

# Barrier coatings

## Introduction

BlueScope produces a wide range of prepainted steel products. The prepainted coating on these products further enhances the corrosion resistance and aesthetic qualities of the metallic coated substrate. The combination of a sacrificial coating and factory prepared oven cured paint finish offers both galvanic protection and a degree of barrier protection dependent upon the COLORBOND® prepainted steel product selected.

Steel coils entering the paint 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® prepainted steel 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 pretreatment and finish painting operations and related problems such as fume and effluent disposal, and maintenance or renewal of expensive painting equipment.

The range of COLORBOND® steel products (available in different colours, coating types and finishes) has been developed for a wide variety of applications for both exterior and interior use. Topcoats may be applied on either one side with a backing coat on the reverse, or on both sides of the product.

The factory applied coating system can offer increased corrosion performance compared to the substrate in unpainted form, depending upon the coating system choice.

Refer to the following technical bulletins for guidance on selecting the most appropriate BlueScope prepainted product:

[Technical Bulletin TB-1A](#) Steel roofing products – selection guide

[Technical Bulletin TB-1B](#) Steel walling products – selection guide

[Technical Bulletin TB-15](#) Selection and use of steel eave gutter, downpipe and fascia products

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