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November 2011

TATA STEEL

TATA

Stratascreen® System

Individually engineered facade systems

A global brand

Tata Steel, formerly known as Corus, is one of Europe's largest steel producers. We serve many different and demanding markets worldwide, including aerospace, automotive, construction, energy and power, and packaging. Our primary steelmaking operations in the UK and the Netherlands are supported by a global sales and distribution network.

Innovation and continuous improvement are at the heart of our performance culture. We aim to create value by offering a sustainable and value-added steel product range supported by unrivalled customer service. By working in partnership with you, we find the best solutions to meet your needs and help your business to perform.

Our European operations are a subsidiary of Tata Steel Group, one of the world's top ten steel producers. With a combined presence in nearly 50 countries, the Tata Steel Group including the Europe operations, Tata Steel Thailand and NatSteel Asia, has approximately 80,000 employees across five continents and an aggregate crude steel production capacity of over 28 million tonnes.

Tata Group

Tata Steel is part of the Tata Group, a diversified global company with operations in every major world market. The Tata Group of Companies has business operations in seven defined sectors – Materials, Engineering, Information Technology and Communications, Energy, Services, Consumer Products and Chemicals.

In the past ten years the Group has expanded internationally and now owns major brands such as Tetley, Jaguar and Land Rover.
Tata Steel, with its acquisition of Corus in 2007, has secured a place among the top ten steel manufacturers in the world and it is the Tata Group's flagship Company.

Sustainability

Steel is an essential material, intrinsic to our way of life and to the products society will demand in a sustainable future. Steel is a material that is used, not consumed. It is recycled and used again, without any loss of quality, time after time. At Tata Steel, we are committed to making the products society needs and to making them in the most responsible way possible.

This means, practically, that we commit to:

- Producing steel products for the future
- Investing in sustainable steel-making
- Improving our existing processes
- Facilitating the recycling loop

Our steel enables our customers to make safer cars, more energy-efficient buildings and infrastructure, easily-recoverable and recyclable packaging and many other products which help to move society towards our vision of a sustainable future.

Building Envelope Sector

Tata Steel has extensive panel and profiling manufacturing capabilities. We are the only company able to offer a comprehensive range of insulated panels, built-up systems, facades, structural roof and floor decking profiles from one single UK source, with the support and backing of a truly global company and complete supply chain.

With such a diverse product portfolio and over 40 years experience, we are uniquely able to offer the specifier an unbiased solution to meet the design criteria for any project.

Offering unrivalled technical support, practical guidance, performance and quality you would expect from one of the industry's most trusted brands enables our customers to exceed their clients' requirements over the long term.

Dakota Hotel, Glasgow

Architect: Rio Architects

Main contractor: Dawn Construction

Cladding system: Stratascreen® System

Colorcoat® product: Colorcoat Prisma® for rainscreens in Kronos and Silver Metallic

Platinum® System Guarantee

The Platinum® System Guarantee offered by Tata Steel provides peace of mind to clients for up to 25 years. The guarantee is free of charge and covers material performance and workmanship.

The guarantee covers all of the components used in the construction of the building envelope solutions provided by Tata Steel making it the most comprehensive system guarantee offered on the market.

Tata Steel are in a position to provide this reassurance due to our innovative supply chain partnerships with the third party component suppliers. All components including fixings, roof lights, fall arrest, gutters and walkways used in the system are covered under the guarantee.

The approved Platinum® suppliers are selected on the basis of their ability to meet the stringent technical criteria and performance set for each component and provide a component guarantee of up to 25 years.

Specifiers and contractors benefit from the guarantee with the freedom to choose from the list of approved suppliers.

As part of the Platinum® System Guarantee, approved Platinum® contractors undertake the installation of the projects. The workmanship of the Platinum® approved contractors is continually checked to ensure the systems are installed accurately and expertly without compromising performance. The workmanship of the installation is guaranteed for up to 12 years.

Tata Steel act as a one point of contact from the beginning of the project right through to the end of the duration of the guarantee period. The Platinum® System Guarantee provides the client with a direct link to Tata Steel in the unlikely event of a building failure.

In addition to the Platinum® System Guarantee, a bespoke application specific guarantee for the pre-finished steel is available, providing cover for your Colorcoat Prisma® rainscreen for up to 25 years with full backing from Tata Steel.

PLATINUM
SYSTEM GUARANTEE

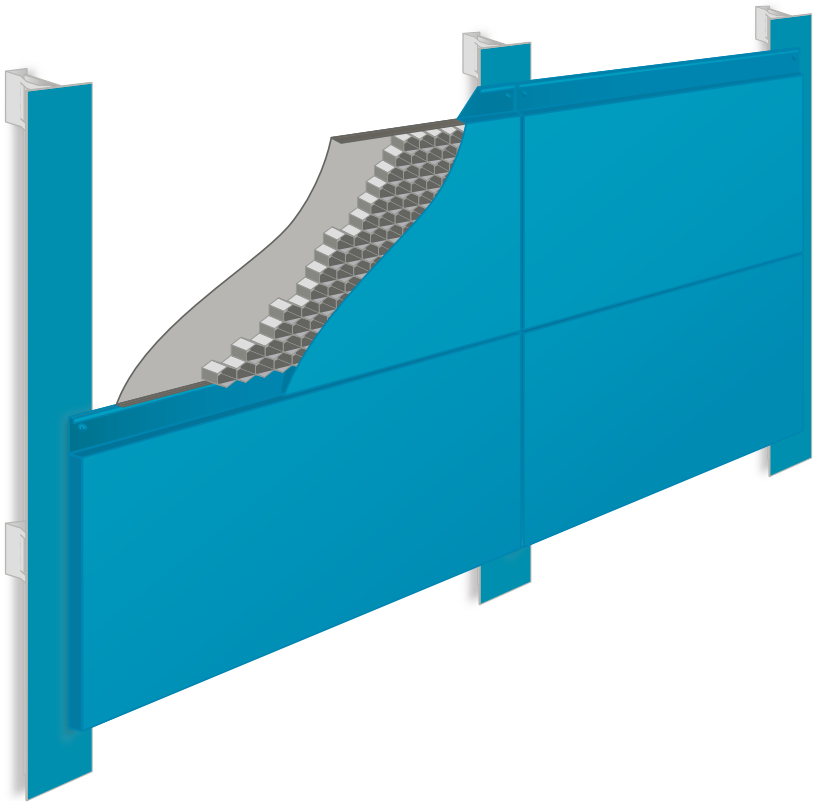
Stratascreen® System overview

The Stratascreen® System is an engineered facade system produced with a robust and highly accurate honeycomb core, which provides exceptionally flat modular rainscreen panels with recessed edges offering a choice of architectural wall solutions. The Stratascreen® System is manufactured in bespoke panel sizes and is available in a choice of pre-finished and natural metal finishes.

The Stratascreen® System offers flexible integration with windows, curtain walling and louvres. The system is equally suited to both new build and refurbishment.

Stratascreen® System facade panels form the decorative rainscreen element of a multi layered wall system for use in conjunction with a weather and air tight backing wall. A ventilated cavity between the facade and the backing wall is designed to drain any water penetration. The panel module size and joint gap can be varied to the project requirements and this, together with the availability of a large number of high performance external finishes and colours, provides architectural flexibility to enable inspiring envelope designs to become a reality.

The Stratascreen® System is available with the Platinum® System Guarantee, which provides peace of mind to clients for up to 25 years. The guarantee is free of charge and covers material performance and workmanship.



