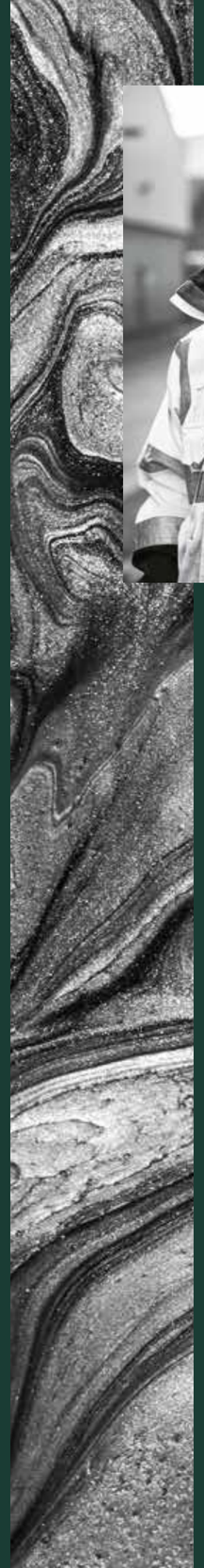
# Leeds Galvanising & Powder Coating

Enhancing the future of world-class structures

lgpc.ltd



Innovation is where we excel. We are always striving to both improve the quality of our service and promote economically and environmentally sustainable methods of industry.

This is why we've invested extensively in our own equipment to reduce energy consumption, while at the same time ensuring we continue to offer the same level of quality.

Founded over 15 years ago, we have grown from one of the smallest galvanisers in the country to the largest galvanising and powder coating plant in the North of England. We utilise the latest materials handling systems and technology to ensure the highest quality and efficient processing results. Years of experience in the industry have forged us into the metal treatment experts we are today and we offer a high-specification, professional service for customers throughout the UK.

**Simon Kelly**
Managing Director

## As a market leader LGPC offers shot-blasting, galvanising & powder-coating under one roof.

Leeds Galvanising and Powder Coating Ltd is a full-service coatings provider ready to meet all your metal finishing requirements.

LGPC provides market leading quality by offering a complete end-to-end solution of shot blasting, hot dip galvanising and powder coating to enhance world-class structures.

With all of these services available on one site, we help you reduce costs by removing the need for transporting products between other coating providers, making sure project timescales stay on track, and save you time and effort looking for separate suppliers.

We also pride ourselves on building trust and integrity with our partners, and strive to deliver outstanding customer service, whilst also ensuring we constantly review our processes through innovation and technological advancements to build a more sustainable future.

## Our Vision

# Enhancing the future
of world-class structures

## Our Mission

Building an accessible, recognised and trusted brand, **offering a complete coating solution of market leading quality.**

## Our Cultures and Values

We think **long term.**

We build trust and integrity with our Partners.

We pride ourselves on customer **experience.**

We have **concern** for the environment.

We have concern for the **community and workforce.**

We ensure we provide a **safe working space.**

## Accreditations

**Quality is in everything we do.** We are accredited by a number of leading authorities to ensure our finishes meet the highest standards.

# Accreditations and Affiliations: Quality is in everything we do.

**We are accredited by a number of leading authorities to ensure our finishes meet the highest standards.**

Our BS ISO 9001:2015 accreditation demonstrates our ability to consistently provide products and services that meet customer and regulatory requirements which demonstrates our commitment to continuous improvement.

We are committed to staff welfare and safety. This is reinforced by the attainment of BS ISO 45001 accreditation which is the world's international standard for occupational health and safety, issued to protect employees and visitors.

We work to BS EN ISO 1461:2009 standards to deliver the highest quality galvanised coatings for our customers. For powder coating we work to the industry standard in BS EN ISO 13438:2013.

LGPC are a member of the Institute of Environmental Management and Assessment (IEMA), and are accredited with BS ISO 14001 which demonstrates our commitment to reducing waste in addition to our carbon footprint.

We segregate and recycle all our waste products whilst treating and disposing of any contaminants in a statutory compliant manner. This process is subject to periodic audit by the appropriate governing bodies.

# Ensuring the standard of quality coated steel.

## Having recently acquired the Qualisteelcoat accreditation, LGPC have been elevated to the best full-service coating provider in the market.

Ever since 2007, Qualisteelcoat has been an international quality label for powder coating on steel which has been hot dip galvanised. The objective of this quality association is to ensure the maintenance, promotion and continual improvement of the quality standard for coated steel.

