

TATA STEEL



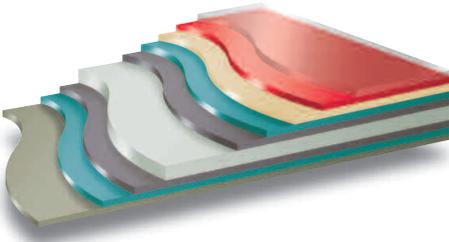
Colorcoat Prisma™
Aesthetics that last.
Guaranteed.

Performance

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 10346:2015. The carefully developed proportions of Zinc and Aluminium in Galvalloy® offers a combination of increased barrier and sacrificial protection when compared with conventional Hot Dip Galv (HDG) coatings and provides unrivalled corrosion protection, even at the cut edges.

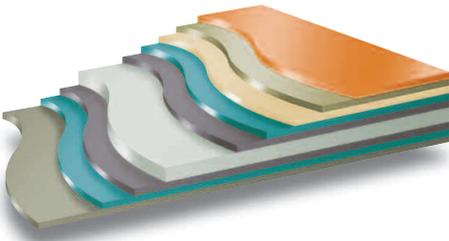
Colorcoat Prisma™ Solid, Metallic & Matts



Key

■ 15µm additional protective 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	

Colorcoat Prisma™ Elements



Key

■ 10µm additional protective clear or coloured layer	■ Base steel substrate
■ 20µm coloured or base polymer layer	■ Galvalloy® metallic coating
■ 10µm corrosion resistant primer	■ Pre-treatment
■ Pre-treatment	■ High performance backing coat
■ Galvalloy® metallic coating	

Typical properties

Colorcoat Prisma™		Test Standard	
Nominal organic coating thickness			
Solids, Metallics, Matts	(µm)*	65	EN 13523-1
Elements	(µm)*	40	EN 13523-1
Specular gloss (60°):			
Solids, Metallics	(%)	25-35	EN 13523-2
Matts	(%)	<10	EN 13523-2
Elements	(%)	30-40	EN 13523-2
Scratch resistance:			
Solids, Metallics, Matts	(g)	>3000	EN 13523-12
Elements	(g)	>2500	EN 13523-12
Abrasion resistance: (Taber, 250 rev, 2kg, CS10)			
Solids, Metallics, Matts	(mg)	<15	EN 13523-16
Elements	(mg)	<15	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)	1500	EN 13523-26
Corrosion resistance category		RC5 CPI5	EN 10169
UV category		Ruv4	EN 10169

*µm = micron

Notes

- 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
- For health and safety datasheets contact Tata Steel.

Fire performance

Reaction to fire

Colorcoat Prisma™ is classified as A1 in accordance with EN 13501-1:2007 and A1:2009.

Resistance to fire

For products covered by EN 14782:2005 Colorcoat Prisma™ is deemed to satisfy, without the need for further testing, the requirements for external fire performance of roof covering product in accordance with Commission Decision 2000/553/EC.

Product warranty

Tata Steel can provide a warranty on a project basis. 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”.*

Testing according to Russian 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™ is being tested by the Karlsruher Institut für Technologie according to DIN 55928-8 and DIN 55634.

ASTM

Colorcoat Prisma™ has also 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.



Sustainability

System environmental assessment

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

BES 6001 Responsible Sourcing

At Tata Steel we are committed to making the products society needs and to making them in the most responsible way. Our commitment to sustainability also means we actively manage our impacts and contribution throughout the full life of our products - with our suppliers, within our own operations, through the supply chains we serve and by taking responsibility for recycling steel. Colorcoat Prisma™ is certified to the Building Research Establishment's standard for responsible sourcing of materials BES 6001. This reinforces our commitment to sustainability.

BREEAM and LEED

EN15804 compliant Environmental Product Declarations for Supply Chain Partner cladding systems using Colorcoat Prisma™ and independent third party performance accreditation fully supports your building certification schemes such as LEED and BREEAM.

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.



Photographer: Harry Noback



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

Our dedicated team can offer you advice on a range of metal building envelope systems to ensure you get the right solution for your building. 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



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 and Element colours 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.