Scottish Power

Architect: Cooper Cromar Architects

Main contractor: Morrison Construction

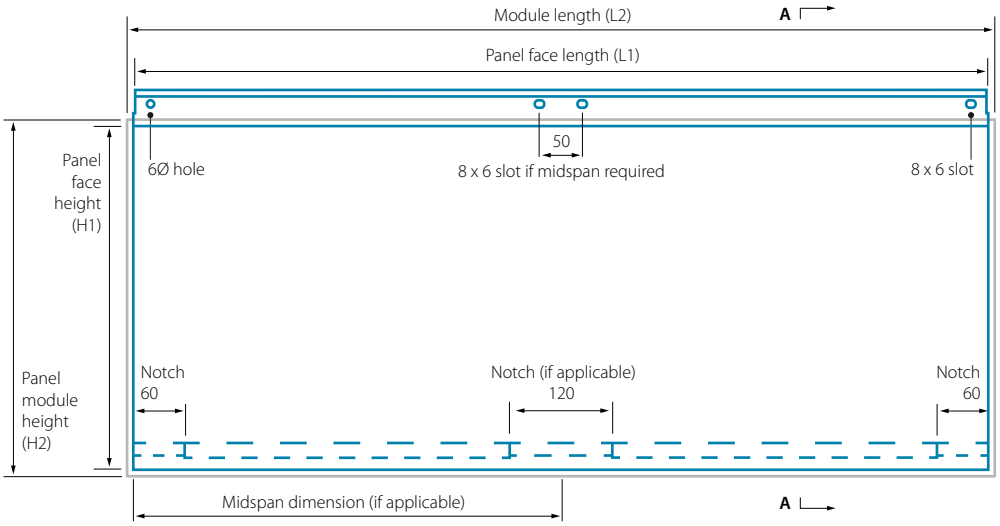
Cladding system: Stratascreen® System

Key features/benefits: Stratascreen® System

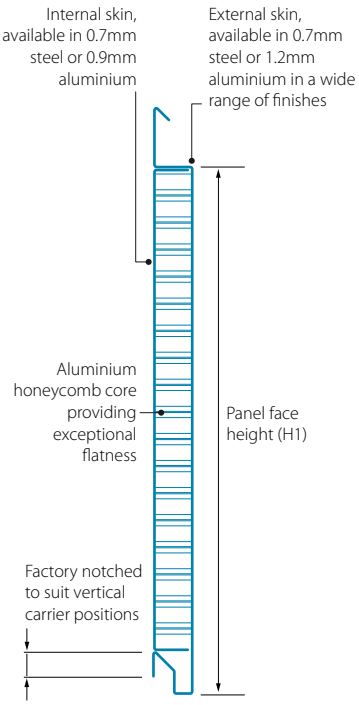
The aluminium honeycomb core provides a robust and architectural flat rainscreen system which is capable of large spans
Bespoke panel sizes
Manufactured in choice of mill finish and pre-finished metals available in a wide range of colours
Lightweight and easy to install
Complete building envelope solutions using the Trisomet® 333 System as a backing wall provide a thin, highly efficient and economical solution, that allows the building envelope to be made water tight quickly
Designed in accordance with CWCT standards for water tightness and wind resistance
Suitable for new build and refurbishment projects
Platinum® System Guarantee offers a free 25 years material performance cover and up to 12 years workmanship guarantee
Platinum® approved adjustable carrier systems are available to easily combat any inconsistencies in the line and level of the substrate to which the StrataScreen® System is being attached
The designer has the peace of mind that all span load information has been assessed independently by the Steel Construction Institute and has been given the SCI Assessed approval mark

System performance data

Stratascreen® System



ELEVATION – FRONT OF PANEL



SECTION A-A

General panel information

Thickness, t (mm):	30
Length L2* (mm):	
Maximum	3,955
Minimum	250
Module height H2* (mm):	
Maximum	1,095
Minimum	200
Weight** (Kg/m2) based on 1,000mm module height:	
Steel Skins	12.61
Aluminium Skins	6.9

* The maximum and minimum sizes are based on 15mm joints and a standard 1,230mm coil girth.

** m^2 weight will increase if specifying a smaller module height.

General reference
All measurements throughout this brochure are referenced in mm unless stated otherwise.
Technical illustrations are not to scale.

Tata Steel can help the designer achieve various design features to provide design flexibility and exceptional aesthetics for the finished building. The features within the Stratascreen® System range include:

- Curved panels
- Corner panels
- Raked panels
- Soffit panels
- Louvre panels
- Bullnose and feature details
- Column casings
- Fascias and roof perimeter details

If the requirements of your building design is outside the scope of the information above please contact the Technical Department for further information.

Span/load tables

The Steel Construction Institute (SCI) has structurally tested the Stratascreen® System and calculated span load tables in accordance with European standards and recommendations. The load span data below is based on a Stratascreen® System with a honeycomb core and 0.7mm steel external and liner skins, fixed back to 2.0mm aluminium carrier rails (used for fastener capacity) and a deflection limit of L/150.

Safe imposed (positive) loads (kN/m²)

Span condition	Module Height H1 (mm)	Span (m)									
		0.80	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60
Single	500	17.46	13.97	10.81	7.25	5.07	3.67	2.74	2.09	1.63	1.30
	1000	9.66	7.73	6.44	5.52	4.59	3.34	2.50	1.91	1.50	1.19
Double	500	6.88	5.46	4.51	3.82	3.30	2.90	2.57	2.30	2.07	1.88
	1000	3.84	3.06	2.54	2.16	1.88	1.66	1.48	1.34	1.21	1.11
Multi	500	7.84	6.23	5.15	4.37	3.79	3.33	2.96	2.65	2.40	2.18
	1000	4.37	3.48	2.89	2.47	2.15	1.90	1.70	1.53	1.39	1.27

Safe wind (negative) loads (kN/m²) – one fastener per support

Span condition	Module Height H1 (mm)	Span (m)									
		0.80	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60
Single	500	6.05	4.84	4.03	3.46	3.03	2.69	2.42	2.09	1.63	1.30
	1000	3.03	2.42	2.02	1.73	1.51	1.34	1.21	1.10	1.01	0.93
Double	500	2.42	1.94	1.61	1.38	1.21	1.08	0.97	0.88	0.81	0.74
	1000	1.21	0.97	0.81	0.69	0.61	0.54	0.48	0.44	0.40	0.37
Multi	500	2.75	2.20	1.83	1.57	1.37	1.22	1.10	1.00	0.92	0.85
	1000	1.37	1.10	0.92	0.79	0.69	0.61	0.55	0.50	0.46	0.42

Safe wind (negative) loads (kN/m²) – two fastener per support

Span condition	Module Height H1 (mm)	Span (m)									
		0.80	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60
Single	500	12.10	9.68	8.07	6.91	5.07	3.67	2.74	2.09	1.63	1.30
	1000	6.05	4.84	4.03	3.46	3.03	2.69	2.42	2.09	1.63	1.30
Double	500	4.84	3.87	3.23	2.77	2.42	2.15	1.94	1.76	1.61	1.49
	1000	2.42	1.94	1.61	1.38	1.21	1.08	0.97	0.88	0.81	0.74
Multi	500	4.37	3.48	2.89	2.47	2.15	1.90	1.70	1.53	1.39	1.27
	1000	2.75	2.20	1.83	1.57	1.37	1.22	1.10	1.00	0.92	0.85

For Information on alternative Stratascreen® System panel materials, module heights, carrier rails and fastener layouts please contact the Technical Department on 0845 30 88 330.

The load span data above is for the Stratascreen® System panel only; this information should be read in conjunction with the load capacity of the chosen Stratascreen® System carrier system specification.

Total wall facade solution

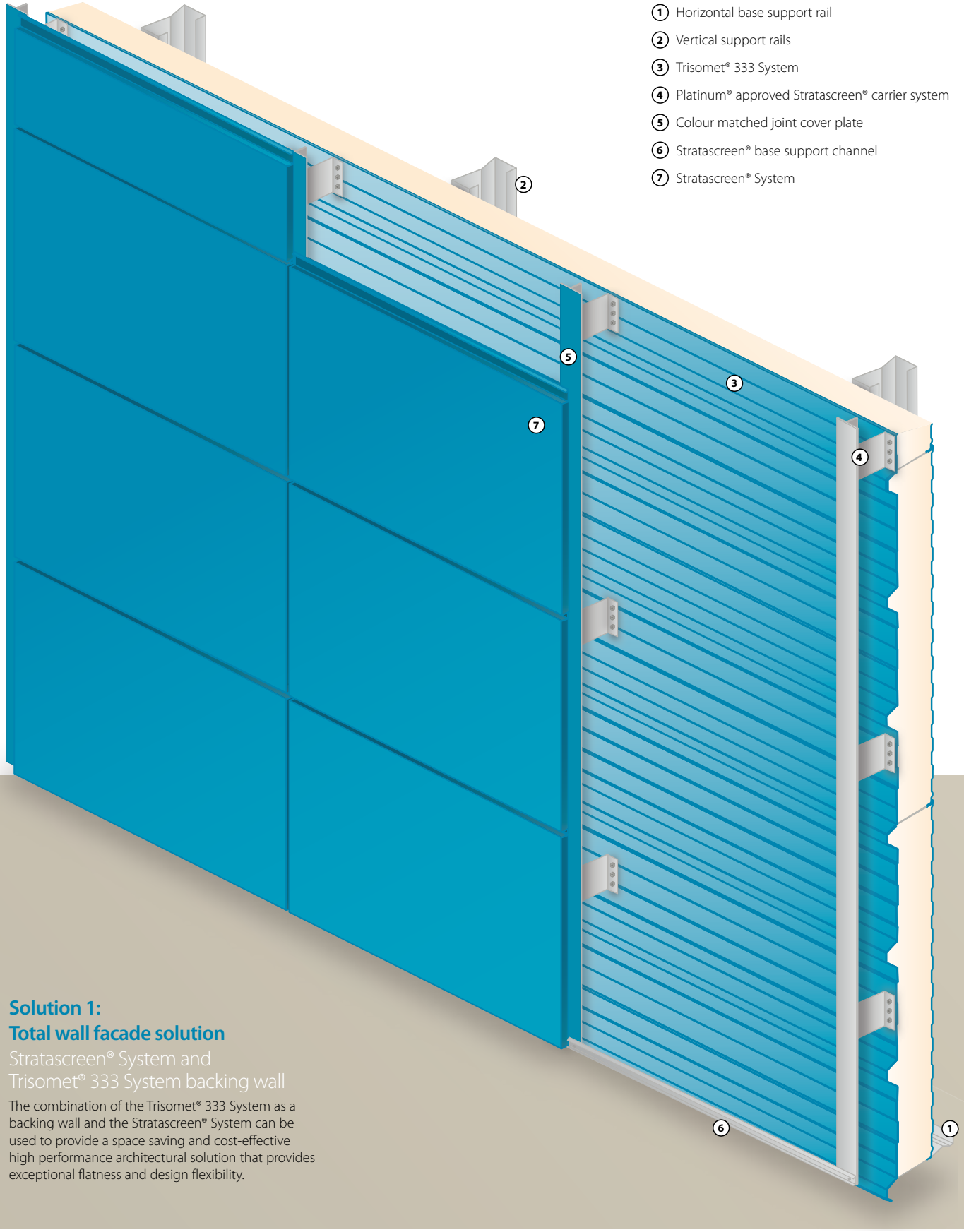
Stratascreen® System with Trisomet® 333 System backing wall

