



Building envelope and decking systems

Our full range at a glance



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Tata Steel

Used globally, supplied locally, our innovative construction products have inspired pioneering sustainable projects world-wide.

Creating steel now for a sustainable future

To help shape tomorrow's society and contribute to a sustainable future, we are building a leading European steel business that is sustainable in every sense. Our work on building transparent and responsible supply chains is being delivered through certification to BES 6001, the BRE responsible sourcing standard. Our sustainable reporting, through Environment Product Declarations (EPDs), is helping our customers to demonstrate their commitment to the environment securing increased points in sustainability certification schemes such as BREEAM and LEED.

Innovative products

Responsibly sourced, our construction products include lightweight composite floor decks that are quick to construct and capable of covering long spans to create flexible open spaces; steel tubes that support pioneering buildings world-wide and help supply gas from the North Sea to market; and our world-class Colorcoat® products that are used together with our cladding systems to craft inspiring energy-efficient buildings that can withstand the most demanding applications. These innovative products are supported through the services we offer ranging from the provision of guarantees, sustainable certification and digital data, to technical advice and software to help you with the design and installation of our products. Our guarantees show how we are taking a wider responsibility for our products and the building envelope systems they become part of, taking full responsibility for their performance and quality.

Passionate people

What makes us different is our approach to business. We believe our strength is how we build collaborative relationships that create new successes for our customers. Taking a proactive approach, we are unique in sharing our deep knowledge of steel, advising on how to best use our construction products with designs tailored to meet clients requirements from energy efficiency to longevity.

Smart steel for a smarter future

Digitalisation runs through all aspects of our life – we are working with many companies, organisations and influencers to help drive digital standards, adoption and capability.

Our pioneering digital tools are award winning, enabling secure access to all our

product information – how you want, when you want, to the level of detail you want, and in the format you want.

We are focused on how our digital tools and platforms can help drive the digital transformation of the construction industry. Through managed, structured, interpolatable data, many benefits can be realised in terms of supply chain efficiency, sustainability, circular economy and productivity.

Manufactured in the UK

Our comprehensive range of building envelope and structural products are all made in the UK through our Shotton site in North Wales. They are produced by a fully integrated UK supply chain which covers steelmaking through to galvanizing and deck roll forming lines.

With such a diverse product portfolio and over 60 years' experience, we are uniquely able to offer the specifier an unbiased solution to meet the design criteria for any project.

Our sustainable approach

Acting now to protect tomorrow, Tata Steel are committed to reducing embodied carbon by delivering carbon neutrality by 2050 and minimising whole life carbon by working together with customers.

Our comprehensive range of steel faced roof and wall cladding and metal decking profiles are the most durable on the market, having achieved the highest sustainability standards including accreditation to BES 6001, the Responsible Sourcing Standard for construction products.

Our digital tools like our DNA profiler and our Combined responsible procurement.

EPDs

As the first manufacturer to become an Environmental Product Declaration (EPD) programme operator, Tata Steel now has the ability to create product specific EPDs for our systems that comply with EN 15804 and ISO 14025 standards.

Being able to supply product specific Type III externally verified EPDs, along with BES 6001 responsible sourcing certification, assists our construction supply chains to accrue points under building certification schemes, such as LEED and BREEAM, on their projects.

In addition, the level of transparency and reporting afforded by our operatorship of an EPD programme, helps optimum resource decisions to be made and demonstrates the sustainability of steel and our steel building products.

BIM: the way you want it

The DNA profiler is the first product data tool of its kind that will allow you to access Tata Steel's product data using a large range of BIM software formats. You can now search for any of our construction products for your building envelope or metal decking solution including ComFlor[®], Formawall[®], RoofDek, Trimapanel[®], Trisobuild[®] and Trisomet[®]. Bespoke models can be created on request for Trisobuild[®] Tailored or Trisobuild[®] Linear Plank products.

Each of the DNA Profiler's data-rich BIM objects feature contact details, mechanical properties, performance characteristics, maintenance requirements and guarantee periods. This powerful resource is free for download and can be found at www.tatasteelDNAprofiler.com

For more information on our building envelope or structural products, please contact: T: +44 (0) 1244 892199

For technical advice on our building envelope products: E: technical.envelopeproducts@tatasteeleurope.com

For technical advice on our structural products: E: technical.structuralproducts@tatasteeleuorpe.com



Our digital tools like our DNA profiler and our Combined Platform will assist in your efficient design and

COMBINED platform

The COMBINED platform is a building envelope design and configuration plug-in tool created for professional architects, specifiers, contractors and procurement managers.

The plug-in works directly with the Revit, ArchiCAD, Allplan, SketchUp and AutoCAD platforms, providing an interface through which architectural professionals can independently configure and manage a system build-up from the full range of Tata Steel building envelope products.

These plug-ins can be accessed directly via our website www.tatasteeleurope.com



Formawall[®], Trimapanel[®] and Trisomet[®] Steel faced insulated roof and wall sandwich panels

Tata Steel offers the most extensive and efficient range of fully traceable steel faced PIR insulated panels. Designed and developed to provide high quality building envelope solutions, our panels are suitable for a variety of markets.

Built to last, the single-fix component offers vast design possibilities with smooth-faced and trapezoidal profiled products available in both Colorcoat HPS200 Ultra® and Colorcoat Prisma® pre-finished steel which offer an extensive colour choice.

Our panels are manufactured in factory conditions operating to Quality Management standard BS EN ISO 9001:2015 and Environmental Management standard BS EN ISO 14001:2015 with full traceability of all component materials and certified 'Very Good' to BRE's responsible sourcing standard BES 6001.

Platinum® Plus - a guarantee of enduring performance

The most comprehensive building envelope guarantee available, made unique with our technical support from specification to completion, and beyond - including those all-important final checks during installation.

We provide technical assistance at every stage of the project, with a single point of contact to ensure your specification meets the needs of the building owner.

Platinum[®] Plus incorporates the highest quality components that provide you with unrivalled choice and flexibility in the specification of your building envelope solution. With coverage for 25 years the guarantee is both direct with Tata Steel and transferrable with ownership of the building.

Using our online specification tool guarantees compliance to Platinum® Plus so that the roofing and cladding components listed are compatible and perform together as a building envelope system for superior asset protection. Alternatively, our product information is also available via NBS Chorus.

Complex buildings need tailored solutions

Design your specification around the particular requirements of the building and its function using our online specification builder, complete with 3D product previews and access to our full range of colours.

Designed by our technical team, the online tool is a valuable resource that will help you create Platinum® Plus specifications to suit the needs of your project, making sure all roofing and cladding components listed are compatible and perform as a system.

The specification builder gives you free access to our technical team who will support you from design to completion - including those all-important final checks during installation. The specification builder is super easy to use and all your specifications can be managed and stored for easy access in 'My projects'.

For further information on any of our panel products or help Reaction and resistance to fire creating your Platinum[®] Plus specification or using the tool, please All our steel faced insulated roof and wall panels are supplied in contact our Technical Department: accordance with the Building Regulations. Our panels are fully tested and T: +44 (0) 1244 892199 classified for reaction and resistance to fire with insurance approval to E: technical.envelopeproducts@tatasteeleurope.com the Loss Prevention Certification Board (LPCB) LPS 1181-1 and FM Global. www.tatasteeleurope.com/speccreator



Underpinned by Confidex®

Our portfolio of high quality panels is available as standard with the market leading Colorcoat HPS200 Ultra® and Colorcoat Prisma® pre-finished steel which are covered by the Confidex® Guarantee, offering long-term performance and assurance for up to 40 years.

Technical support freely available

The products are fully tested by third parties for criteria such as thermal performance, fire safety, air-tightness, and resistance to water penetration. This together with our extensive and unbiased technical support sets us apart. We will recommend the most appropriate system for your project to provide you with a building envelope solution that meets your requirements, performance criteria and is long lasting.

We offer support on:

- Specification writing.
- Detail design.
- Wind and snow load calculations.
- Advice on maximising BREEAM credits.
- U-value calculation.
- Load span checks.
- Acoustic SRI predictions.
- Building Regulation advice.
- Assistance with SBEM.
- Condensation risk analysis.
- Fire performance.
- LCA calculations and product specific EPDs to EN 15804 including modules A, C and D.

Trisomet®

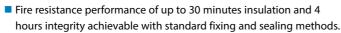
Our trapezoidal roof and wall panel is manufactured as a single component allowing fast installation.





Suitable for roof and wall applications, Trisomet® benefits include:

- Core depths from 40mm to 135mm providing U-values down to 0.15W/m²K.
- Approved to FM Class 4880, 4881 and 4471 to an unlimited wall height.
- LPCB (Loss Prevention Certification Board) approval to LPS 1181 Part 1.



- When used in conjunction with Colorcoat HPS200 Ultra®, PV modules can be installed at any point throughout the Confidex® duration and will be covered for the remainder of the guarantee period. Future proofing your building so that it is PV ready.
- Technical data and drawings available in BIM ready format.

