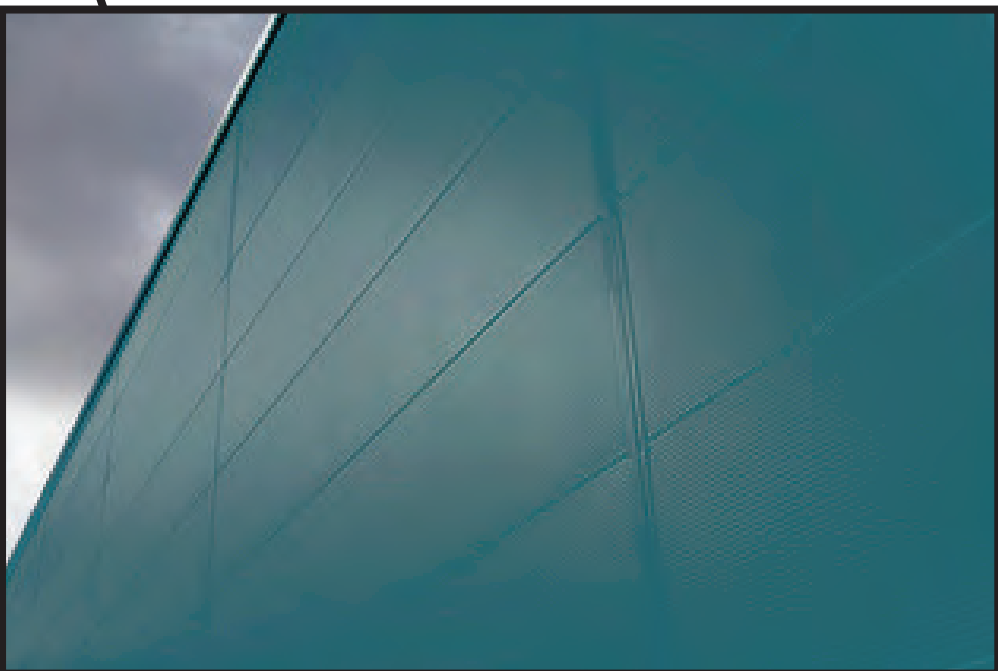
Ice Blue (RAL 230 80 10)



Ocean Blue (RAL 220 30 25)



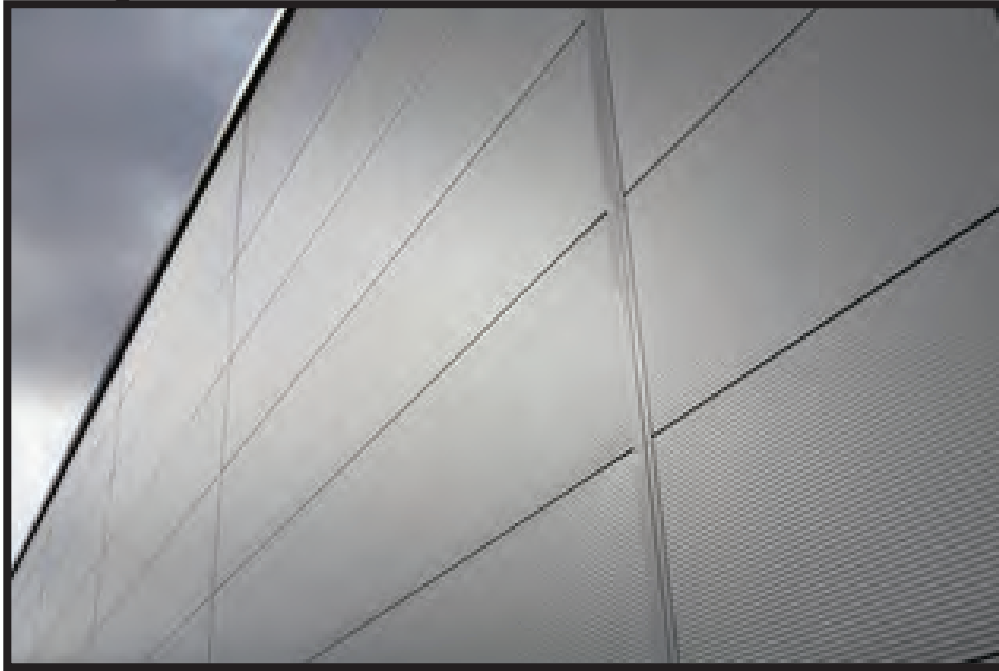
Eurobond Europanel F5 Extra  
composite cladding panels  
Colour Ice Blue



Eurobond Europanel F5 Extra  
composite cladding panels  
Colour Ocean Blue



Eurobond Europanel F5 Extra  
composite cladding panels  
Colour Albatross



Eurobond Europanel F5 Extra  
composite cladding panels  
Colour Merlin Grey

|          |                                                               |             |            |                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                      |
|----------|---------------------------------------------------------------|-------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Client   | Russells Construction                                         | Drawing No. | AS450-CP04 | Do not scale from this drawing. The contents of this drawing are intended for diagrammatic purpose only and are not intended to be construed as containing any representations of fact. Cube Architecture and Design cannot be held responsible for any misrepresentations within the drawings content. | <div><div>CUBE</div><div>architecture and design</div><div>www.cubearchitecture.net</div></div> <div>commercial house<br/>clarence avenue<br/>trafford park<br/>m17 1qs<br/>tel: 0161 848 5893</div> |
| Contract | Proposed Industrial Development<br>Abbey Rd, Wrexham Ind Est. | Revision    | -          |                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                      |
|          |                                                               | Date        | FEB '16    |                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                      |

## ELITE ROOFING & CLADDING SYSTEMS

**EUROCLAD**







**EUROCLAD**

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## THE EASILY SPECIFIED SOLUTION

Elite Systems provide a package of components from leading manufacturers which combine to form guaranteed roof and wall systems with defined performance. Elite Systems offer superior, proven roofing and cladding solutions that are easy to specify and offer great performance throughout their lifetime.

Elite Systems can be used for a multitude of roof and wall applications, all with inherent design flexibility. Incorporating recyclable, non-combustible insulation cores, Elite Systems have outstanding acoustic and thermal performance.

Elite Systems are reliable, with a standard 12 year system guarantee and the option of an ElitePLUS system with a 25 year system guarantee.

# introduction

## EUROCLAD

Euroclad is the UK'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.

Founded in 1981 Euroclad has taken huge strides over three decades, consistently investing in people and technology to satisfy customer needs. Cutting edge UK manufacturing maintains Euroclad's position at the forefront of the metal roofing and cladding industry.

As part of its commitment to quality, service and the environment, Euroclad operates a Quality Management System approved to BS EN ISO 9001:2008 and an Environmental Management System approved to BS EN ISO 14001:2004.

## ELITE – ROOFING SYSTEMS



## ELITE – VERTICAL CLADDING SYSTEMS



## ELITE – HORIZONTAL CLADDING SYSTEMS





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

## **SUSTAINABILITY**

All cladding used is recyclable\* with no added greenhouse gases, minimising any potential ecological impact. Elite Systems also offer the World's first CarbonNeutral building envelope as part of Confidex Sustain® when specified with Colorcoat HPS200® Ultra and/or Colorcoat Prisma®.

## **PERFORMANCE**

With the increasing pressure to meet new performance criteria for all building envelopes, Euroclad Elite Systems deliver on all counts, providing the flexibility of construction to comfortably deliver specified air tightness, sound reduction and thermal performance in accordance with Building regulations.

## **NON-COMBUSTIBILITY**

Euroclad Elite Systems are non-combustible, being constructed from inert, fire-resistant materials like mineral fibre insulation and steel or aluminium skins. In the event of a fire, Elite Systems will maintain their insulation and integrity, reducing risk to the lives of building users and fire fighters.

## **DESIGN FLEXIBILITY**

Specifiers and developers increasingly demand greater design flexibility. Euroclad systems offer complete visual freedom. On-going development, along with the ability to accurately convert your design into the correct aesthetic, means that Euroclad delivers at all levels.

\*Source: Colorcoat® Technical Paper, End of life options for pre-finished steel buildings, 2006.



# system benefits

## WHY CHOOSE ELITE SYSTEMS

Elite Systems are a range of integrated constructions from Euroclad which are superior, specifiable metal roofing and cladding systems. Carrying 25 year or 12 year System Guarantees in addition to up to 40 year Guarantees for the external sheet materials. All Elite Systems feature fully tested and accredited performance, benefiting contractors with quick and easy installation and offering designers flexibility and peace of mind.