LGPC's Qualisteelcoat accreditation ensures full compliance with quality standards and technical specifications through a formal process of daily in-house monitoring and control procedures. Annual inspections and laboratory tests are carried out by independent bodies, ensuring the long-term value and the highest quality standards.

## LGPC offer best-in-class services, value for money, guaranteed delivery times, full conformity to standards and technical specifications and minimises the environmental impacts of our activities.

Gaining the Qualisteelcoat accreditation means that LGPC is the only end-to-end service provider in the UK, to hold this internationally recognised standard of finishing excellence.

quali steel coat

International Quality Label for Coated Steel

Image provided by | Dearneside

# Circular Economy
## of galvanised steel

**Sustain**
- Longevity
- Low Pollution
- Reduced Waste

**Recycle**
- Reuse
- Repurpose
- Refurbish

**Preserve**
- Resilience
- Low Maintenance
- Enhanced Performance

Every 90 **seconds one tonne of steel** turns to **rust.**

# Ensuring sustainability with LGPC.

For every **two tonnes** of steel made **one tonne is to replace rusted material.**

The European Association of Galvanisers estimates that 8 million tonnes of steel is subjected to hot dip galvanising every year. Considering it has the ability to preserve steel for decades, this process has major environmental benefits, especially when you take into account its circular economy of materials.

### Preservation

First and foremost, galvanising serves to protect metal from atmospheric conditions. A galvanised coating allows steel to remain in situ without needing repeated maintenance in locations where it would normally rust from exposure to the elements. Self-healing and impact resistant, it offers superior performance and outstanding resilience over time.

### Sustainability

The longevity of galvanised coatings is truly outstanding, often providing reliable service for 75 – 100 years without remedial work. Not only does this make it astoundingly effective, it also removes the need for manufacturing fresh steel – a far more intensive process that creates greater emissions. LGPC's optimised and energy-efficient machinery improves on this process even further and keeps waste to a minimum.

### Recycling

A large quantity of materials used in the galvanising process can be reused over and over again without any drop in quality. In many instances, galvanised steel does not need to be reprocessed. It's preserved so well that it can be reused and repurposed for other construction projects. It is also exceptionally simple to refurbish, allowing the industry to retain more material without consuming additional resources.

# How we make our processes more sustainable.

We take sustainability seriously at LGPC, and in order to make our own processes greener and more efficient, we undertook an energy audit of our business and made several improvements:

**01**

Maintaining our ISO14001 accreditation and adhering to the principles of this.

**02**

Reducing energy consumption by investing in new low kilowatt ovens.

**03**

Recycling heat generated from treatment baths to heat other areas of the plant.

**04**

Installing a state-of-the-art novel flux regeneration plant, to extend the life of pre-treatment solutions.

**05**

Optimising oven design for increased energy efficiency.

**06**

Switching to sensor controlled, energy efficient LED lighting.

**07**

We reduce our environmental impact through maintaining high standards of waste segregation and both on/off site recycling and processing.

# Galvanisation as a sustainable process.

## Galvanisation, at its core, is an inherently sustainable process as it focuses on increasing the longevity of steel and giving it greater protection against corrosion.

Hot dip galvanising provides long-lasting protection for iron and steel through a robust, metallurgically bonded coating with self-healing properties.

When steel receives the protection it needs, it can remain in place for decades without requiring maintenance and greatly helps to lower emissions by reducing the amount of new steel needing to be fabricated. This makes it a vital asset to reducing the energy demands in construction, especially at a time when we must all be more mindful of our environmental impact.

We've invested in the very best technology to minimise energy usage and maximise efficiency. We're reducing emissions to help pave a brighter and more sustainable future.

## An efficient circular economy of materials.

Another important reason why galvanising is so sustainable is due to its exceptionally efficient circular economy.