Trimapanel[®]

Our insulated architectural wall panels provide the ability to create a simplistic design with a one piece component.

The Trimapanel [®] family includes a range of steel faced insulated architectural wall panels, from micro-rib to smooth finishes, providing attractive external aesthetics.	
Suitable for wall applications, Trimapanel® benefits include:	
Core depths from 70mm to 120mm providing U-values down to 0.17W/m ² K.	ł

Flexible design allows vertical and horizontal panel installation.



Formawall®

A smooth-faced, flat, secret fix, insulated panel that provides a high-end architectural appearance.



Formawall® is available in Colorcoat Prisma® pre-finished steel in a range of colours. Suitable for high-end aesthetically pleasing wall applications, Formawall[®] offers the following benefits:

- Core depths from 70mm to 120mm providing U-values down to 0.17W/m²K.
- Approved to FM Class 4880 and 4881 to an unlimited wall height.







- LPCB (Loss Prevention Certification Board) approval to LPS 1181 Part 1 helps reduce insurance premiums and assures reaction to fire performance.
- Fire resistance performance of 15 minutes insulation and 4 hours integrity achievable with enhanced fixing methods (horizontally or vertically laid).
- Technical data and drawings available in BIM ready format.











PLUS

SYSTEM GUARANTEE

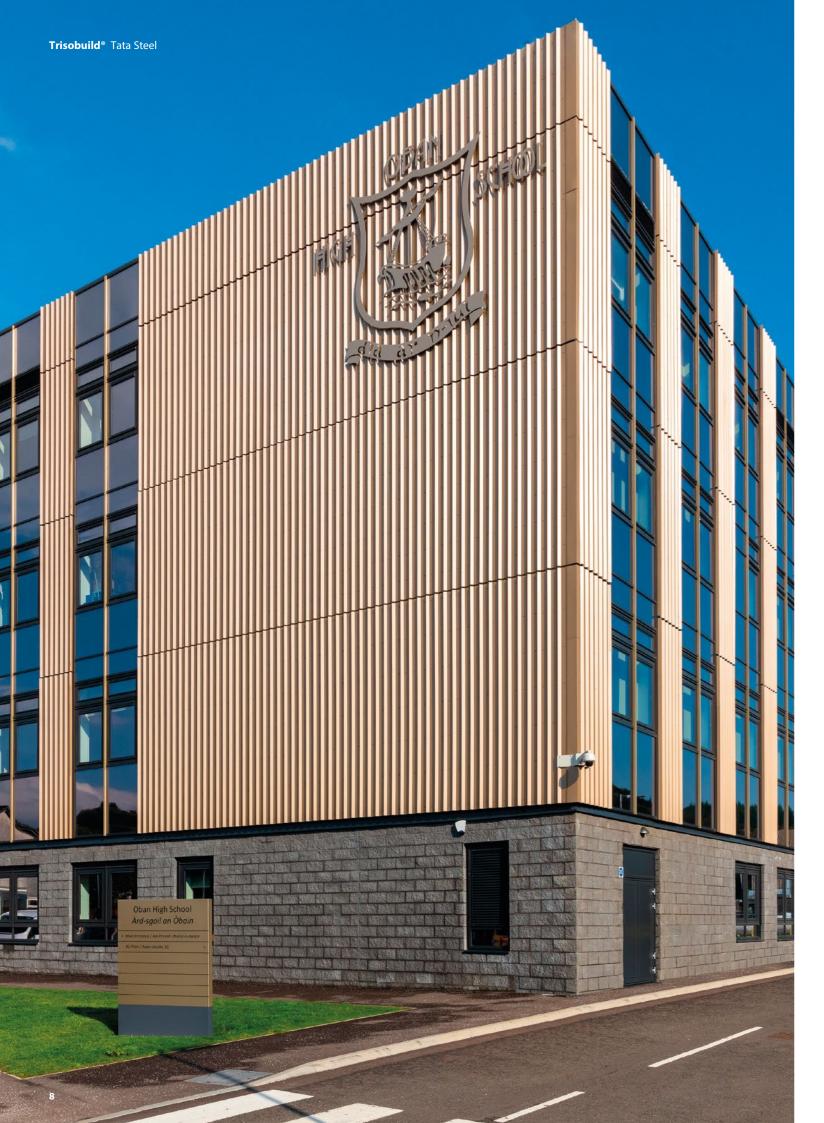
- Secret-fix joint design allows primary fixings to be hidden from view, providing an uninterrupted external surface.
- Available with a wide range of flashing options, ancillaries and fabricated corner and curved panel options.
- Approved to FM Class 4880 and 4881 to an unlimited wall height.
- LPCB (Loss Prevention Certification Board) approval to LPS 1181 Part 1.
- Fire resistance performance of 15 minutes insulation and 4 hours
- integrity achievable with enhanced fixing methods.
- Technical data and drawings available in BIM ready format.

Trimapanel[®] micro-rib

Architectural wall panel for creating unique and modern design solutions

Trimapanel[®] flat

Smooth finish panel available in Colorcoat HPS200 Ultra® for creating a high-end architectural appearance



Trisobuild® Site assembled roofing and cladding systems

Tata Steel offers a comprehensive range of Trisobuild® systems tailored to meet the requirements of your building specification. Our internal and external profiles offer design flexibility with an offering from 19mm to 46mm deep and a choice of perforated liners for acoustic applications.

Trisobuild[®] systems can be tailored to meet your design requirements all requirement for roofing without need to test. This means that all including fire resistance and acoustic performance. All our Trisobuild® Trisobuild[®] roof systems can be specified for all roofing applications. systems comprise of a Colorcoat® pre-finished steel trapezoidal liner profile, a spacer system, an insulation layer and a Colorcoat[®] pre-finished No-fuss online specification tool steel external weathering profile. Our online specification builder is super easy to use, complete with

Our site assembled roof and cladding systems are manufactured in factory conditions operating to Quality Management standard BS EN ISO 9001:2015 and Environmental Management standard BS EN ISO 14001:2015 with full traceability, all our steel profile components are

certified 'Very Good' to BRE's responsible sourcing standard BES 6001. The Instaloc[®] Plus spacer system from Tata Steel provides a stronger design than a conventional spacer. This design is incorporated into Platinum[®] Plus – a guarantee of enduring performance both Trisobuild® roof and vertical wall systems and provides a stable Platinum[®] Plus is a system guarantee for 25 years, derived from a tailored platform with depths available from 140mm up to 400mm in 20mm specification to suit your building function. Our reputable supply chain increments. This increased strength allows designers to specify deeper partners and commitment to responsible sourcing creates an enhanced systems to comply with the demands of lower U-value requirements. building envelope system that is robust and proven. Platinum® Plus Comprehensive testing has shown that the bracket spacing can extend offers enduring durability and building performance, lowering cost of to 1200mm in most load cases, saving time and material cost as well as ownership through the life of the building. complementing standard insulation guilt widths.

Made unique with our technical support from specification to completion, and beyond - including those all-important final checks during installation. Technical assistance is provided at every stage of the project, with a single point of contact to ensure your specification meets the needs of the building owner. The guarantee is direct with Tata Steel and is fully transferable on change of ownership of the building.

Platinum® Plus covers our roof and wall cladding systems, and combined with our supply chain partners supporting high-quality components means we are able to provide design flexibility and integrity of the overall system from end-to-end.

Reaction and resistance to fire

When used as an external wall, Trisobuild® systems using Colorcoat HPS200 Ultra® pre-finished steel as their external finish can be used where B-s3, d2 or equivalent are required in accordance with Table 12.1 (note 2) of the Approved Document B (fire). This allows use in all building types except for 'relevant buildings' as defined in Regulation 7(4). For buildings of this type Colorcoat Prisma® pre-finished steel should be used as the external finish which provides an A1 classification.

Trisobuild® wall systems have been third party assessed for fire resistance performance and have been shown to provide up to 4 hours fire integrity resistance and 1 hour fire insulation resistance. Detail specifications are available from our Technical department. All Trisobuild® roof systems when finished in Colorcoat HPS200 Ultra® will achieve a B_{ROOF}(t4) in accordance with EN 1187. All Trisobuild® roof systems when finished in Colorcoat Prisma® are deemed to meet







3D product previews and access to our full range of colours, and can be found at www.tatatsteelconstruction.com/specbuilder Manage all your specifications from 'My projects'.

Instaloc[®] Plus spacer system

Technical support freely available

All our products are fully tested by third parties for criteria such as thermal performance, fire safety, air-tightness, and resistance to water penetration. This together with our extensive and unbiased technical support sets us apart. We will recommend the most appropriate system for your project to provide you with a building envelope solution that meets your requirements, performance criteria and is long lasting.

We offer support on:

- Specification writing.
- Detail design.
- Wind and snow load calculations.
- U-value calculation.
- Load span checks.
- Acoustic SRI predictions.
- Building Regulations advice.
- Assistance with SBEM.
- Advice on maximising BREEAM credits.
- Condensation risk analysis.
- Fire performance.
- LCA calculations and product specific EPDs to EN 15804 including modules A, C and D.