Stratascreen® System with Trisomet® 333 System backing wall provides an easy to install and cost-effective complete envelope facade solution. Trisomet® 333 System backing wall fixed directly to secondary steelwork meets thermal and air tightness requirements for the building and at the same time provides support for the Stratascreen® System facade panels.

Key features/benefits

Exceptionally flat modular rainscreen system
Cost-effective new build solution
Thin construction with no cold bridge penetrations
Quick installation, allows earlier start to internal works
No separate vapour control membrane
No separate breather membrane
No separate insulation material
Adjustable carrier rails compensates for steelwork tolerance
The backing wall provides integral insulation down to 0.16 W/m^{2}K
The backing wall easily meets the air tightness requirements of Part L of the building regulations
Complete weather tight façade wall solution

The EcoCampus at Hamilton International Park during construction



1. Horizontal base support rail
2. Vertical support rails
3. Trisomet® 333 System
4. Platinum® approved Stratascreen® carrier system
5. Colour matched joint cover plate
6. Stratascreen® base support channel
7. Stratascreen® System

Solution 1:
Total wall facade solution

Stratascreen® System and Trisomet® 333 System backing wall

The combination of the Trisomet® 333 System as a backing wall and the Stratascreen® System can be used to provide a space saving and cost-effective high performance architectural solution that provides exceptional flatness and design flexibility.

Masonry/block work wall solution

Stratascreen® System

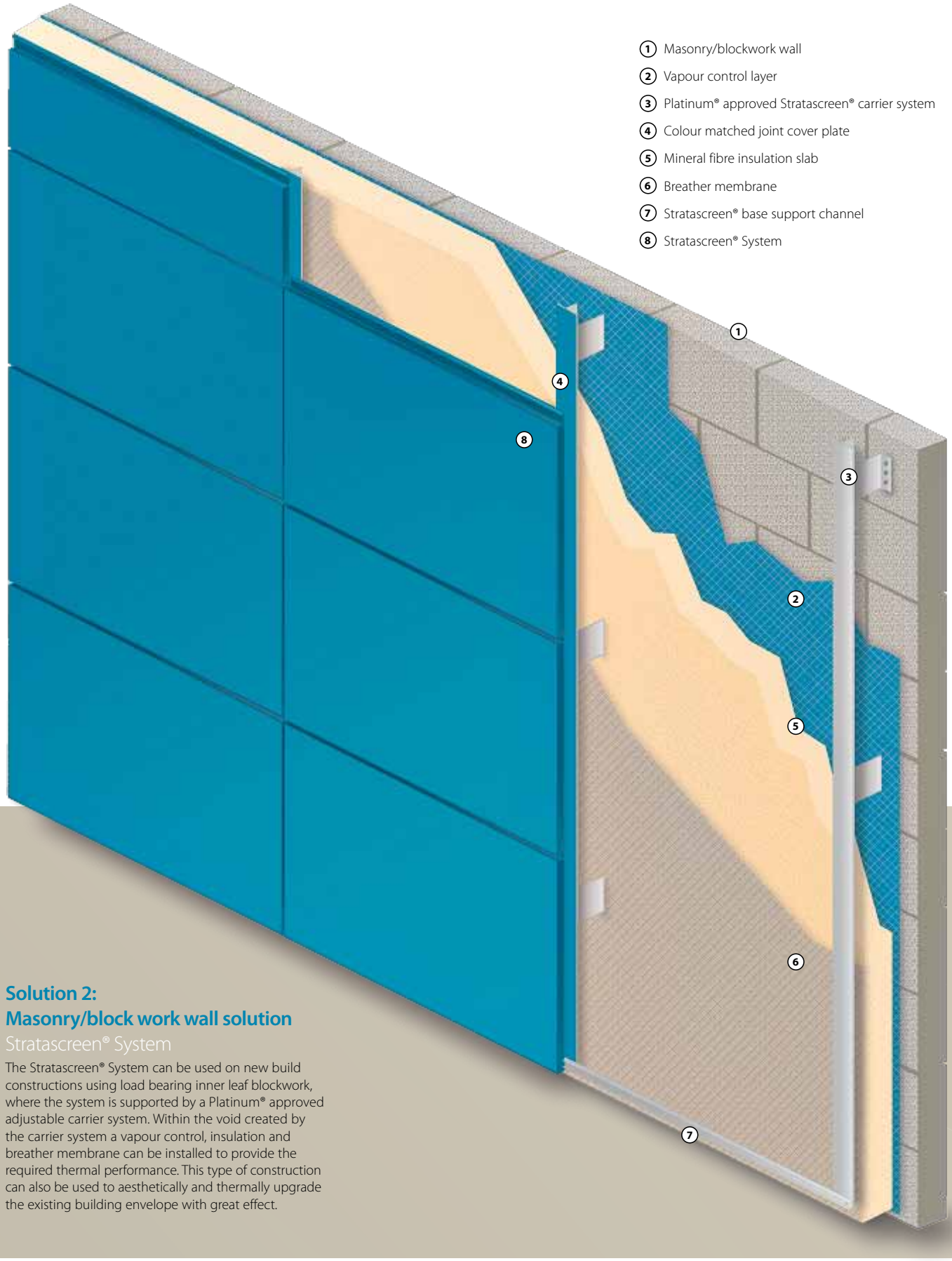
The Stratascreen® System can be fixed to masonry/block work using the adjustable Platinum® approved Stratascreen® carrier system and in combination with a vapour control layer, mineral fibre slab insulation and breather membrane to provide the required thermal performance to a new build or refurbishment upgrade.

Key features/benefits

- Exceptionally flat modular rainscreen system
- Cost-effective rainscreen solution
- Equally suited to new build and refurbishment projects
- Adjustable carrier system compensates for block work/masonry tolerance
- Existing buildings can be upgraded both aesthetically and thermally

Potters Bar before

Potters Bar after refurbishment



Solution 2:
Masonry/block work wall solution

Stratascreen® System

The Stratascreen® System can be used on new build constructions using load bearing inner leaf blockwork, where the system is supported by a Platinum® approved adjustable carrier system. Within the void created by the carrier system a vapour control, insulation and breather membrane can be installed to provide the required thermal performance. This type of construction can also be used to aesthetically and thermally upgrade the existing building envelope with great effect.

Colorcoat® products and services

Colorcoat® pre-finished steel products are supplied through Tata Steel, the market leading systems manufacturer of both, built-up and insulated panel systems, who provide the very highest quality and service.

Colorcoat® products and services

The Colorcoat® brand provides the recognised mark of quality and metal envelope expertise exclusively from Tata Steel (formerly Corus). 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. Tata Steel supply pre-finished steel to normal and special tolerances according to EN 10143:2006 to ensure that the cladding performs as designed.

Our Colorcoat® products are supported by a range of services such as comprehensive guarantees, colour consultancy and technical support and guidance.