Elite represents 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.

A select group of regional and national specialist contractors are recommended for the selection, pricing and installation of Elite Systems.

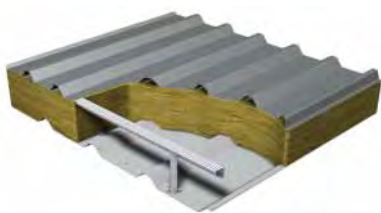
Part L of the building regulations is focused on the conservation of fuel and power. With buildings in the UK accounting for approximately 50% of the total UK emissions, the on-going changes to the Building Regulations are designed to ensure continued

improvements to energy efficiency and the reduction of CO<sub>2</sub> emissions.

Elite Systems provide excellent thermal and air tightness performance, efficient Psi values for linear details and further energy saving options such as high reflective liner and integrated rooflights. Integration of Renewables such as Tata steels Renew SC Transpired Solar Collectors and accessories for integration of Photovoltaic panels can further enhance CO<sub>2</sub> reduction for the building, offering unparalleled performance choice for compliance. Our growing library of BIM objects and CAD details have recently been complemented by a new Part L Design Check capability, which makes it even easier to specify Elite Systems to meet the requirements of the entire building.

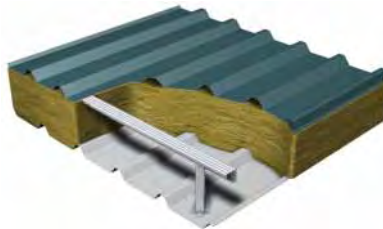
Euroclad can offer a wide range of 'penalty free details' in a range of formats, as well as the evidence for the Building Control Body to show the calculations have been done by experienced and qualified persons, meeting the government requirements. This service is offered when Elite Systems are specified.

Full technical details and NBS specifications are available at [www.euroclad.com](http://www.euroclad.com)



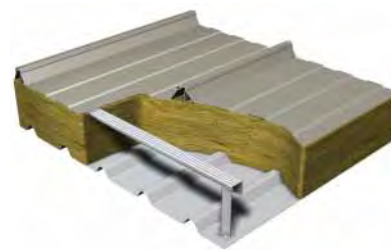
### ELITE SYSTEM 1 – PAGE 10

- Cost effective trapezoidal profile
- Lightweight system
- U-values down to 0.17W/m<sup>2</sup>K using 260mm Quattro spacer\*
- Minimum recommended design pitch of 4°
- Self-curve down to 45m radius
- Good acoustic performance
- Ideal for industrial and warehouse applications.



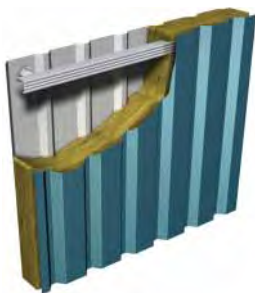
### ELITE SYSTEM 2 – PAGE 11

- Popular trapezoidal profile
- More robust liner panel allows quicker installation
- U-values down to 0.14W/m<sup>2</sup>K using 320mm Quattro spacer\*
- Minimum recommended design pitch of 4°
- Self-curve down to 45m radius
- Better acoustic performance than Elite 1
- Great for Industrial, warehouse and retail developments.



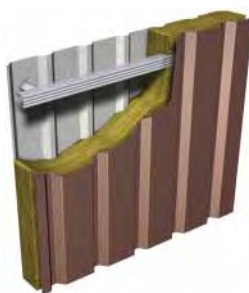
### ELITE SYSTEM 3 – PAGE 12

- No endlaps or through fixings rolled as single length sheets self curve down to 50m radius
- Onsite manufacture on the ground or at building eaves
- U-values down to 0.14W/m<sup>2</sup>K using 320mm Quattro spacer\*
- Minimum finished pitch 1°
- Self-curve down to 50m radius
- Excellent acoustic properties
- Developed for long-span distribution centres, education, leisure and retail.



### ELITE SYSTEM 51 – PAGE 18

- Cost effective trapezoidal profile
- Typical modern cladding system
- U-values down to 0.14W/m<sup>2</sup>K using 320mm Quattro spacer\*
- Recyclable profiled sheets, insulation and spacer system
- Fire rated wall system as standard
- 4 hour fire certificated versions
- Ideal for industrial and warehouse applications.



### ELITE SYSTEM 52 – PAGE 19

- Popular wider-pitched trapezoidal profile
- Typical modern cladding system
- U-values down to 0.13W/m<sup>2</sup>K using 320mm Quattro spacer\*
- Recyclable profiled sheets, insulation and spacer system
- Easy to detail, quick installation
- 4 hour fire certificated versions
- Great for Industrial, warehouse and retail developments.



### ELITE SYSTEM 53 – PAGE 20

- Sinusoidal profile provides retro finish
- Traditional cladding made from contemporary materials
- U-values down to 0.14W/m<sup>2</sup>K using 320mm Quattro spacer\*
- Recyclable profiled sheets, insulation and spacer system
- Easy to detail, quick installation
- 4 hour fire certificated versions
- Popular for modern architectural applications.



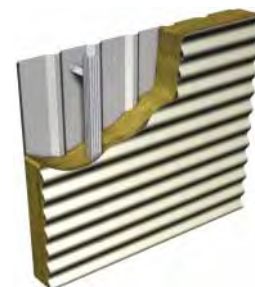
### ELITE SYSTEM 55 – PAGE 22

- Cost effective trapezoidal profile
- Typical modern cladding system
- U-values down to 0.15W/m<sup>2</sup>K using 280mm Quattro spacer\*
- Recyclable profiled sheets, insulation and spacer system
- Easy to detail, quick installation
- 4 hour fire certificated versions
- Ideal for industrial and warehouse applications.



### ELITE SYSTEM 56 – PAGE 23

- Popular wider-pitched trapezoidal profile
- Typical modern cladding system
- U-values down to 0.15W/m<sup>2</sup>K using 280mm Quattro spacer\*
- Recyclable profiled sheets, insulation and spacer system
- Easy to detail, quick installation
- 4 hour fire certificated versions
- Great for Industrial, warehouse and retail developments.



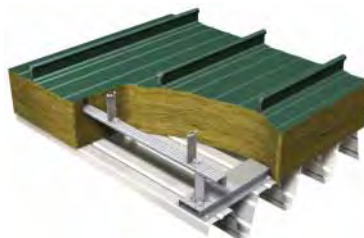
### ELITE SYSTEM 57 – PAGE 24

- Sinusoidal profile provides retro finish
- Traditional cladding made from contemporary materials
- U-values down to 0.15W/m<sup>2</sup>K using 280mm Quattro spacer\*
- Recyclable profiled sheets, insulation and spacer system
- Easy to detail, quick installation
- 4 hour fire certificated versions
- Often used for modern architectural applications



## ELITE SYSTEM 4 – PAGE 13

- Premium, low pitch aluminium standing seam roof
- Single length sheets with no end laps
- Onsite manufacture including curved and tapered sheets
- U-values down to 0.13W/m<sup>2</sup>K using 320mm Quattro spacer\*
- Minimum actual pitch of 1°
- Self-curve down to 45m, induced down to 8m radius
- Excellent acoustic properties
- Adaptable solution.



## ELITE SYSTEM 5 – PAGE 14

- Bespoke aluminium standing seam with structural deck
- Structural deck with spans of up to 10m
- U-values down to 0.11W/m<sup>2</sup>K using 320mm Quattro spacer\*
- Minimum actual pitch of 1°
- Self-curve down to 45m, induced down to 8m radius
- Excellent acoustic properties
- Superb choice for education, sports/leisure and retail.

These core Elite Systems offer the design flexibility and performance to suit the majority of applications. For very specific or niche applications other Elite Systems are available.

If you require an Elite System assembly that is not included in this brochure please contact the sales or technical department by calling **02920 790722** or emailing **sales@euroclad.com**



## ELITE SYSTEM 54 – PAGE 21

- Opus flat plank cladding
- Concealed fix, adjustable joint system
- U-values down to 0.14W/m<sup>2</sup>K using 320mm Quattro spacer\*
- Recyclable profiled sheets, insulation and spacer system
- Easy to detail, quick installation
- 4 hour fire certificated versions
- Excellent for commercial and retail applications.

