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TATA STEEL COLORCOAT PRE-FINISHED STEEL COIL AND SHEET

COLORCOAT HPS200 ULTRA

This Agrément Certificate Product Sheet⁽¹⁾ relates to Colorcoat HPS200 Ultra, a pre-finished steel coil and sheet, for use in its profiled form as external roofing and cladding or internal lining.

(1) Hereinafter referred to as 'Certificate'.

CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.

KEY FACTORS ASSESSED

Weathertightness — the profiled product has adequate resistance to the passage of moisture (see section 6). **Resistance to wind uplift** — the profiled product can adequately resist the effects of wind suction (see section 7).

Properties in relation to fire — the product has a reaction to fire classification of C-s2, d0 to BS EN 13501-1 : 2018 and its use on walls is restricted. In roofs, the product, used in isolation, has a B_{ROOF}(t4) classification to BS EN 13501-5 : 2016 and is unrestricted in terms of proximity to a boundary. However, restrictions may apply to completed roof assemblies,

depending on the other materials/components used and the overall construction (see section 8). **Location** — the product is suitable for use in external locations where there is little possibility of impact or abrasion damage (see section 9).

Workability — the product can be worked by conventional techniques and is capable of withstanding a OT bend without damage (see section 10).

Durability — under normal conditions, the product will perform effectively with a life expectancy in excess of 40 years. Its anticipated decorative life will vary depending on the area of use (see section 12).

The BBA has awarded this Certificate to the company named above for the product described herein. This product has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of Third issue: 26 February 2021

Originally certificated on 1 July 2010

The BBA is a UKAS accredited certification body – Number 113.

Hardy Giesler

Chief Executive Officer

The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bbacerts.co.uk **Readers MUST check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.** Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.

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Product Sheet 8





Regulations

Standard:

Comment:

In the opinion of the BBA, Colorcoat HPS200 Ultra, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements of the following Building Regulations (the presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):

	The Bui	Iding Regulations 2010 (England and Wales) (as amended)
Requirement: Comment:	A1	Loading The product can contribute to satisfying this Requirement. See section 7 of this Certificate.
Requirement: Comment:	B2(1)	Internal fire spread (linings) The product is restricted by this Requirement. See sections 8.1, 8.2 and 8.12 of this Certificate.
Requirement: Comment:	B3(2)	Internal fire spread (structure) The product may be restricted by this Requirement. See section 8.4 of this Certificate.
Requirement: Comment:	B3(4)	Internal fire spread (structure) The product is restricted by this Requirement. See section 8.3 of this Certificate.
Requirement: Comment:	B4(1)	External fire spread The product is restricted by this Requirement. See sections 8.1, 8.2 and 8.9 of this Certificate
Requirement: Comment:	B4(2)	External fire spread The product may be restricted by this Requirement. See sections 8.6 to 8.8 of this Certificate.
Requirement: Comment:	C2(b)	Resistance to moisture The product can contribute to satisfying this Requirement. See section 6 of this Certificate.
Regulation : Comment:	7(1)	Materials and workmanship The product is acceptable. See section 12 and the <i>Installation</i> part of this Certificate.
Regulation: Comment:	7(2)	Materials and workmanship The product is restricted by this Regulation. See sections 8.1, 8.2 and 8.9 of this Certificate.
	The Bui	Iding (Scotland) Regulations 2004 (as amended)
Regulation: Comment:	8(1)(2)	Durability, workmanship and fitness of materials The use of the product can contribute to a construction satisfying this Regulation. See sections 11 and 12 and the <i>Installation</i> part of this Certificate.
Regulation:	9	Building standards applicable to construction

