



## PERSPECTRA SERIES™ – the new standard for Prepainted Steel

### PERSPECTRA SERIES

Perspectra Series is the new standard for quality prefinished sheet steel. It uses state of the art technology for the pretreatment, primer and Silicone Modified Polyester (SMP) topcoat and comes with the quality, service and technical support you have come to expect from ArcelorMittal Dofasco Inc. The Quality and Performance specification offers 40 years of film integrity and 30 years of stringent colour fade and chalk values for building industry applications like roofing and cladding, across Canada and the continental United States. Perspectra Series is available on hot dip galvanized or on enhanced corrosion resistant Galvalume™ (55% aluminum-zinc alloy coating) substrate.

### UPGRADED QUALITY AND PERFORMANCE SPECIFICATION:

Perspectra Series was developed to deliver enhanced 40 year paint film integrity and outstanding weathering performance in building applications. It is ideal for a wide range of prepainted roofing, cladding and siding applications for steel building systems (pre-engineered buildings), architectural panels, commercial, institutional, industrial projects and agricultural buildings. The manufacture of Perspectra Series begins with high quality hot dip galvanized or Galvalume – our highly corrosion resistant 55% aluminum-zinc alloy coated steel, made to rigid specifications and quality tested to meet the requirements of ASTM A653/A653M or A792/A792M. The coated steel is then painted on our modern continuous coil coating lines that carefully apply and factory-bake the paint system to the paint manufacturers' specifications. The final product is tested in accordance with stringent standards established by

the National Coil Coating Association (NCCA) and American Society for Testing and Materials (ASTM).

A Quality & Performance specification has been developed for Perspectra Series standard colours and covers the metallic coated steel substrate and the paint system performance against a variety of industry technical standards, applicable to anywhere in Canada or the continental United States. For other geographic locations or non-standard colours, individual Quality and Performance Specifications are available. Contact your ArcelorMittal Dofasco Representative for further information.

### BENEFITS OF PREPAINTED GALVALUME:

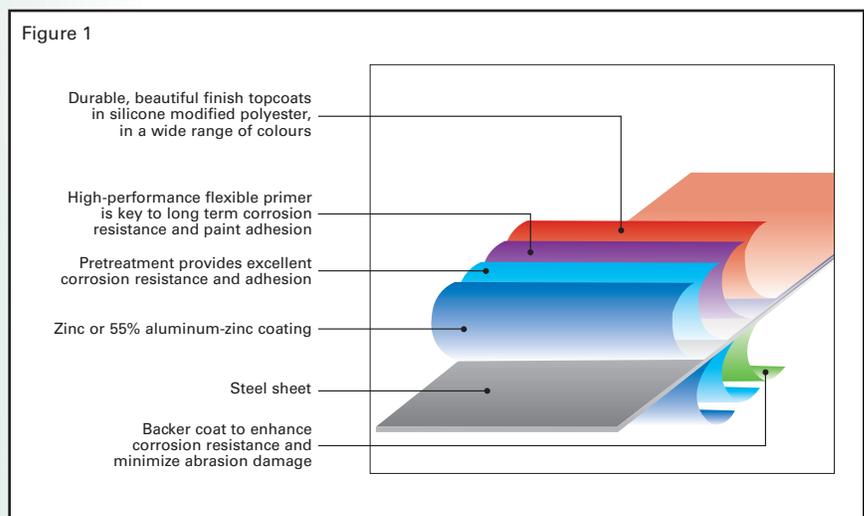
When superior atmospheric corrosion resistance is required, particularly at tension bends and drip edges, specify Galvalume as the substrate for Perspectra Series. Projects constructed around coastal areas, light or moderate industrial areas have all benefited from the superior performance that the Galvalume substrate delivers. Contact your ArcelorMittal Dofasco Representative for guidance on substrate material selection.

### PERSPECTRA SERIES PAINT SYSTEM:

A schematic of the Perspectra Series paint system, shown in Figure 1, pictorially demonstrates the following product features: Galvalume sheet, with its highly corrosion resistant 55% aluminum-zinc alloy coating, or hot dip galvanized, not only serves as the foundation for the paint system, but also provides long-term corrosion protection at edges, damaged sites, and tension bends.

