

Excellence in Galvanizing

WEDGE

**WESSEX
GALVANIZERS LTD**



GALVANIZING STEEL FOR LIFE

Hot Dip Galvanizing is a highly effective corrosion prevention treatment that creates long-lasting protection for any type of steelwork.

www.wedge-galv.co.uk



WHY CHOOSE GALVANIZING



WHAT IS HOT DIP GALVANIZING?

Hot dip galvanizing is a process developed to prevent steel from corroding.

Before the process can take place, the steel goes through a thorough chemical clean, which removes all rust, oil and mill scale from the surface.

When the cleaning solution has been rinsed off, the coating process can begin.

The steel is dipped into a bath of molten zinc heated to around 450°C (860°F) before being left to cool in a quench tank. When the cooling process is complete, the zinc coating is then metallurgically bonded to the steel.

COST EFFECTIVE SOLUTION

There are numerous benefits to hot dip galvanizing, the most significant of which is its ability to dramatically extend the lifetime of steel products in a range of environments; particularly important since an estimated 4% of the world's GDP is lost each year through corrosion.

Galvanizing's ability to prolong a product's lifetime makes it highly cost-effective, since little or no maintenance is required – giving hot dip galvanizing the lowest overall cost compared to other protective steel coatings.

Unlike most coatings, such as paint, which rely solely on preparation of the steel to obtain adhesion, hot dip galvanizing produces a coating bonded metallurgically to the steel.

In other words, the iron and zinc react together to form a series of alloys, which make the coating an integral part of the steel surface with excellent cohesion.

As well as the corrosion protection galvanizing offers, it also provides sacrificial protection as the zinc corrodes in preference to steel and sacrifices itself to protect the steel.

Providing the steel with three methods of protection:

1. The coating weathers at a very slow rate.
2. Scratches are sealed by weathering products from the zinc.
3. With large damaged area, the sacrificial protection prevents the sideways creep of rust.

WEDGE GROUP GALVANIZING

Wessex Galvanizers Ltd is part of Wedge Group Galvanizing Ltd, the UK's largest hot dip galvanizing organisation. The Group can process anything from a 1.5mm washer to a 29 metre beam.

Our continued investment in new technology and equipment, together with our commitment to customer care ensures that we offer you 'Excellence in Galvanizing'.



Industry Innovators

Continual investment and improvements ensure all our plants are designed and equipped to set industry-leading standards for sustainability and low environmental impact.

These include:



Using the most innovative pulse-fired high velocity systems in our plants which improve fuel efficiency and performance



Rain water harvesting at our plants to re-use water in the process



LED lighting throughout our plants and offices



We were the first UK galvanizer to be Lead and Chromium Trioxide free

ABOUT US

Based in Eastleigh, Hampshire, Wessex Galvanizers offers widespread coverage of Hampshire, Dorset, Wiltshire, Poole, Berkshire, West Sussex, Surrey, Isle of Wight, Wiltshire, Southampton, Middlesex and parts of London. We provide a fast turnaround and unrivalled customer service.

Our experienced team is always on hand to provide free advice about your galvanizing requirements and help with best practice steelwork design for optimum galvanizing quality.

Bath Size: 7m x 1m x 2.7m

Max Lift: 4 tonnes

OUR SERVICES

- Daily collection and delivery
- Site deliveries
- 24hr turnaround on request
- Unrivalled customer service
- Compatible systems with CE marking
- Free technical advice
- Spin Galvanizing (sent to another Wedge Group Plant)
- Group capability up to 29m.



GALVANIZING AND THE CIRCULAR ECONOMY

HOW IS GALVANIZED STEEL MORE SUSTAINABLE THAN NON-GALVANIZED STEEL?

Hot dip galvanizing is essentially the process of coating clean steel with a layer of molten zinc to protect it from corrosion and provide a long-lasting and durable surface.

It's more robust than other coatings that only bond chemically or mechanically, and it has the added advantage of fully coating the steel.

As a finish, it is not only highly effective, but is also extremely eco-friendly. A single, one-off treatment will coat a product both inside and out, providing a finish which can protect steel and keep it maintenance-free for more than 70 years, often longer in the right conditions.

WHAT HAPPENS TO LEFTOVER ZINC?