These core Elite Systems offer the design flexibility and performance to suit the majority of applications. For very specific or niche applications other Elite Systems are available.

If you require an Elite System assembly that is not included in this brochure please contact the sales or technical department by calling **02920 790722** or emailing **sales@euroclad.com**



## ELITE SYSTEM 58 – PAGE 25

- Premium flat plank cladding
- Concealed fix, adjustable joint system
- U-values down to 0.15W/m<sup>2</sup>K using 280mm Quattro spacer\*
- Recyclable profiled sheets, insulation and spacer system
- Easy to detail, quick installation
- 4 hour fire certificated versions
- Excellent for commercial and retail applications.



## ELITE SYSTEM 60 – PAGE 26

- Striking arced profile with 1m cover width
- UK manufactured from high quality pre-finished steel
- U-values down to 0.15W/m<sup>2</sup>K using 280mm Quattro spacer\*
- Recyclable profiled sheets, insulation and spacer system
- Mitred corners or finned detailing available
- 4 hour fire certified versions
- Popular choice for modern building design across all industry sectors.

These core Elite Systems offer the design flexibility and performance to suit the majority of applications. For very specific or niche applications other Elite Systems are available.

If you require an Elite System assembly that is not included in this brochure please contact the sales or technical department by calling **02920 790722** or emailing **sales@euroclad.com**

\*Standard system performance. Bespoke solutions with further enhanced U-Values are available – please refer to Sales.

Development  
Location  
Architect  
Consultant  
Roofing contractor

**Ravenscraig Sports Centre**  
North Lanarkshire  
Populous  
Buro Happold  
Lakesmere



Development  
Location  
Architect  
Main contractor  
Roofing contractor

**International Broadcast Centre**  
Olympic Park London  
RPS Burks Green  
Carillion  
Hathaway



Development  
Location  
Architect  
Main contractor  
Roofing contractor

**Marks and Spencer Eco Store**  
Cheshire Oaks  
Aukett Fitzroy Robinson  
Simons Design  
Northern Cladding



# elite roof systems

**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, with Elite Systems offering choice, performance and convenience, as well as the peace of mind afforded by an entire system guarantee and approved installers.

Elite Roof Systems are all built on the same principle; site assembled systems comprising of a liner sheet (or structural deck) separated by a spacer system, with an external profile in steel or aluminium and mineral wool sitting between the sheets to provide thermal and acoustic insulation.

There is a great choice of exterior profiles, all of which have inherent benefits. The trapezoidal profiles in Elite 1 and 2 are cost-effective and have excellent performance. They can also be used to create unique roof structures, as was the case at Ravenscraig Sports Centre, where a series of roofs with varying pitch erupt into the North Lanarkshire skyline. With the ElitePlus 25 year system guarantee on the roof and walls it will be an attractive and familiar part of the landscape for many years to come.

The steel secret fix roof sheet of Elite 3 is often used to take advantage of its long continuous sheets and mobile manufacture. Elite 3 external sheets can even be manufactured at the eaves of a building directly onto the roof; which is precisely what was done at the International Broadcast Centre at London's Olympic Park, where 27,000m<sup>2</sup> of roof was manufactured directly onto the roof for a faster installation. After more than 2 years of testing and development standard and modified systems have been proven to achieve demanding acoustic performances for roofs and walls.

The aluminium standing seam featured in Systems 4 and 5 shares the continuous site rolling benefits of System 3 and can be curved and tapered to offer that extra level of design flexibility. The acoustic performance of these premium systems is outstanding, often resulting in their use on noise-sensitive buildings like schools and colleges.

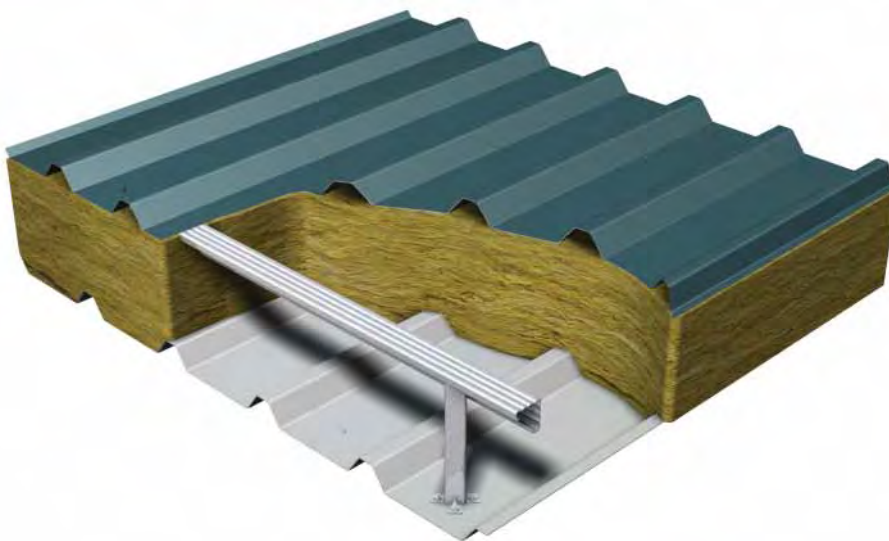
A recent example of the unique combination of performance and aesthetics offered by standing seam is the flagship Marks and Spencer Eco Store in Cheshire Oaks where 11,000m<sup>2</sup> of multi-waveform standing seam transforms the roof into a unique feature of the building, whilst providing a low U-Value of 0.17W/m<sup>2</sup>K.

The experience and manufacturing expertise available from Euroclad completes the picture, providing high quality manufacturing and customer service to complement the choice, performance and convenience of Elite Roof Systems.

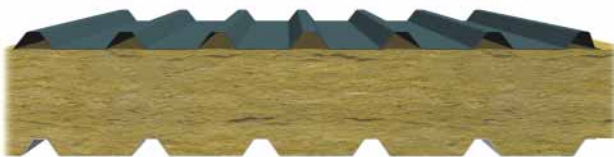
Elite Roof Systems 1 to 5 offer the design flexibility and performance to suit the majority of applications. For very specific or niche applications other Elite Systems are available, ranging from trapezoidal external profile over structural metal decks, to secret fix and standing seam systems incorporating timber decks. Further detail on additional Elite Systems can be found in Euroclad's BBA certification.

If you require an Elite System assembly that is not included in this brochure please contact the sales or technical department by calling **02920 790722** or emailing **[sales@euroclad.com](mailto:sales@euroclad.com)**

High quality roofing solution with non-fragile liner



Elite System 2 lends itself to almost any roof application with a pitch of 4° or more. It uses Colorcoat HPS200® Ultra, Colorcoat Prisma® pre-finished steel, or aluminium in smooth PVDF or ARS coated finish. The 32/1000 roof external profile is fixed to the Quattro spacer system, which creates the insulation gap between the outer sheet and the MW5 liner, which is available with standard or perforated sheets for acoustic purposes.



## SPECIFICATIONS

|                   |                                                                                                                                                                                                                                                              |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| External          | <b>Euroclad 32/1000F 0.7mm steel</b><br>Colorcoat HPS200® Ultra<br>Colorcoat Prisma®                                                                                                                                                                         |
|                   | <b>Euroclad 32/1000F 0.9mm aluminium</b><br>ARS coating<br>PVDF coating                                                                                                                                                                                      |
| Spacer system     | Quattro                                                                                                                                                                                                                                                      |
| Insulation        | 0.040 W/mK Lambda insulation as standard – other options available                                                                                                                                                                                           |
| Liner panel       | Euroclad MW5L 0.7mm steel                                                                                                                                                                                                                                    |
| System components | <b>Available from Euroclad:</b><br>Fasteners · Flashings · Membranes<br>Tapes, Mastic and Sealants · Fabrications<br><b>Direct from manufacturer:</b><br>PV solutions · Fall arrest and Fall restraint<br>Standard · U-value rooflights<br>Roof penetrations |

## SYSTEM BENEFITS

- All products CE Marked
- Recommended Installers
- Building Regulations Part L2 compliant
- Comprehensive technical support
- Confidex® Guarantee with Colorcoat HPS200® Ultra and Colorcoat Prisma®
- Curved eaves and ridge
- Ease of specification, costing and installation
- Environmentally-friendly components and manufacture
- Euroclad Elite Plus 25 year guarantee available
- Euroclad Elite 12 year guarantee
- Fast installation
- Good acoustic performance
- Lightweight system
- Manufactured with ISO 14001:2004 accredited systems
- Manufactured with ISO 9001:2008 accredited systems
- Matching flashings
- NBS Specifications
- Non-combustible
- Proven components
- Self-curve down to 45m radius
- Single point procurement and responsibility
- Zero ODP and no added greenhouse gases.