For further information on our Trisobuild® products or advice on the Instaloc® Plus system, please contact our Technical Department: T: +44 (0) 1244 892199

E: technical.envelopeproducts@tatasteeleurope.com

www.tatasteeleurope.com





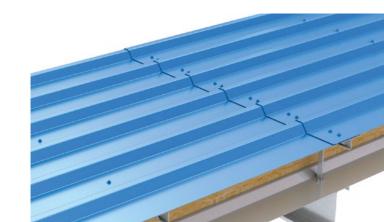
Trisobuild® R and RWL

Roof and walkable liner (R and RWL) systems are fully compliant with ACR non-fragility standards. Our roof systems can be adapted to suit a wide range of U-value performances with proven air-tightness that meet and surpass all Building Regulation requirements. Available with a walkable liner option and a range of GRP in plane rooflight options to provide natural diffused daylight into your building.

Trisobuild® HW



Trisobuild® VW

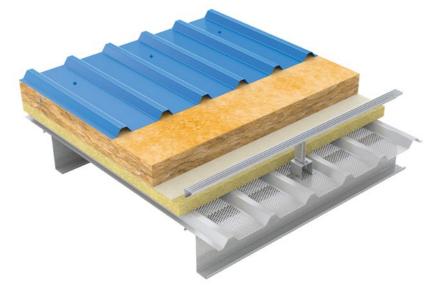


The curved roof (CR) system provides the same flexibility as our standard roof systems, with the addition of enhanced detailing providing proven weather tightness performance down to a naturally curved 40m radii. Advice and specification can be tailored to the project requirements.



Trisobuild® SA1

Trisobuild® CR



Our range of sound absorption (SA) systems are suitable for roof and wall applications, that can be specified to meet the required acoustic performance standards for your project. Whether you are looking to consider sound reduction, sound absorption or rain noise reduction, our engineers will be able to design a system that meets your needs.

Trisobuild® FW



Our Trisobuild® fire wall (FW) systems are unique in offering specifications that will provide fire insulation resistance ratings of 15, 30 and 60 minutes, together with 4 hours fire integrity resistance for all systems. The systems can be specified as vertical or horizontal, they can achieve their declared performance with standard installation methods and do not require internal stitching.

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Horizontal wall (HW) systems include Tata Steel's vertically laid liner on standard horizontal secondary cladding rails. With an Instaloc® HW spacer system which spans easily between the support points to carry a range of standard horizontally laid external trapezoidal, plank and sinusoidal profiles. These options can be expanded upon using our additional range of special profiles, providing a unique look for any project.

Vertical wall (VW) systems can be specified with non-combustible components that are available in a range of standard trapezoidal and sinusoidal profiles. The beauty here is that the system can be tailored to your specific requirements, incorporating unique aesthetics using Tata Steel's extensive range of profiles.

Insurance requirements

Trisobuild[®] systems can meet the requirements of the insurance based tests and are seen as not contributing significantly to the fire load in the building. Trisobuild[®] roof and wall systems are approved to LPS1181-1 by the Loss Prevention Council Board (LPCB).

For more information on our full Triosbuild® range, please visit our website or contact our Technical Department: T: +44 (0) 1244 892199

- E: technical.envelopeproducts@tatasteeleurope.com
- www.tatasteeleurope.com

Trisobuild[®] Roof profiles

Tata Steel offers an attractive range of roof profiles to meet both the aesthetic and structural requirements of the designer.

Load/span figures

The load/span information in the table below is based on safe loads over a 1.8m span and a deflection limit of L/200 and should be used as a guide only. For full load span table information please visit our website or contact the Technical Department.

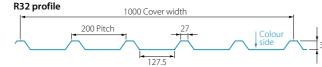
Curving

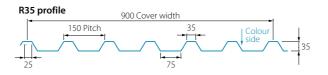
Although the self curve minimum values shown have been chosen with aesthetics in mind some stress marking may be present in the profile trough. The factory curved data relates to a single convex curve.

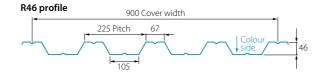
For further information on the design and detailing of

Trisobuild® CR systems, double or wave curves please contact our Technical Department: T: +44 (0) 1244 892199 E: technical.envelopeproducts@tatasteeleurope.com www.tatasteeleurope.com









Note: All measurements in diagram are in mm.

Trisobuild® Wall profiles

Tata Steel offers an attractive and economic range of wall profiles to meet the aesthetic requirements of the designer.

Load/span figures

Wall profile range

The load/span information in the table below is based on a span of 1.5m and a deflection limit of L/150 and should be used as a guide only. For full load span table information please visit our website or contact the Technical Department.

Curving

The factory curved data relates to a single convex curve.

For information regarding double or wave curves, please contact our Technical Department: T: +44 (0) 1244 892199 E: technical.envelopeproducts@tatasteeleurope.com www.tatasteeleurope.com

Roof profile range

Profile	Material and available finish	Gauge (mm)	Weight (kg/m²)	Max. load for a 1.8m span						Max.	Min.	Min.	Min.
				Imposed load (kN/m ²)			Wind suction load (kN/m ²)			sheet length	convex self	factory curve	roof pitch***
				Single span	Double span	Multi span	Single span	Double span	Multi span	iciigiii	curve (m)		piten
13.5/3	Steel (H, HDS, P & LG)	0.7	6.90	0.37	1.00	1.00	-	1.21	1.47	8000	30	NA	10
R32	Steel (H, HDS, P & LG)	0.7	6.76	1.38	1.24	1.50	1.47	1.75	2.18	16000	40	400	4
	Aluminium (MF, SA & CA)	0.9	2.99	0.60	1.18	1.42	0.90	1.59	1.98	16000	40	1000	4
R35	Steel (H, HDS, P & LG)	0.7	7.08	2.11	1.81	2.18	2.43	2.56	3.19	16000	55	NA	4
R46	Steel (H, HDS, P & LG)	0.7	7.36	3.01	1.82	2.15	3.87	4.07	5.10	16000	55	400	4
	Aluminium (MF, SA & CA)	0.9	3.25	1.74	1.63	1.92	2.31	3.61	4.51	16000	55	1000	4

Key

H – Colorcoat HPS200 Ultra®	
HDS – Colorcoat HPS200 Ultra® double sided	
P – Colorcoat Prisma®	
LG – Colorcoat® LG	
MF – Mill finish aluminium	
SA – Stucco embossed aluminium**	
CA – Pre painted aluminium**	

For an up to date list of our standard colours please contact our sales department.

* Measured to inside face.

** Subject to min order quantities.

*** Min. pitch after design deflections.

Profile manufacturing tolerance (This applies to all profiles)						
Cover width (mm)	± 5					
Squareness (mm)	< 0.5% of cover width					
Length (mm) < 3m	+ 10, -5					
Length (mm) > 3m	+ 20, -5					

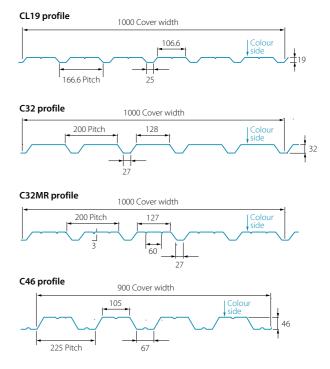
Tolerance is in accordance with BS EN 14782

General reference

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

Profile	Material and	Gauge	Weight	Max. load for a 1.5m span						Max.	Min.	Suitable
	available finish	(mm)	(kg/m²)	Imposed load (kN/m ²)			Wind suction load (kN/m ²)			sheet length	factory curve	for horizontal
				Single span	Double span	Multi span	Single span	Double span	Multi span	iciigui	(mm*)	use?
13.5/3	Steel (H, HDS, P & LG)	0.7	6.90	1.01	1.60	1.94	1.01	1.60	1.94	8000	NA	Yes
	Aluminium (MF, SA & CA)	0.9	3.05	0.48	1.15	1.15	0.48	1.15	1.15	8000	NA	Yes***
CL19	Steel (H, HDS, P & LG)	0.5	4.53	0.53	0.74	0.89	0.79	0.84	1.05	10000	350	No
	Steel (H, HDS, P & LG)	0.7	6.34	0.91	1.35	1.64	1.22	1.50	1.88	10000	400	Yes***
C32 and C32MR	Steel (H, HDS, P & LG)	0.5	4.83	1.37	0.92	1.09	1.38	1.37	1.71	16000	400	No
	Steel (H, HDS, P & LG)	0.7	6.77	2.38	1.74	2.09	2.46	2.38	2.98	16000	400	Yes*** (MR only)
	Aluminium (MF, SA & CA)	0.9	2.99	1.49	1.58	1.89	1.45	2.31	2.89	16000	1000	Yes*** (MR only)
C46	Steel (H, HDS, P & LG)	0.5	5.25	1.78	1.26	1.47	3.45	3.08	3.86	16000	400	No
	Steel (H, HDS, P & LG)	0.7	7.36	3.67	2.44	2.86	5.82	5.50	6.88	16000	400	Yes***
	Aluminium (MF, SA & CA)	0.9	3.25	2.99	2.10	2.44	2.99	2.06	2.39	16000	1000	Yes***

Key:	
H – Colorcoat HPS200 Ultra®	
HDS – Colorcoat HPS200 Ultra® double sided	
P – Colorcoat Prisma®	
LG – Colorcoat® LG	
MF – Mill finish aluminium	
SA – Stucco embossed aluminium**	
CA – Pre painted aluminium**	



Note: All measurements in diagram are in mm.