Any molten zinc which does not instantly form a metallurgic reaction with the steel, remains in the galvanizing bath to be reused again and again. Zinc can be reused repeatedly without having any negative impact on its chemical constitution.

IS GALVANIZED STEEL RECYCLABLE?

Galvanized products, once constructed or installed, can also be removed, re-galvanized and re-used. They are also easily recycled with steel scrap in the steel production process.



HOW LONG DOES GALVANIZED STEEL LAST?

Galvanized steel can last more than 70 years in the right conditions.

In fact, data has shown that it provides between 34 (in very harsh environments) to 170 years of protection to steel.

Unlike paint or powder coating, galvanizing doesn't need to be maintained throughout its life to ensure continued effectiveness - reducing the need for manual labour, and the associated costs of down-time to conduct repairs and maintenance.

One of the main atmospheric pollutants that affect the performance of hot dip galvanizing is Sulphur Dioxide.

SUSTAINABLE

Sustainability is becoming a significant consideration when choosing materials to ensure that buildings are as sustainable as possible. Galvanizing has long been seen as the most environmentally-friendly finishing process available to prevent corrosion, as it is highly sustainable and produces minimal waste.



MAIN BENEFITS OF GALVANIZING

- Long life - galvanizing creates an easy to clean surface which can give a maintenance free life of more than 70 years (depending on the environment used in).
- When maintenance eventually becomes necessary, it is straightforward. No complex preparation treatments are required.
- Lowest lifetime costs - low initial cost and long life make galvanizing the most versatile and economic way of protecting steel for long periods.
- The benefits of no maintenance, or extended maintenance intervals, include fewer problems of access in remote areas, difficult terrain, when buildings are closely packed together or when there area safety restriction such as electricity pylons.
- Costing toughness - galvanizing is unique. The hot dip process produces a coating which is bonded metallurgically to the steel. No other coating process has this feature and, as a result, galvanized steel has by far the greatest resistance to mechanical damage during handling, storage, transport and construction - an important factor where steel work is to be shipped around the world.
- Complete coverage - because it is formed by dipping steel into molten zinc, all parts of the surface of the steel are coated - inside, outside, awkward corners and narrow gaps which would be impossible to protect in any other way.
- The coating actually tends to build up at vital corners and edges rather than thinning out as is often the case with brushed, sprayed or other dipped coatings.

OUR COMMITMENT TO SERVICE AND QUALITY

GALVANIZING QUALITY

All works are undertaken strictly in accordance EN ISO 1461 and under the control of ISO 9001.

All hot dip galvanizing is carried out in a CLASS 1 BATH with agreed compositional limits and records of assessment retained for 10 years.

Our galvanizing baths are also Chromium Trioxide and lead free.

We have a Quality and Technical department, along with a dedicated representative at each plant to oversee our quality to ensure it's not only compliant with the latest legislation, but also meets the internal standards we set.



CUSTOMER PROMISE

We understand that customer satisfaction is paramount to success and in ensuring we maintain our reputation for both quality and care.

Our customer promise is:

- Be Flexible – commitment to our customer needs.
- Be Reliable – highest standards of quality and service.
- National Network – local relationship, group strength.
- Sustainable – by design.

We regularly undertake customer service surveys through the globally renowned Net Promoter Score scheme which measures customer loyalty and satisfaction.

Our Customer Promise is lived and breathed by all of our 15 plants. It is a commitment we make as a group to our customers to be flexible, responding to their needs and requirements, and to be reliable, delivering the highest standards of product and service quality. We also utilise our national network of plants, combining strong local relationships with the support of the wider group, while remaining sustainable by design, ensuring responsible practices are built into everything we do.

We continue to enhance our galvanizing service with investment in new fleet, new galvanizing plant and equipment, technology enhancements, as well as a commitment to further invest in more sustainable practices.

WEDGE GROUP GALVANIZING

As part of the largest galvanizing organisation in the UK we have access to a dedicated spin galvanizing plant and the UK's largest galvanizing bath.

The groups continued investment in new technology and plant, together with our commitment to customer care, ensures we offer first-class quality and service.

All our plants are designed and equipped to set industry-leading standards for sustainability and low environmental impact.

For a full list of all our plants; use the QR code below to visit our website:



LARGEST BATH IN THE UK

Based in Worksop, Nottinghamshire, Worksop Galvanizing has the largest galvanizing bath in the UK at 21m long, meaning that steel lengths of up to 29m can be galvanized (double dipped).