Standard: Standard: Comment:	2.1 2.2	Compartmentation Separation The products may be restricted by these Standards, with reference to clauses 2.1.15 ⁽²⁾ , 2.2.7 ⁽²⁾ and 2.2.10 ⁽¹⁾ . See section 8.4 of this Certificate.	
Standard: Comment:	2.3	Structural protection The product may be restricted by this Standard, with reference to clauses $2.2.7^{(2)}$ and $2.2.10^{(1)}$. See sections 8.1, 8.2 and 8.13 of this Certificate.	
Standard: Comment:	2.4	Cavities The product may be restricted by this Standard, with reference to clauses $2.4.2^{(1)(2)}$, $2.4.3^{(2)}$, $2.4.7^{(1)}$ and $2.4.9^{(2)}$. See section 8.3 of this Certificate.	
Standard: Comment:	2.5	Internal linings The product is restricted by this Standard, with reference to clause 2.5.1 ⁽¹⁾⁽²⁾ . See sections 8.1, 8.2 and 8.13 of this Certificate.	
Standard: Comment:	2.6	Spread to neighbouring buildings The product is restricted by this Standard, with reference to clauses $2.6.4^{(1)(2)}$, $2.6.5^{(1)}$ and $2.6.6^{(2)}$. See sections 8.1, 8.2, 8.10 and 8.11 of this Certificate.	
Standard: Comment:	2.7	Spread on external walls The product is restricted by this Standard, with reference to clause $2.7.1^{(1)(2)}$. See sections 8.1, 8.2, 8.10 and 8.11 of this Certificate.	
Standard: Comment:	2.8	Spread from neighbouring buildings The product may be restricted by this Standard, with reference to clause 2.8.1 ⁽¹⁾⁽²⁾ . See sections 8.6 and 8.7 of this Certificate.	
Standard: Comment:	3.10	Precipitation The product can contribute to satisfying this Standard, with reference to clauses $3.10.1^{(1)(2)}$, $3.10.5^{(1)(2)}$ and $3.10.7^{(1)(2)}$. See section 6 of this Certificate.	
Standard: Comment:	7.1(a)	Statement of sustainability The product can contribute to satisfying the relevant requirements of Regulation 9, Standards 1 to 6, and therefore will contribute to a construction meeting a bronze level of sustainability as defined in this Standard.	
Regulation: Comment:	12	Building standards applicable to conversions All comments given for this product by Regulation 9 also apply to this Regulation, with reference to clause $0.12.1^{(1)(2)}$ and Schedule $6^{(1)(2)}$.	
e [7]		 Technical Handbook (Domestic). Technical Handbook (Non-Domestic). 	
	The Build	ing Regulations (Northern Ireland) 2012 (as amended)	
Regulation: Comment:	23(a)(i)(iii)	Fitness of materials and workmanship The product is acceptable. See section 12 and the <i>Installation</i> part of this Certificate.	
Regulation: Comment:	28(b)	Resistance to moisture and weather The product can contribute to satisfying this Regulation. See section 6 of this Certificate.	
Regulation: Comment:	30	Stability The product can contribute to satisfying this Requirement. See section 7 of this Certificate.	

Regulation: Comment:	34(a)(b)	Internal fire spread — Linings The product is restricted by this Regulation. See sections 8.1, 8.2 and 8.12 of this Certificate.
Regulation: Comment:	35(4)	Internal fire spread — Structure The product may be restricted by this Regulation. See section 8.3 of this Certificate.
Regulation:	35(2)	Internal fire spread — Structure The product may be restricted by this Regulation. See section 8.4 of this Certificate.
Regulation: Comment:	36(a)	External fire spread The product is restricted by this Regulation. See sections 8.1, 8.2 and 8.12 of this Certificate.
Regulation: Comment:	36(b)	External fire spread The product may be restricted by this Regulation. See sections 8.6 to 8.8 of this Certificate.

Construction (Design and Management) Regulations 2015 Construction (Design and Management) Regulations (Northern Ireland) 2016

Information in this Certificate may assist the client, designer (including Principal Designer) and contractor (including Principal Contractor) to address their obligations under these Regulations.

See section: 3 *Delivery and site handling* (3.2 and 3.4) of this Certificate.

Technical Specification

1 Description

1.1 Colorcoat⁽¹⁾ HPS200⁽¹⁾ Ultra⁽¹⁾ consists of Galvalloy⁽¹⁾, 95:5% zinc/aluminium alloy coated steel, with a coating weight of 255 g·m⁻², manufactured to BS EN 10346 : 2015, coated on the face side with a primer and Colorcoat HPS200 Ultra plastisol coating to a total coating thickness of 200 μ m. The pre-treatment and primer are free of chromates, including hexavalent chrome.

1.2 The product is available in a range of standard colours (see Table 1). Additional colours can be produced using the Certificate holder's Repertoire⁽¹⁾ colour consultancy service.

(1) Colorcoat, Galvalloy, HPS200 Ultra and Repertoire are registered trademarks of Tata Steel UK Limited.

