

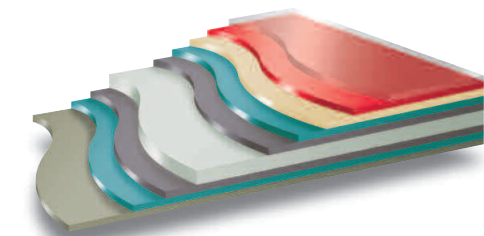
TATA STEEL



Colorcoat Prisma™

Aesthetics that last.
Guaranteed.

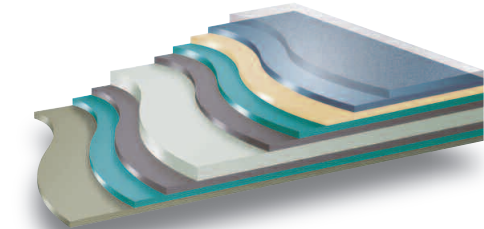
Performance



Key

15µm additional protective clear layer (Standard, Matt or Sparkle)	Base steel substrate
25µm coloured layer with polyamide beads	Galvalloy® metallic coating
25µm corrosion resistant primer	Pre-treatment
Pre-treatment	High performance backing coat
Galvalloy® metallic coating	

Colorcoat Prisma™ Textured



Key

20µm additional protective textured clear layer	Base steel substrate
25µm coloured layer with polyamide beads	Galvalloy® metallic coating
25µm corrosion resistant primer	Pre-treatment
Pre-treatment	High performance backing coat
Galvalloy® metallic coating	

Reaction to fire performance

Colorcoat Prisma™ has been tested to EN 13823 and EN ISO 1716 and can be classified in accordance with EN 13501-1 as A1. This classification is valid for all gauges $\geq 0.4\text{mm}$ for all colours in the product range for single sided product.

For double sided products contact Tata Steel.

Performance of roof coverings

Colorcoat Prisma™ is deemed to satisfy, without the need for further testing, the requirements for external fire performance of roof covering products in accordance with Commission Decision 2000/553/EC. This is valid for all gauges $\geq 0.4\text{mm}$ and for all colours in the product range for single and double sided products.

Typical properties

Colorcoat Prisma™		Test Standard	
Nominal organic coating thickness			
Solids, Metallics, Matts	(µm)* 65		EN 13523-1
Textured	(µm)* 70		EN 13523-1
Specular gloss (60°):			
Solids, Metallics	(%) 25–35		EN 13523-2
Matts	(%) <10		EN 13523-2
Textured	(%) <5		EN 13523-2
Scratch resistance:			
Solids, Metallics, Matts	(g) >3000		EN 13523-12
Textured	(g) >3000		EN 13523-12
Abrasion resistance:			
(Taber CS10 2x 1kg, 250 Rev)			
Solids, Metallics, Matts	(mg) <15		EN 13523-16
Textured	(mg) <18		EN 13523-16
Flexibility:			
Minimum bend radius	(T) 0.5T@16°C		EN 13523-7
Reverse impact	(J) ≥ 18		EN 13523-5
Adhesion (cross hatch)	(%) 100		EN 13523-6
Pencil hardness	H		EN 13523-4
Maximum continuous operating temperature	(°C) 90		
Corrosion resistance:			
Salt spray	(h) 1000		EN 13523-8
Humidity	(h) 5000		EN 13523-25
Corrosion resistance category	RC5+		EN 10169:2022
UV category	Ruv5		EN 10169:2022
Internal environment classification	CPI5		EN 10169:2022

*µm = micron

Notes

1. The figures contained in this table are typical properties and do not constitute a specification. Tested in accordance with EN 13523. For details on test methods visit www.colorcoat-online.com
2. For health and safety datasheets contact Tata Steel..

Reaction to fire performance

Colorcoat Prisma™ - Textured has been tested to EN 13823 and EN ISO 1716 and can be classified in accordance with EN 13501-1 as A2-s1, d0. This classification is valid for all gauges $\geq 0.46\text{mm}$ and for all colours in the product range for single sided product.

Performance of roof coverings

Colorcoat Prisma™ - Textured is deemed to satisfy, without the need for further testing, the requirements for external fire performance of roof covering products in accordance with Commission Decision 2000/553/EC. This is valid for all gauges $\geq 0.4\text{mm}$ and for all colours in the product range for single sided product.

Product warranty

Tata Steel can provide a warranty on a project by project basis for standard roof and wall cladding applications upon completion of a statement of performance application form. The factors which influence the warranty period are geographic location, colour choice, the building environment and use and whether the application is roof or wall.

Please contact Tata Steel for more information about specific warranty periods and conditions before selecting colours for your location.