## PERFORMANCE

| U-value                                             | Quattro bracket | 0.040 W/mK insulation |
|-----------------------------------------------------|-----------------|-----------------------|
| 0.25W/m²K<br>AD-L2A 2010 back stop value compliant  | 185mm           | 180mm                 |
| 0.18W/m²K<br>2013 notional building value compliant | 260mm           | 260mm                 |

# elite wall systems

**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 Elite Wall Systems offer choice, performance and convenience, as well as the peace of mind afforded by an entire system guarantee and approved installers; all supported by Euroclad's position at the forefront of the metal cladding industry.

Elite Wall Systems are built on the same principle; site assembled systems comprising of a liner sheet separated by a spacer system, with an external profile in steel or aluminium and mineral wool sitting between the sheets to provide thermal insulation.

There is a great choice of exterior profiles, all of which have inherent benefits. The trapezoidal profiles in the majority of Elite Wall Systems are cost-effective and have excellent performance. They can also be used to create unique structures, as was the case at Ravenscraig Sports Centre, where the impressive roofs mentioned earlier are forced to share equal-billing with the remarkable diagonally-laid walls. With the ElitePlus 25 year system guarantee on both the roof and walls it will be an attractive and familiar part of the landscape for many years to come.

The half-round profile of Elite 60 provides a finish that stands apart; so it came as no surprise when Mini, a brand that represents products known for their striking good looks, installed it on a new garage in Leicester. The Sytner Mini garage features the eye catching Half Round profile laid horizontally on the walls in sleek metallic black and as such the showroom certainly stands out from the crowd.

Sinusoidal profiles form part of Elite 53 and 57. 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 is one such building that takes full advantage of this attractive cladding option. It is also the first sports centre in the UK to receive a BREEAM excellent rating for its facilities.

Opus cladding featured in Elite Systems 54 and 58 can provide an attractive aesthetic that rivals composite panels and rainscreen cladding, whilst offering potential cost savings.

These efficient and effective cladding systems have been employed to great effect for refurbishments of Citroën dealerships across the UK; a great example being Bassetts in Bridgend. To reflect the garage's commitment to delivering a 'first class experience' Europlank provides an impressive, high quality finish; realising the Citroën corporate style of architecture whilst providing a functional and tailored finish.

The experience and manufacturing expertise available from Euroclad completes the picture, providing high quality manufacturing and customer service to complement the choice, performance and convenience of Elite Wall Systems.

Elite Roof Systems 51 to 60 offer the design flexibility and performance to suit the majority of applications. Also available is the Elite 50 systems, which incorporates the Half Round profile laid vertically.

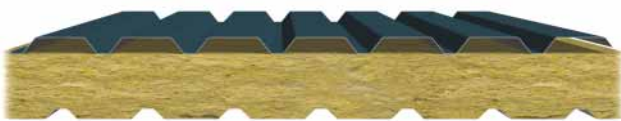
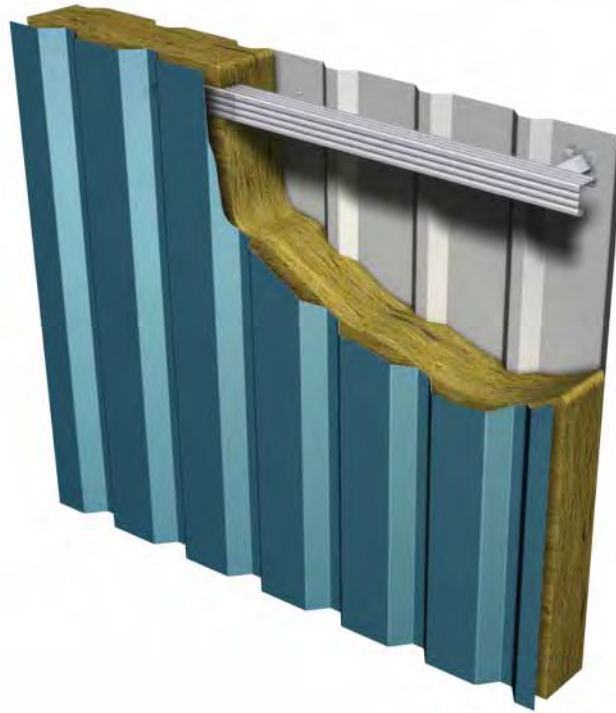
If you require an Elite System assembly that is not included in this brochure please contact the sales or technical department by calling **02920 790722** or emailing **[sales@euroclad.com](mailto:sales@euroclad.com)**

## ELITE SYSTEM

# 51

**High quality, cost-effective vertical cladding solution**

Elite System 51 is an adaptable, sustainable and economical solution to vertical cladding. The system comprises of 32/1000 reverse profile steel or aluminium sheeting fixed to the Quattro spacer system. Mineral fibre insulation is housed between the outer sheet and the 19/1000 white enamelled liner.



### SPECIFICATIONS

|                                                      |                                                                                      |
|------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>External</b>                                      | <b>Euroclad 32/1000R 0.5mm steel</b><br>Colorcoat HPS200® Ultra<br>Colorcoat Prisma® |
|                                                      | <b>Euroclad 32/1000R 0.9mm aluminium</b><br>ARS coating<br>PVDF coating              |
| <b>Spacer system</b>                                 | Quattro                                                                              |
| <b>Insulation</b>                                    | 0.040 W/mK Lambda insulation as standard – other options available                   |
| <b>Liner panel</b>                                   | Euroclad 19/1000 0.4mm steel                                                         |
| <b>System components</b><br>(available via Euroclad) | Fasteners · Flashings · Membranes<br>Tapes, Mastics and Sealants<br>Fabrications     |

### SYSTEM BENEFITS

- All products CE Marked
- Recommended Installers
- Building Regulations Part L2 compliant
- Comprehensive technical support
- Can be installed as a fire wall
- Confidex® Guarantee with Colorcoat HPS200® Ultra and Colorcoat Prisma®
- Ease of specification, costing and installation
- Environmentally-friendly components and manufacture
- Euroclad Elite Plus 25 year guarantee available
- Euroclad Elite 12 year guarantee
- Fast installation
- Good acoustic performance
- Lightweight system
- Manufactured with ISO 14001:2004 accredited systems
- Manufactured with ISO 9001:2008 accredited systems
- Matching flashings
- NBS Specifications
- Non-combustible
- Proven components
- Single point procurement and responsibility
- Zero ODP and no added greenhouse gases.

### PERFORMANCE

| U-value                                             | Quattro bracket | 0.040 W/mK<br>Quilt insulation depth and U-value |
|-----------------------------------------------------|-----------------|--------------------------------------------------|
| 0.35W/m²K<br>AD-L2A 2010 back stop value compliant  | 120mm           | 120mm<br>(0.35W/m²K)                             |
| 0.26W/m²K<br>2013 notional building value compliant | 170mm           | 180mm<br>(0.25W/m²K)                             |

# contemporary external wall panel system



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| <b>27</b> | omegas and extrusions                                    |           |                                                        |

If you would like any additional information on any of the topics highlighted in this technical manual or project specific technical information not included then please contact us and we would be happy to discuss your requirements.

**Call** +44 (0) 29 20 77 66 77  
**Fax** +44 (0) 29 20 36 91 61  
**Email** [technical@eurobond.co.uk](mailto:technical@eurobond.co.uk)

**[www.eurobond.co.uk](http://www.eurobond.co.uk)**

# eurobond laminates

## about us

Eurobond is the leading UK manufacturer of non-combustible cored internal and external wall and ceiling composite panels. The stone wool core offers a low environmental impact, robustness, tested fire resistance and minimum smoke in the event of a fire. The panel systems are designed to the highest standards and manufactured to consistent high quality to minimise risk through tested performance, proven installation methods and end of life disposal.

Eurobond offers a wide range of stone wool cored, architecturally flat composite wall and ceiling panels for both internal and external use.

All panel systems provided are tested and approved to relevant Loss Prevention standard LPS 1181, LPS 1208 and Underwriters Laboratories standard ASTM E119-12.

The company continues to invest in product development, testing and manufacturing technology and operates two of the most technologically advanced panel production lines in Europe, producing consistent, high quality products to exacting tolerances.

