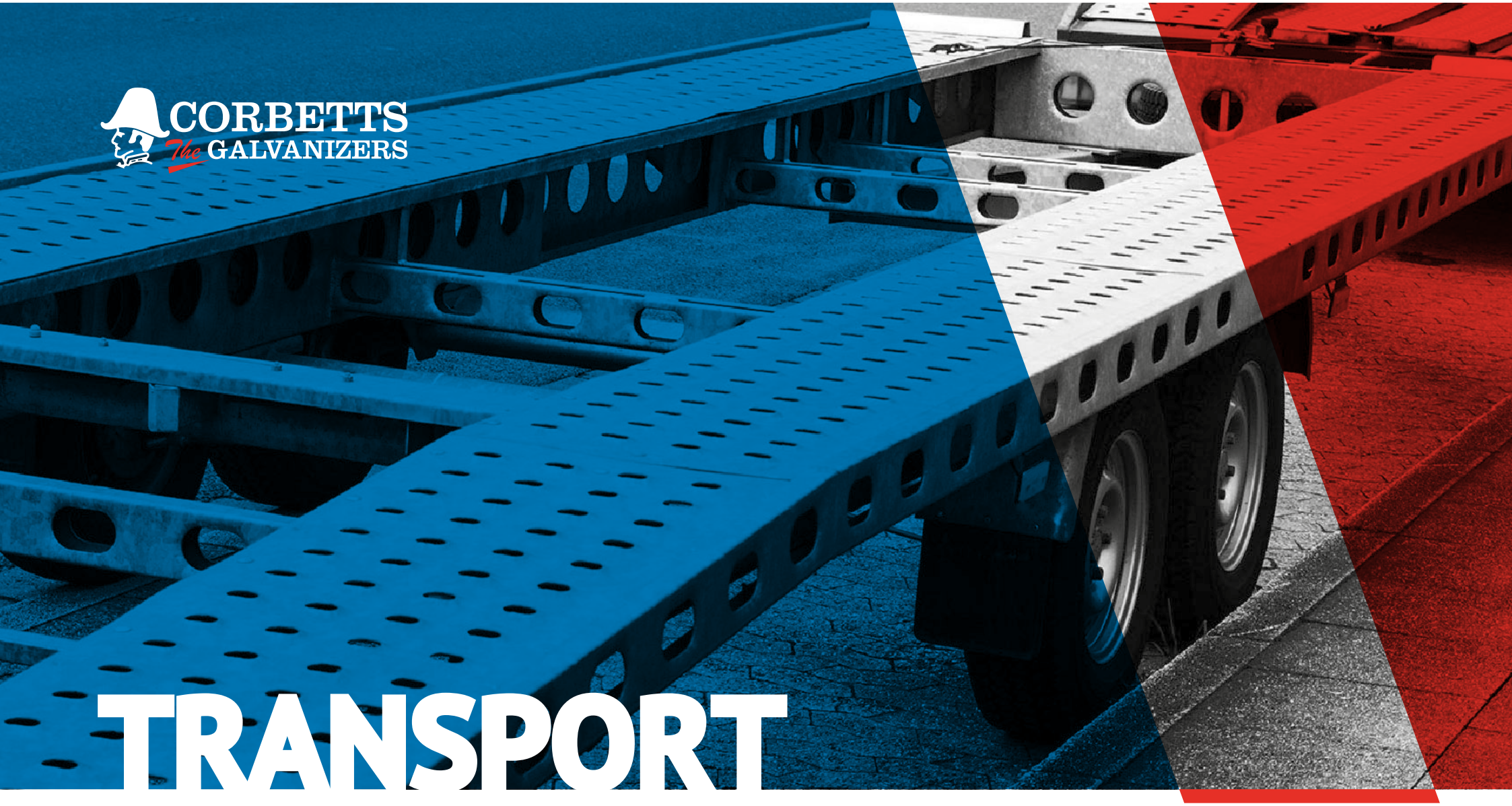


TRANSPORT

Galvanizing in transport ancillaries – long-term protection for sector ancillaries

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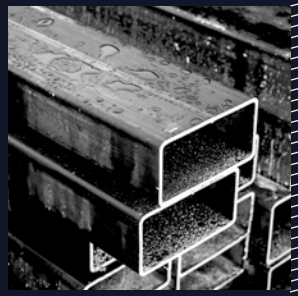
Why galvanizing matters in transport