Colour availability

Colour reference table

Colour	BS	RAL	SRI	SSST
Pegasus		*	28	72
Aquarius		*	50	64
Atlantis		*	10	78
Helios		*	19	75
Kronos		*	2	82
Sirius		9006	50	63
Orion		9007	24	73
Zeus		*	19	75
Ephyra		*	38	68
Ariana		*	17	76
Hamlet		9002	73	55
Cream		1015	77	53
Oxide Red†		3009	20	75
Sargasso		5003	5	81
Black	00E53	9005	0	82
White	00E55	9010	95	46
Oyster		7035	61	60
Alaska Grey		7000	21	74
Slate Grey		7012	11	78
Anthracite		7016	5	81
Seren White		*	90	48
Seren Silver		*	49	64
Seren Gold		*	51	63
Seren Copper		*	41	67
Seren Black		*	0	83
White Matt		9010	91	48
Sirius Matt		9006	52	63
Orion Matt		9007	20	75
Zeus Matt		*	20	74

RAL references

4 digit numbers are RAL Classic references.

British Standard or 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 BS/RAL references.

† Price extra applies.

SRI – Solar Reflective Index as per ASTM E 1980.

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

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

The Solar Reflectance Index and Steady State Surface Temperature has been determined for all 29 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.



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

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.

The contemporary colour range includes the Elements selection of natural metal colours as well as a wide selection of inspired Matt shades such as Matt Metallics ideal for facade applications.

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

- Revolutionary 3 layer coating technology, providing enhanced aesthetics and long term performance and durability.
- Optimised Galvalloy® metallic coating for ultimate corrosion resistance and cut edge protection.
- 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.
- Fully supports BREEAM & LEED certification.
- Robust and durable topcoat for easier handling and processing.
- Reverse side branding making traceability easy.

Special metallics



Pegasus



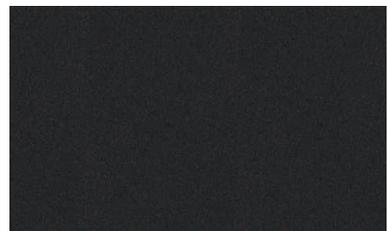
Aquarius



Atlantis



Helios



Kronos

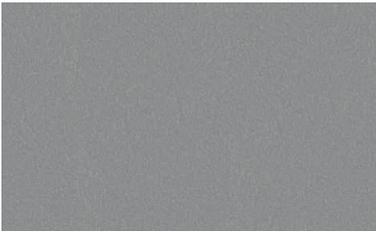
Solid colours



Sirius (RAL 9006)



Hamlet (RAL 9002)



Orion (RAL 9007)



Cream (RAL 1015)



Zeus



Oxide Red† (RAL 3009)



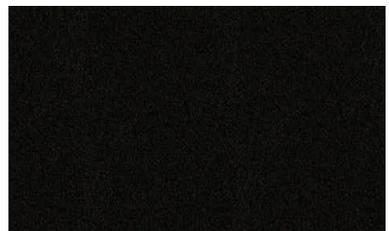
Ephyra



Sargasso (RAL 5003)

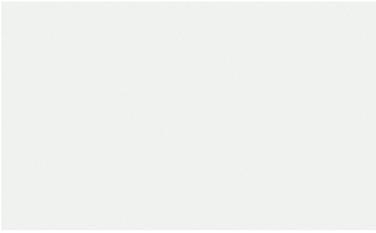


Ariana



Black (RAL 9005)

Elements



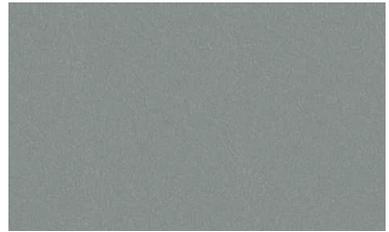
White (RAL 9010)



Seren White



Oyster (RAL 7035)



Seren Silver



Alaska Grey (RAL 7000)



Seren Gold



Slate Grey (RAL 7012)



Seren Copper

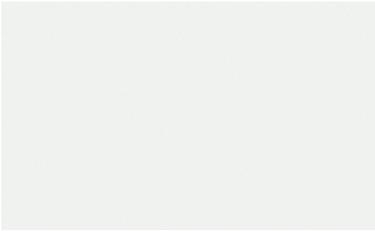


Anthracite (RAL 7016)

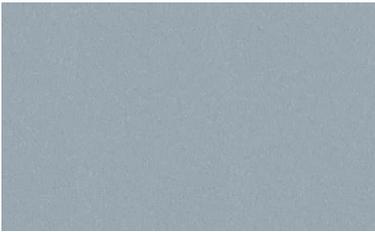


Seren Black

Matt colours



White Matt (RAL 9010)



Sirius Matt (RAL 9006)



Orion Matt (RAL 9007)



Zeus Matt

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.

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.



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