To ensure the long-term performance and appearance of your rainscreen, it is important that the pre-finished steel product is specified alongside the cladding system. To secure the peace of mind that comes from a rigorously manufactured and tested product from Tata Steel, ensure Colorcoat Prisma® for rainscreens with Stratascreen® is specified.

Colorcoat Prisma® for rainscreens

Designed to withstand the rigours of the external environment, versatile and strong, Colorcoat Prisma® pre-finished steel is the ideal choice for rainscreen cladding to provide contemporary, long lasting colour. Colorcoat Prisma® for rainscreens provides the sophisticated look of a traditional rainscreen but without the expense. For more information visit www.colorcoat-online.com/rainscreen

Key benefits include:

- Bespoke guarantee providing cover for up to 25 years, and fully backed by Tata Steel.
- 5 popular colours as standard including metallic and matt shades. Other colours available dependent on a minimum order quantity of 2,000m^2
- 1.2mm Colorcoat Prisma® meets the requirements of RC5 according to EN 10169: 2010, the highest corrosion rating possible.
- Excellent levels of flatness for facade panels.
- Backing of a tried and trusted brand, created and developed by Tata Steel.

Guarantee

A bespoke application specific guarantee is available through your rainscreen manufacturer on application. This provides cover for your Colorcoat Prisma® rainscreen with full backing of Tata Steel.

Colorcoat® Technical Papers

Tata Steel have published a wide range of technical papers to independently guide and advise you on key issues in building design and construction commonly considered for roof and wall cladding systems using Colorcoat® products. From acoustics and air tightness to low carbon design, gauge tolerance and fire performance, there is a technical paper that will help you find a solution. Visit www.colorcoat-online.com/technical to download the papers.

For more information about Colorcoat® products and services visit www.colorcoat-online.com or call the Colorcoat Connection® helpline on +44 (0)1244 892434.

Mint Hotel, Finnieston Quay, Glasgow

Cladding system: Stratascreen® System and Trisomet® 333 System

Colorcoat® product: Colorcoat Prisma® in Silver Metallic

Aluminium

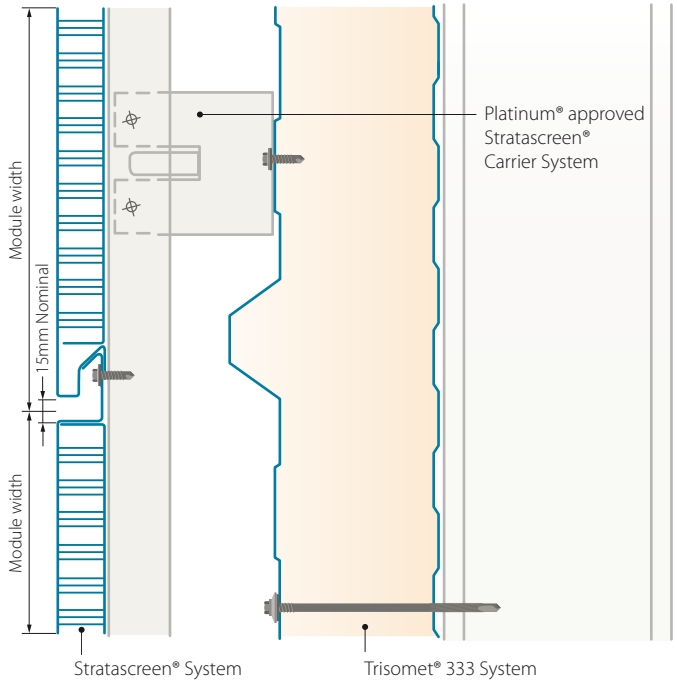
Aluminium Stratascreen® System is manufactured with a 1.2mm thick external skin, 28mm honeycomb core and 0.9mm liner.

The aluminium external skin is available in a choice of BBA certificated pre-finished and polyester powder coatings. These coatings offer a wide range of BS/RAL colours and a choice of gloss levels. The specifier is able to select any colour with few restrictions on order quantities.

Construction details

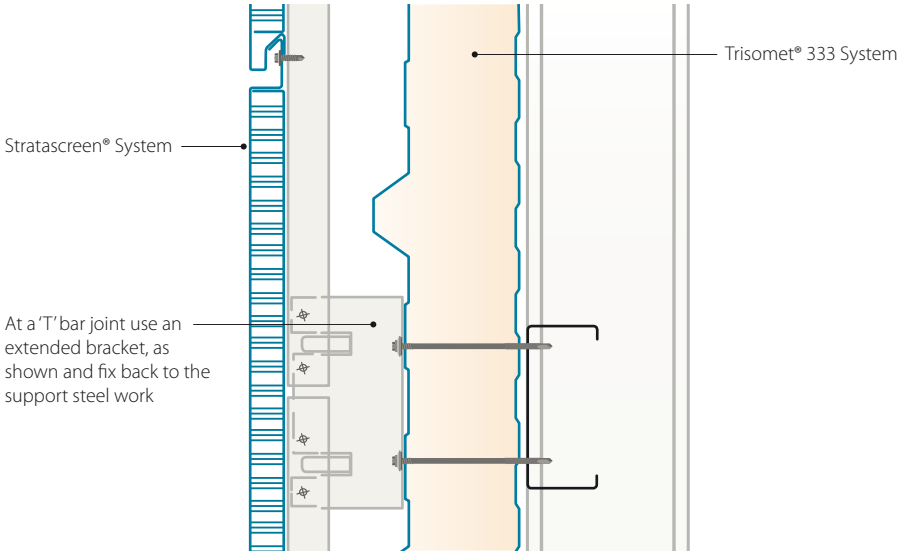
The construction details within this section focus on the Stratascreen® System and Trisomet 333® System backing wall. These are recommendations and have been designed to give practical solutions to minimise thermal bridging and air loss at junctions. For each junction detail, Ψ values (psi) and f values have been calculated in accordance with BS EN ISO 10211 and also to recommendations within MCRMA technical paper 18.

Horizontal joint



The horizontally laid Trisomet® 333 System backing wall system will need to be supported by vertical steel work, at spans of up to 2.5m (dependent on wind loads). The Platinum® approved Stratascreen® carrier system can be secured into the face of the Trisomet® 333 System panel.