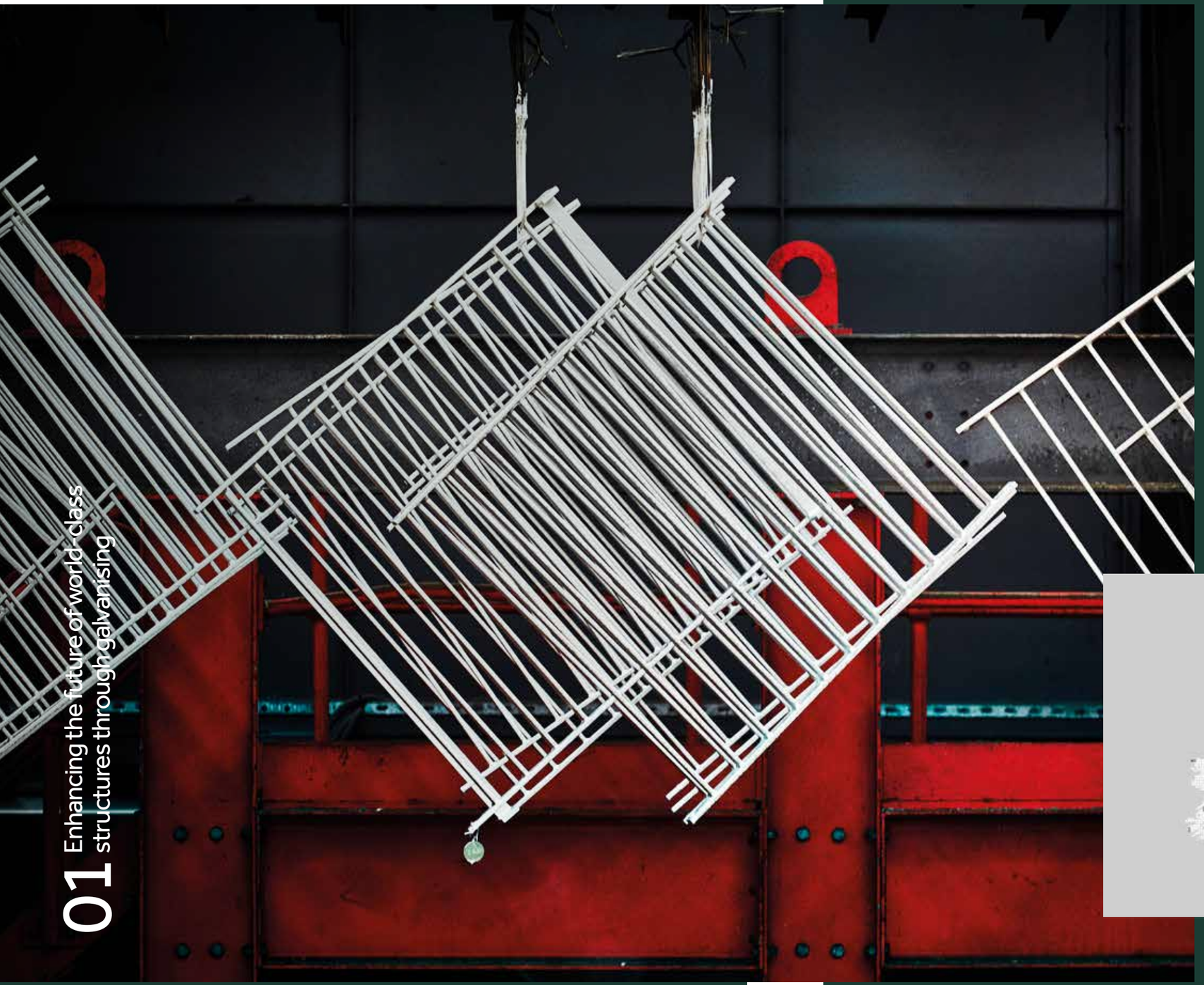
Very little is wasted throughout the process. Galvanised steel is very easy to recycle and refurbish, extending its lifecycle almost indefinitely, and the process of galvanising itself has also been refined considerably in recent years to make it even more sustainable.

IEMA Transforming the world to sustainability

## LGPC are corporate members of the Institute of Environmental Management & Assessment, (IEMA) an organisation with the stated mission:

"By mobilising our expertise we will continue to challenge norms, drive new kinds of enterprise and make measurable progress towards our bold vision: transforming the world to sustainability."

Examples of LGPC's commitment to save energy and reduce waste include: Carrying out an independent energy audit, installing new energy efficient equipment and replacing existing lighting with low energy LED's.