For an up to date list of our standard colours please contact our sales department.

* Measured to inside face.

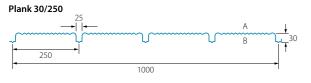
** Subject to min order quantities.

*** For horizontal cladding Tata Steel recommend the allowable variation in the outer flange level of the cladding rail with respect to a vertical datum line is L/600 (where L is the rail spacing).

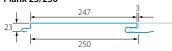
Trisobuild® Special wall profiles

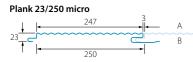
Tata Steel offers an attractive range of special order wall profiles in a range of finishes and colours to meet the aesthetic requirements of the designer.

Plank profiles

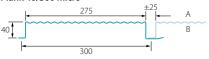


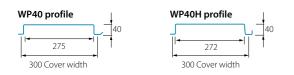
Plank 23/250











Fabrications

Tata Steel supply fabrications in a variety of girths to suit individual customers' requirements.

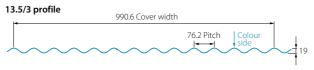
Alternative lengths are available upon request in girths between 250mm and 600mm. For high quality finishes a strippable film can be applied to the external surface for additional protection from scratches and scuff marks during subsequent handling and fixing.

For further information on span tables, profile self weight, gauge options, external finish options and colour range, please contact our Technical Department:

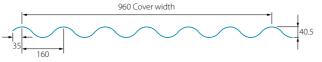
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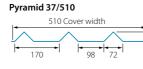
Sinusoidal profiles

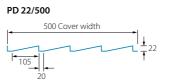


42/960 profile



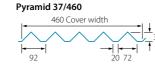
Pyramid profiles



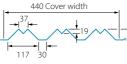


Pagode 40/450

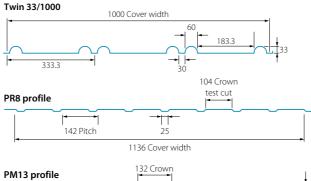
450 Cover width



Diamond 40/440









Note: All measurements in diagram are in mm.

Trisobuild® Liner profiles

Tata Steel offers a range of liner profiles, which provide an attractive clean and highly reflective internal appearance. The RL32 liner can offer a working platform during the construction phase when specified non-perforated. When the RL32 is perforated it can facilitate various acoustic specifications, however should be classed as fragile.

Lengths

Long lengths are available, however for practical site handling purposes when using the 0.40mm gauge we would suggest these are kept to a maximum of 5.5m.

Spans

In a roof application, the spanning capabilities of the liner profiles are largely dependent upon their self-weight and the weight of the insulation they are required to support. If a working platform is required we recommend the RL32 in a 0.7mm steel thickness. If a non-fragility rating is required a maximum span and fixing arrangement will need to be specified.

For further information on non-fragility specifications, please contact our Technical Department: T: +44 (0) 1244 892199 E: technical.envelopeproducts@tatasteeleurope.com www.tatasteeleurope.com



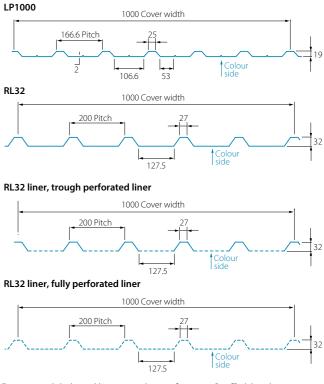








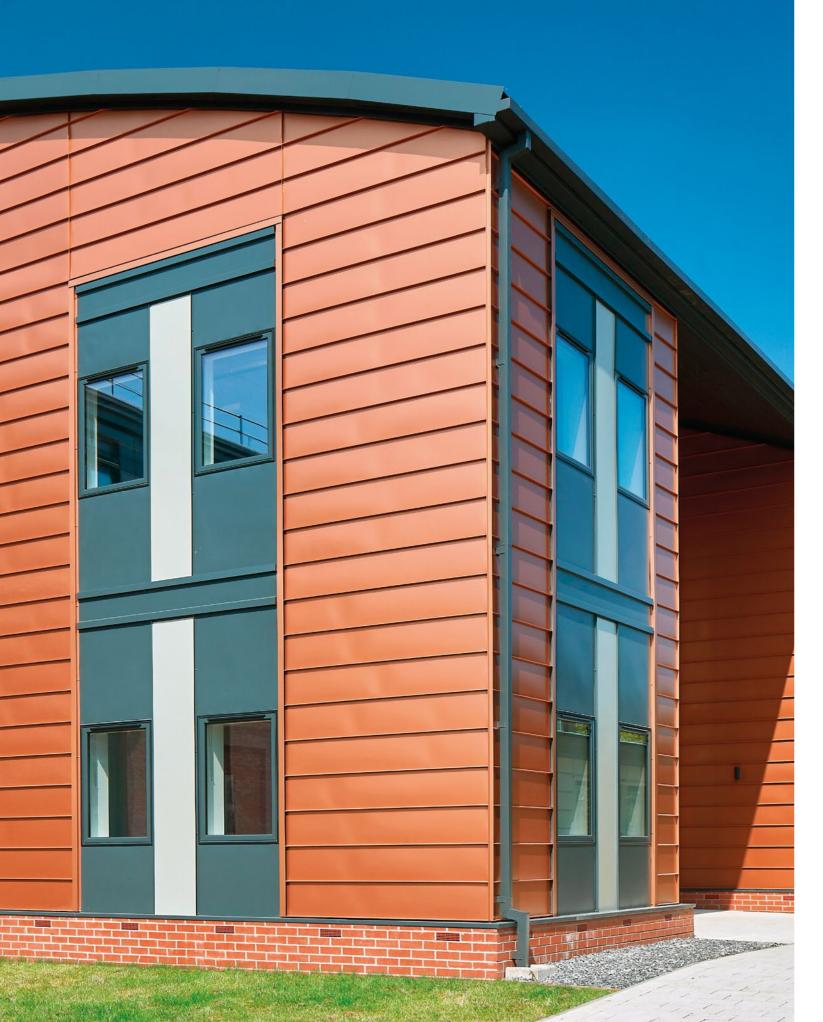




For structural desks and liner trays please refer to our RoofDek brochure, this can be found at www.tatasteeleurope.com

Note: All measurements in diagram are in mm.





Trisobuild[®] façade range Non-combustible rainscreen systems

Tata Steel offers a range of innovative rainscreen façade options which are non-combustible and designed to be used on both new-build and refurbishment projects, creating clean linear lines and unique aesthetics through a wide range of profiles and extensive colour range.

Rainscreen façades comprise of a multi-part system, with the principal purpose of providing a high-value and often complex decorative façades, whilst providing protection to the underlying structure, allowing the building to breathe, without risk of interstitial condensation of structural degradation. These systems derive their performance from the ventilated zone between the insulation and the weathering screen, which minimises thermal cold bridging and allows for water to be drained from within the cavity and any remaining humidity to evaporate through the air gaps.

Acknowledging the growing concerns regarding the fire performance of such cladding systems, Tata Steel only offer façade systems comprising of non or limited combustible pre-finished steel products that are classified as A1 or A2-s1, d0 as defined by BS EN 13501-1:2018. We extend this to all components forming the system including rainscreen 'helping hand' support, fasteners and insulation elements and this is fully detailed and supported by our Platinum[®] Plus system guarantee.

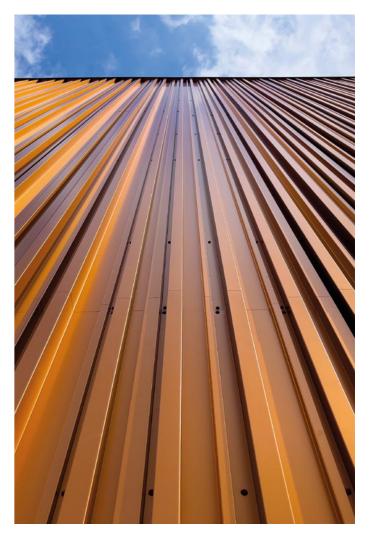
Platinum[®] Plus – a guarantee of enduring performance

Platinum® Plus is a system guarantee for 25 years, derived from a project specification to suit the building function. Our reputable supply chain partners and commitment to responsible sourcing creates an enhanced building envelope system that is both robust and proven. Platinum® Plus offers enduring durability and assured building performance, lowering the cost of ownership throughout the service life of the building.

Made unique with our technical support from specification to completion, and beyond – including those all-important final checks both during and post-installation. Technical assistance is provided at every stage of the project, with single point of contact to ensure your specification meets the needs of the building owner. An important feature of the guarantee, is that it is between the building owner and Tata Steel (without intermediaries) and is fully transferable on change of ownership of the building.