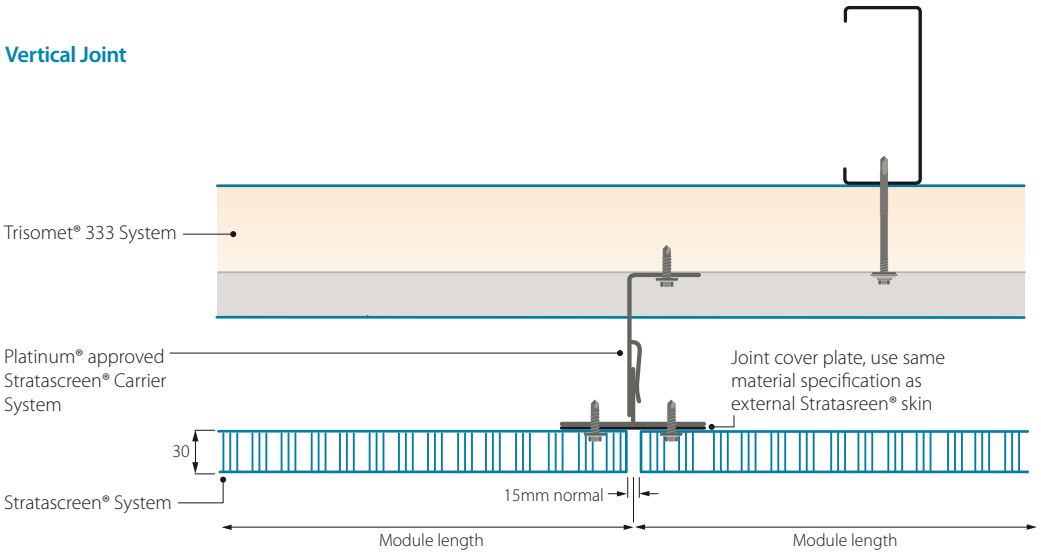
Carrier System 'T' bar joint



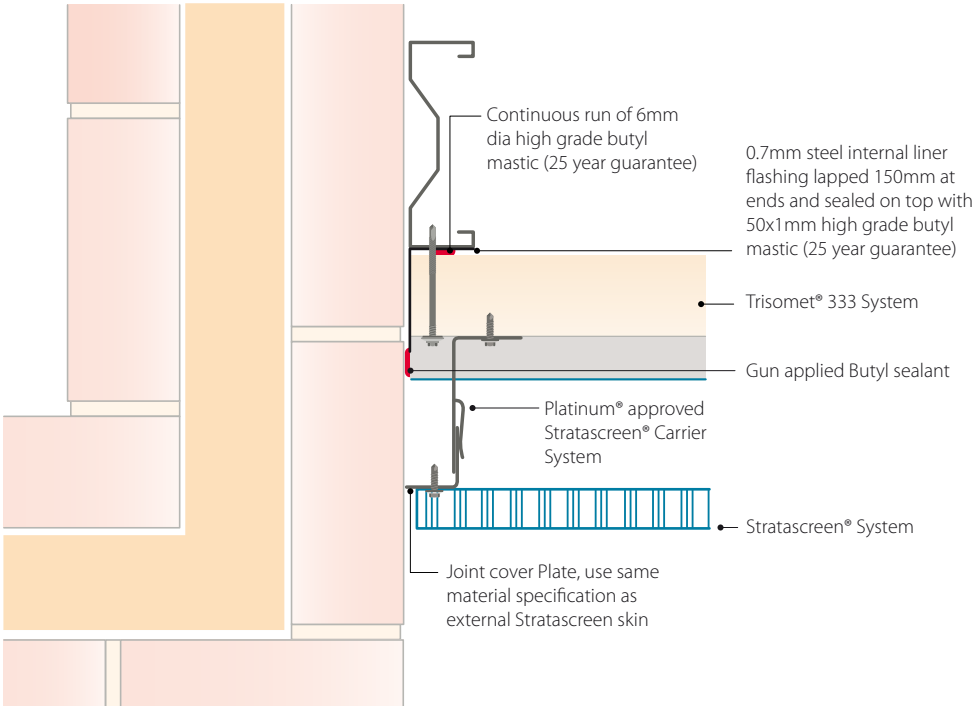
The Platinum® approved Stratascreen® carrier system can be intermediately fixed into the external skin of the Trisomet® 333 System panel, as shown above, however will need to be positively connected to the supporting steel work at a minimum of 4m centres as shown on the detail opposite.

The Technical Department are on hand to provide advice on project specific detailing and layouts for both new build and refurbishment projects.

Vertical Joint



Brick abutment detail

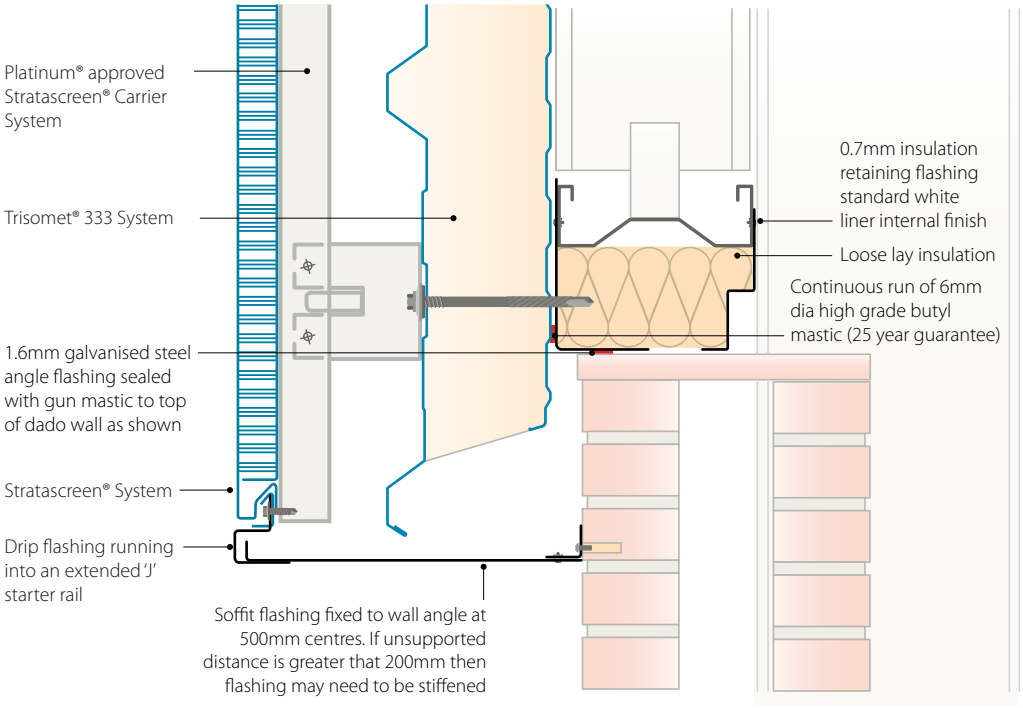


Psi value (W/mK)	f factor
0.2605	0.837

Stated calculation results are dependent on components being as shown. Computer modelled in accordance with EN ISO 10211.

Construction details

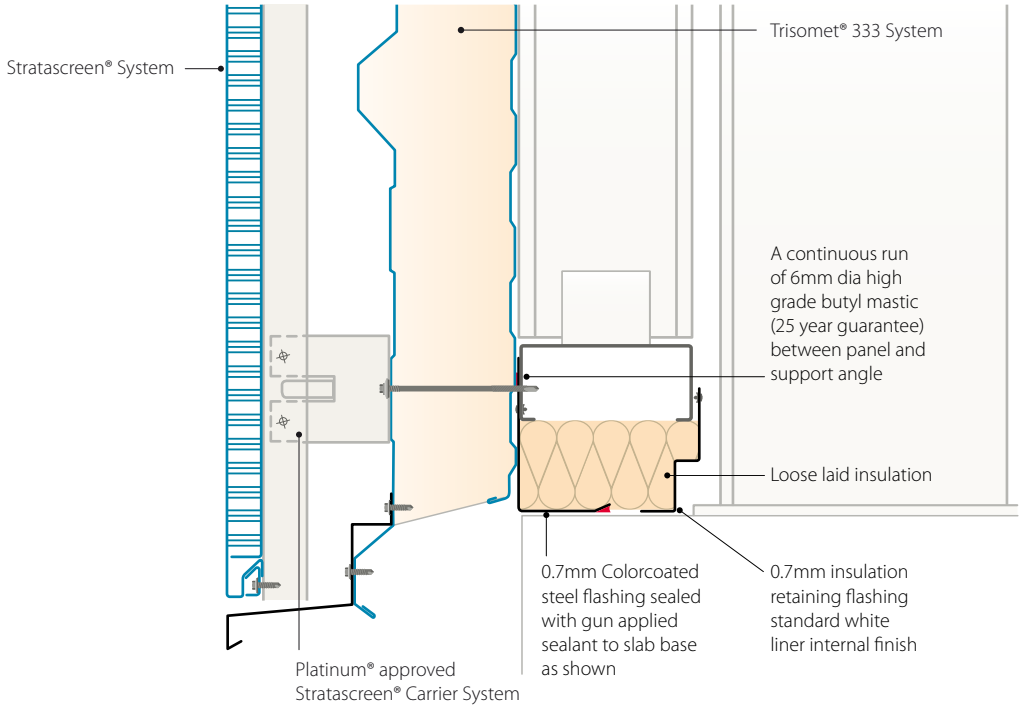
Dado wall detail



Psi value (W/mK)	f factor
0.484	0.702

Stated calculation results are dependent on components being as shown. Computer modelled in accordance with EN ISO 10211.