Table 1 Colour range					
Colour/Colour category	BS)	RAL	Colour/Colour category	BS	RAL
Signature			Classics		
Alaska Grey		7000	Barn Red		030 30 40
Albatross	18B17	240 80 05	Burano		3004
Anthracite		7016	Chili	04E56	3000
Ardenne		7022	Heritage Green		6002
Black	00E53	9005	lvy		170 20 10
Goosewing Grey	10A05	7038	Jade		150 50 20
Hamlet		9002	Juniper Green	12B29	140 20 20
Honesty	10C31	1015	Ocean Blue	18C39	220 30 25
Ice Blue		230 80 10	Petra	04D44	3013
Marlstone	10B15	1013	Raven		7021
Meadowland	12B17	100 80 20	Sargasso		5003
Merlin Grey	18B25	180 40 05	Solent Blue	18E53	240 40 40
Mole Brown		070 40 10	Terracotta	04C39	040 40 40
Moorland Green	12B21	100 60 20	Van Dyke Brown	08B29	8014
Mushroom	10B19	080 70 10	Wedgewood Blue	18C37	220 50 15
Olive Green	12B27	100 30 20	Matts		
Pure Grey		000 55 00	Alaska Grey Matt		7000
Straw		080 70 30	Anthracite Matt		7016
Svelte Grey	10B23	080 50 20	Green Grey Matt		150 40 10
White	00E55	9003	Oxidised Matt		050 20 10
			Terracotta Matt	04C39	040 40 40

1.3 The reverse side is coated with a 10 μm polyester system, a 100 μm plastisol finish, or the same finish as the face side.

1.4 Coils are available in widths of up to 1.65 m and thicknesses of between 0.4 and 1.6 mm.

2 Manufacture

2.1 In a coil-coating process, steel coil is degreased, chemically pre-treated and coated on the face and reverse sides.

2.2 As part of the assessment and ongoing surveillance of product quality, the BBA has:

- agreed with the manufacturer the quality control procedures and product testing to be undertaken
- assessed and agreed the quality control operated over batches of incoming materials
- monitored the production process and verified that it is in accordance with the documented process
- evaluated the process for management of nonconformities
- checked that equipment has been properly tested and calibrated
- undertaken to carry out the above measures on a regular basis through a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

2.3 The management system of the manufacturer has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2015 by Lloyd's Register Quality Assurance Limited (Certificate 10052850).

3 Delivery and site handling

3.1 The product is not usually delivered to site in coil form, but is formed into profiled sheets and flashings by specialist forming companies.

3.2 The profiled sheet is usually delivered to site on trailers and unloaded by crane. The site must have adequate access and a suitable surface for this traffic.

3.3 During transport, the edges and corners of the sheets must be protected against damage and the sheets should be restrained to prevent abrasion.

3.4 On site, sheets should be stored on a firm, dry base, on bearers at a maximum spacing of 900 mm, away from the possibility of damage, and covered to prevent the ingress of water. They should be stored as close as possible to the building where they are to be installed, and should be handled in accordance with the Manual Handling Operations Regulations 1992 (as amended).

3.5 When required for installation the sheets should be lifted from the stack rather than dragged across it.

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Colorcoat HPS200 Ultra.

Design Considerations

4 Use

4.1 Colorcoat HPS200 Ultra, after roll-forming or brake-pressing, is suitable for external use as roofing and cladding, or for internal use as a lining.

4.2 The product may also be used as a plain sheet for such purposes as small infill panels (provided these are sufficiently robust and properly secured).

5 Practicability of installation

The product is designed to be installed by operatives experienced with this type of product.

6 Weathertightness



The product, when incorporated into a roofing or cladding system designed and installed in accordance with conventional good practice and section 14 of this Certificate, will adequately resist the passage of moisture.

7 Resistance to wind uplift



The product, when incorporated into a cladding or roofing system designed by a suitably competent and experienced individual, and installed in accordance with conventional good practice and section 14 of this Certificate, can adequately resist the wind loads likely to be encountered in the UK.

8 Properties in relation to fire



8.1 The product has a reaction to fire classification⁽¹⁾ of C-s2, d0 to BS EN 13501-1 : 2018. This relates to the steel thicknesses \geq 0.46 mm and the full colour range referred to in section 1 of this Certificate, mounted with or without an air gap on to any A2 or better substrate at least 12 mm thick and with a density \geq 870 kg·m⁻³.

(1) Warrington fire report WF 431268, dated July 2020. Copies available from the Certificate holder.

8.2 This classification may not be achieved by other constructions, or in combination with other materials, such as insulation, and the performance of such constructions should be confirmed in accordance with the requirements of the documents supporting the national Building Regulations.

8.3 The Certificate holder has not declared a reaction to fire classification for the reverse side of the product (facing into a cavity) with a 10 μ m polyester finish, or the same finish as the face side. Cavity barriers should be provided in accordance with the requirements of the documents supporting the national Building Regulations taking this into account.

