

## **DuraGal**<sup>®</sup> Profiles

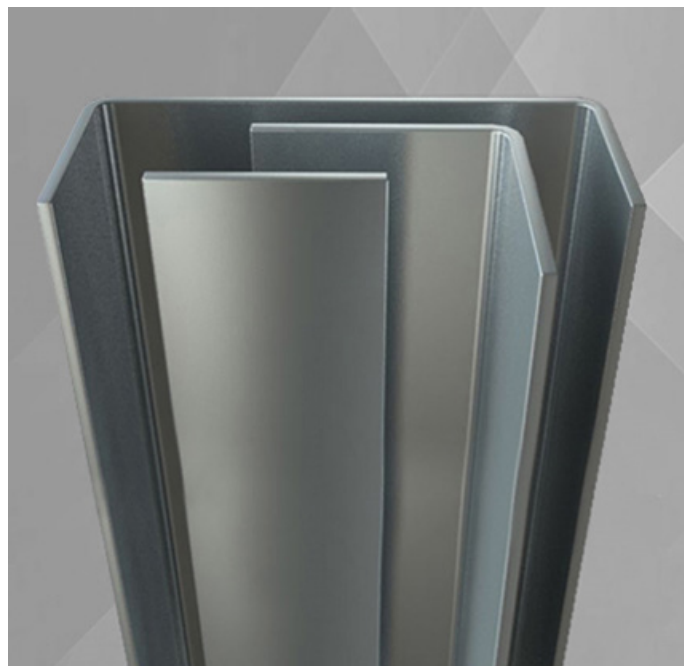
*THE DIFFERENCE IS DURAGAL*

We use DuraGal<sup>®</sup> at Australian Rollforming Manufacturers because we can have unlimited length, consistency and uniformity of profile, closer and tighter tolerances, high volume, high-speed preparation, can incorporate secondary operations in the one process and it has superior surface finish.

DuraGal<sup>®</sup> Profiles have a high level of corrosion resistance given the chemical composition of zinc with 3% Magnesium content and 3.5% Aluminium. The Magnesium creates a stable and durable layer across the entire surface and gives a far more effective corrosion protection than coatings with a lower Magnesium content.

The durability performance of DuraGal<sup>®</sup> is influenced by the micro-environments which vary from site to site. In highly corrosive environments, it is recommended that a suitable barrier coating, (e.g. paint or powder coating) be applied over the galvanised surface, and that the application of such coating be fully in accordance with the supplier's recommendations with regard to surface pre-treatment, application, curing and maintenance of the coating.

## ABOUT



## BENEFITS & ADVANTAGES OF DURAGAL<sup>®</sup>

**CORROSION RESISTANCE:** DuraGal<sup>®</sup> has a composition of 3% magnesium and 3.5% aluminium and a metallic coating, giving it superior corrosion resistance.

**ZINC RICH COATING:** Environmentally friendly chromate-free passivation - temporary protection. Will show less white rust where galvanised material can show 5% white rust in 24h.

**HARDNESS & SCRATCH RESISTANCE:** Abrasive wear resistance and scratch resistance.

**SELF-HEALING PROTECTION:** The protection coating protects exposed cut edges with the thin zinc-based protective film with magnesium, preventing corrosive reactions.

**SURFACE CONDUCTIVITY:** Inherits a property which avoids the load of electrical charges which is important for applications such as cable trays, PU solar structures or electrical cabinets.

**PROCESSING:** The chemical composition permits all the conventional processing operations. DuraGal<sup>®</sup> is easily used in bending, drawing, clinching, profiling, stamping and welding along with other manufacturing. The friction is lower in DuraGal<sup>®</sup> than hot-dip galvanised steel and stays stable during forming operations.

**ENVIRONMENT RESPONSIBLE:** Preservation of natural resources since it uses less zinc.

**QUALITY IMPROVEMENT:** Prepared surface and corrosion resistance can alleviate the need for blasting and priming.

**IMPROVED BUSINESS MANAGEMENT:** No outsourcing for coating preparation means less material management.