

BARRIER COATINGS

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This issue supersedes all previous issues

BlueScope Steel Limited produces a wide range of prepainted steel product, which further enhances the corrosion resistance and aesthetic qualities of the traditionally produced metallic material. The combination of a sacrificial coating and factory prepared oven cured paint finish, offers both galvanic protection and a degree of barrier protection dependant upon the COLORBOND® prepainted steel grade selected.

Steel coils entering the organic coating lines may either be metallic coated or uncoated steel. The steel strip uncoils and passes through a cleaning stage where the strip is cleaned with an alkaline solution then hot water rinsed. This process ensures chemically clean strip being presented for roll-on pretreatment. As it progresses through the line, the strip can receive a uniform corrosion inhibitive primer coat which is oven cured. Finally, the primed strip enters the finish coating stage where the selected paint finishes are uniformly applied to both sides and oven cured before the strip is recoiled.

COLORBOND® steel sheet and coil product is ready for direct fabrication into the end

product without further finishing treatment by the customer.

Fabricating products from prepainted steel can assist manufacturers in eliminating pre-treatment and finish painting operations and related problems such as fume and effluent disposal, maintenance or renewal of expensive painting equipment.

The range of COLORBOND® steel (*colour, coating types and gloss levels*) has been developed for a wide variety of applications for both exterior and interior use. Topcoats may be applied on either one or both sides of steel coils in the same or different colours.

Standard fabrication techniques such as deep drawing, roll forming, stamping, spinning, and press brake forming are generally possible without damage or deterioration to the coating. In some fabricating techniques the paint coating acts as a lubricant and can measurably increase tool life. The factory applied coating system can offer increased corrosion performance compared to the substrate in unpainted form, depending upon the coating system choice.

The information and advice contained in this Bulletin is of a general nature only, and has not been prepared with your specific needs in mind. You should always obtain specialist advice to ensure that the materials, approach and techniques referred to in this Bulletin meet your specific requirements.

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