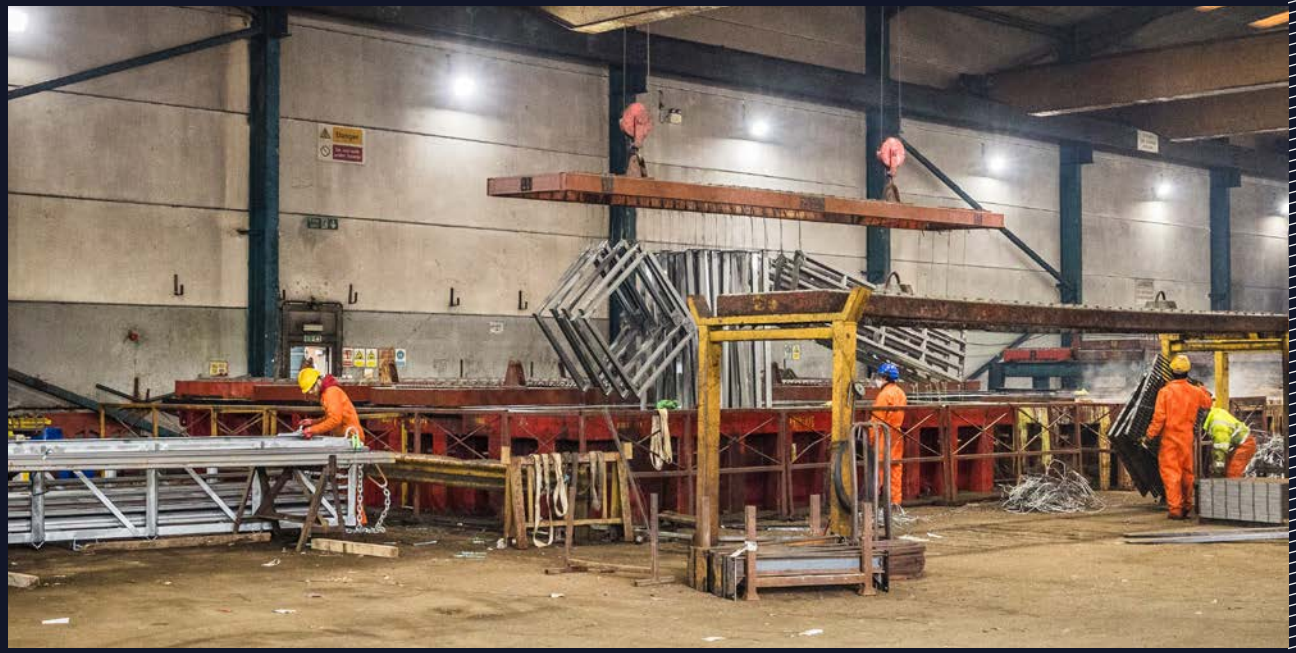
Across the transport sector, safety, durability, and compliance aren't optional – they're essential. Whether it's infrastructure in public stations, mobile plant machinery, or safety-critical ancillaries, the common thread is steel. And left unprotected, steel fails.

Galvanizing offers long-term corrosion protection in some of the sector's harshest environments. From bus depots and airports to rail yards and motorways, galvanized components reduce downtime, extend service life, and keep operations compliant. It's not just about performance – it's about trust.









Sector specific:

Passenger lift rails & guides

Smooth travel starts with safe rails.

Passenger lift rails are found in stations, airports, and multistorey car parks – areas exposed to humidity, temperature change, and heavy use. These vertical or inclined metal tracks guide lifts safely and must maintain their structural integrity to ensure safe operation.

Galvanizing these components prevents corrosion-related instability, ensuring smooth operation and long-term safety. It also reduces maintenance frequency and costs, which is critical as lift installations rise with station refurbishments and accessibility upgrades.

> “If it’s not galvanized? You risk rust, costly replacements, and avoidable safety hazards.

Sector specific:

Plant-vehicle ancillaries & excavator attachments

Built for extremes. Galvanized for longevity.

Safety railings, access ladders, buckets, frames, and mounting brackets all face rough handling and relentless exposure on construction sites, quarries, and highways. These aren't cosmetic extras – they're essential to the machine's safety and function.

Hot-dip galvanizing shields these heavy-use components from rust, chemicals, and abrasion. It ensures they perform safely over time, even after thousands of hours of outdoor use.