8.4 Where the products are to be carried over compartment walls, designers must ensure that the roof/wall junction detail provides sufficient resistance to fire penetrating into the neighbouring compartment.

8.5 Designers should refer to the relevant national Building Regulations and guidance for detailed conditions of use, particularly in respect of requirements for substrate fire performance, cavity barriers, service penetrations and combustibility limitations for other materials and components used in the overall construction (for example, thermal insulation).

External roofing



8.6 The product has a $B_{ROOF}(t4)$ classification⁽¹⁾ to BS EN 13501-5 : 2016 and BS EN 14782 : 2006. This applies to all roof pitches and the full thickness and colour range referred to in section 1 of this Certificate. See also section 8.7 of this Certificate.

(1) Report reference WFRGENT 19942C dated 22 April 2020.

8.7 This classification may not be achieved by other constructions and can also be affected by other components of the roof, eg insulation materials, substrates/decking and membranes. These constructions should therefore be evaluated by reference to the requirements of the documents supporting the relevant national Building Regulations and any consequent restrictions imposed by those documents, on a case-by-case basis. In the absence of a classification, these constructions should not be used within 20 metres of a boundary (24 metres in Scotland).



8.8 In Wales and Northern Ireland, designers may also refer to the relevant documents supporting the national Building Regulations for certain roof specifications that can achieve a notional $B_{ROOF}(t4)$ designation without testing and are consequently unrestricted.

External wall cladding



8.9 In England, Wales and Northern Ireland, the product may be used on buildings with no storey 18 m or more above the ground and 1 metre or more from a boundary. With minor exceptions, the product should be included in the calculations of unprotected area. See also sections 8.1 and 8.2 of this Certificate.



8.10 In Scotland, the product may be used on buildings more than 1 m from a boundary. With minor exceptions, the product should be included in calculations of unprotected area.

8.11 In Scotland, the product should not be used on any building with a storey more than 11 m above the ground, or on any entertainment or assembly building with a total storey area more than 500 m², or on any hospital or residential care building with a total storey area more than 200 m².

Internal linings



8.12 In England, Wales and Northern Ireland, the product should not be used in circulation spaces but is otherwise unrestricted, subject to the conditions in section 8.1 of this Certificate. See also section 8.2 of this Certificate.



8.13 In Scotland, designers should refer to the requirements in the Scottish Technical Handbooks in respect of room occupancy and size. See also sections 8.1 and 8.2 of this Certificate.

9 Location

9.1 The extent of impact damage which the product may sustain in service will depend on its location, the design of the cladding and the nature of the supporting structure. The product is considered suitable for use in areas where there is little possibility of impact or abrasion damage, ie at low levels in areas with restricted access, or at higher levels in public areas. The product is therefore suitable for use in categories C to F, as described in Table 2.

Table 2 Access categories				
Category	Description	Examples		
С	Accessible primarily to those with some incentive to exercise care. Some chance of accident occurring and of misuse.	Walls adjacent to private open gardens. Back walls of balconies.	Zone of wall up to 1.5 m	
D	Only accessible, but not near a common route, to those with high incentive to exercise care. Small chance of accident occurring or of misuse.	Walls adjacent to small fenced decorative gardens with no through path.	above pedestrian or floor level.	
E	Above zone of normal impacts from people but liable to impacts from thrown or kicked objects.	1.5 to 6 m above pedestrian or floor level in public areas		
F	Above zone of normal impacts from people but not liable to impacts from thrown or kicked objects.	Wall surfaces at higher p those defined in E		

9.2 The impact resistance of the product is determined by the thickness and impact resistance of the steel on which it is based. Adhesion failure of the coating will not normally occur, although hairline cracks may occur in areas of high stress.

10 Workability

10.1 The product may be worked by conventional techniques including brake-pressing, roll-forming, bending, drilling and punching. It is essential that the correct tools, in good condition, are used to prevent any damage to the coating, and that any swarf is removed.

10.2 The coating can withstand a 0T bend through 180° without damage at 16°C and above.

11 Maintenance



11.1 Regular maintenance inspections should be carried out to ensure that rainwater goods are present and in good order, that flashings are secure and that fixings are present and secure.

11.2 Maintenance painting should be considered at the intervals defined in section 12.4, or earlier if a high aesthetic standard is required. The Certificate holder can recommend a suitable paint and maintenance system.

