



Forfar Galvanisers Limited

FGL provides hot dip galvanising services for a wide range of industrial, agricultural, offshore and infrastructure applications. Working with fabricators, manufacturers and project teams across multiple sectors, the business supports both repeat production work and bespoke fabrication requirements.

Industrial and Offshore Application Experience

Experience working with fabrications for industrial, offshore, agricultural and infrastructure applications.

Facility & Process

Advanced plant technology allows parts of the traditional galvanising process to be streamlined, supporting efficient processing and operational workflow.

Forfar Galvanisers are able to omit two stages of the traditional galvanising process, removing the need for rinsing after degreasing and drying after the flux stage.

Handling & Processing Considerations

Fabrications are assessed individually to help ensure suitability for hot dip galvanising, handling and safe processing.

Hot dip galvanising is intended for suitable steel fabrications designed for galvanising. The temperature of a galvanising bath is around 450°C, meaning products such as aluminium and stainless steel cannot be galvanised.

Material type, fabrication design and processing suitability should be considered before manufacture and galvanising.

Considerations may include:

- dimensions
- weight
- venting and drainage
- lifting points
- fabrication design

Bath working dimensions+:

- 5.2m length
- 1.35m width
- 2.4m depth
- handling capability up to approximately 1 tonne
- automated handling system
- Swedish-designed air emission cleaning system



Design Considerations

Venting & Drainage

- Fabrications must be correctly vented and drained for safe galvanising and effective zinc flow
 - Sealed sections or trapped liquid can create serious safety hazards during galvanising
 - Vent and drain holes should support natural zinc flow and drainage characteristics
 - Cropped corners on square fabrications can help improve zinc flow and finish quality
 - Hollow sections should be connected or individually vented to ensure full protection
 - Preferred minimum drain hole size: 25 mm
 - No drain hole should be less than 10 mm
 - Larger hollow sections may require increased drain hole sizing depending on enclosed volume
- Open-ended tube, RHS and SHS sections are generally preferred where possible

Surface Preparation & Contamination

- Clean steel surfaces are essential for successful hot dip galvanising
- Silicone contamination, oils and anti-spatter products may affect coating quality
- Surface contamination is not always visible prior to galvanising
- Additional treatment or re-galvanising may be required where contamination affects coating performance

Contacting Surfaces

- Large flat contacting surfaces should be continuously welded where possible
- Venting between contacting sections may be required to reduce pressure and safety risks during galvanising
- Fabrication design should consider safe zinc flow and drainage throughout the assembly

Standards & Quality Overview

Galvanising is carried out in accordance with **BS EN ISO 1461**, providing long-term corrosion protection for steel fabrications used in demanding environments. Our galvanised products are put through rigorous testing regimes to ensure a high quality service is undertaken each and every time. In-house quality procedures support consistent galvanising standards and operational control throughout the process.

SEPA - Scotland Environment Protection Agency monitor all of our emissions and any corrosive ingredients to ensure the environment is not impacted by our plant. All staff undertake health and safety, fire awareness and risk assessment training to support safe, consistent and regulated operational standards.

Additional Services

Additional finishing services can be arranged on request, including:

- Shotblasting
- Powder Coating

Need guidance before galvanising?

Early discussion during fabrication or project planning can help identify practical galvanising considerations and support smoother processing. See contact details below.