Technical support

All Tata Steel products are fully tested by third parties for criteria such as reaction and resistance to fire, thermal performance, hard and soft body impact and resistance to water penetration. This together with our extensive and unbiased technical support sets us apart. We will recommend the most appropriate system for your project to provide you with a building envelope solution that meets your requirements, performance criteria and maximises the service life of your build.



Product support is available to you directly through our online DNA Profiler, or the COMBINED (Connected & Managed Building Envelope Design) Platform which allows complete BIM integration with your existing CAD platform, providing a full suite of analysis features such as thermal performance, condensation risk analysis and wind and snow calculations in what is a unique and market leading design and configuration tool.

For further information on non-combustible rainscreen systems, please contact our Technical Department: T: +44 (0) 1244 892199 E: technical.envelopeproducts@tatasteeleurope.com www.tatasteeleurope.com

Trisobuild® façade range Trisobuild® Tailored Profiles

Put your stamp on your building using the newly launched Trisobuild® Tailored Profile range. Naturally inspiring façades with depth of geometry and fabricated in the Colorcoat Prisma® palette to perfectly complement one another.

Trisobuild® Tailored Profiles are a bespoke set of new steel profiles which have been developed to create striking geometry and to challenge the concept of traditional façades in the UK. The exciting new profile shapes and bright and bold Colorcoat® palette offer unparalleled creative freedom for building modern and contemporary looking structures that will provide truly unique and sensational building façades.

Trisobuild® Tailored Profiles components

Outer sheet

Trisobuild® Tailored Profile range Material: Colorcoat Prisma® including the option of a textured finish*, with 0.7mm metallic coated steel substrate Cover widths: Varies by profile Sheet lengths: 1m to 6m

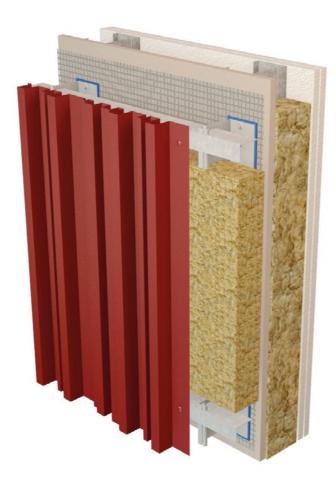
Support system

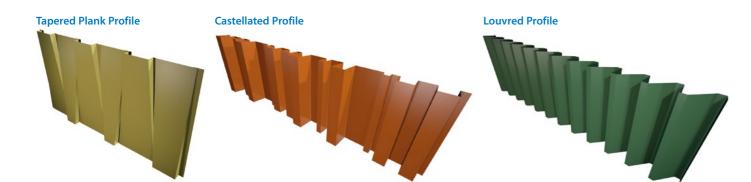
Nvelope 'helping hand' system Material: Mill finish aluminium or stainless steel BBA Certificate: 19/5671 Bracket sizes: 40mm to 300mm

Fasteners

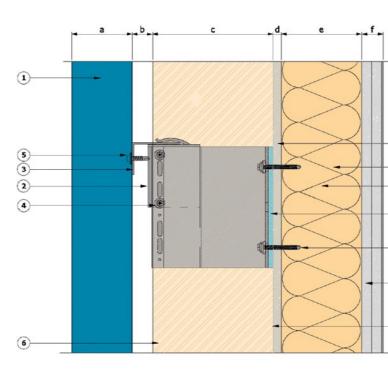
Material: Stainless steel only Grade: A4 only

* See separate fire classification for Colorcoat Prisma® - textured.

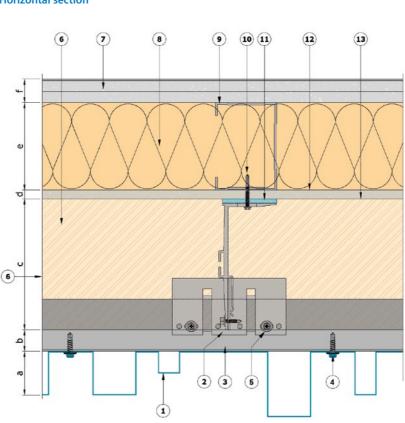




Vertical section



Horizontal section



Parts list

- 1 Trisobuild[®] Tailored Profile (Colorcoat Prisma[®]).
- 2 Nvelope NH2 Aluminium carrier bracket (size TBC in specification).
- 3 Nvelope Aluminium 'L' rail (size TBC in specification).
- 4 Stainless steel fixing (TBC in specification).
- 5 Stainless steel fixing (TBC in specification).
- 6 Stone fibre slab insulation by others.
- 7 Wallboard by others.
- 8 Loose filled insulation by others.
- 9 SFS support structure by others.
- 10 Stainless steel fixing (TBC in specification).
- 11 Optional PVC thermal break 5mm.
- 12 Cement particle board by others.
- 13 Breather membrane by others.

Legend

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- a Trisobuild® Tailored Profiles depth varies.
- b Cladding cavity (British standard 25mm, NHBC -38mm (baffled joints) and 50mm (open joints)
- c Rigid sheet insulation (project specific depending on specified U-value).
- d Sheeting board 10mm or 12mm.
- e SFS 90mm to154mm (depending on system specification).
- f Internal plasterboard 30mm.

Parts list

- 1 Trisobuild[®] Tailored Profile (Colorcoat Prisma[®]).
- 2 Nvelope NH2 Aluminium carrier bracket (size TBC in specification).
- 3 Nvelope Aluminium 'L' rail (size TBC in specification).
- 4 Color Headed Stainless steel fixing (TBC in specification).
- 5 Stainless steel fixing (TBC in specification).
- 6 Stone fibre slab insulation by others.
- 7 Wallboard by others.
- 8 Loose filled insulation by others.
- 9 SFS support structure by others.
- 10 Stainless steel fixing (TBC in specification).
- 11 Optional PVC thermal break 5mm.
- 12 Cement particle board by others.
- 13 Breather membrane by others.

Legend

- a Trisobuild® Tailored Profiles depth varies.
- b Cladding cavity (British standard 25mm, NHBC 38mm (baffled joints) and 50mm (open joints).
- c Rigid sheet insulation (project specific depending on specified U-value).
- d Sheeting board 10mm or 12mm.
- e SFS 90mm to 154mm (depending on system specification).
- f Internal plasterboard 30mm.

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Trisobuild® façade range Trisobuild® Linear Plank

Versatile and cost-effective Trisobuild[®] Linear Plank is a concealed fix façade plank system with variable widths up to 500mm, available in a wide range of Colorcoat Prisma[®] finishes.

Traypanel systems were originally developed to provide an economic alternative to more sophisticated rainscreen systems, whilst continuing to offer an attractive and flexible façade option. Trisobuild® Linear Plank has been designed to allow freedom in orientation, flexibility in cover width, and the ability to include a variety of widths within the same façade. Manufactured from Colorcoat Prisma® pre-finished steel it allows the system to be classified as non-combustible and safely installed above 18m.

Trisobuild[®] Linear Plank components

Outer sheet

Trisobuild® Linear Plank Profile

Material: Colorcoat Prisma® including the option of a textured finish*, with 0.7mm or 1.2mm metallic coated steel substrate Cover widths: 125mm, 300mm or 500mm (max) intermediate bespoke widths upon request Sheet lengths: 1m to 6m

Support system

Nvelope 'helping hand' system Material: Mill finish aluminium or stainless steel BBA Certificate: 19/5671 Bracket sizes: 40mm to 300mm

Fasteners

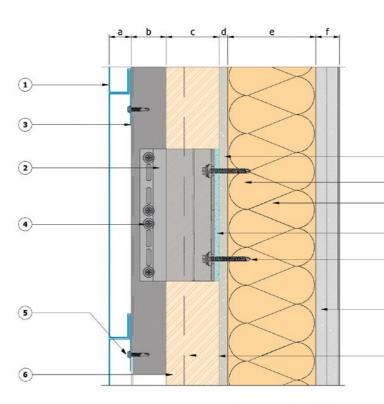
Material: Stainless steel only Grade: A4 only

* See separate fire classification for Colorcoat Prisma® - textured.

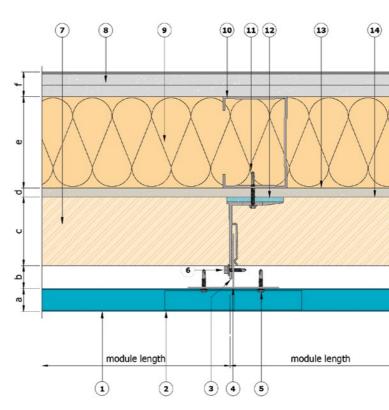




Vertical section



Horizontal section



Parts list

- 1 Trisobuild[®] Linear Plank (1.2mm ColorCoat Prisma[®]).
- 2 Nvelope NV1 Aluminium carrier bracket (size TBC in specification).
- 3 Nvelope Aluminium 'T' rail (size TBC in specification).
- 4 Stainless steel fixing (TBC in specification).
- 5 Stainless steel fixing (TBC in specification).
- 6 Stone fibre slab insulation by others.
- 7 Wallboard by others.
- 8 Loose filled insulation by others.
- 9 SFS support structure by others.
- 10 Stainless steel fixing (TBC in specification).
- 11 Optional PVC thermal break 5mm.
- 12 Cement particle board by others.
- 13 Breather membrane by others.

