



## GALVANISING PROCESS GUIDE

### What is galvanisation?

Galvanisation, also known as galvanising or hot-dip galvanisation, has been used for hundreds of years to protect iron and steel from rust and corrosion. It is used widely in agriculture, horticulture, construction, fastenings and more.

### What are the types of galvanising?

The main type of galvanising is hot-dip galvanising. Suregreen offer two types of hot-dipped galvanised panels: [Standard](#) and [Premium](#).

Our [Standard Wire Mesh Panels](#) are hot-dipped **galvanised before welding**, meaning that each individual wire is galvanised and then welded together to form the panel. This is a more economical process, however, carries a small risk that the welded process may remove a small amount of the galvanised coating.

Our [Premium Wire Mesh Panels](#) are **galvanised after welding**, meaning that there is 100% coverage and no chance of any part of the panel not having the protective coating.

### What is the process of galvanisation?

Hot-dip galvanisation, or galvanising, is the process of submerging steel or iron into a bath of molten zinc protective coating to produce a corrosion resistant, multi-layered coating of zinc-iron alloy and zinc metal. Whilst the steel is immersed in the zinc, a metallurgical reaction occurs between the iron in the steel and the molten zinc and this diffusion process causes the coating to form perpendicular to all surfaces to create a uniform thickness.

### How does galvanisation prevent rusting?

Hot dip galvanised steel is durable, sustainable, proven, reliable and cost-effective. Galvanising is used to protect steel or iron from rust by:

- Forming a barrier that prevents corrosive substances from reaching the steel or iron; and
- Serving as a sacrificial anode so that even if the coating is scratched, the exposed steel will still be protected by the remaining zinc.

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