

## External Stairs Fact Sheet

**enzie®** Stairs is fully committed to manufacturing steel spiral staircases of the highest quality. Over a period of time, corrosion problems have been encountered with external stairs in some geographic areas, where the environment is particularly harsh.

**enzie®** has carried out extensive research, in conjunction with Dulux, our supplier of powder coatings, to establish procedures which will maximise the life of the coatings on our staircases.

Currently our stairs are made from the following raw materials:

- Hills galvanised tube manufactured from Galvabond material for railings and balusters
- Lysaght Galvabond sheet for treads
- Heavy sections of mild steel are hot dip galvanised. eg landing frame, spacers and top fixings.
- Bolts, nuts and internal pins are zinc plated passivated.

And all external surfaces are coated with

- Wattyl Super-each primer
- Jotan powder primer 50-70 microns
- Dulux polyester powder coating
- Application procedures as recommended by Dulux

However, despite all of these precautions, we are finding that some environmental conditions, particularly in some seaside situations, are still too severe, and corrosion can occur.

Following the maintenance program as set out in the **enzie®** Fact Sheet Cleaning and Maintenance of Steel Spiral Stairs, will minimise the effects, and optimise the life of the stair.

We at **enzie®** are continuing our efforts to improve our product, but want any of our clients contemplating use of our stairs in external application, to be aware of our concerns.

As an alternative to our powder coated stairs we also offer stainless steel stairs. However it must be clearly understood that unless properly maintained, they will still corrode, particularly in marine environments due to the effects of salt ( and it's chlorine component ). Please note despite our best efforts to establish the best materials available, and to apply them with top quality workmanship, we have found that our external stairs, in some very harsh environments, show evidence of corrosion. Provided the recommended maintenance procedures are followed, satisfactory results should be attained, however, because the environmental conditions vary so much, and the maintenance of the stair is beyond our control, we are unable to guarantee the performance of our stair in external applications.