Legend

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- a Trisobuild[®] Linear Plank depth 25mm.
- b Cladding cavity: British standard 25mm, NHBC 38mm (baffled joints) and 50mm (open joints).
- c Rigid sheet insulation (project specific depending on specified U-value).
- d Sheeting board 10mm or 12mm.
- e SFS 90mm to154mm (depending on system specification).
- f Internal plasterboard 30mm.

Parts list

- 1 Trisobuild[®] Linear Plank (1.2mm ColorCoat Prisma[®]).
- 2 Plank Butt Strap.
- 3 Nvelope NV1 Aluminium carrier bracket (size TBC in specification).
- 4 Nvelope Aluminium 'T' rail (size TBC in specification).
- 5 Stainless steel fixing (TBC in specification).
- 6 Stainless steel fixing (TBC in specification).
- 7 Stone fibre slab insulation by others.
- 8 Wallboard by others.
- 9 Loose filled insulation by others.
- 10 SFS support structure by others.
- 11 Stainless steel fixing (TBC in specification).
- 12 Optional PVC thermal break 5mm.
- 13 Cement particle board by others.
- 14 Breather membrane by others.

Legend

- a Trisobuild[®] Linear Plank depth 25mm.
- b Cladding cavity: British standard 25mm, NHBC 38mm (baffled joints) and 50mm (open joints).
- c Rigid sheet insulation (project specific depending on specified U-value).
- d Sheeting board 10mm or 12mm.
- e SFS 90mm to 154mm (depending on system specification).
- f Internal plasterboard 30mm.



Trisobuild® façade range Trisobuild® Seam

Trisobuild[®] Seam is a long strip standing seam façade system which provides an aesthetic alternative to traditional hard metal systems for non-residential applications.

Fully supported standing seam cladding system are typically supported by and fixed back to continuous plywood or OSB backing boards which would of course provide little performance in a fire scenario and could not be utilised above 18m. In the Trisobuild® Seam façade system these combustible backing boards are replaced by a non-combustible steel deck, from the Tata Steel RoofDek range, which is directly affixed to the 'helping hand' bracket and rail system.

Trisobuild[®] Seam components

Outer sheet

Trisobuild® Seam Profile CE Marked to BS EN 14783:2013 Material: Colorcoat Prisma® including the option of a textured finish*, with 0.7mm metallic coated steel substrate BBA Certificate: 09/4698 Cover widths: 305mm or 514mm Sheet lengths: 1m to 12.5m Fixed back to steel backing sheet with fasteners at typically 180mm centres

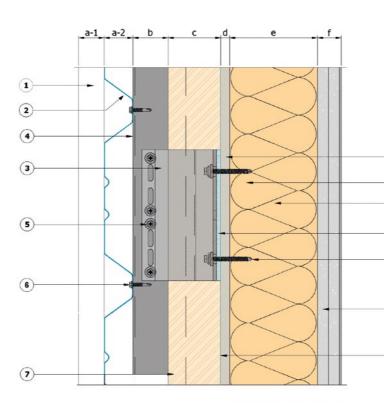
Decking profile

Trisobuild® D32S carrier CE Marked to BS EN 1090-12009 +A1:2011 Material: Colorcoat® PE 15 (15 micron polyester) Galvanized metallic coated steel Cover width: 1000mm Sheet lengths: 1m to 16m

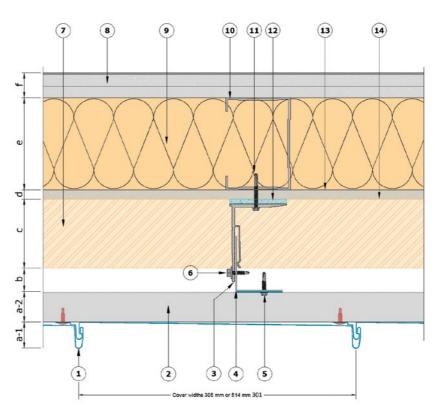
* See separate fire classification for Colorcoat Prisma® - textured.



Vertical section



Horizontal section



Parts list

- 1 Trisobuild[®] Seam.
- 2 Tata Steel's RoofDek D32S.
- 3 Nvelope NV1 Aluminium carrier bracket (size TBC in specification).
- 4 Nvelope Aluminium 'T' rail (size TBC in specification).
- 5 Stainless steel fixing (TBC in specification).
- 6 Tata Steel Urban Seam[®].
- 7 Stone fibre slab insulation by others.
- 8 Wallboard by others.
- 9 Loose filled insulation by others.
- 10 SFS support structure by others.
- 11 Stainless steel fixing (TBC in specification).
- 12 Optional PVC thermal brea 5mm.
- 13 Cement particle board by others.
- 14 Breather membrane by others.

Legend

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- a-1 Trisobuild® Seam 29mm.
- a-2 Tata Steel's RoofDek D32S 32mm.
- b Cladding cavity: British standard 25mm, NHBC -38mm (baffled joints) and 50mm (open joints).
- c Rigid sheet insulation (project specific depending on specified U-value).
- d Sheeting board 10mm or 12mm.
- e SFS 90mm to 154mm (depending on system specification).
- f Internal plasterboard 30mm.

Parts list

- 1 Trisobuild[®] Seam.
- 2 Tata Steel's RoofDek D32S.
- 3 Nvelope NV1 Aluminium carrier bracket (size TBC in specification).
- 4 Nvelope Aluminium 'L' rail (size TBC in specification).
- 5 Stainless steel fixing (TBC in specification).
- 6 Stainless steel fixing (TBC in specification).
- 7 Stone fibre slab insulation by others.
- 8 Wallboard by others.
- 9 Loose filled insulation by others.
- 10 SFS support structure by others.
- 11 Stainless steel fixing (TBC in specification).
- 12 Optional PVC thermal break 5mm.
- 13 Cement particle board by others.
- 14 Breather membrane by others.

Legend

- a-1 Trisobuild® Seam 29mm.
- a-2 Tata Steel's RoofDek D32S 32mm.
- b Cladding cavity: British standard 25mm, NHBC 38mm (baffled joints) and 50mm (open joints).
- c Rigid sheet insulation (project specific depending on specified U-value).
- d Sheeting board 10mm or 12mm.
- e SFS 90mm to 154mm (depending on system specification).
- f Internal plasterboard 30mm.



ComFlor[®] Steel composite floor decks

Tata Steel's ComFlor[®] is readily available and offers the most extensive, cost-effective and efficient range of composite floor deck profiles in Europe. Our range of seven unique profiles enable effective and efficient design, each intended specifically for a particular application area providing optimum composite floor deck performance.

ComFlor[®] is specifically designed for rapid installation of flooring and to facilitate lower mass buildings with long clear span composite concrete floors. Large areas of ComFlor® can be easily craned into position and in excess of 400m² laid by one team per day. With minimal mesh or fibre reinforcement and pumped concrete, the completed floor can quickly follow.

ComFlor[®] composite floor deck range

- Fast build time provided by quick installation and prop free concrete floors.
- High levels of fire resistance from all ComFlor[®] slabs with zero soffit protection.
- Colorcoat FD[®] pre-finished steel soffits offer significant extra protection and corrosion resistance.
- Full traceability of all components.
- Certified 'Very Good' to BREs responsible sourcing standard BES 6001 to maximised points in BREEAM.
- Covers unpropped construction from 2.5m to 4.8m.

ComFlor[®] deep deck range

- Long spanning capability between beams.
- Used with integrated beams (Slimdek[®], Slimflor[®] and others) where the deck lands on an extended lower flange, giving reduced overall floor height.
- Services incorporated into profile zone, providing cost-effective, minimal depth floor construction.
- Low vibration design to meet the most stringent vibration requirements.
- Excellent fire ratings.
- Typical unpropped spans up to 6m, and propped spans to 9m.

For further information of our comprehensive range of ComFlor® products, please contact our Technical Department: T: +44 (0) 1244 892199 E: technical.structuralproducts@tatasteeleurope.com

www.tatasteeleurope.com







The ComFlor® range From 46mm to 225mm deep

- ComFlor[®] composite floor deck acts as a working platform.
- Act as a permanent formwork for the concrete slab.
- Provides fully integrated composite action between steel deck and slab.
- Allows composite action between the steel beam and slab via shear studs.



ComFlor[®] 46

Classic composite flooring profile, easily transported, simple and efficient.

- Nestable. The simple trapezoidal shape neatly fits one profile into another, allowing more square metres per bundle.
- Low transport cost. Results in reduced environmental impact and in less crane time.
- Fast laying.
- Economic.