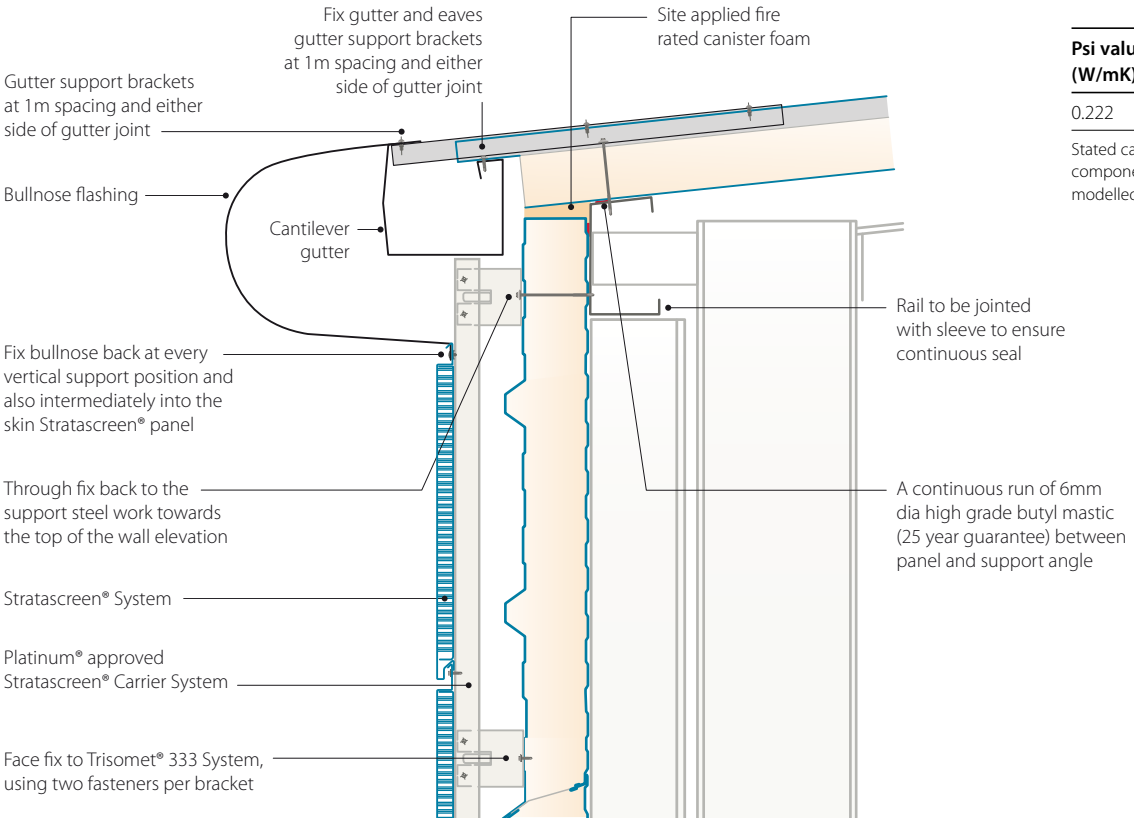
Base detail



Psi value (W/mK)	f factor
0.275	0.687

Stated calculation results are dependent on components being as shown. Computer modelled in accordance with EN ISO 10211.

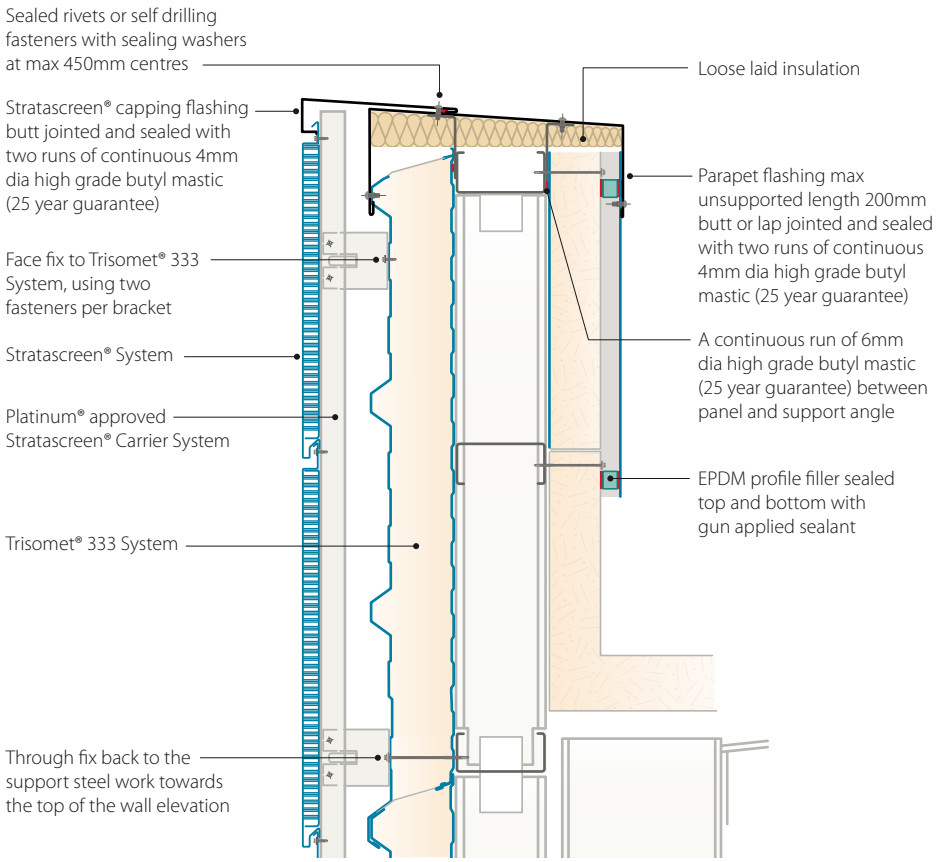
Bullnose eaves detail



Psi value (W/mK)	f factor
0.222	0.903

Stated calculation results are dependent on components being as shown. Computer modelled in accordance with EN ISO 10211.

Parapet

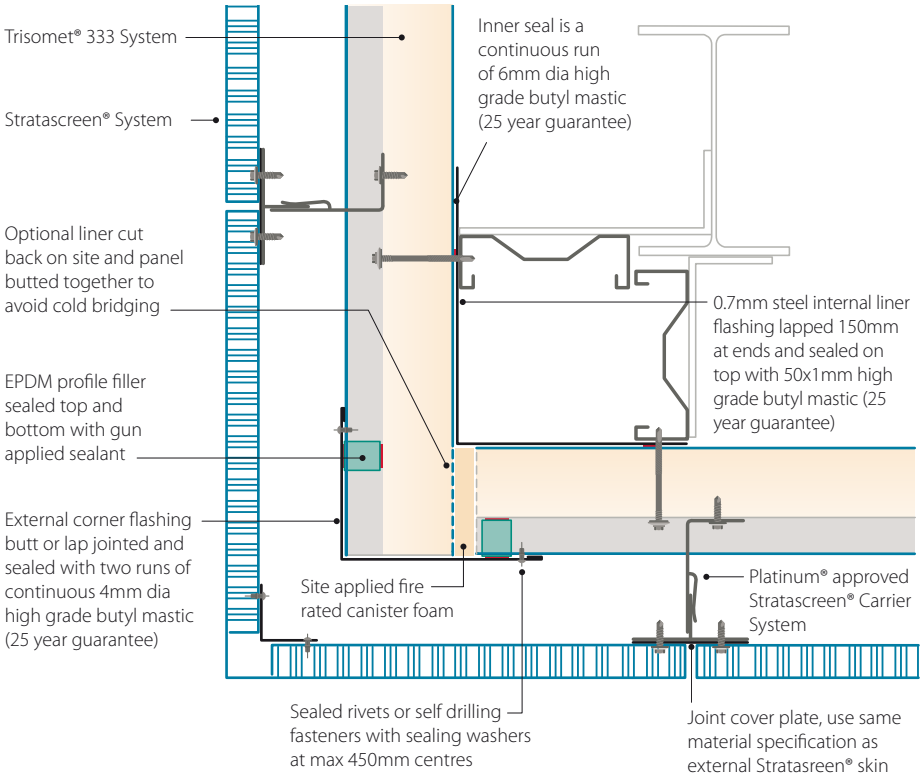


Psi value (W/mK)	f factor
0.275	0.687

Stated calculation results are dependent on components being as shown. Computer modelled in accordance with EN ISO 10211.

Construction details

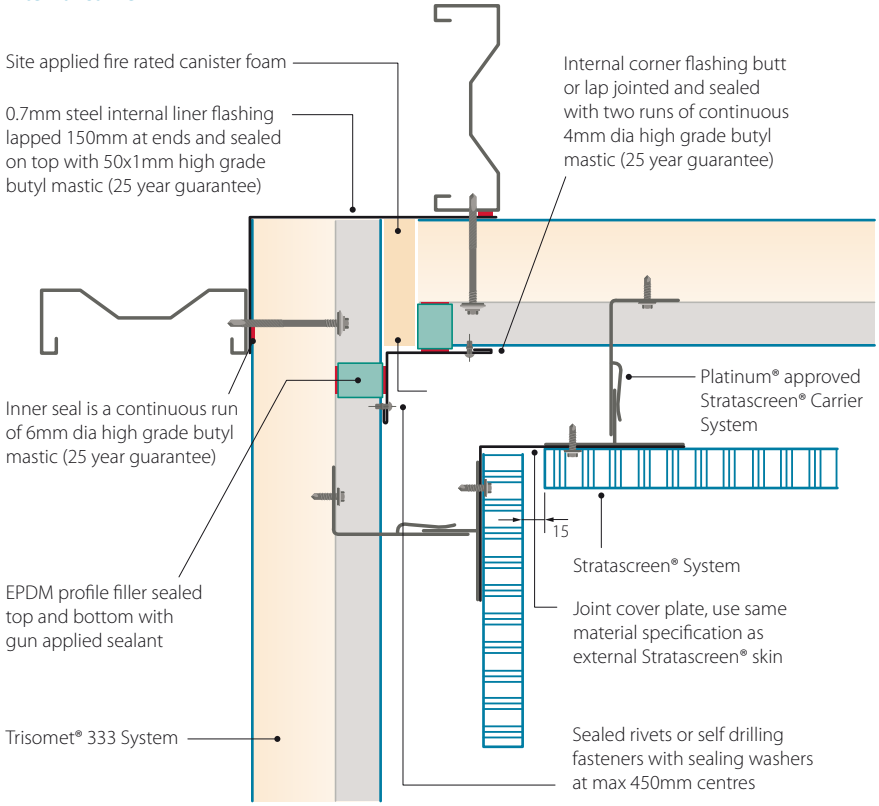
External corner



Psi value (W/mK)	f factor
With liner cut back	
0.019	0.939
Without liner cut back	
0.092	0.939

Stated calculation results are dependent on components being as shown. Computer modelled in accordance with EN ISO 10211.