A chemical pretreatment is then applied to promote adhesion between the primer and the metallic coating. A high-performance flexible primer is then applied to the pretreated surface to enhance corrosion resistance, particularly at cut edges, scratches, and bends. The paint system is finished by applying a colourful, durable silicone modified polyester topcoat selected from one of four colour groupings (whites, earthtones, colours, and exotics) specifically for the application.

The unexposed side is typically pretreated and coated with a wash coat or backer coat to enhance the corrosion resistance and minimize abrasion damage.



## FORTY STANDARD COLOURS :

Perspectra Series offers 40 standard colours that cater to the creativity and imagination of architects and building designers. These proven colours all meet the upgraded Quality & Performance Specification and are broken out in four colour groups, each group having its own price. The four colour groups are:

### Whites –

9 shades of white

### Earhtones –

16 pastel and earhttone colours

### Colours –

13 unique and beautiful colours

### Exotics –

2 bright and exotic colours

Additional colours, gloss and textures can be developed to meet unique project requirements. With the colours being offered in groups, new colour pricing can be established quickly, while the paint formulation is confirmed later by laboratory colour matching. For new developments of Exotic colours, individual pricing will be quoted.

Creativity, versatility, durability, and economy – these are the proven reasons to choose Perspectra Series on galvanized or Galvalume substrates.

## “COOL ROOFING” PROPERTIES:

Cool roofing is gaining more attention particularly in areas of the United States where cooling climates prevail and air conditioning is used to control interior

temperature. Several jurisdictions have adopted “Cool Roofing” requirements for minimum total solar reflectance and emissivity of the roofing membrane. Perspectra Series has been designed to deliver “Cool Roofing” properties on all the “Whites” and many of the colours in the “Earhttones” and “Colours” groupings. This is achieved through the judicious selection of solar reflective inorganic pigments within the topcoat. A listing of the total solar reflectance (TSR) and emissivity (E) for the cool colours is available from your ArcelorMittal Dofasco Representative.

## INVENTORY CONTROL CONSIDERATIONS:

To minimize the risk of mixing Perspectra Series with other prepaint systems in your inventory, the following are recommended practices to keep master coils and fabricated products made from Perspectra Series separate:

- Use your current inventory of prepainted steel coils before processing Perspectra Series coils of the same colour
- Ensure that the coil tags stay on the remainder of the coil to identify it as Perspectra Series and to reference its colour QC number
- Keep inventory of the two paint systems in coil or fabricated sheet form physically separate in your plant
- Communicate the importance of not mixing inventory of the two paint systems to all personnel involved in purchasing, operations, packaging, shipping, material handling and installation, including your distributors

During the transition, each coil of Perspectra Series will be labelled on the outside wrap and the eye of the coil with brightly coloured stickers saying “NEW PAINT SYSTEM – DO NOT MIX”

## JOB SITE STORAGE AND MAINTENANCE:

Building products made from Perspectra Series should be kept dry in transit and covered during storage at the job site. Bundles should be stored above ground at a slight angle, to prevent water or condensation build up between adjacent sheets. For advice on other job site considerations such as transit abrasion, removing installation debris, field cutting sheets, compatibility with other building accessories, insulation, joining, and sealing, refer to “Guide To Good Practices” obtainable from your ArcelorMittal Dofasco Representative.

With a little care and attention, roofing and cladding made from Perspectra Series will provide extended service life. Although factory applied, these durable paint finishes for building panels should be cleaned thoroughly on a routine basis at least once a year. Applications where the paint finish is washed by rain do not normally require this maintenance.

### Special Customer Note:

The Information in this Fact Sheet is provided for the general guidance of customers and does not imply any liability beyond that implied in the Quality & Performance Specification. The information provided is based on research conducted by ArcelorMittal Dofasco and other organizations. Interpretation and/or use of this information is the sole responsibility of the user. For further details, contact your ArcelorMittal Dofasco Representative at 1-800-363-2726.

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