> Operators are increasingly demanding galvanized specifications from hire fleets and OEMs – they want durable, low-prep gear that lasts



Sector specific:

Overhead signposts & frame structures

Signage that stands the test of time

Signage frames, motorway gantries, and rail information boards must remain reliable in the face of wind, rain, pollution, and constant UV exposure. Unprotected steel corrodes quickly, especially at welds, joints, and supports.

Galvanizing creates a continuous barrier, even on complex shapes and hard-to-reach areas. It not only prevents failure and costly rust streaks but also meets public sector expectations for lifecycle cost savings and visual quality.



> For public roads and networks, galvanizing is the standard – and the smart choice.

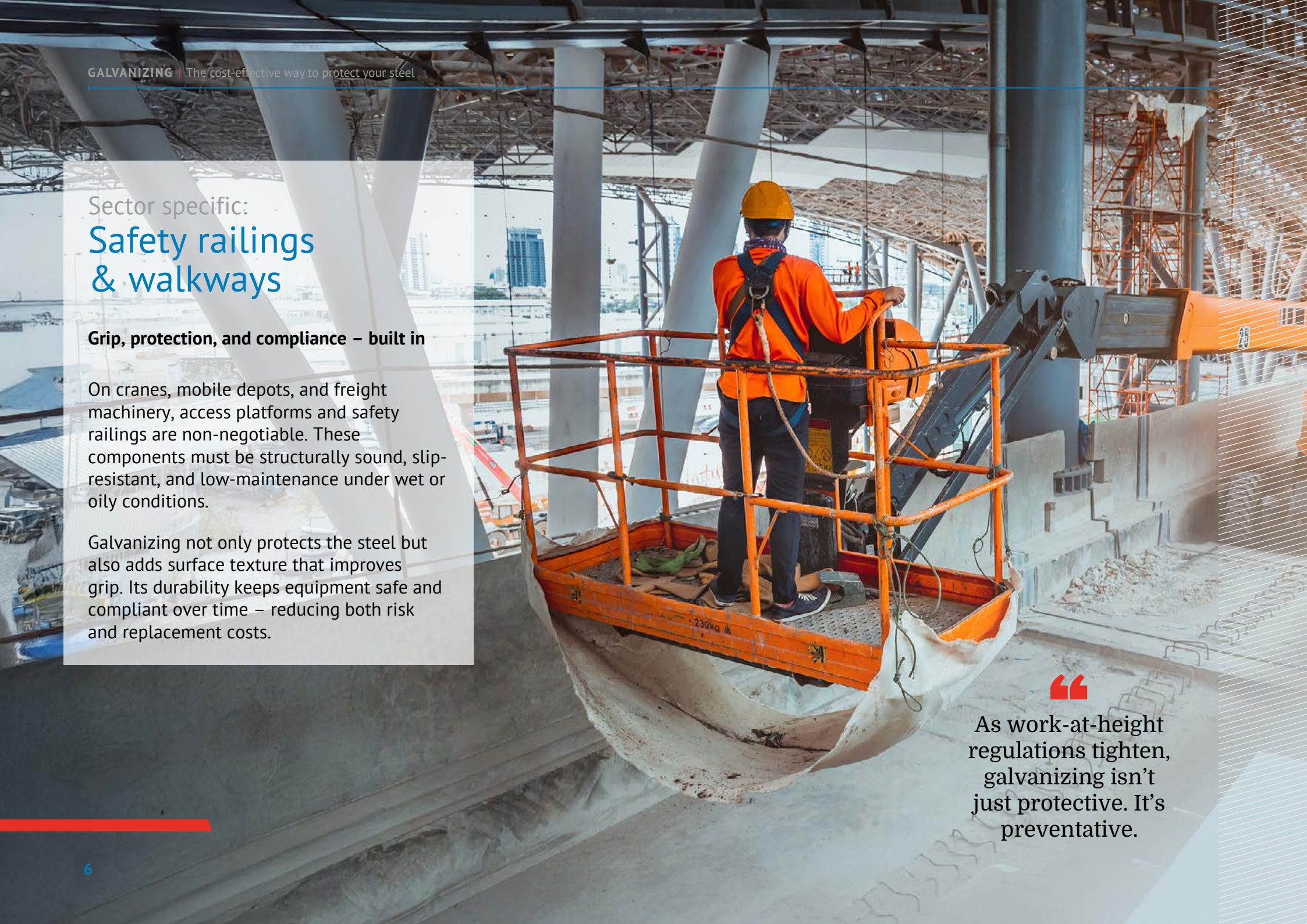
Sector specific:

Safety railings & walkways

Grip, protection, and compliance – built in

On cranes, mobile depots, and freight machinery, access platforms and safety railings are non-negotiable. These components must be structurally sound, slip-resistant, and low-maintenance under wet or oily conditions.

