

# COLORBOND® steel

## for fencing

### General description

COLORBOND® steel for fencing (XFP) has been specifically designed by BlueScope to provide a prepainted product with good formability and outdoor performance for the steel fencing industry.

### Typical uses

Fence panels, posts and rails. To determine if warranties apply or for material selection advice, please visit [colorbond.com](http://colorbond.com) and [steel.com.au](http://steel.com.au) or contact Steel Direct for advice.

### Australian and International standards

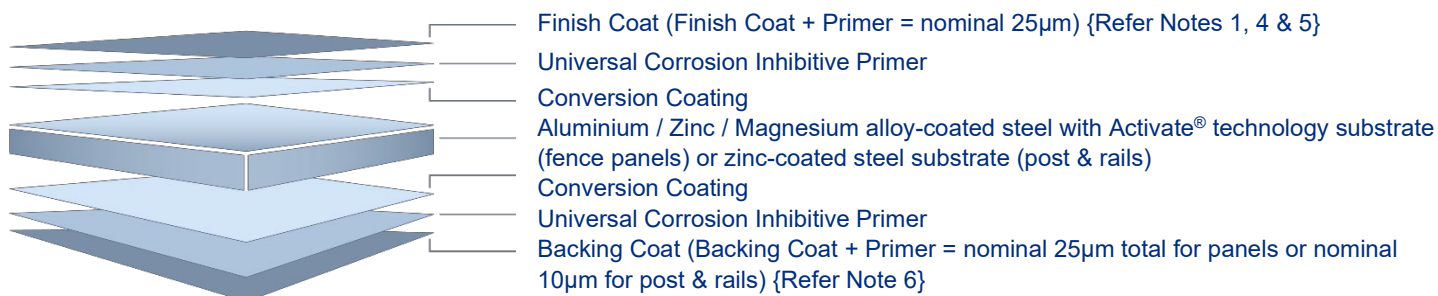
Substrate - AS 1397:2021  
Paint Coating - AS/NZS 2728:2013 Type 3  
ISO 9001:2015 Quality System certified

### Preferred substrates

AM100 G550S steel with Activate® technology (fence panels). Z275 G550 steel (posts and rail) {Refer Note 8}.

*For substrate properties please refer to the relevant Metallic (AM and Z) Coated steel datasheets or AS 1397:2021.*

*Please refer to current price list or BlueScope State Sales Office for availability of colours and dimensions.*



## Attributes tested during manufacture

Property	Test & Evaluation Method(s)	Results
<b>Adhesion</b>		
Reverse impact	AS/NZS 2728:2013 (App. E)	≥10 joules
T-bend	AS/NZS 2728:2013 (App. F)	Maximum 6T. Refer Note 7.
<b>Specular gloss</b>		
60° meter	AS/NZS 1580.602.2:1995 (R2013); ASTM D523-25	Nominal ± 10 units

## Product attributes

Property	Test & Evaluation Method(s)	Results
<b>Flexibility</b>		
T-bend	ASTM D4145-10 (2022)	Maximum 10T (no cracking). Refer Note 7.
<b>Resistance to abrasion</b>		
Scratch	AS 2331.4.7-2006 (R2017)	Typically 2000g
<b>Hardness</b>		
Pencil	AS/NZS 1580.405.1:1996 (R2013)	HB or harder
<b>Adhesion</b>		
Natural well washed exposure (10 years)	AS/NZS 1580.457.1:1996 (R2013); AS/NZS 1580.481.1.10:1998 (R2013)	No flaking or peeling. Refer Notes 9 & 10.
<b>Resistance to humidity</b>		
Cleveland (500 hours)	ASTM D4585/D4585M-25; AS/NZS 1580.481.1.9:1998 (R2013) (Blisters); AS 1580.408.4-2004 (R2019) (Adhesion)	Blister density: ≤3. Blister size: ≤S2. Undercut from score: ≤2mm. No loss of adhesion or corrosion of base metal.
<b>Resistance to corrosion</b>		
QFog (1000 hours) (AM substrate – fence panels)	AS/NZS 1580.481.1.9:1998 (R2013) (Blisters); AS 1580.408.4-2004 (R2019) (Adhesion); AS 1580.481.3-2002 (R2013) (Undercutting, Corrosion)	Blister density: ≤2. Blister size: ≤S2. Undercut from score: ≤1mm. No loss of adhesion or corrosion of base metal. Refer Note 3.
Salt Spray (500 hours) (Z substrate – posts and rails)	AS/NZS 1580.481.1.9:1998 (R2013) (Blisters); AS 1580.408.4-2004 (R2019) (Adhesion); AS 1580.481.3-2002 (R2013) (Undercutting, Corrosion)	Blister density: ≤2. Blister size: ≤S3. Undercut from score: ≤2mm. No loss of adhesion or corrosion of base metal. Refer Note 3.
<b>Resistance to colour change</b>		
Natural well washed exposure (10 years)	AS/NZS 1580.457.1:1996 & ASTM D2244-25 (Colour)	ΔE CIEDE2000: Light colour: ≤4 units. Intermediate colour: ≤6 units. Dark colour: ≤10 units. Refer Notes 9 & 10.
QUV (2000 hours)	ASTM G154-23 & ASTM D2244-25 (Colour)	ΔE CIEDE2000: Intermediate colour: ≤5 units

