

COLORBOND® METALLIC PRE-PAINTED STEEL

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INTRODUCTION

COLORBOND® Metallic prepainted steel offers a range of decorative finishes which are ideal for prestigious building applications.

Due to the unique nature of pearlescent finishes, as used on COLORBOND® Metallic steel, certain precautions are necessary when ordering and installing this product.

GEOMETRIC METAMERISM

The metallic type paint systems obtain their unique lustre from the addition of mica particles to the paint. These particles, whilst being responsible for the unique appearance, also result in a visual effect known as geometric metamerism.

Geometric metamerism is a phenomenon where the colour of the painted surface will appear to be different dependant upon viewing angles and lighting conditions.

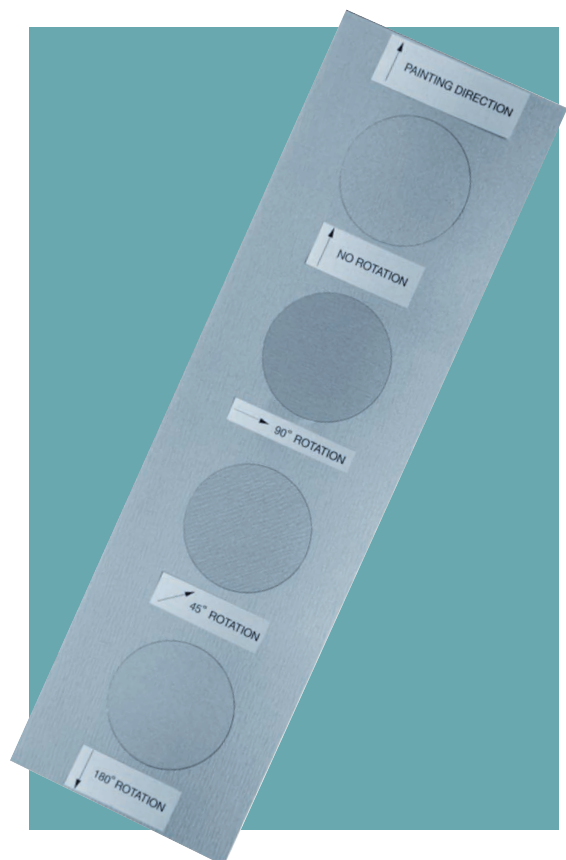
In order to illustrate this effect, figure 1 shows a number of discs punched from the same sample of "Citi™" coloured COLORBOND® Metallic steel. As the illustration shows, when the same material is rotated through 45°, 90° and 180° a significant inherent difference in colour and appearance can be observed.

ORDERING

Due to the metameric nature of these paint systems, different batches of paint may vary slightly in colour.

In order to minimise appearance differences it is strongly recommended that all requirements for a particular project are processed in one production run using the same batch of paint. The customer should inform the BlueScope Steel Limited Sales Office of all COLORBOND® Metallic steel requirements for a given project so the orders can be batched.

Figure 1



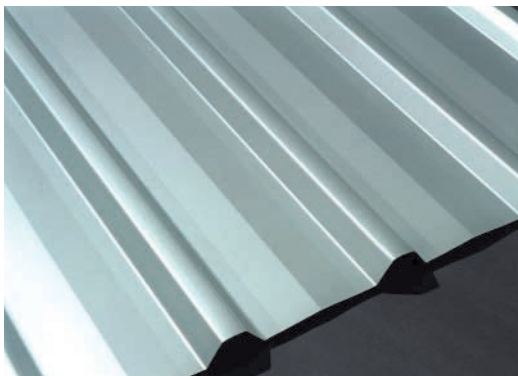
Notifying the BlueScope Steel Sales Office is particularly important when a project calls for various sizes to avoid material being produced from different runs.

Material will be consistent when painted in the one production run using the same batch of paint.

ROLLFORMING

Rollformed sections of COLORBOND® Metallic steel often display striking effects as illustrated in Figure 2 due to the varying angles of incident light.

Figure 2



The customer should be aware of this visual effect as well as the potential for variation between vertical and horizontal exposure. Accessories will be subject to different conditions of incident lighting compared to flat wall panels.

INSTALLATION

In order to prevent mismatching, all panels on a project should be aligned in the same direction.

To assist in this regard, BlueScope Steel brands the reverse surface of all COLORBOND® Metallic steel with an arrow to indicate the

direction of painting. Care should be taken to ensure that when fabricating architectural panels a suitable system exists to convey this information to the installer.

Caution must also be taken during installation to ensure that adjacent panels fit flush and flat relative to one another. Failure to do so will again result in appearance variations.

“Touching up” minor surface scratches on COLORBOND® steel is not recommended. Minor scratching will not affect the life of the product and is rarely obvious to the casual observer. If the surface scratching is severe the material should be replaced.

ACCESSORIES

It should be noted that “matching” accessories (*such as gutter clips*) which are not made from COLORBOND® Metallic steel, will be subject to a metamer effect (*as explained on page 1*). This is due to the differences in paint chemistry and method of paint application between COLORBOND® Metallic steel and post-painted or powder coated accessory items.

SUMMARY

- Order all material for one project at the same time.
- Inform BlueScope Steel Sales Office of the entire material requirements for a particular project.
- Install panels according to painting direction and ensure they fit flush and flat relative to one another.
- Do not mix material produced from different paintline runs.
- Be aware of the unique visual effects on rollformed sections and horizontal versus vertical exposure.

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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BlueScope Steel Limited ABN 16 000 011 058
BlueScope Steel (AIS) Pty Ltd ABN 19 000 019 625



AUSTRALIA	SYDNEY	Telephone: (02) 9795 6700
	MELBOURNE	Telephone: (03) 9586 2222
	BRISBANE	Telephone: (07) 3845 9300
	ADELAIDE	Telephone: (08) 8243 7333
	PERTH	Telephone: (08) 9330 0666

OVERSEAS	BlueScope Steel (Malaysia) Sdn Bhd	Telephone: (603) 3250 8333
	BlueScope Steel (Thailand) Limited	Telephone: (66 38) 685 710
	PT BlueScope Steel Indonesia	Telephone: (62 21) 570 7564
	BlueScope Steel Southern Africa (Pty) Limited	Telephone: (27 21) 555 4265