Galvanizing not only protects the steel but also adds surface texture that improves grip. Its durability keeps equipment safe and compliant over time – reducing both risk and replacement costs.



> As work-at-height regulations tighten, galvanizing isn't just protective. It's preventative.

Galvanizing is more than protection, it's performance.

Galvanizing offers a range of benefits that make it the preferred choice for protecting steel in various applications.

These advantages include:

Unmatched durability
Galvanized steel is incredibly durable, with the zinc coating providing exceptional resistance to wear and tear. It can withstand harsh environments, including marine settings, where saltwater can accelerate corrosion.

Self-healing properties
One of the unique features of galvanized steel is its ability to self-heal minor damage. If the zinc coating is scratched or chipped, the surrounding zinc will corrode in preference to the steel, effectively sealing the exposed area and preventing rust from forming.

Aesthetic appeal
Galvanized steel has a distinctive, bright finish that is often used in architectural and design applications. The coating can also be painted or powder-coated to match specific colour schemes or for additional protection.

Versatility in applications
Galvanized steel is used in a wide range of industries, from construction and automotive to agriculture and telecommunications. Its versatility makes it suitable for outdoor and indoor applications where corrosion resistance is a priority.

Quick turnaround
The galvanizing process is relatively fast compared to other protective coatings. This means shorter lead times and project completion deadlines, particularly beneficial for large-scale projects.

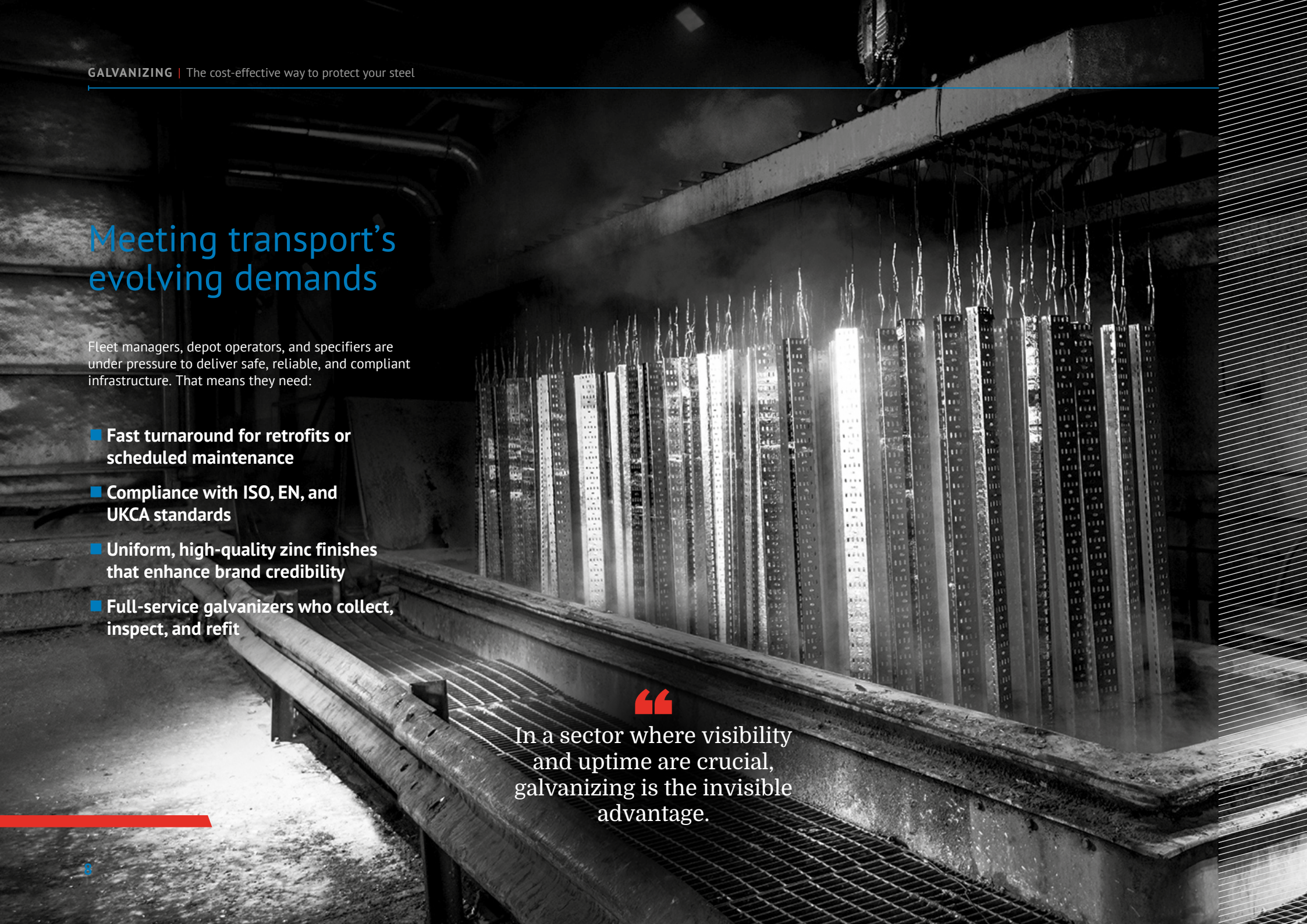
Adherence to standards
At Corbetts the Galvanizers, our galvanizing process adheres to the highest industry standards, ensuring consistent quality and performance. We follow strict guidelines to deliver galvanized steel that meets or exceeds our clients' expectations.

