

Data sheet: C1.6

Availability and properties

CHROMADEK[®] for Interior Applications

Pre-painted and laminated hot-dip galvanised steel sheet

General description

CHROMADEK[®] for interior applications is available as hot-dip galvanised steel sheet which is pre-painted on ArcelorMittal Steel South Africa's coil coating line with special high quality paint coatings.

Paint systems

A coating systems is available for non-corrosive interior environments as follows:

1. Polyester

This paint system is widely used because the coating exhibits good flexibility and hardness characteristics. The gloss on the cured paint can be supplied in high (70%), semi (30%) or matte (10%) finishes.

Steel substrate

CHROMADEK[®] for interior applications is available on hot-dip galvanised steel substrate with a zinc coating mass of 160gr/m² (Z160) or 200 g/m² (Z200)

Table 1. Available sizes for galvanised substrate (Coils)¹

Nominal thickness <i>T</i> (mm) ¹	Nominal width <i>W</i> (mm) ²
0.40	925 ≤ <i>w</i> ≤ 1219
0.50 - 0.58	925 ≤ <i>w</i> ≤ 1225
0.80	925 ≤ <i>w</i> ≤ 1225
1.00	
1.20	
1.40	
1.60	

Notes:

1. Coated thickness, i.e. including zinc coatings but excluding paint. Thickness tolerances as in Data Sheet C1.2
2. The following standard widths are available: 925, 940, 1000, 1175, 1219, 1225 and 1320mm

For further information, contact:

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Care has been taken to ensure that the information in this data sheet is accurate. ArcelorMittal Steel South Africa Limited does not, however, assume responsibility for any inaccuracies or misinterpretations of this data. We are continuously engaged in product development and revised data sheets will be issued from time to time. Please ensure that you have the most recent issue. Effective date: July 2013

Forming

1. Roll-forming

Roll-forming rather than press braking is recommended for the forming of sections and components from pre-painted steel sheet, since there is less chance of damaging the paint coating. A multitude of sections can be roll-formed provided the necessary adjustments are made in roll clearances.

Bend diameters should also be larger than the bend to which the material was subjected to during Quality Control Testing.

2. Press braking and folding

Pre-painted steel sheet can be press-braked and folded on conventional machines with the following precautions:

1. Tools must be clean with no burrs or rough edges.
2. The die should be provided with adequate clearance at the bottom of the 'V', whilst the top of the 'V' should be polished to remove possible sharp edges.
3. The press should not be over-set and it should never 'bottom'.
4. The minimum inside bend diameter should always be in accordance with the bending properties of the substrate and flexibility of the paint system combined.

3. Lubricants

The organic coatings used for CHROMADEK[®] usually act as excellent dry film lubricants. Where lubricants are needed, the water-soluble types are recommended. If emulsified compounds are used, it is important that they are removed as soon as possible, in order to prevent staining of the paint coating.

4. Joining methods

Many joining techniques are now available as alternatives to the more traditional methods. Pre-painted materials cannot be welded by traditional methods as the coatings do not conduct electricity and are damaged by heat. Consequently, if arc welded joints are necessary the welded area must be kept away from the visible areas of the coating.

5. Strippable films

Protective strippable films are available when required for applications where appearance is of prime importance. Storing of components protected by strippable films in either high temperature, high ultra-violet environments or for periods longer than 6 months must be avoided, since the adhesives on the film may degrade and be transferred to the paint coating, making removal of the strippable film difficult.

Packaging, transportation and handling

CHROMADEK[®] is a finished material with decorative coatings with good general abrasion resistance, but must be handled with care to prevent damage to the coatings. To avoid pressure marks coils should not be stacked, and should be despatched 'eye-to-the-sky' (with vertical axes) to prevent the occurrence of surface defects during transport.

Various packaging options are available (see 'Packaging Specification' on this site).

For further information, contact:

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Quality assurance

A quality assurance system that complies with SANS 9001 is in operation throughout the manufacturing process, and the galvanised substrate used for ArcelorMittal Steel South Africa's Chromadek products conform to the requirements of both SABS ISO 3575 and SABS ISO 4998.

Supply conditions

CHROMADEK® for Interior Applications is supplied in terms of Price Lists 145 and 146 with Mittal Steel South Africa's General Conditions of Sale.

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