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## Finishes and materials

### Finishes on steel

#### **Bare (suffix B(C))**

#### **Pregalvanized (suffix PG(C))**

A zinc coating is applied to the steel coil at the mill prior to fabrication. Once the material is worked by roll-forming, cutting or punching, minimal protection is provided for raw edges. This weakness is typical with precoated material and affects the channel section around holes, extreme ends and the edges of the U-shape lips. Superstrut pregalvanized material is in conformance with ASTM A-525/G-90 specification standards, representing 0.90 oz. of zinc per square foot of steel. This finish is often referred to as “mill galvanized.”

#### **Electrogalvanized (suffix EG(C))**

Often referred to as “zinc plated” or “electroplated zinc,” the steel and 0.5 mils of zinc are bonded by an electrolysis process. Electrogalvanizing is most commonly applied to small fittings, hardware and threaded products.

#### **GoldGalv® (no suffix)**

Gold-coloured zinc dichromate is applied over the zinc, producing a chemically bonded non-porous barrier for protection from moisture and air. This extends the protective life of the zinc, and provides an excellent base for paint, if desired. The GoldGalv hardware finish also provides a low electrical resistance when grounding of the system is required. Superstrut channel and fittings are plated after fabrication, so there are no unprotected edges from cutting or punching. Where field cutting is necessary or scratches occur due to construction handling, you still have the sacrificial protection of the plated zinc to minimize the corrosion of raw edges and prevent spreading.

#### **Hot-dipped galvanized (suffix HDG(C))**

The material is zinc coated after fabrication, providing total product protection on all surfaces. The fabricated channel or fitting is suspended and then dipped into tanks of hot zinc for a prolonged period, creating a coherent bond. The result is superior corrosion resistance as compared to pregalvanized material. Hot-dipped galvanizing is not recommended for threaded products, considering the zinc coating thickness will often disrupt the threads. Superstrut hot-dipped galvanized is in conformance with ASTM Specifications A-123 (formerly A-386) and A-153. This finish is also referred to as “hot-dipped galvanized after fabrication.”

#### **Epoxy powder coated – green, grey or white (suffix GR(C), GY(C), or WH(C))**

Epoxy powder resins are applied electrostatically to the steel after fabrication. Once the material is completely covered with the powder-form epoxy, it proceeds through a 400 °F (204 °C) baking process for 10 minutes, creating a chemical bond. This results in a minimum of 1.5 mil thickness of epoxy coating, providing excellent resistance to chipping or peeling.

### Special materials

#### **Aluminum (suffix AL(C))**

Superstrut channel is available in aluminum. Fittings in HDG finish or fiberglass material are suggested for fastening products.

#### **Stainless steel (suffix SS)**

Superstrut channel is supplied in type 316 (T316L) stainless steel. All fittings and accessories are in 316SS (SS6). Contact your regional sales office for availability.

**ABB reserves the right to change material and finish specifications without notice, to improve its products.**