> Galvanizing is the protection that lasts. Galvanizing coats the steel in zinc, forming a resilient barrier that protects against rust, corrosion, and mechanical damage. The result of galvanizing is an extended lifespan of the chassis, ensuring the reliable performance across changing climates and road conditions.

Meeting transport's evolving demands

Fleet managers, depot operators, and specifiers are under pressure to deliver safe, reliable, and compliant infrastructure. That means they need:

- **Fast turnaround for retrofits or scheduled maintenance**
- **Compliance with ISO, EN, and UKCA standards**
- **Uniform, high-quality zinc finishes that enhance brand credibility**
- **Full-service galvanizers who collect, inspect, and refit**



> In a sector where visibility and uptime are crucial, galvanizing is the invisible advantage.

Galvanizing vs. Powder Coating

Application and coverage: Powder coating is another alternative to galvanizing, known for its aesthetic finish and resistance to chipping and scratching. However, powder coating does not provide the same comprehensive protection as galvanizing. Powder coatings can be prone to damage from UV exposure and require an immaculate surface to adhere properly. Any imperfections in the coating can expose the steel to corrosion. In contrast, galvanizing ensures complete coverage, including edges and corners, providing a uniform protective layer that is not as dependent on surface conditions.

Corrosion resistance: While powder coating offers some corrosion resistance, it does not match the protection provided by galvanizing. Once damaged, powder-coated steel can corrode rapidly as the underlying steel is exposed. On the other hand, galvanized steel is protected even if the coating is damaged due to the sacrificial nature of zinc, which corrodes in place of the steel.

Maintenance and lifespan: Like painting, powder coating requires periodic maintenance and touch-ups to maintain its protective qualities. Over time, exposure to the elements can lead to fading and degradation of the protective layer. Galvanized steel, by comparison, requires minimal maintenance and offers a longer lifespan, making it a more durable and low-maintenance option.

Galvanizing vs. Electroplating

Coating thickness and durability: Electroplating involves applying a thin layer of protective metal, such as zinc, onto the steel surface using an electric current. While this process can provide some corrosion protection, the coating is typically much thinner than galvanized steel. The thinner coating makes electroplated steel more vulnerable to damage and less effective in harsh environments. With its thicker zinc layer, galvanizing offers superior durability and a longer-lasting protective barrier.

Adhesion and coverage: Electroplating is generally less effective at covering complex shapes and edges, where the coating may be thinner and less protective. Galvanizing, by contrast, ensures consistent coverage across the entire surface, including hard-to-reach areas, edges, and corners. This thorough coverage is crucial in preventing corrosion in vulnerable spots.

Cost-effectiveness: While electroplating can be suitable for small components and specific applications, it is often more expensive on a per-unit basis when compared to galvanizing, especially for larger structures. The superior durability and lower maintenance requirements of galvanized steel further enhance its cost-effectiveness in the long run.