Worksop Galvanizing offer a nationwide collection and delivery service, along with a fast turnaround and unrivalled customer service.

SPIN GALVANIZING

Our plant, B.E. Wedge Ltd are specialists in centrifuge galvanizing of small parts including threaded fasteners up to 2m long. We can also galvanize all types of cast iron.

B.E. Wedge offers regular collection and delivery services along with unrivalled customer service.

Acrow Galvanizing Ltd

14 Piperell Way, Haverhill, Suffolk, CB9 8PH
Tel: 01799 522219 Email: acrow@wgg ltd.co.uk
Bath Size: 5m x 1.1m x 3.2m

B. E. Wedge Ltd

Stafford Street, Willenhall, West Midlands, WV13 1RZ
Tel: 01902 630311 Email: wedge@wgg ltd.co.uk
Bath Size: 7.62m x 1.22m x 2m
(Centrifuge Galvanizing Specialist)

East Anglian Galvanizing Ltd

Old North Road, Sawtry, Cambridgeshire, PE28 5XN
Tel: 01487 833160 Email: east.anglian@wgg ltd.co.uk
Bath Size: 8m x 1.3m x 3.1m

Edward Howell Galvanizers Ltd

Watery Lane, Wednesfield, West Midlands, WV13 3SU
Tel: 01902 637463 Email: edward.howell@wgg ltd.co.uk
Bath Size 1: 10m x 1m x 2.4m
Bath Size 2: 4m x 1.3m x 3m

Humber Galvanizing Ltd

Unit J, Citadel Trading Park, Hull, HU9 1TQ
Tel: 01482 322466 Email: humber@wgg ltd.co.uk
Bath Size: 7.5m x 1.05m x 2.5m

Manchester Galvanizing Ltd

Green Lane, Heywood, Lancashire, OL10 2DY
Tel: 01706 366191 Email: manchester@wgg ltd.co.uk
Bath Size: 10m x 1.4m x 2.9m

Merseyside Galvanizing Ltd

Blackburne Street, Garston, Merseyside, L19 8JA
Tel: 0151 427 1449 Email: merseyside@wgg ltd.co.uk
Bath Size: 6.2m x 1m x 2.4m

Metaltrat Galvanizers

Metaltrat House, Canal Road, Bradford,
West Yorkshire, BD2 1AN
Tel: 01274 221500 Email: metaltrat@wgg ltd.co.uk
Bath Size: 6m x 1.1m x 2.5m

Newport Galvanizers Ltd

Llanwern Works, Newport, Gwent, NP19 4QX
Tel: 01633 277400 Email: newport@wgg ltd.co.uk
Bath Size: 6.8m x 1.1m x 3.5m

North East Galvanizing Ltd

St Johns Rd, Meadowfield Industrial Estate, Durham, DH7 8RJ
Tel: 0191 380 0194 Email: north.east@wgg ltd.co.uk

Scottish Galvanizers Ltd

MacLellan Street, Glasgow, G41 1RR
Tel: 0141 427 3041 Email: scottish@wgg ltd.co.uk
Bath Size: 14.2m x 1.1m x 2.9m

South East Galvanizers Ltd

Crittall Road, Witham, Essex, CM8 3DR
Tel: 01376 501501 Email: south.east@wgg ltd.co.uk
Bath Size: 10m x 1.5m x 2.9m

South West Galvanizers Ltd

Marsh End, Lords Meadow Industrial Estate,
Crediton, Devon, EX17 1DN
Tel: 01363 774574 Email: south.west@wgg ltd.co.uk
Bath Size: 10m x 1m x 2.1m

Wessex Galvanizers Ltd

Tower Industrial Estate, Tower Lane,
Eastleigh, Hampshire, SO50 6NZ
Tel: 02380 629952 Email: wessex@wgg ltd.co.uk
Bath Size: 7m x 1m x 2.7m

Workshop Galvanizing Ltd

Claylands Avenue, Worksop, Nottinghamshire, S81 7BQ
Tel: 01909 486384 Email: workshop@wgg ltd.co.uk
Bath Size: 20.5m x 1.35m x 2.4m
(Longest Galvanizing Bath in the UK)