There is also a comprehensive technical advisory service to assist in the specification, detailing and installation of panel systems.



Hartlepool  
Innovation Centre

our reputation for  
on quality over the



Prestatyn Retail Park,  
North Wales

has been built  
the last 30 years



# europanel introduction

Europanel offers a range of high quality, insulated metal panel systems that deliver clean, smooth and aesthetically appealing solutions ideally suited to contemporary buildings. It is an ideal solution for façades with high requirements for sustainability, fire resistance, acoustics and energy efficiency.

The system has a hidden joint detail which conceals fasteners from view and it can be seamlessly integrated with windows, doors, solar shading and other design requirements.

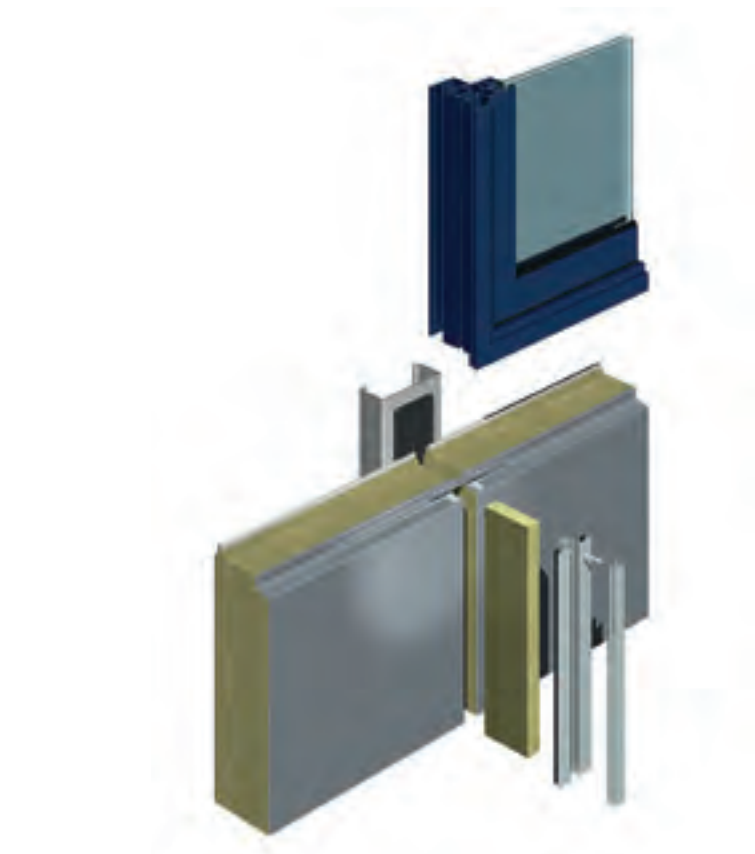
Europanel is available in five pre-engineered systems that can be installed both horizontally and vertically. Europanel neatly combines design freedom with exceptional functional performance and unique modular flexibility of 1mm increments between 300mm and 1200mm wide.

Designed as a single engineered component, Europanel is both quick and cost effective to install, and is ideally suited for new build and refurbishment work across: commercial office, health, education, retail, sport and leisure, and major infrastructure projects.





David Lloyd,  
Worcester



All systems use a high density non-combustible stone wool core that provides 'built in' passive fire resistance, which meets both life safety and property fire protection requirements. It also allows for enhanced structural and acoustic properties.

The stone wool core and panel joint design ensure 'class leading' thermal and air tightness performance to help reduce operational carbon and exceed the requirements of new Approved Document L 2013 and other UK guidance documents.

Design freedom is further enhanced by steel facings in an extensive palette of solid and metallic colours and finishes. This results in stylish building envelopes of the highest quality and appearance.

The five Europanel systems are available in both Colorcoat HPS200 Ultra® and Colorcoat Prisma® by Tata Steel. These are supported by an array of services, such as comprehensive guarantees, colour consultancy and technical support and guidance.

**TATA STEEL**



Rolls-Royce,  
Yorkshire

# THE INNOVATION CENTRE

# F5

Europanel F5, with an architecturally flat profile, is suitable for horizontal or vertical installation delivering fire performance for both insulation and integrity.

# F5 extra

F5 Extra with an architecturally flat profile has a higher density non-combustible stone core compared to F5.

It offers up to 2 hours fire performance for both insulation and integrity combined with enhanced acoustic and structural spanning capabilities.



The F5 and F5 Extra options in the Europanel range provide a clean building exterior through a classic secret fix joint.

The architecturally flat surface and the 5mm joint gap provides a fine pencil line joint horizontally between panels and across the building façade.



Lok N Store,  
Reading

**TATA STEEL**



## **Colorcoat HPS200 Ultra®**

Super durable, guaranteed  
performance

# Unrivalled product performance

## Exceptional performance

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 houses, retail outlets to processing plants, Colorcoat HPS200 Ultra® demonstrates proven performance and reliability.

## Typical properties

| Colorcoat HPS200 Ultra®                       |       |                       | Test standard            |
|-----------------------------------------------|-------|-----------------------|--------------------------|
| Nominal organic coating thickness             | (µm)* | 200                   | EN 13523-1               |
| Specular gloss (60°):                         |       |                       |                          |
| Non-matt colours                              | %     | 20-40                 | EN 13523-2               |
| Matt colours                                  | %     | <10                   | EN 13523-2               |
| Scratch resistance                            | (g)   | >5000                 | EN 13523-12              |
| Abrasion resistance<br>(Taber, 250 rev, 1 kg) | (mg)  | <12                   | EN 13523-16              |
| Flexibility:                                  |       |                       |                          |
| Minimum bend radius                           | (T)   | 0T (16°C)<br>1T (0°C) | EN 13523-7<br>EN 13523-7 |
| Reverse impact                                | (J)   | ≥18                   | EN 13523-5               |
| Adhesion (cross hatch)                        | (%)   | 100                   | EN 13523-6               |
| Maximum continuous operating temperature      | (°C)  | 60                    |                          |
| Corrosion resistance:                         |       |                       |                          |
| Salt spray                                    | (h)   | 1000                  | EN 13523-8               |
| Humidity                                      | (h)   | 1500                  | EN 13523-26              |
| Corrosion resistance category                 |       | RC5                   | EN 10169:2010            |
| UV resistance category                        |       | Ruv4                  | EN 10169:2010            |
| Internal environment classification           |       | CPI5                  | EN 10169:2010            |

\*µm = micron

### Notes

1. The figures contained in this table are typical properties and do not constitute a specification. Tested in accordance with EN 13523. For details on test methods visit [www.colorcoat-online.com](http://www.colorcoat-online.com)
2. For health and safety datasheets contact the Colorcoat Connection® helpline on +44 (0)1244 892434.

## Super durability

Colorcoat HPS200 Ultra® has been developed to perform in demanding environments – both external and internal. It has been subjected to comprehensive natural and accelerated testing, often way beyond the required standards. Colorcoat HPS200 Ultra® is used in a wide range of industrial and commercial buildings

and real-life scenarios provide further evidence of the product's super durable qualities.

Excellent test results mean that Colorcoat HPS200 Ultra® is classified as a CPI5 product as per EN 10169:2010. This is the highest classified level of corrosion protection for internal environments and means that Colorcoat HPS200 Ultra® is suitable for the most demanding internal applications such as swimming pools, sewage treatment plants, power stations, energy from waste and processing factories.

Today's super durable Colorcoat HPS200 Ultra® comes with comprehensive guarantees and offers a sustainable solution for the building envelope where longevity and durability are imperative.

## Double sided option

To support the super durable qualities of Colorcoat HPS200 Ultra® it is provided with a high performance backing coat as standard however is also available double sided. This provides a robust barrier on the reverse side of the steel substrate for buildings with demanding internal and external environments such as manufacturing plants.

## Unrivalled corrosion protection

Colorcoat HPS200 Ultra® uses the unique and proven Galvalloy® metallic coating by Tata Steel. Galvalloy® is made with a special mix of 95% Zinc (Zn) and 5% Aluminium (Al) that conforms to EN 10346:2009. The carefully developed proportions of Zinc and Aluminium in Galvalloy® offers a combination of increased barrier and sacrificial protection when compared with conventional Hot Dip Galv (HDG) coatings and provides unrivalled corrosion protection, even at the cut edges.