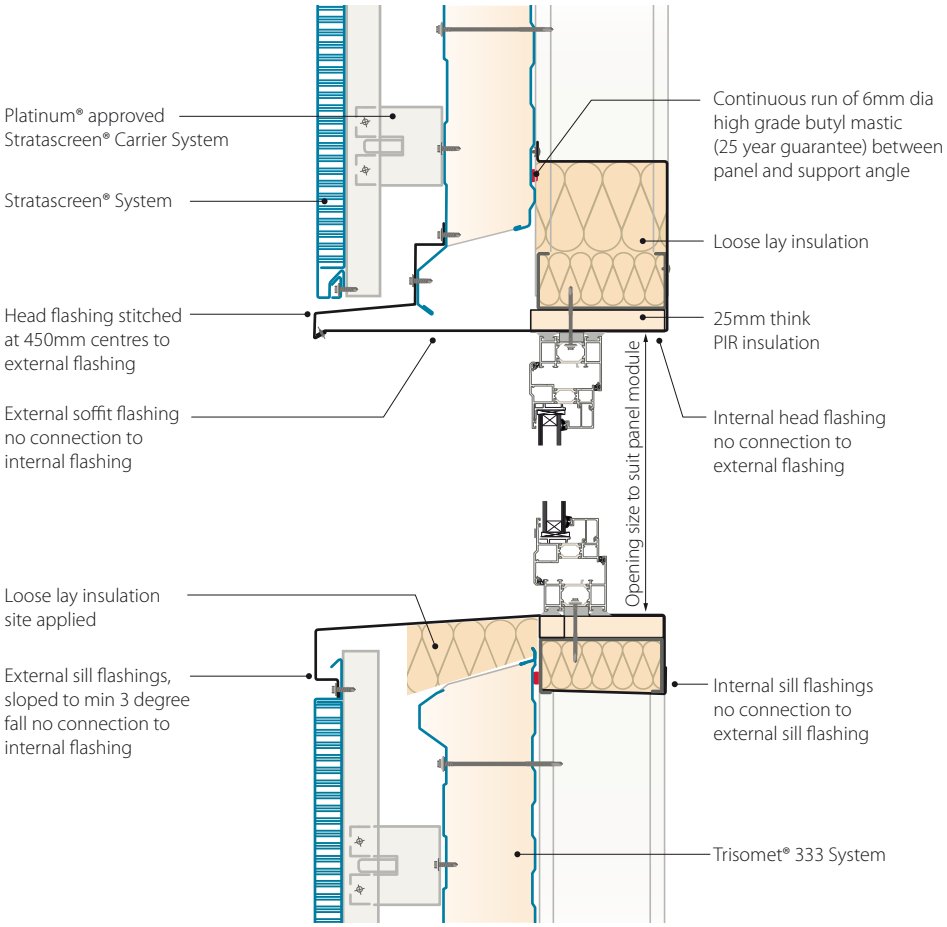
Internal corner



Psi value (W/mK)	f factor
With liner cut back	
0.041	0.957
Without liner cut back	
0.092	0.939

Stated calculation results are dependent on components being as shown. Computer modelled in accordance with EN ISO 10211.

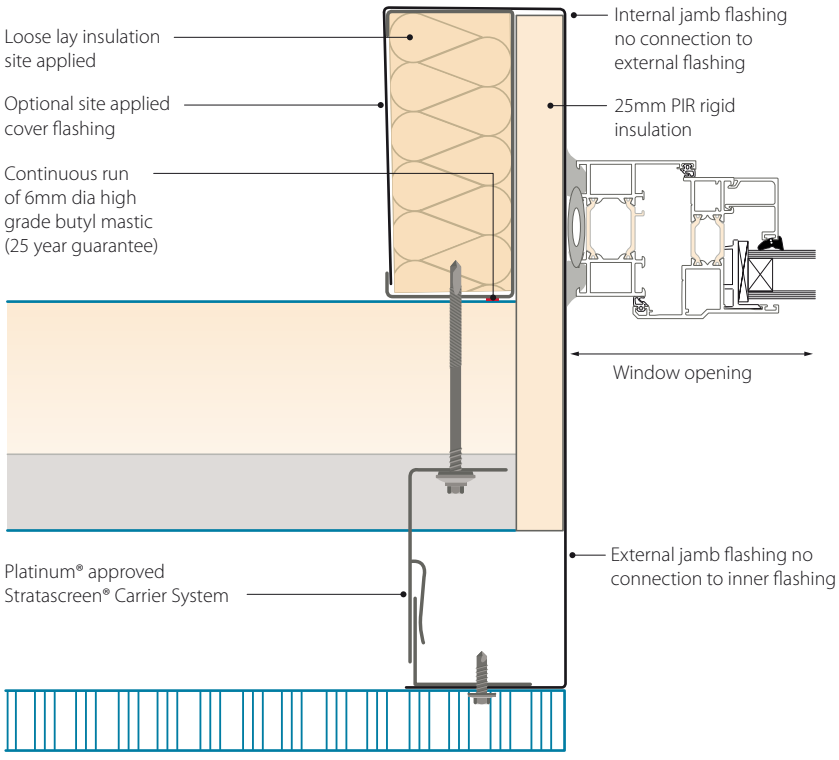
Window head/sill



Psi value (W/mK)	f factor
Window head	
0.614	0.735
Window sill	
0.163	0.878

Stated calculation results are dependent on components being as shown. Computer modelled in accordance with EN ISO 10211.

Window jamb



Site guidance

This guide assumes that all current safety regulations are in place before the installers commence work.

Quality control

The Stratascreen® System is manufactured to stringent quality standards and complies with the requirements of ISO 9001. The finished product is also subjected to third party performance testing by the 'Steel Construction Institute' and has been awarded the SCI Assessed Approval mark.

The manufacturing process is closely monitored at every stage of manufacture. Once packed and wrapped, packs are loaded directly onto trailers ready for despatch. Each and every trailer undergoes a thorough inspection before being signed off for delivery.

The Stratascreen® System incorporates a high quality Colorcoat® pre-finished steel or aluminium products with unique coating formulations offering long-term performance and the most comprehensive guarantees available.

Transport

All materials arriving on-site must be checked promptly before offloading. Checks should be made against the relevant delivery notes to ensure that the correct quantities and specifications have been delivered and to determine any possible transportation damage. Any discrepancies or damage observed should be recorded immediately on the proof of delivery paperwork and notify Tata Steel as soon as possible, and a written report submitted within 21 days. Please note that offloading is the customer's responsibility.

Wherever possible, the Stratascreen® System should be offloaded directly from the vehicle to the area where they will be used to reduce the risk of on-site damage. Offloading is to be undertaken as per the recommendations of Tata Steel. If panels are to be stored before installation, they should be placed on level ground (in accordance with storage instructions opposite).

There are two recommended methods for offloading:

- **Forklift or Telehandler:** Care must be taken not to tip or damage the bottom panel when driving on uneven ground. Only one pack at a time should be unloaded. Open forks fully before lifting.
- **Crane:** Where slings or grabs are used, precautions should be taken to prevent edge damage and to avoid pressure across the panels, which may cause distortion (chains should not be used). If required, temporary edge protection can be installed to prevent local damage. Only one pack at a time should be offloaded.

