

Technical Data Sheet No: **LP-106.1** **Perforated Metal - Material and Coating Information**

Anodizing Aluminum

Anodizing aluminum provides the sheet with enhanced protection against corrosion, however the anodizing process does not 'cover up' the parent material, hence any surface blemishes, scratches or inconsistencies in the supplied aluminum are still visible. This may also cause color variation between panels. Where possible, Valmont® Structures will ensure project materials are sourced from the same mill, and extra care is taken to prevent scratching. However even this extra care cannot guarantee a blemish free product without color variation.

Valmont Structures does not recommend anodizing marine grade aluminum, as there is a higher chance for inconsistencies across the material.

Stainless Steel

The use of stainless steel does not guarantee a perfect blemish free appearance. Tea staining can still occur, especially projects located within 3.11 miles of the ocean. Valmont Structures recommends all stainless steel specified for external applications be electro-polished prior to installation. In addition, regular cleaning and maintenance will reduce the risk of tea staining.

Electro-Polishing

Valmont Structures recommends electro-polishing whenever Stainless Steel material is specified for an external project.

Ferrous Metals

Valmont Structures does not recommend that ferrous based products be installed in external applications, therefore there is no warranty offered against corrosion.

Powder Coating

Valmont Structures recommends powder coating colors are selected from the Duratec range for maximum protection.

Hot-Dip Galvanizing

Zinc metal used in the galvanizing process provides an impervious barrier between the steel substrate and corrosive elements in the atmosphere. It does not allow moisture and corrosive chlorides and sulphides to attack the steel. Zinc is more importantly anodic to steel—meaning it will corrode before the steel, until the zinc is entirely consumed.

Most steel perforated metal profiles can be galvanized; however smaller profiles will be subject to blinding—where the holes will fill with a thin layer of zinc. Valmont Structures recommends that mesh profiles manufactured from steel less than 0.04in thick and or with an aperture size less than 0.47in are not hot-dip galvanized, but rather manufactured from Galvabond material.

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Meshes manufactured from Galvabond will not have the same level of protection as those that are hot-dip galvanized.

Due to the galvanizing process some thinner gauge meshes may be subject to buckling. Hot-dip galvanized mesh profiles can be painted. Conditions apply.

Galvabond® is a registered trademark of BlueScope Steel Limited.

Perforated Colorbond

Valmont® Structures will make every attempt to minimize oil residue on the perforated colorbond; however the manufacturing process necessitates the use of an air dry lubricant, and there will be some oil residue left on the perforated coil. Valmont Structures will not be held responsible for any surface marking, such as scuffs or scratches, which may be sustained during the normal manufacturing processes.

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