Independent certification

British Board of Agrément Certificate

The long-term performance of Colorcoat Prisma™ has been recognised within the BBA certificate 91/2717 and relates to the product use as external roofing and cladding or internal lining. "Colorcoat Prisma™ coating and metal treatment will protect the steel substrate against corrosion for a period in excess of 40 years in normal industrial, urban and rural environments in the UK."

Testing according to GOST standards

Colorcoat Prisma™ has been tested by MISIS in Russia which concluded that when used in difficult climatic conditions (e.g. coastal areas) of medium aggressive environments, it should have its functional and aesthetic properties unchanged in Southern and Northern Russian regions with temperatures ranging from +60 to -60 degrees C.

U-mark certification

Colorcoat Prisma™ has been tested by the Karlsruher Institut für Technologie according to DIN 55634.

ASTM

Colorcoat Prisma™ has been tested according to a variety of key ASTM test standards for corrosion and UV resistance. For markets that require ASTM test results please contact us.

ITB

The performance of Colorcoat Prisma™ has been validated in Poland by the Institute of Building Technology (ITB). This validates the category RC5+ and the UV resistance in the Ruv5 category according to PL-EN 10169:2022 for the standard Solid, Metallic and Matt colours in the range.



Sustainability and services

Sustainability

At Tata Steel we are committed to making the products society needs and to making them in the most responsible way. Our commitment to sustainability also means we actively manage our impacts and contribution throughout the full life of our products – with our suppliers, within our own operations and through the supply chains we serve.

BES 6001 Responsible Sourcing

Colorcoat Prisma™ is certified to the Building Research Establishment's standard for responsible sourcing of materials BES 6001. This reinforces our commitment to sustainability.

Environmental Product Declaration (EPD)

Tata Steel have published an Environmental Product Declaration (EPD) for Colorcoat Prisma™ that complies with EN 15804 and ISO 14025. Please visit www.colorcoat-online.com/epd for further details.

Shotton sustainability commitment

Launched in 2022, Tata Steel's Shotton sustainability commitment set out a long-term strategy focussing on four key pillars: reducing the site's carbon footprint; developing products that enable sustainable construction; biodiversity; and maximising material efficiency and achieving zero onsite waste. Our manufacturing site has an environmental management system which has been certified to ISO 14001 as well as ISO 50001 Energy Management.

Product options

Specification

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

Galvalloy®

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

Other colours

Due to the exceptional colour performance of Colorcoat Prisma™, other colours are available that are not shown on the colour card - these include heavily pigmented colours such as reds and oranges subject to minimum order quantities and additional costs.

Double sided option

Colorcoat Prisma™ is provided with a high performance backing coat as standard, but is also available in double sided in a limited range of colours for the reverse side.

For more information please contact the Colorcoat Connection® helpline on +44 (0) 1244 892434.

Colorcoat® services

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

Colorcoat® technical support team

If you are building to specific sustainability credentials or performance criteria, our dedicated team are available to assist you with queries relating to a range of metal building envelope systems. Visit www.colorcoat-online.com to find out who the representative is for your region.

Metal hand samples

Metal hand samples are available for all colours. For a truer representation of colour and effect, please obtain metal hand samples online at www.colorcoat-online.com/samples

REACH

Colorcoat Prisma™ is produced with both the surface treatment and primer free of chromates including hexavalent chromate (substances included in the Annex XIV list of REACH) and is fully compliant with the current REACH legislation. To assist customers, updates of REACH obligations as well as product health and safety datasheets are available.



Colour support

Colour consistency

If tonal consistency is critical, all cladding for a single elevation should come from the same production batch. All metallic shades exhibit a degree of directionality.

Matching components

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

Repertoire®

As an additional service, whether you want your building to stand out, or blend with the surroundings, we can create a unique identity for your building. Through our Repertoire® colour consultancy service we can match almost any solid colour for walls or roofs of your building, with a minimum order quantity of 5,000m². We can work from either physical swatches or reference standards. This includes bright and heavily pigmented shades. Any Solid or Metallic colour on the colourcard can be provided with a Standard, Textured or Sparkly clearcoat subject to a minimum order quantity of 5000m². Any approved Repertoire® solid colour will be subject to the statement of performance process on a case by case basis.

Solar Reflective pigment

A small selection of colours on the colourcard are available with a Solar Reflective pigment option for an improved Solar Reflective Index (SRI) rating and a reduction on surface temperatures. For more information please contact us.