11.3 In some areas (eg coastal and industrial areas, and where cladding is sheltered directly beneath a soffit), it may be necessary to clean the installation periodically, both to restore its appearance and to remove potentially corrosive deposits. This can be done by hosing with water, using a neutral detergent.

12 Durability



12.1 The product is resistant to all normal atmospheric corrosive conditions (including coastal and industrial) and will withstand considerable distortion of the metal without losing adhesion between the coating and the substrate.

12.2 Particular care should be taken during design to minimise the exposure of cut edges of the installed sheets. This could include the use of welted seams, secret-fix systems, continuous ridge to eaves installation (ie without horizontal lap joints) or installation of a curved roof.

12.3 Colorcoat HPS200 Ultra coating and metal treatment will protect the steel substrate against corrosion for a period in excess of 40 years in normal industrial, urban and rural environments.

12.4 The performance of the coating will depend on its environment, location, aspect face and use (ie roofing or cladding). The product will retain a good appearance for at least 25 years in non-corrosive environments and at least 20 years in coastal or severe industrial environments.

12.5 If the building has an exposed eaves detail, and is in an aggressive environment, or if there are corrosive conditions inside it, the reverse side should be coated with 100 µm plastisol, the same finish as the face side, or should be overpainted.

13 Reuse and recyclability

The product contains steel, which can be recycled.

14 Procedure

14.1 The installation should be designed and carried out in accordance with European Convention for the Construction of Steelwork (ECCS) European Recommendations for Steel Construction:

- Publication No 40 The Design of Profiled Sheeting
- Publication No 41 Good Practice in Steel Cladding and Roofing

and with the relevant parts of:

- BS 5250 : 2011 •
- BS 5427-1: 1996
- National Federation of Roofing Contractors Profiled sheet metal roofing and cladding A guide to good practice
- MCRMA⁽¹⁾ Technical Paper No 5 Metal Wall Cladding Detailing Guide
- MCRMA⁽¹⁾ Technical Paper No 6 Profiled Metal Roofing Design Guide
- MCRMA⁽¹⁾ Technical Paper No 11 Flashings for metal roof and wall cladding
- MCRMA⁽¹⁾ Technical Paper No 12 Fasteners for metal roof and wall cladding : Design, detailing and installation quide.

(1) The Metal Cladding and Roofing Manufacturers Association.

14.2 Fixings should be selected in accordance with ECCS Publication No 35 Mechanical Fasteners for Use in Steel Sheeting and Sections and should be corrosion-resistant (ie sherardized or galvanized steel, aluminium or stainless steel). Primary fixings should have a durable plastic or rubber washer to prevent water ingress. Electroplated carbon steel fixings must have an effective plastic capping; mild steel or copper fixings are unsuitable.

Technical Investigations

15 Tests

15.1 Tests were carried out, and the results evaluated, to determine:

- resistance to artificial weathering
- resistance to salt spray
- adhesion to substrate
 - scratch resistance
- resistance to marking and staining.
- abrasion resistance
- ease of forming
- resistance to sulfur dioxide
- impact resistance
- resistance to water immersion
- 15.2 Independent test data were examined relating to:
- surface spread of flame fire propagation.

15.3 The manufacturing process was evaluated, including the methods adopted for quality control, and details were obtained of the quality and composition of the materials used.

Bibliography

BS 5250 : 2011 + A1 : 2016 Code of practice for control of condensation in buildings

BS 5427-1 : 1996 Code of practice for the use of profiled sheet for roof and wall claddings on buildings — Design

BS EN 10346 : 2015 Continuously hot-dip coated steel flat products for cold forming — Technical delivery conditions

BS EN 13501-1 : 2018 Fire classification of construction products and building elements. Classification using data from reaction to fire tests

BS EN 13501-5 : 2016 Fire classification of construction products and building elements — Classification using data from external fire exposure to roofs tests

BS EN 14782 : 2006 Self-supporting metal sheet for roofing, external cladding and internal lining — Product specification and requirements

BS EN ISO 9001 : 2015 Quality management systems - Requirements

16 Conditions

16.1 This Certificate:

- relates only to the product/system that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- is valid only within the UK
- has to be read, considered and used as a whole document it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- is subject to English Law.

16.2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

16.3 This Certificate will remain valid for an unlimited period provided that the product/system and its manufacture and/or fabrication, including all related and relevant parts and processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

16.4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

16.5 In issuing this Certificate the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product/system or any other product/system
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product/system
- actual installations of the product/system, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product/system is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product/system, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to CE marking.

16.6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product/system which is contained or referred to in this Certificate is the minimum required to be met when the product/system is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care.

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