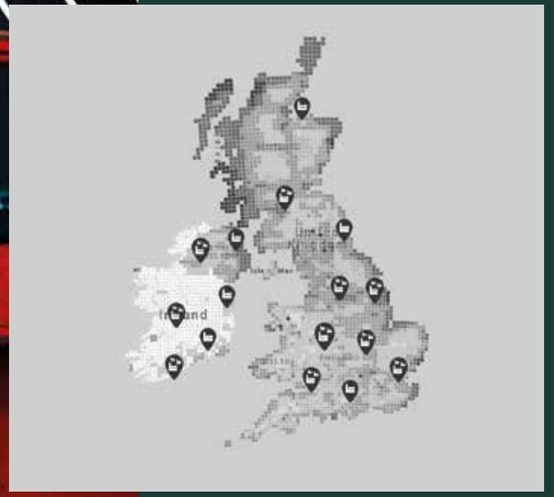


01 Enhancing the future of world-class structures through galvanising

# Comprehensive and professional galvanising services.

**The hot dip galvanising facilities we have on site are second to none. Through galvanisation, we can protect your steel and give it exceptional durability that will last decades without extra remedial work.**

We are experts at galvanising commercial fabrications for industry and in many instances offer turnaround within a 24-hour timeframe. Wherever you are based in the UK, we collect and deliver regularly nationwide so please get in touch for details and pricing.



## Corrosion Map

This map provides data for the atmospheric corrosion rate of hot dip galvanizing. Search for a location and hover over the 10 km grid to obtain the corrosion rate. The map legend can be used to find the average life of an 85 µm coating within the area.

Use our QR code or visit:
galvanizing.org.uk/corrosion-map

# What is hot dip galvanising?

Hot dip galvanisation is a process where cleaned steel is immersed in a bath of molten zinc, creating layers of zinc-iron alloy which provide an extremely durable protective coating. The galvanised coating becomes metallurgically bonded to the steel to provide barrier protection against the elements. As zinc corrodes in preference to steel, it sacrifices itself to protect the steel beneath, and also has self-healing properties that make it more beneficial than a standard paint coating.

We work to **BS EN ISO 1461:2009** standards to deliver the highest quality coatings for our customers.

LGPC caters to fabrications of all sizes, from smaller machine parts, to domestic fencing, to commercial-scale balustrades. This also includes specialist one-off pieces, such as metal sculptural structures that need additional protection outdoors. Whatever scope you're working with, contact us directly to find out how we can help.

# What are the benefits of hot dip galvanising?

### Protects steel for decades

Depending on the thickness of the coating and atmospheric conditions, hot dip galvanising can protect steel between 30 - 170 years.

### Zinc has self-healing properties

When zinc corrodes, the products from this process precipitate and create a barrier on the surface of the exposed steel, helping to protect it further.

### Champions sustainability

Galvanising is all about preserving the resources we have. It offers considerable protection against rust through a relatively low energy process.

### Exceptionally cost effective

Though the initial price may be higher than coatings like paint, its outstanding durability means that galvanising pays for itself over time because it requires less upkeep.

### Has a circular economy of materials

Galvanised steel can be reused and repurposed without a drop in quality, but is also exceptionally easy to refurbish.

### Provides superb protection against wear

When zinc bonds to steel, it creates a shock-absorbing buffer to protect it from impacts. The zinc-iron alloys beneath can also be harder than the steel itself.

Talk to our team at LGPC to find out how we can help your project.

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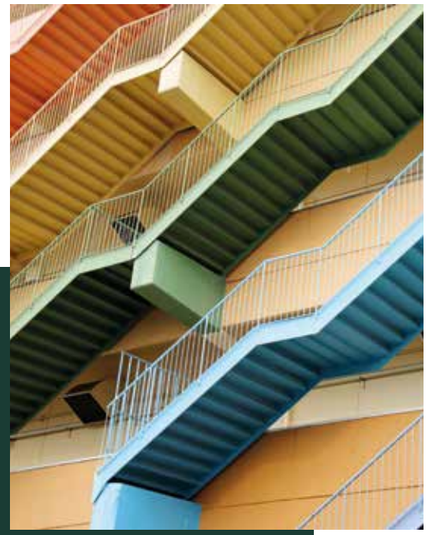
**BS EN ISO 13438:2013** - which ensures the highest level of durability and protection.



## Powder coating specialists serving businesses across the UK.

We are experts in powder coating and use the very latest technologies to produce professional finishes with aesthetic flair. Offering a more environmentally friendly alternative to traditional painting, our powder coating services can be tailored to match specific colour requirements for commercial applications and smaller fabrications. Powder-coating is a natural match for galvanised steel and provides the surface with additional protection as well as a striking aesthetic.