Colour availability

Colour reference table

Colour	RAL	SRI	SSST	LRV %
Pegasus	*	28	72	21.2
Aquarius	*	50	64	37.9
Atlantis	*	10	78	7.5
Helios	*	19	75	13.4
Kronos	*	2	82	6.5
Sirius	9006	50	63	49.2
Orion	9007	24	73	22.5
Zeus	*	19	75	17.7
Ephyra	*	38	68	31.1
Ariana	*	17	76	17.0
Hamlet	9002	73	55	68.4
Cream	1015	77	53	67.3
Oxide Red†	3009	20	75	8.6
Sargasso	5003	5	81	6.5
Black	9005	0	82	4.5
White	9010	95	46	85.6
Oyster	7035	61	60	58.7
Alaska Grey	7000	21	74	25.5
Slate Grey	7012	11	78	14.6
Anthracite	7016	5	81	8.5
White Sparkle	9010	92	48	84.1
Black Sparkle	9005	2	82	6.7
Seren Oren	*	45	65	25.5
Seren Aurum	*	32	70	29.6
Seren Champagne	*	66	57	55.8
Seren Titanium	*	44	66	40.1
Seren Mirage	*	24	73	25.1
White Matt	9010	91	48	86.3
Sirius Matt	9006	52	63	45.5
Orion Matt	9007	20	75	21.3
Zeus Matt	*	20	74	17.4

RAL references

4 digit numbers are RAL Classic references.

RAL reference numbers shown in the table, represent the nearest colours and are not exact matches to Colorcoat Prisma™.

* These colours do not have equivalent RAL references.

† Price extra applies.

SRI – Solar Reflective Index as per ASTM E 1980.

SSST – Steady State Surface Temperature as per ASTM E 1980.

LRV – Light Reflective Values to BS 8493:2008+A1:2010.

Note: For Textured colour data please contact us.

Solar Reflective Index (SRI) and Steady State Surface Temperature (SSST)

The Solar Reflectance Index and Steady State Surface Temperature has been determined for all 31 standard colours according to ASTM E 1980 using the medium wind speed coefficient and values for reflectance and emissivity. Solar reflectivity or reflectance is the ability of a material to reflect solar energy from its surface back into the atmosphere, where the higher the SRI value the greater the ability of the Colorcoat Prisma™ colour to reflect the solar radiation.

Depending on the pigment selection, the colours have a different SSST value with white colours having the lowest value, black the highest value and the other colours somewhere in between these extremities.

Thermal Emissivity (to ASTM E 1980) values are also available for the standard colours. Please contact the Colorcoat Connection® helpline for these.



Image courtesy of Atlas Weathering Services Group – South Florida laboratory.

For further details visit:
www.colorcoat-online.com

Colorcoat Prisma™

Introduction

Colorcoat Prisma™ demonstrates a step change by utilising cutting edge three layer manufacturing technology to create an optimised, robust, chrome free pre-finished steel product.

This development in manufacturing and extensive testing, allows us to offer Colorcoat Prisma™ in a greatly enhanced range of colours and effects, including natural metal shades.

Colorcoat Prisma™ not only uniquely pushes the boundaries for UV performance but also outperforms the highest European corrosion resistance standards. This makes it the ideal choice for commercial, retail, warehouse, public sector and superior aesthetic buildings that are truly built to last.

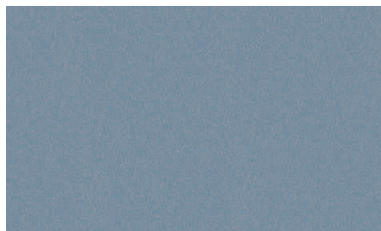
Product benefits

- 3 layer coating technology, providing enhanced aesthetics, long term performance and durability.
- Meets Ruv5 and RC5+ as per EN 10169:2022 proving excellent colour and gloss retention and corrosion resistance.
- Optimised Galvalloy® metallic coating for ultimate corrosion resistance and cut edge protection.
- Wide range of colours including bright and vibrant shades through our Repertoire® colour matching service.
- Independently tested for liberation of volatile organic compounds (VOC) against EN ISO 16000-9 and achieved an A+ rating.
- Fully REACH compliant & free of chromates including hexavalent chrome.
- Made in the UK. Certified to BES 6001 Responsible Sourcing Standard.
- Supports BREEAM & LEED certification.
- Robust and durable topcoat for easier handling and processing.

Special metallics



Pegasus



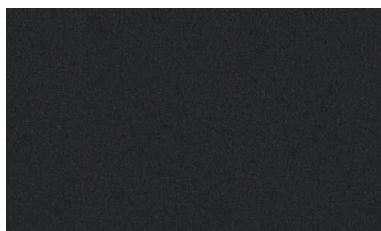
Aquarius



Atlantis



Helios

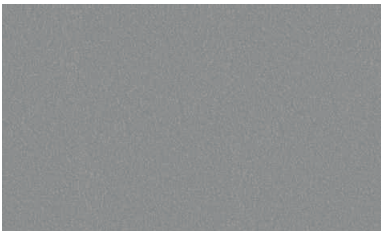


Kronos

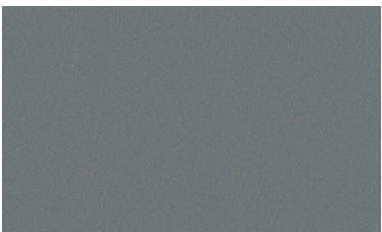
Special metallics



Sirius (RAL 9006)