Colorcoat HPS200 Ultra® with Galvalloy® roof after 7 years.



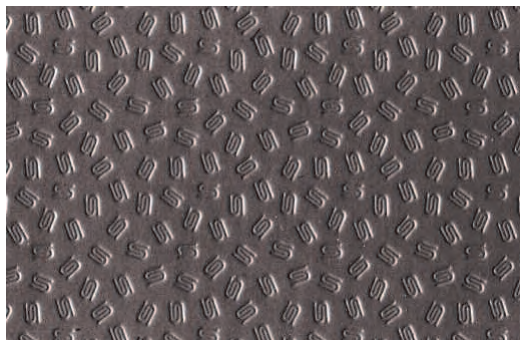
Leathergrain alternative on hot dip galvanised steel substrate roof after 7 years.

# Enduring quality

## Scintilla®

Unique to Colorcoat HPS200 Ultra® the Scintilla® emboss has been developed with a depth of only nominal 50 microns, which makes it less likely to trap dirt than deeper leathergrain embosses therefore making the pre-finished steel easier to clean whilst being more robust.

Unlike leathergrain patterns the emboss is subtle and does not detract from the overall appearance of the building, looking smooth and creating a modern building appearance from a distance. The Scintilla® emboss provides a unique guarantee of authenticity and an overall thicker protective top coat from Tata Steel.



## Fire performance

There is currently a period of co-existence of standards and either EN standards or BS 476 can be used to demonstrate compliance with Building Regulation requirements.

### External fire performance for roof covering products

Colorcoat HPS200 Ultra®, when used as part of a roof cladding system can be classified as  $B_{ROOF(t1)}$ ,  $B_{ROOF(t2)}$ ,  $B_{ROOF(t3)}$ , without further testing, in accordance with Commission Decision 2005/403/EC for all material greater than or equal to 0.4mm gauge and for all colours in the product range.

Colorcoat HPS200 Ultra® has a notional designation of AA (National classification) and  $B_{ROOF(t4)}$  within Approved Document B of the Building Regulations (England and Wales).

Colorcoat Connection® helpline +44 (0) 1244 892434

## Reaction to fire

Colorcoat HPS200 Ultra® has been tested to EN 13823 and EN 11925 and can be classified in accordance with EN 13501 as C-s2, d0. This classification is valid for material  $\geq 0.47\text{mm}$ .

## Made in the UK

Colorcoat HPS200 Ultra® is exclusively from Tata Steel, and is fully traceable with certification to BES 6001 for Responsible Sourcing. From steel manufacture to processing, Colorcoat HPS200 Ultra® uses some of the most advanced, and sustainable, technologies in the UK for high quality building products with a lower carbon footprint.



## Specification

To secure the peace of mind that comes from a rigorously manufactured and world wide tested product from Tata Steel, please ensure Colorcoat® as well as the individual product name is specified: Colorcoat HPS200 Ultra® by Tata Steel with Galvalloy® metallic coating.

## British Board of Agrément Certificate

The long-term performance of Colorcoat HPS200 Ultra® has been recognised within BBA certificate 91/2717 as "Colorcoat HPS200 Ultra® coating and metal treatment will protect the steel substrate against corrosion for a period in excess of 40 years in normal industrial, urban, suburban and rural environments."



# Peace of mind

## The Confidex® Guarantee

Confidex® is the product performance guarantee for Colorcoat HPS200 Ultra®, 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 available in Europe with Colorcoat HPS200 Ultra® being guaranteed for up to 40 years. Dramatic and unrivalled improvements in colour stability and gloss retention are translated into a durable product with great longevity.

The Confidex® Guarantee is project specific and upon registration provides a contractual relationship between Tata Steel and the building owner meaning that in the case of a claim the contact with Tata Steel is direct rather than having to go through the supply chain, saving time and money. What's more this is transferable should the building owner change by simply filling in the form on the back of the guarantee certificate.

### Who registers?

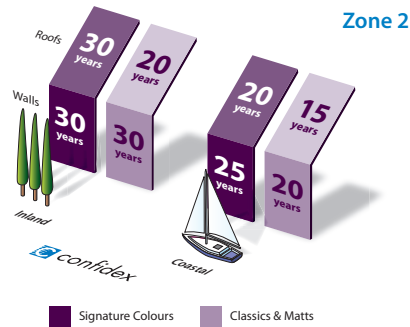
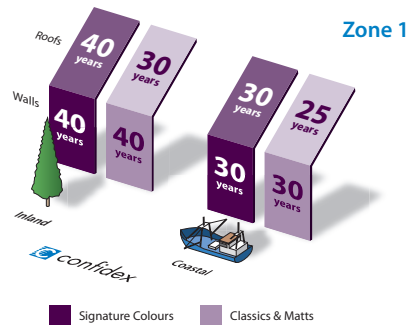
Usually the cladding contractor or the cladding system manufacturer, but anyone in the supply chain can apply online at: [www.colorcoat-online.com/registration](http://www.colorcoat-online.com/registration).

If you want to check if your building has been registered contact the Colorcoat Connection® helpline on +44 (0) 1244 892434.



■ Northern Europe – Zone 1      ■ Southern Europe – Zone 2  
■ For areas outside of Confidex® zones please contact Tata Steel for more information.

## Confidex® zones



### Notes

1. Figures under the Coastal heading are for buildings within 1km of any coast.
2. Full terms and conditions of the Confidex® Guarantee are on the online application form, available at [www.colorcoat-online.com/registration](http://www.colorcoat-online.com/registration)
3. Confidex® must be registered within 3 months of the building completion date for the guarantee to be valid.
4. The Confidex® Guarantee periods on the diagram above are applicable to Zone 1 and Zone 2. For more information visit [www.colorcoatonline.com/confidexmap](http://www.colorcoatonline.com/confidexmap)

## Other warranties

Whilst Confidex® has always been restricted to the weathering performance of the external cladding, we have recognised the growing emergence of demanding internal environment projects, such as energy from waste plants, and may offer a non-Confidex® warranty on a case by case basis for Colorcoat HPS200 Ultra® used internally.

Application specific warranties are also available for non-standard cladding applications; i.e residential roofs, flashings and sectional roller shutter doors.

Please contact the Colorcoat Connection® helpline for guarantees associated with such applications.

# Sustainability

## Sustainability

At Tata Steel we are committed to making the products society needs and to making them in the most responsible way. Our commitment to sustainability also means we actively manage our impacts and contribution throughout the full life of our products - with our suppliers, within our own operations, through the supply chains we serve and by taking responsibility for recycling steel. Colorcoat HPS200 Ultra® has achieved BES 6001 responsible sourcing certificate which reinforces our commitment to sustainability.

## Life Cycle Assessment

We constantly strive to ensure that the manufacturing processes and materials used to manufacture Colorcoat HPS200 Ultra® are the most sustainable available. Moreover, the enhanced robustness and durability of Colorcoat HPS200 Ultra® mean that it significantly outperforms other pre-finished steel in terms of environmental impacts over the full life cycle.

To demonstrate the environmental impacts, Tata Steel have published an Environmental Product Declaration (EPD) for each of the Colorcoat® assessed cladding systems, based on an initial Life Cycle Analysis. Please visit [www.colorcoat-online.com/sustain](http://www.colorcoat-online.com/sustain) for further details.

## System environmental assessment

In the UK all roof and wall systems using pre-finished steel achieve a Green Guide A+ rating. Manufacture and processing of Colorcoat HPS200 Ultra® into building envelope products, through our approved supply chain, can meet the responsible sourcing criteria for BREEAM. Our manufacturing site has an environmental management system which has been certified to ISO 14001.

## Recycling

Colorcoat HPS200 Ultra® is truly recyclable without any loss of quality, time after time. There is a well established and very efficient steel recycling infrastructure which ensures that all steel collected at end of life goes back into steel manufacture. Through this efficient recycling of steel, the environmental investment in steel-making is never wasted, making steel the most sustainable construction material.

Colorcoat Connection® helpline +44 (0) 1244 892434

## Photovoltaic

To demonstrate Tata Steel's commitment to the environment and renewable energy offerings, Colorcoat HPS200 Ultra® now provides the comprehensive Confidex® Guarantee for the pre-finished steel that is under the photovoltaic (PV) frame modules on a roof. This provides the building owner with the confidence that installing a PV array will not have a detrimental effect on the performance of the pre-finished steel, and that the product is guaranteed to perform for the same duration of up to 40 years.

