



Product Guidance

External Use

Non-aggressive atmospheres (including 15 miles from the sea)

Our experience shows that Zintec or galvanised mild steel, when powder coated will take between 7 & 10 years to start to show any signs or corrosion. Corrosion starts at the cut edges, (commonly known as Cut Edge Corrosion, CEC) of the product where the processing of the mild steel cuts through the protective Zintec or galvanised layer. Even after 10 years the corrosion is minimal and typically isolated to the hinges or locks. Most steel industrial portal frame sheds are clad with Kingspan or similar which are manufactured from powder coated steel sheets which in non-aggressive environments are guaranteed for up to 30 years.

Our experience is that the locks and hinges are the vulnerable parts, and they should be checked periodically. To delay corrosion, we suggest fully powder coating the product on all faces to avoid any surface rust appearing and ordering seals to all sides. This must be specified at the point of order. Standard size panels cannot be taken from stock and will be made to order. Any deep scratches or damage should be treated immediately before any corrosion can occur. Seal the picture frame flange to the substrate with builders silicone.

For a higher confidence in the corrosion capability of the product, aluminium or stainless steel options should be considered, but these are not essential for non-aggressive atmospheres.

Aggressive within 2 miles of the sea

We would recommend double coated mild steel or opting for aluminium. All options can be powder coated with the locks and hinges to be checked periodically.

Aggressive – Ad-blu situations

We have been supplying Grade 304 Stainless Steel doors to Ad-blu dispensing stations for over 10 years with no visible corrosion to the stainless steel. The locks and hinges where they contain more vulnerable metals do require regular periodic maintenance and could require replacing after 5 years.

Aggressive – Chlorine environments

Typically swimming pools will require to be Grade 304 Stainless Steel as a minimum with Grade 316 Stainless Steel if the product is immersed or liable to be splashed. As a rough guide stainless steel kitchen sinks are manufactured from Grade 304 Stainless Steel.

Simplis use architectural external grade Polyester Powder Coatings (P.P.C) for all products.