ComFlor[®] 51⁺

Contemporary new design of the original British re-entrant profile.

- Virtually flat soffit for a clean aesthetic appeal.
- Composite performance floor slab. New embossments give even better shear key.
- Composite performance beam. Due to effective shear stud performance.
- Fire and acoustic performance.
- Easy attachment for services.



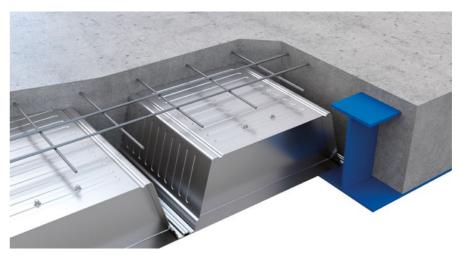
ComFlor[®] 60

Most successful new generation combined trapezoidal and re-entrant 60mm profile.

- Versatile. Combined round shouldered profile gives excellent span capability with straightforward service attachment.
- Low concrete and steel usage.
- Central stud placement.
- Closed ends.
- Available in Colorcoat FD[®] pre-finished steel to the soffit.
- 600mm cover.









ComFlor[®] 80

Combined trapezoidal and re-entrant 80mm composite profile with long span capability.

- Versatile. Combined profile allows easy service attachment, with trapezoidal spanning ability.
- Reduces the number of secondary beams.
- Central stud placement.
- Available in Colorcoat FD[®] pre-finished steel to the soffit.
- 600mm cover, as recommended by Health and Safety guidelines.



ComFlor[®] 100

Strong long span composite profile for non-composite beams.

- Long span strength reduces or eliminates temporary propping.
- Fast laying.
- Suitable for use with concrete beams or non-composite steel beams.
- Nestable profile gives low transport and handling costs.

ComFlor[®] 210

The original deep ultra long span composite profile introduced for the first Slimflor[®] systems.

- Efficient. Cross stiffener technology and deep profile shape provides a very efficient metal deck and composite slab.
- Especially suited to bear on the extended lower flange of a steel beam, can also be used on the top flange.
- Nestable profile gives low transport and handling costs.



ComFlor[®] 225

High performance deep deck specifically designed for Slimdek[®] and all other integrated steel beam systems.

- Optimised profile design gives superb span capability and composite performance.
- Enables all the benefits of Slimdek® type systems. Including 6m unpropped spans, big open area and slimmer floor zone.
- Easy service attachment and integration.
- Provides reduced overall floor height with fewer steel beams which enables an extra floor every eight floors.



ComFlor[®] with Colorcoat FD[®] 170 Colorcoat FD[®] pre-finished steel is ideal when the exposed ComFlor[®] soffit is used as the building's interior, such as in car parks,

different coatings, both applied over the galvanized substrate to EN 10346:2015.

Colorcoat FD[®] 170 pre-finished steel is a tough 170 micron thick satin embossed plastisol coating with a guarantee of up to 25 years. It provides substantial additional protection to exposed soffits and offers great looking decks in both internal and external environments, with project specific guarantees available for both inland and coastal applications.

ComFlor® Active

ComFlor[®] Active is an innovative approach that permits circulation of cool or warm water through a network of water pipes embedded into the concrete to thermally activate the floor. This method provides highly effective cooling for office buildings and similar heating benefits in residential structures.

In both cases, the low temperature differential between the room temperature and the circulated water allows the use of low carbon technologies, rather than traditional carbon intensive heaters or chillers, to supply water at the required temperature. The low water temperature also reduces heat losses from the intermediate pipe-work and increases the system's overall efficiency.

Thermally activated traditional concrete slab floors provide a high comfort level, reduce the need for radiators and provide a self-regulating, energy-efficient system offering cooling and heating in a single package.

offices and schools. It is available in two

ComFlor® Active offers all these advantages, with some key extra features. Benefits include a large radiant surface to maximise output and optional Colorcoat FD[®] 170 pre-finished steel to further improve performance and offer an aesthetically appealing finish.

ComFlor[®] 9 software

Comprehensive ComFlor[®] 9 software for the design of composite floor slabs is freely available, to all professionals who register, at www.tatasteeleurope.com/Comflor

The software analyses each of the ComFlor® composite floor decks in construction stage, service stage and for fire resistance, under a wide range of loading configurations.

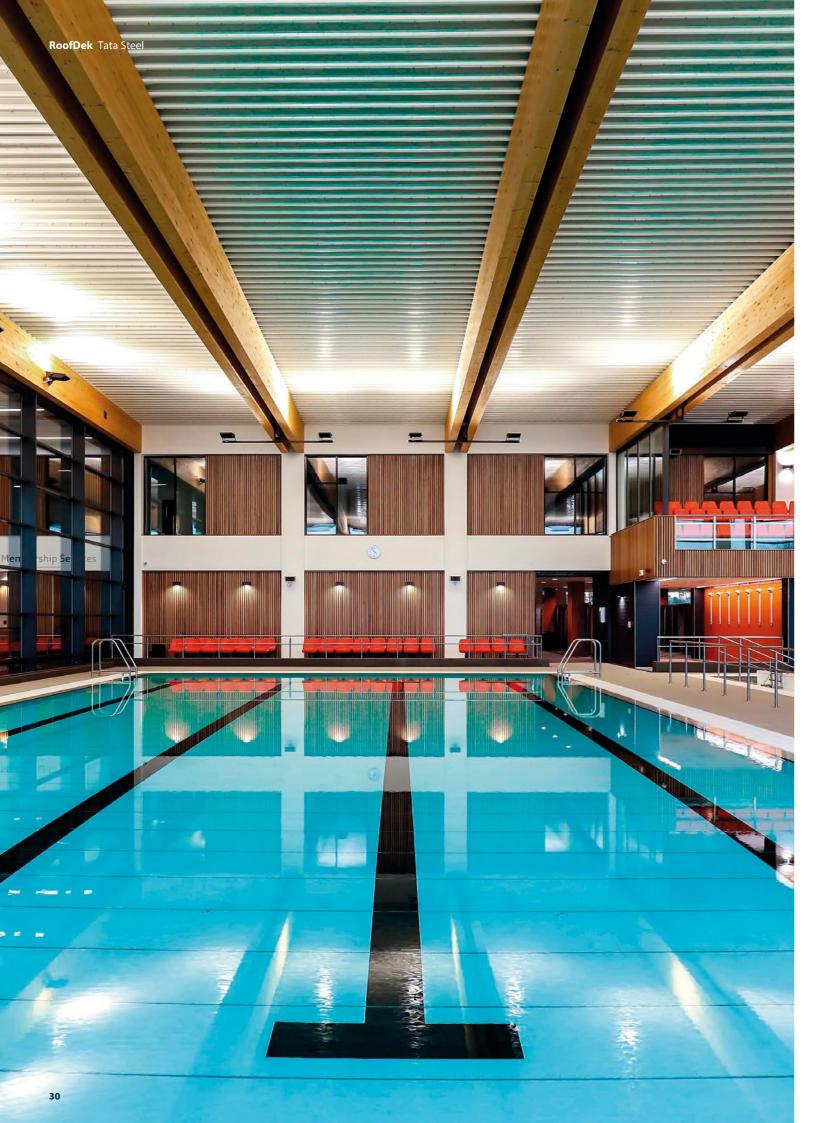
Professional support

Our dedicated structural team are available to provide support and advice on the best product for your project, and are on hand to help with:

- Design calculations (project specific).
- Software tools.
- Acoustic design.
- Vibration.
- Fire design.
- Slab penetrations and installation details.
- EPD Environmental Performance Declaration.
- In-house CPD Seminars.

Tata Steel maintains a friendly technical help desk which is freely available to all Consulting Engineers and Contractors to assist with composite floor decking design issues.

For further information on our ComFlor® range of products, please contact our **Technical Department:** T: +44 (0) 1244 892199 E: technical.structuralproducts@ tatasteeleurope.com



RoofDek Steel and aluminium roof decks

Tata Steel offers the most comprehensive range of structural roof decking all under one UK manufacturer's roof; with steel profiles in specific gauges that are FM Approved. We also supply additional profiles to complement our UK-manufactured range from Tata Steel in Europe.

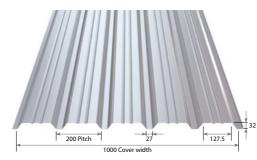
- The most extensive cost-effective and efficient range of roof deck profiles in the UK. Huge span range from 1m to 12m.
- E Technical support to aid design with Tedds RoofDek software and a free diaphragm service.
- Colorcoat HPS200 Ultra[®] pre-finished steel soffits offer significant additional protection for aggressive internal environments.
- Colorcoat[®] High Reflect provides maximum reflectivity for exposed soffits.
- FM Approved steel roof deck.

The RoofDek range

Trapezoidal profiles 32mm to 60mm deep

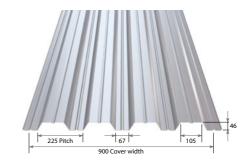
- Developed to optimise the designer's needs for efficiency, aesthetics and structural performance.
- RoofDek D35 and D46 can be supplied crimp curved down to 400mm radius.