Material storage

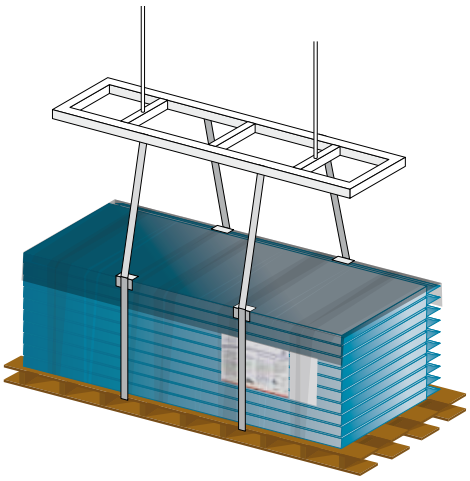
In addition to the guidelines below, the bundles should be stored on level ground (e.g. floor slab). They should remain unwrapped and sat on their factory supplied timber pallets to distribute the load of the pack and prevent pressure damage. The packs should never be stacked more than 2 packs high and should be positioned to give adequate separation between stacks to provide access and to avoid end damage.

Storage guidelines

Do not stand uncovered stacks in the open. Store under cover and away from open doorways.
If stacks cannot be stored under cover, erect a simple scaffold around them and cover it with a waterproof sheet, tarpaulin or polythene. Leave space between the cover and stacks to allow air to circulate.
Store stacks off the ground and on a slope, so that if rain penetrates the cover, the water will drain away.
Inspect the storage site regularly to ensure that moisture has not penetrated the stack.
Do not store sheets where people will walk across them.

Protective film

The Stratascreen® System is supplied with protective film on the external face. The film has a limited shelf life and must not be exposed to sunlight for long periods as it is susceptible to ultraviolet degradation. This makes the film difficult to remove and may result in adhesive residue that causes dust and dirt to adhere to the decorative finish. To ensure easy, clean removal, remove the film within one month of panel delivery to site.



Installation

Health & Safety

Method statements and site-specific risk assessments should be produced to ensure a safe system of work exists before commencing installation to comply with current Health and Safety legislation.

Pre-erection check

A secondary support structure or wall is required to support the cladding system at the necessary positions and transfer all loads imposed on and by the cladding system back to the primary structure. It is essential that there is an agreed flatness tolerance for this structure.

Before any work starts, a full survey or inspection should be carried out to ensure that the support steelwork or wall and any other associated materials, are correctly positioned and within tolerance so that the Stratascreen® System can be fixed correctly. Any obvious problems should be immediately reported to the main contractor to enable remedial work to be undertaken before installation of the cladding.

Tata Steel recommend that the allowable variation in the Stratascreen® carrier system with respect to a datum line is L/600 (where L is the support spacing).

Further guidance on steel work tolerance can be found in a Steel Construction Institute publication *P346: Best Practice for the specification in installation of metal cladding and secondary steelwork.*

Handling

Position the Stratascreen® System panels as close as possible to the area to which they are to be installed. If the panels require turning then individual panels should be lifted from their ends without sliding. Do not turn on the panel edge as pressure at this point may cause deformation. Wherever possible, manual handling should be avoided and mechanical handling equipment should be used. Mechanical handling provides health and safety benefits, shorter installation times, smaller installation teams and less risk of panel damage.

When using suction lifting equipment ensure that the panel is turned vertically soon after lifting from the pack to avoid any risk of marking on panel face.

Recommended suppliers include:

Gould Plant Hire
Tel: +44 (0) 1527 570111

4 Cladding Services
Tel: +44 (0) 8707 417600

System Installation

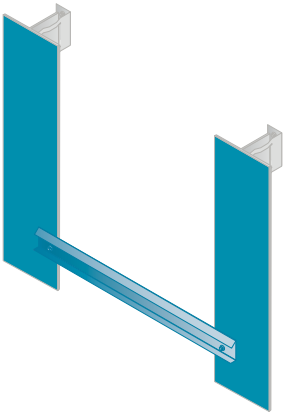
After ensuring that the base level datum has been marked, install the base flashings in accordance with the standard details, together with corner, head or any other flashing that are to go behind the carrier system.

Install the carrier system as per agreed layout making sure that any necessary adjustments are made to overcome inconsistencies in the line and level of the supporting substrate.
After installation and alignment of the carrier system to the whole elevation it is recommended that carrier framework is inspected and surveyed to ensure that it is within tolerance to allow the Stratascreen® System panels to be installed correctly.

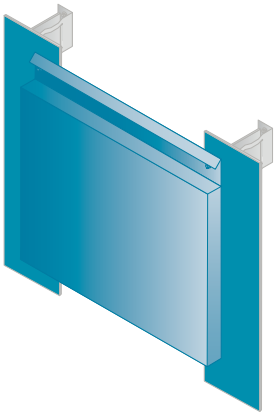
In particular, the following points must be checked:

- Fixing face alignment is within L/600 from datum
- Centres are within tolerance in all directions
- All fastener layouts are correct
- All swarf is removed

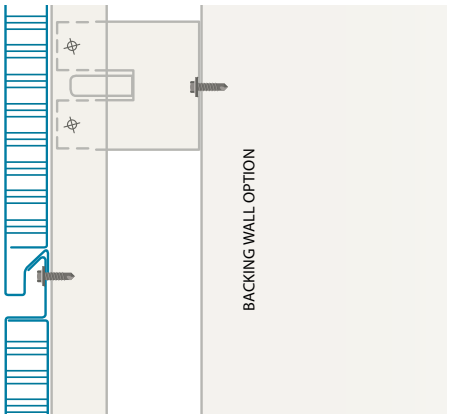
Install Stratascreen® System starter. If not cut to length in factory cut starter to suit panel length. Line starter with marked datum positions then fix to carrier using specified fixings.



Locate panel on to the starter, once in position fix panel to the carrier through the pre-drilled holes using appropriate fixings.



The panels can now be fitted in series on top of the first panel ensuring the specified joint gap is maintained in both the vertical and horizontal directions.



Case study
The EcoCampus

Considered to be the UK's first Carbon Neutral office complex of its kind, the EcoCampus development by HFD Group Ltd comprises three buildings built speculatively in a single phase, providing over 240,000 sq. ft. of Grade A office accommodation.

Designed by Mosaic Architecture + Design, the project features 5,000m² of the Stratascreen® System engineered facade system, incorporating super flat modular rainscreen panels and an integrated backing wall of Trisomet® 333 System insulated panels, providing a very rapidly installed complete wall construction, with an exceptional architectural external finish in Colorcoat Prisma® in Kronos.

Named for its outstanding sustainability attributes, The EcoCampus represents the final phase of development at Hamilton International Park, one of Scotland's leading business parks. Located 13 miles south east of Glasgow on the A725, the project boasts a 'Carbon Neutral' Energy Performance Certificate and a BREEAM "Excellent" rating.

The three Carbon Neutral EcoCampus buildings: Carrick House, Dunlee House and Edzell House draw all their energy from a clean, renewable source – the nearby Blantyre Muir Wind Farm. Each building has been constructed to offer a wide range of Grade A office accommodation benefits.

Designed in accordance with CWCT standards for watertightness and wind resistance, lightweight Stratascreen® System was selected for a variety of important reasons, including its exceptional panel flatness, providing a clean, prestige finish of Colorcoat Prisma® in Kronos.

A key factor was Stratascreen's ability to be quickly and easily installed as a complete walling solution, in combination with Trisomet® 333 System backing wall system attached to secondary steelwork. Trisomet® 333 System backing wall eliminates the need for separate vapour control, insulation and breather membrane layers as required in conventional rainscreen constructions.

This highly-integrated "one-stop" approach affords considerable cost and time saving benefits to clients, specifiers and installers who do not have to liaise with a number of suppliers, completely eliminating any potential issues at the interface between independently-developed wall system components. Delivery logistics are also considerably streamlined, making a further tangible contribution to project sustainability.

Versatile, lightweight and strong, Colorcoat Prisma® is an ideal choice for contemporary, long lasting colour. It offers outstanding UV resistance and gives first-class colour and gloss retention, following comprehensive natural weathering testing in a variety of contrasting climates.

The complete colour range of Colorcoat Prisma® has been classed as Ruv4, in accordance with EN 10169:2010, the highest classification available, providing reassurance that buildings will retain their true colour for longer.

EcoCampus, Hamilton International Technology Park

Client: HFD Group Ltd

Architect: Mosaic Architecture + Design

Main contractor: Balfour Beatty

Installing contractor: Grainger Building Services Ltd

Cladding system: Stratascreen® System with Trisomet® 333 System backing wall

Colorcoat® product: Colorcoat Prisma® in Kronos

The EcoCampus, Hamilton International Technology Park, Lanarkshire

www.tatasteelconstruction.com/theworks

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