### What is powder coating?

Powder coating is a finishing process where a fine powder of resin is electrostatically applied to a surface then placed in an oven at high temperature, which liquefies the powder and sets it into place, a process known as curing. This achieves a far more uniform look compared to wet paint and superior resistance to wear.

### Creating stunning finishes to professional standards.

Our team can provide a variety of textures, finishes and colours for your steel to achieve the desired effect. We hold AkzoNobel Approved Applicator status for galvanised steel. AkzoNobel are world-class suppliers of powder and textured coatings, who offer support and advice relating to specialist finishes.

Our box oven facility at LGPC gives us the ability to handle larger and heavier items. Using specially designed jigs to increase processing efficiency translating into time and cost savings for our customers without any compromise on quality.

**Talk to our team at LGPC** to find out how we can provide you with hard wearing, reliable, weather-resistant powder coatings.

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# What are the benefits of powder coating?

Doesn't release VOCs (volatile organic compounds) into the environment like paint.

Powder used in the process can be collected and reused for improved sustainability.

Has a lower cost over time compared to other finishes.

Achieves a professional, even look and is easy to clean.

Offers a wide range of colour options as well as some textured finishes.

Provides good protection against chipping, scratches and corrosion.

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02 Enhancing the future of world-class structures through powder coating

AkzoNobel

# Fettling galvanised metal for the optimum finish.

After the galvanising process, we fettle your steel so that any zinc deposits, lumps and drips are removed, ensuring it has a smooth surface. Our professional team has the skill and equipment to remove imperfections and prepare your metalwork for powder coating. We pride ourselves on our attention to detail during this stage because we understand the importance of a pristine finish for our customers. This is why all steel is thoroughly inspected by our team after fettling.

03 Enhancing the future of world-class structures through fettling

## What is fettling?

Fettling happens after steel has been hot dip galvanised and involves smoothing, cleaning and conditioning the metal to fulfil aesthetic and functional requirements. Molten zinc naturally has a tendency to run and can create run-off patterns as it cools. Though these inclusions will not be detrimental to the performance of the coating, they must be treated, especially if another application (e.g. powder coating) is required for the topmost finish.

## How we fettle your galvanised steel.

As zinc runs it could interfere with the intended use of your material. Any lumps, globules, projections or heavy deposits are removed using angle grinders to ensure a successful finish. This is essential if your steel will go on to be powder coated as it promotes superior adhesion. By offering all of these services in-house, we can ensure quality control throughout the entire process, from cleaning, to galvanising, to fettling and then, finally, powder coating.

**Talk to our team** to find out how LGPC can help your project.

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### Our Projects

Yellow Hill, Bespoke Internal Stables & American Barn Stables

### Services

Hot dip galvanising and fettling

### Location

Private residence, Northern England

As a full-service galvanising provider, we fettle metalwork to the highest standard to produce finishes with optimum performance.

# Shot-blasting and blast cleaning services with nationwide reach.

At LGPC, we use state-of-the-art equipment to provide both automated and hand-blasting services. Whether you require large-scale commercial blasting or need to prepare machine parts and components, our knowledgeable team can provide you with guidance and advice on the best process for your project. Our transport fleet collects and delivers regularly across the whole of the UK, so get in touch with us directly for more details.

Our shot-blasting team are experts at preparing steel and ironwork of all sizes, ensuring top quality, professional results.

## What is shot-blasting?

Shot-blasting is a process of abrasive cleaning where small particles, like steel grit or garnet, are fired against an object to remove any unwanted coatings or contaminants from the surface. It is a highly effective way to prepare a surface for further applications because it can remove oxides and old coatings, whilst also helping to smooth out rough areas to promote adhesion. Shot-blasting is the natural first step before galvanising and powder-coating as it ensures the very best results and a uniform finish.



## What are the benefits of shot-blasting?

Removes rust and scale

Can increase surface strength of the material

Efficient, chemical-free process

Shot-blasting is highly effective in preparing a surface for further applications

Deburrs and smooths out surfaces

Prepares surfaces for further coatings

Restores items to their original state

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# Our projects.

## Blackfriars Circus.

Our finishes can be seen all across the UK, providing high-quality protection for metalwork in industrial, public and commercial spaces. From apartment balcony railings, to outdoor sculptures, we've provided a trusted service to a range of sector projects.