Property	Test & Evaluation Method(s)	Results
<b>Resistance to chalking</b>		
<b>Natural well washed exposure (10 years)</b>	AS/NZS 1580.457.1:1996 (R2013) & AS/NZS 1580.481.1.11:1998 (R2013) (Chalk Method B)	Chalk rating: ≤4. Refer Notes 9 & 10.
<b>QUV (2000 hours)</b>	ASTM G154-23 & AS/NZS 1580.481.1.11:1998 (R2013) (Chalk Method B)	Chalk rating: ≤4
<b>Resistance to solvents, acids, alkalis</b>		
<b>Exposure</b>	ASTM D1308-20 & ASTM D2244-25 (Colour); AS/NZS 1580.481.1.9:1998 (R2013) (Blisters)	No discolouration or blistering. Refer Notes 3, 9 & 11.
<b>Resistance to heat</b>		
<b>Exposure 100°C continuous (500 hours)</b>	ASTM D2244-25 (Colour)	Colour change ΔE CIEDE2000: ≤3 units
<b>Fire hazard properties</b>		
<b>Simultaneous determination of ignitability, flame propagation, heat release and smoke release (AS/NZS 1530.3:1999 (R2016)) *</b>	Ignitability index (0 – 20)	0
	Spread of flame index (0 – 10)	0
	Heat evolved index (0 – 10)	0
	Smoke developed index (0 – 10)	0-1
<b>NCC non-combustible material concessions (NCC 2022; AS/NZS 1530.3:1999 (R2016)) *</b>	National Construction Code, Building Code of Australia 2022; Volume 1 Part C1, C2D10, (5) and (6)(e) and Volume 2: Section H, Part H3, H3D2, (1)(e) AS/NZS 1530.3:1999 (R2016)	May be used wherever a non-combustible material is required

\* The results of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

## Important notes

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1. Double-sided COLORBOND® steel for fencing (XFP) is laser branded on both surfaces with the COLORBOND® steel logo.
2. All warranties for a product, if any, are subject to eligibility. Terms and conditions apply. Nothing in this document is intended by BlueScope to extend, modify or otherwise affect any stated product warranty. To find out more, please visit the BlueScope website or contact Steel Direct for advice.
3. Product may not be suitable if it is intended to use COLORBOND® steel for fencing (XFP) in an exterior application within 1km of salt marine locations, severe industrial or abnormally corrosive environments; in areas not washed by rain, or in applications where the fence will be wholly or partly buried in the ground. Posts made from COLORBOND® steel for fencing (XFP) must be set in concrete, not buried directly into the soil. For selection of the most appropriate COLORBOND® steel product, please refer to Technical Bulletins TB1a, TB1b, CTB16, CTB21 and CTB22. Before purchase, you should check on suitability by visiting the BlueScope website or by contacting Steel Direct for advice.
4. Finish Coat - the coating applied to the exposed surface of the prepainted coil which is expected to meet the Performance Requirements.
5. The product is supplied with a nominal 25 unit (60°) gloss Finish Coat.
6. Backing Coat - a thin coating applied to the reverse surface of the prepainted coil. It also gives additional durability to the reverse surface during the service life of the product, but for aesthetic reasons is not recommended for exposure to sunlight. Performance Requirements are generally not applicable to backing coats. Where specific Performance Requirements are deemed necessary for the reverse surface coating, a "double sided" product should be specified, in which case a topcoat of full nominal thickness will be applied.
7. The minimum internal bend diameters for forming processes to achieve no paint cracking (visible using x10 magnification) and to avoid paint adhesion issues are specified by the T-bend flexibility and T-bend adhesion results respectively – where 1T equals the total coated thickness (tct) in mm of the material. These results are based on testing at 20-25°C.
8. For most products, the metallurgical ageing process which is inherent in the paint stoving cycle will result in some loss of ductility compared with unpainted product. However, minimum strength levels designated by relevant standards will still be applicable.
9. Improper storage or use of non-approved roll-forming lubricants may cause brand transfer and paint blushing, and may adversely affect colour and long term durability. Product in coil or sheet pack form must be kept dry. If the coil or sheet pack becomes wet, it must be separated and dried (refer AS/NZS 2728:2013 Appendix L, and also Technical Bulletin TB7). Contact Steel Direct to obtain advice on appropriate rollforming lubricants.
10. Values quoted are for panels exposed in accordance with AS/NZS 2728:2013. Variations for in-situ performance may occur due to complexity of building design and location.
11. COLORBOND® steel for fencing (XFP) has good resistance to accidental spillage of solvents such as methylated spirits, white spirit, mineral turpentine, toluene, trichloroethylene and dilute mineral acids and alkalis. However, all spillages should be immediately removed by water washing and drying.

**Colorbond®**

**[colorbond.com](http://colorbond.com)**  
**[steel.com.au](http://steel.com.au)**

To learn more about this product

**1800 022 999**

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For more information contact Steel Direct



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