If the building owner is considering retrofitting PV in the future, specifying Colorcoat HPS200 Ultra® ensures that your roof is PV ready, future proofing your building, and providing peace of mind that installation will not have a detrimental and costly impact on the pre-finished steel. The Confidex® Guarantee allows PV modules to be installed at any point throughout the Confidex® Guarantee Period, providing it has been registered, and ensures that the full roof will still be covered for the remainder of the Confidex® Guarantee duration.



# Colorcoat® services

The Colorcoat® brand is recognised as the exclusive mark of quality and metal envelope expertise and is supported by a comprehensive range of services, technical advice and guidance.

## Colorcoat® Business Development Team

The team are readily available to advise you on the design, specification and construction of your metal building envelope. Call the Colorcoat Connection® helpline or visit [www.colorcoat-online.com](http://www.colorcoat-online.com) to find out who the representative is for your area.

## Colorcoat Connection® helpline

This dedicated helpline offers immediate and easily accessible advice and guidance on a wide range of construction issues. Contact us on +44 (0)1244 892434.

## Colorcoat® Technical Papers

We have produced a number of technical papers that can help you address key issues in building design and construction.

## Colorcoat® Supply Chain Partners

Colorcoat® products are available through our market-leading supply chain partners, whose CE marked and SCI assessed systems we recommend for the very highest quality and service.

## Colorcoat® Accredited Distributors

Our Colorcoat® Accredited Distributors can provide you with any colour from the Colorcoat HPS200 Ultra® range in small quantities, with a 48 hour service guaranteed.

## BS & RAL reference table

|                   | Colour           | BS    | RAL       |
|-------------------|------------------|-------|-----------|
| Signature Colours | Alaska Grey      |       | 7000      |
|                   | Albatross        | 18B17 | 240 80 05 |
|                   | Anthracite       |       | 7016      |
|                   | Ardenne          |       | 7022      |
|                   | Black            | 00E53 | 9005      |
|                   | Goosewing Grey   | 10A05 | 7038      |
|                   | Hamlet           |       | 9002      |
|                   | Honesty          | 10C31 | 1015      |
|                   | Ice Blue         |       | 230 80 10 |
|                   | Marlstone        | 10B15 | 1013      |
|                   | Meadowland       | 12B17 | 100 80 20 |
|                   | Merlin Grey      | 18B25 | 180 40 05 |
|                   | Mole Brown       |       | 070 40 10 |
|                   | Moorland Green   | 12B21 | 100 60 20 |
|                   | Mushroom         | 10B19 | 080 70 10 |
|                   | Olive Green      | 12B27 | 100 30 20 |
|                   | Pure Grey        |       | 000 55 00 |
|                   | Straw            |       | 080 70 30 |
|                   | Svelte Grey      | 10B23 | 080 50 20 |
|                   | White            | 00E55 | 9003      |
| Classics          | Barn Red         |       | 030 30 40 |
|                   | Burano           |       | 3004      |
|                   | Chili            | 04E56 | 3000      |
|                   | Heritage Green   |       | 6002      |
|                   | Ivy              |       | 170 20 10 |
|                   | Jade             |       | 150 50 20 |
|                   | Juniper Green    | 12B29 | 140 20 20 |
|                   | Ocean Blue       | 18C39 | 220 30 25 |
|                   | Petra            | 04D44 | 3013      |
|                   | Raven            |       | 7021      |
|                   | Sargasso         |       | 5003      |
|                   | Solent Blue      | 18E53 | 240 40 40 |
|                   | Terracotta       | 04C39 | 040 40 40 |
|                   | Van Dyke Brown   | 08B29 | 8014      |
| Matts             | Wedgewood Blue   | 18C37 | 220 50 15 |
|                   | Alaska Grey Matt |       | 7000      |
|                   | Anthracite Matt  |       | 7016      |
|                   | Green Grey Matt  |       | 150 40 10 |
|                   | Oxidised Matt    |       | 050 20 10 |
|                   | Terracotta Matt  | 04C39 | 040 40 40 |

**RAL references**  
4 digit numbers are RAL Classic references.  
7 digit numbers are RAL Design references.  
British Standard or RAL reference numbers shown in the table, represent the nearest colours and are not exact matches to Colorcoat HPS200 Ultra®. These colours do not have equivalent BS/RAL references.

# Colorcoat HPS200 Ultra®

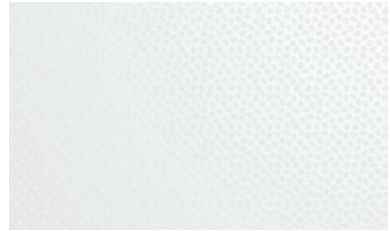
Colorcoat HPS200 Ultra® pre-finished steel provides exceptional performance and corrosion resistance for building envelope applications. Guaranteed for up to 40 years it is backed up with even more extreme testing and real world global data to demonstrate the best combination of excellent colour stability, gloss retention and outstanding durability.

To make the colour selection process easier the colour palette is grouped as follows: Signature, Classic and further extended Matt colours.

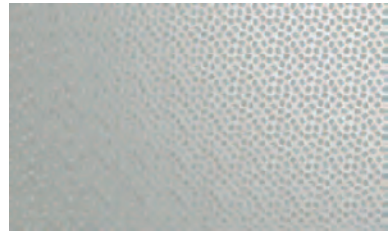
## Product features and benefits

- Optimised Galvalloy® metallic coating for exceptional corrosion resistance and cut edge protection.
- Surpasses requirements of Ruv4 and RC5 as per EN 10169:2010 proving excellent colour and gloss retention and corrosion resistance.
- Scintilla® embossed as a mark of authenticity from Tata Steel.
- Made in the UK for a lower carbon footprint and certified to BES 6001 Responsible Sourcing standard.
- Confidex® Guarantee for up to 40 years for the weatherside of industrial and commercial buildings with no inspection or maintenance to maintain its validity.
- Exceeds requirements of CPI5 as per EN 10169:2010 demonstrating excellent barrier properties when used internally.
- Can be used under Photovoltaic (PV) frame modules with no reduction in guarantee length ensuring all parts of the roof are covered for the same duration of the Confidex® Guarantee.
- Standard sizes are available on short production lead times.
- BBA certified for durability in excess of 40 years.
- Fully recyclable.

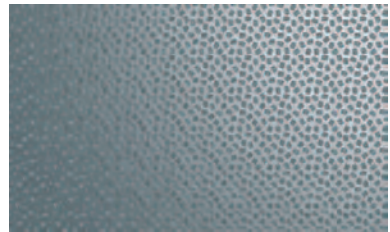
## Signature colours



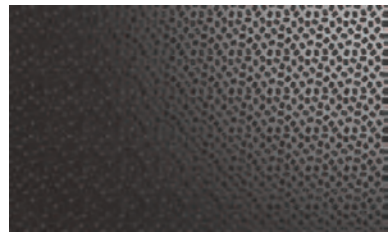
White (RAL 9003)



Goosewing Grey (RAL 7038)



Alaska Grey (RAL 7000)



Anthracite (RAL 7016)



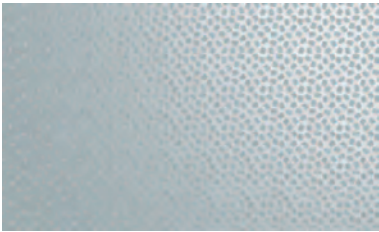
Black (RAL 9005)



Ice Blue (RAL 230 80 10)



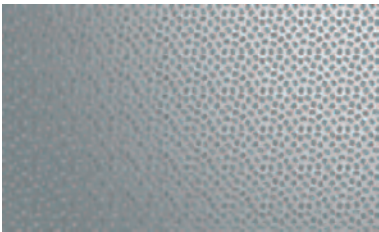
Marlstone (RAL 1013)



Albatross (RAL 240 80 05)



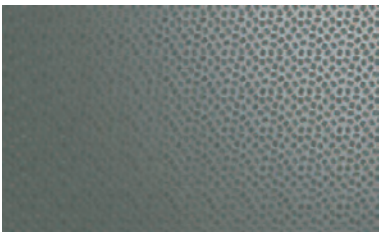
Honesty (RAL 1015)



Pure Grey (RAL 000 55 00)