RoofDek D32S



- Economy profile for use on purlins.
- Span range 0.6m to 2m.
- Steel 0.70mm, 0.90mm, 1.20mm galvanised or interior liner white finish.
- Available with Colorcoat[®] High Reflect.

RoofDek D46



- Efficient deck for use on purlins or main steel.
- Span range 2m to 3.5m.
- Steel 0.70mm, 0.90mm, 1.20mm galvanised or interior liner white finish.
- Colorcoat HPS200 Ultra® pre-finished steel 0.70mm.
- Aluminium 0.90mm and 1.20mm.
- Available with Colorcoat® High Reflect.

Roofing applications suitable for use on RoofDek:

- Single ply membrane.
- Standing seam systems.
- Green roofs.
- Slates and tiles.
- Three ply felt.
- Asphalt.

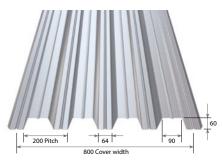
- All can be self curved to 40m to 85m radius depending on profile and finish.
- Suitable for diaphragm design applications.

RoofDek D35



- Ideal for single ply on purlins.
- Span range 1.5m to 2.5m.
- Steel 0.70mm, 0.90mm, 1.20mm galvanised or interior liner white finish.
- Aluminium 0.90mm and 1.20mm.
- Available with Colorcoat[®] High Reflect.

RoofDek D60

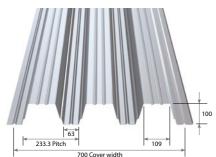


- Strong midspan profile for use on purlins or main steel.
- Span range 2.5m to 4m.
- Steel 0.70mm, 0.90mm, 1.20mm galvanised or interior liner white finish.
- Colorcoat HPS200 Ultra® pre-finished steel 0.70mm.
- Aluminium 0.90mm and 1.20mm.
- Available with Colorcoat[®] High Reflect.

Decks to span between main frames

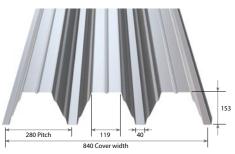
- Extensive structural roof deck range to span cleanly between main frames.
- Eliminates the cost and visual clutter of purlins and purlin bracing.
- By utilising diaphragm design, provided free of charge by Tata Steel, cross bracing can also be eliminated.

RoofDek D100



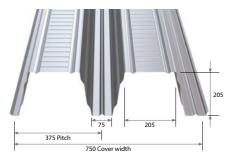
- Robust long span deck.
- Span range 4m to 6m.
- Steel 0.70mm, 0.90mm, 1.20mm galvanised or interior liner white finish.
- Colorcoat HPS200 Ultra® pre-finished steel 0.70mm.
- Aluminium 0.90mm and 1.20mm.
- Available with Colorcoat[®] High Reflect.

RoofDek D153



- Big brother to D137, extending span range.
- Span range 5m to 8m.
- Steel 0.75mm, 0.88mm, 1.25mm interior liner white finish.

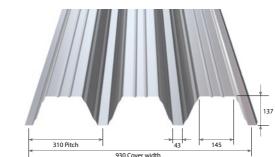
RoofDek D200



- Ultimate spanning ultra strong profile.
- Span range 9m to 11m; 12m for light load roofs.
- Steel 0.88mm, 1.25mm, 1.50mm interior liner white finish.

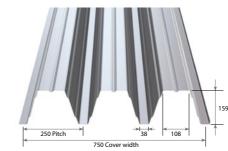
- Provides a beautiful clean uncluttered interior roof aesthetic that requires no ceilings.
- Supported by Tata Steel's technical service, providing full structural calculations to BS EN 1993-1-3 for steel and to BS EN 1999-1-4 for aluminium profiles.

RoofDek D137



- Optimised low deflection design.
- Span range 4.5m to 7m.
- Steel 0.90mm, 1.25mm interior liner white finish.

RoofDek D159



- Strong and stiff profile for reliable long span performance.
- Span range 6m to 9m.
- Steel 1.25mm with interior liner white finish.
- Aluminium 1.50mm.
- Available with Colorcoat[®] High Reflect.

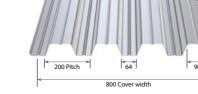


For further information of our RoofDek products, please contact our Technical Department: T: +44 (0) 1244 892199 E: technical.structuralproducts@tatasteeleurope.com www.tatasteeleurope.com

Acoustic profiles

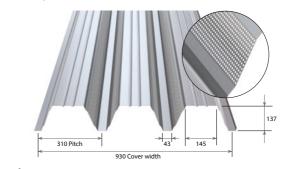
- Perforated web roof decking to provide acoustic absorption and structural support.
- RoofDek's tried and tested acoustic profiles achieve sound absorption ratings from A–D.
- Acoustic test data for absorption performance available.
- Open area as indicated below





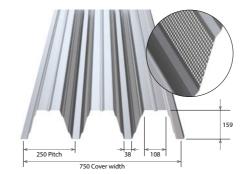
19.6% of cover area.13.9% of exposed area.

RoofDek D137 perforated



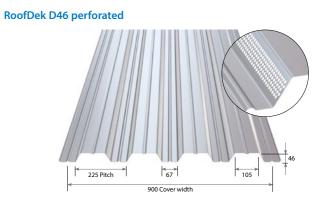
11.5% of cover area.7.0% of exposed area.

RoofDek D159 perforated



14.2% of cover area.7.6% of exposed area.

32



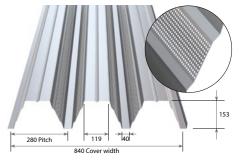
- 13.1% of cover area.
- 10.8% of exposed area.

RoofDek D100 perforated



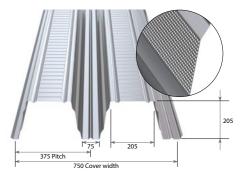
- 21.1% of cover area.
- 13.3% of exposed area.

RoofDek D153 perforated



- 11.0% of cover area.
- 6.2% of exposed area.

RoofDek D200 perforated

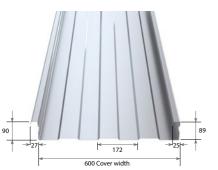


- 10.0% of cover area.
- 5.0% of exposed area.

Liner trays

Structural liner trays span across the main steels to provide a neat planar inner surface.

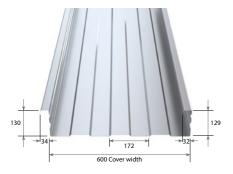
RoofDek HLT90/600



Span range 3m to 4m.

Steel 0.75mm, 1.00mm, 1.25mm with interior liner white finish.

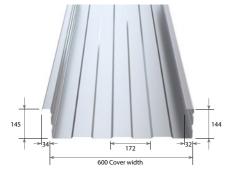
RoofDek HLT130/600



Span range 4m to 6m.

Steel 0.75mm, 1.00mm, 1.25mm with interior liner white finish.

RoofDek HLT145/600



Span range 5m to 6m*.

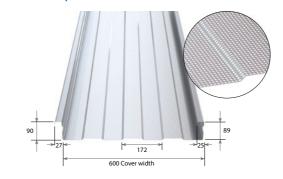
- Steel 0.75mm, 1.00mm, 1.25mm with interior liner white finish.
- * Limited by maximum sheet length of 12m.

Design software and online RoofDek selector

RoofDek Analysis Tedds Software enables a full deck analysis to achieve optimum design.

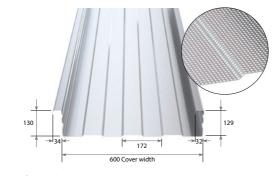
RoofDek online selector provides a fast deck selection to find the right RoofDek profile Visit: www.tatasteeleurope.com/roofdek Suitable for both roof and wall applications to support all roofing types and cladding.

RoofDek HLT90/600 perforated



- Trough peforated.
- Open area 18.8%.

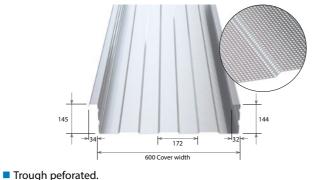
RoofDek HLT130/600 perforated



Trough peforated.

Open area 18.8%.

RoofDek HLT145/600 perforated



Open area 18.8%.

Professional support (T: 01244 892199) Sus

Tata Steel maintains a friendly technical help desk which is freely available to all Consulting Engineers and Contractors to assist with roof decking design issues.

Design calculations and diaphragm design

The technical team are able to provide design calculations for live, dead, wind and snow drift loads and where required, diaphragm design calculations.

Sustainable roof deck

Factory produced with the backing of a robust quality management and environmental management standards. Full traceability of all components. Certified 'Very Good' to BREs responsible sourcing standard BES 6001.







For more information on our building envelope or structural products, please contact: T: +44 (0) 1244 892199

For building envelope products: E: technical.envelopeproducts@tatasteeleurope.com

For structural products: E: technical.structuralproducts@tatasteeleuorpe.com

www.tatasteeleurope.com

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