### Services

Galvanising & Powder Coating

### Location

London, SE1

### Scope

Balcony Balustrade, Juliette Balconies, Structural Steelwork, Retail Stairs, Staircore Balustrade & Handrail, Secondary Steelwork, Access Steelwork

01 Enhancing the future of world-class structures through galvanising

### Project

## Chobham Manor

### Services

Shot Blasting, Galvanising & Fettling

### Location

London, QE2 Olympic Park

### Scope

Balcony Balustrade, Metal Railings, Structural Glass Balustrade, Steel / Glass Juliettes, Privacy Screens, External Metalwork, Steel stairs, Cycle Stands

### Projects

## London City Island

### Services

Shot Blasting, Galvanising, Fettling & Powder Coating

### Location

London, QE2 Olympic Park

### Scope

Bolt on Balconies, Juliette Balconies, Structural Steelwork, Stair Core Balustrade & Handrail, Secondary Steelwork, Access Steelwork

### Projects

## Vita, UK No1 Student Experience

### Services

Shot-blasting, Galvanising & Fettling

### Location

York

### Scope

Decorative Facade Panels

### Projects

## Nine Elms (Embassy Gardens)

### Services

Shot-blasting, Galvanising & Fettling

### Location

London

### Scope

Balcony & Balustrade

# Working in partnership with LGPC.

## LGPC are ready to help with projects big or small, from large-scale commercial projects to domestic metal refurbishment.

Get to know the names and faces behind LGPC. We're a close-knit team of experts dedicated to delivering exceptional service.

Our galvanising services along with shot-blasting, fettling and powder coating will ensure that you achieve long-lasting durability and performance, especially because all our services include shot-blasting BS EN 8501-1, galvanising, BS EN 1461:2009 and powder coating BS EN 13438:2013.

Just tell us the details of your project and one of our advisors will get back to you as soon as possible to discuss your project.

## LGPC caters for any size of project

LGPC can cater to especially large structural components using a 'double-dip' method. This means that even if a piece of metalwork is larger than the zinc baths available at our facilities, we can dip one half first, then the other to ensure total coverage.

Call our team for further details.

## Project

### Works completed for a Multi-National Blue Chip Company

**Services**

Shot Blasting, Galvanising & Powder Coating

**Location**

Ireland

**Scope**

1200 tonnes of heavy structural beams 7m long

# In essence, galvanising is about preservation.

**The steel structures, monuments, bridges and artworks we galvanise today will likely still be standing strong in 100 years' time, providing reliable service for the generations that follow.**

Galvanising to protect what we have in the present not only ensures an efficient use of resources but also serves to connect us to our industrial heritage.

Albion Works was also the site where some of the first torpedoes were built for the Royal Navy.

## The lasting legacy of Albion Works.

LGPC is built on such history. The site of our plant, Albion Works, has been used in the production of machining and metalwork since 1859.

**Albion Works was built by Greenwood & Batley, who quickly established Leeds as a powerhouse of industry, manufacturing armaments, printing presses, milling machinery, trams and locomotives, and even made the hands of the Leeds Town Hall clock.**

Though the heyday of Greenwood & Batley came to a close, it cemented Albion Works as a renowned hub for British industry and paved the way for LGPC to build on the area's already considerable reputation.

## Galvanising and refurbishment services.

**Galvanising has the power to bring history into the now, preserving it for decades and even centuries to come.**

We have assisted in a number of refurbishment and restoration projects for our customers, including Victorian ornate fencing, classic car chassis and antique machine parts.

The end-to-end service we offer at LGPC means that we can strip back years of rust and add protective finishes to bring historical pieces back to their original state of quality - or even improve on it. Contact us today to find out how we can help with your project.

# Our expert team are ready to help with your project.

Need advice about your project? Talk to our knowledgeable team, who draw from years of experience to provide trusted guidance and support. We can make recommendations for what finishes will be best for your metal, as well as provide further information on our services. We'd love to hear from you. You can call, email, visit our offices or visit our website and contact us filling out our online contact form. We'll get back to you as soon as possible. We look forward to hearing from you.

**Talk to our team to find out how LGPC can help your project.**

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Head Office and LGPC plant:

Albion Works, Armley Road,
Leeds, LS12 2EJ

**Standard Office & Yard Opening Times***

**Monday - Thursday**
8am – 5.30pm

**Friday**
8am – 3.30pm

*Collections and Deliveries outside of these times can be facilitated by prior arrangement.