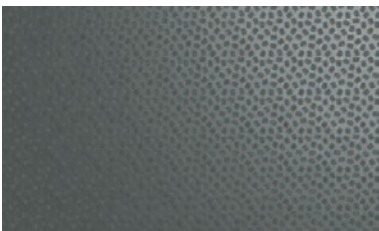
Mushroom (RAL 080 70 10)



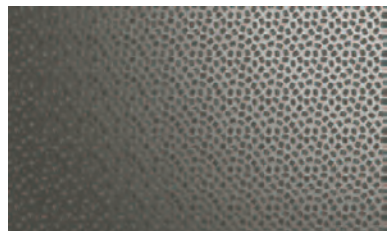
Merlin Grey (RAL 180 40 05)



Straw (RAL 080 70 30)



Ardenne (RAL 7022)

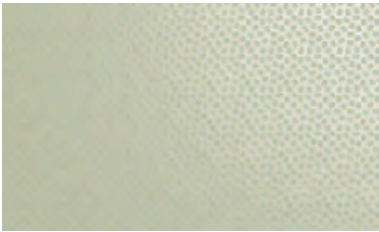


Mole Brown (RAL 070 40 10)

## Classics



Hamlet (RAL 9002)



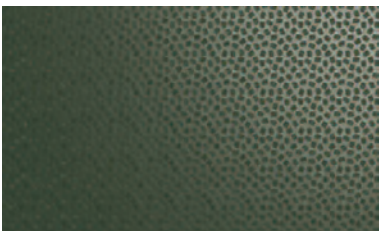
Meadowland (RAL 100 80 20)



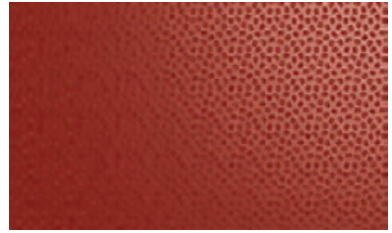
Moorland Green (RAL 100 60 20)



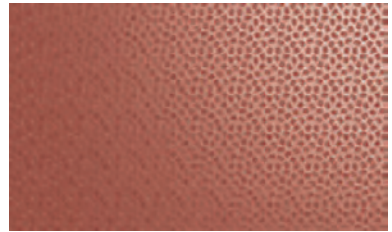
Svelte Grey (RAL 080 50 20)



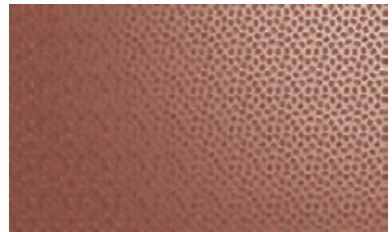
Olive Green (RAL 100 30 20)



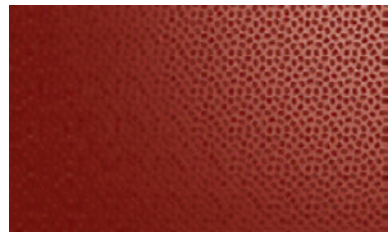
Chili (RAL 3000)



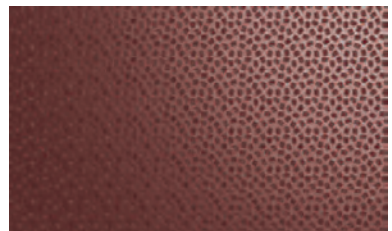
Petra (RAL 3013)



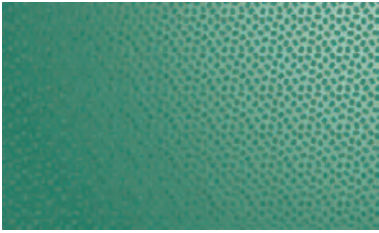
Terracotta (RAL 040 40 40)



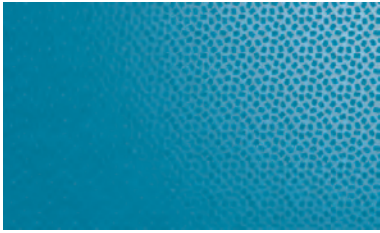
Barn Red (RAL 030 30 40)



Burano (RAL 3004)



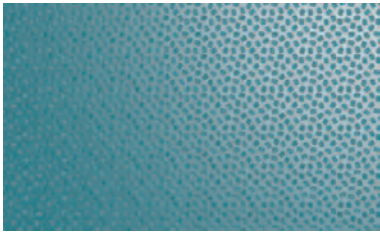
Jade (RAL 150 50 20)



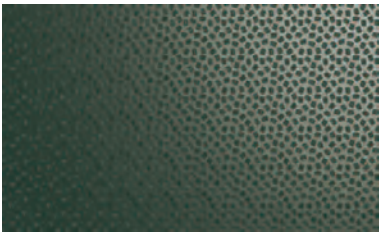
Solent Blue (RAL 240 40 40)



Heritage Green (RAL 6002)



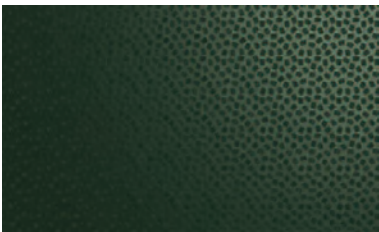
Wedgewood Blue (RAL 220 50 15)



Juniper Green (RAL 140 20 20)



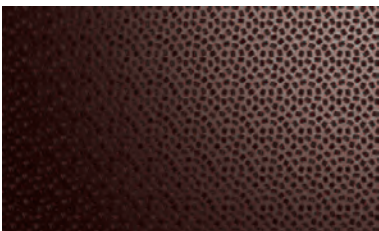
Ocean Blue (RAL 220 30 25)



Ivy (RAL 170 20 10)



Sargasso (RAL 5003)

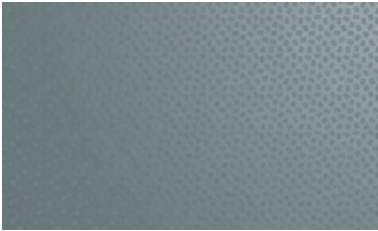


Van Dyke Brown (RAL 8014)



Raven (RAL 7021)

## Matts



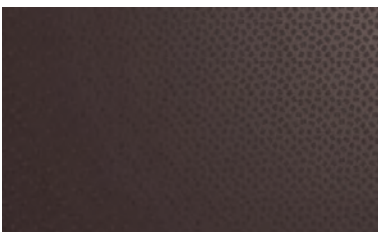
Alaska Grey (RAL 7000)



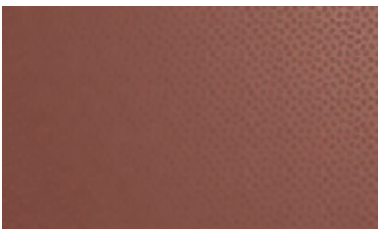
Anthracite (RAL 7016)



Green Grey (RAL 150 40 10)



Oxidised (RAL 050 20 10)



Terracotta (RAL 040 40 40)

## Colour reassurance

### Colour availability

All the colours on the colour card are now available on short production lead times, and from our Colorcoat® Accredited Distributors in standard sizes. To check the quickest colour availability for your project contact the Colorcoat Connection® helpline on +44 (0) 1244 892434.

### Repertoire®

As an additional service, whether you want your building to stand out, or blend with the surroundings, we can create a unique identity for your building. Through our Repertoire® Colour Consultancy service we can match almost any solid colour for walls or roofs of your building, with a minimum order quantity of 2500m<sup>2</sup>, we can work from either physical swatches or reference standards.

### Metal hand samples



Metal hand samples are available for all colours. For a truer representation of colour and effect, please obtain metal hand samples from the Colorcoat Connection® helpline or online at [www.colorcoat-online.com/samples](http://www.colorcoat-online.com/samples)

### Colour consistency

If tonal consistency is critical, all cladding for a single elevation should come from the same production batch.

### Matching components

If accessories made from other materials are to be colour-matched to the roof or wall cladding, the best reference is the actual profiles or panels delivered to site, or material from the same batch.

[www.colorcoat-online.com](http://www.colorcoat-online.com)

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#### **Sales Contact Details**

##### **Tata Steel**

Shotton Works, Deeside  
Flintshire CH5 2NH  
United Kingdom  
T: +44 (0) 1244 812345

##### **Colorcoat Connection® helpline**

T: +44 (0) 1244 892434  
F: +44 (0) 1244 892321  
E: [colorcoat.connection@tatasteel.com](mailto:colorcoat.connection@tatasteel.com)

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