Orion (RAL 9007)



Zeus

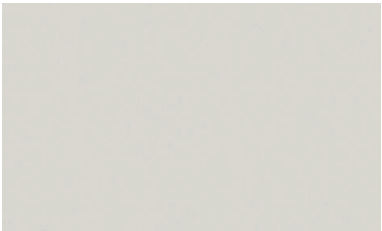


Ephyra

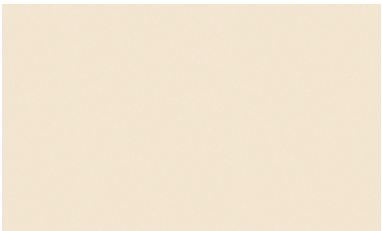


Ariana

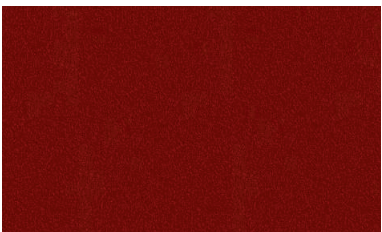
Solid colours



Hamlet (RAL 9002)



Cream (RAL 1015)



Oxide Red† (RAL 3009)



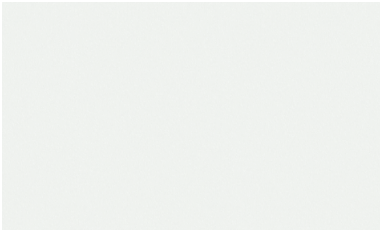
Sargasso (RAL 5003)



Black (RAL 9005)

†Price extra applies.

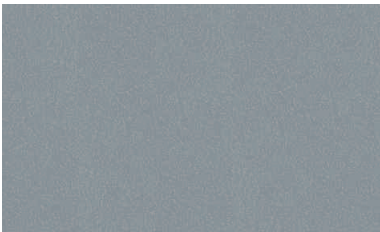
Solid colours



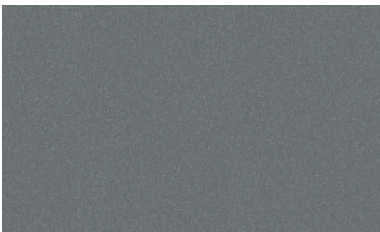
White (RAL 9010)



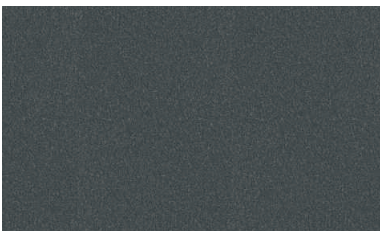
Oyster (RAL 7035)



Alaska Grey (RAL 7000)

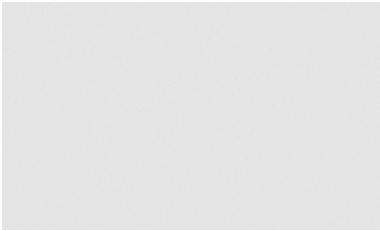


Slate Grey (RAL 7012)



Anthracite (RAL 7016)

Sparkle



White Sparkle



Black Sparkle

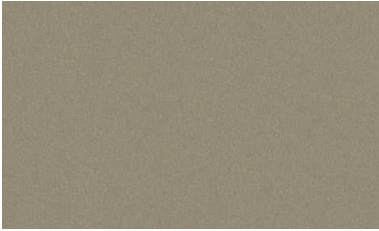


As well as the standard colours that appear on the colourcard, Colorcoat Prisma™ is available in bright and vibrant shades through the Repertoire® colour matching service.

Seren colours



Seren Oren



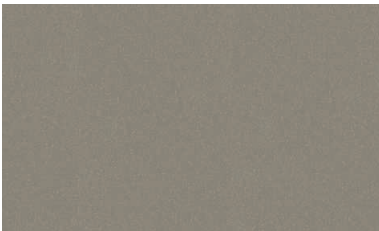
Seren Aurum



Seren Champagne

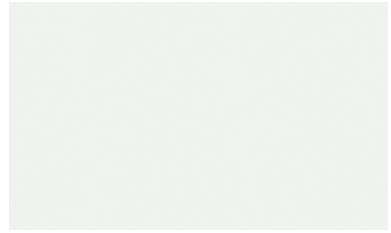


Seren Titanium



Seren Mirage

Matt colours



White Matt (RAL 9010)



Sirius Matt (RAL 9006)



Orion Matt (RAL 9007)



Zeus Matt

For further details visit:
www.colorcoat-online.com or ring
the Colorcoat Connection® helpline
on +44 (0) 1244 892434

www.colorcoat-online.com

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