Conclusion: Galvanizing is the Ultimate Choice for Steel Protection

Compared to other steel protection methods, galvanizing consistently emerges as the superior choice in terms of durability, comprehensive coverage, and cost-effectiveness. While painting, powder coating, and electroplating each have their place in specific applications, they often fall short in providing the long-term protection and maintenance-free lifespan that galvanizing offers.

The metallurgical bond formed during the galvanizing process offers a robust defence against corrosion even in the most challenging environments. This makes galvanizing not only a practical choice, but also a smart investment.

By choosing galvanized steel, you are opting for a solution that minimises maintenance, maximises durability, and delivers lasting protection – an essential consideration for any project where the integrity of steel is critical. Whether safeguarding infrastructure, machinery, or any other steel product, galvanizing provides peace of mind by letting you know your steel is built to last.

At Corbetts, we are committed to delivering the highest quality galvanizing services, ensuring that your steel products receive the protection they need to perform at their best.

If you want to learn more about how galvanizing compares to other protective methods or if you have specific project requirements, our team is here to help. Contact us today to find out how galvanizing can enhance the longevity and value of your steel.

When talking about transport ancillaries… galvanizing is not just important, it's essential.

Steel is widely used in the manufacturing of ancillaries in the transport sector due to its strength, versatility, and aesthetic shiny finish. However, when exposed to the environment, particularly moisture and rainy weather, steel is prone to corrosion. Rust is not just an aesthetic problem; it can weaken the structures, leading to costly repairs, or even catastrophic failures.

Galvanizing is essential for the following reasons:



LONG-TERM
PROTECTION

The zinc coating provides a long-lasting protective barrier that shields the steel from moisture, oxygen, and other corrosive elements. This significantly extends the life of the steel, reducing the need for frequent maintenance or replacement.



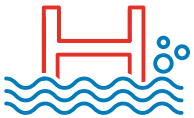
COST-EFFECTIVE
PROCESS

Although galvanizing adds an upfront cost to steel production, it is a cost-effective solution in the long run. The extended lifespan and reduced maintenance costs more than offset the initial expense, making galvanizing a smart investment.



ENVIRONMENTAL
BENEFITS

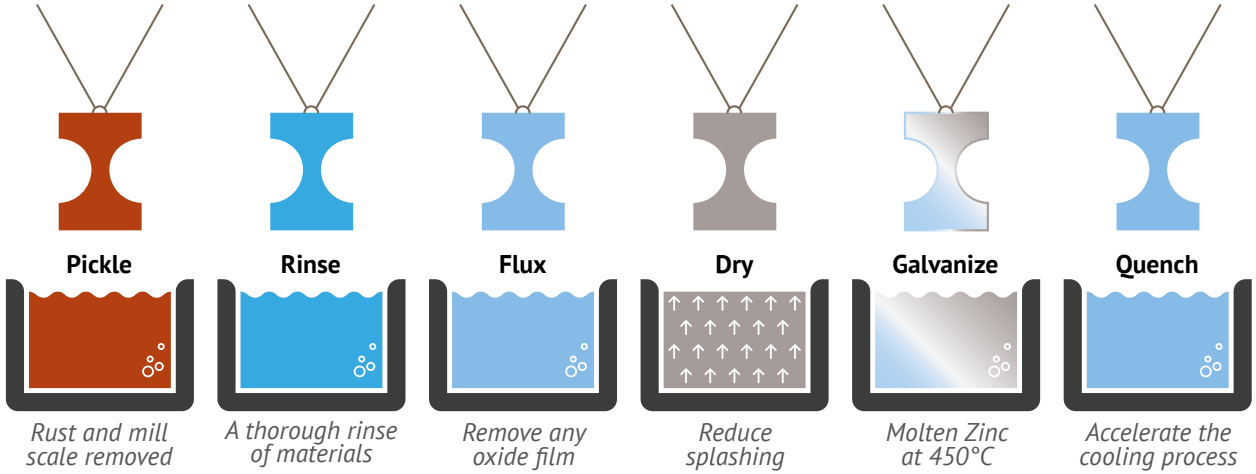
Galvanizing is a sustainable choice. The zinc coating is fully recyclable, and its long-lasting protection reduces the need for frequent steel replacement, conserving resources and reducing waste.



COMPREHENSIVE
COVERAGE

Galvanizing coats the entire surface of the steel, including corners, edges, and difficult-to-reach areas that other coatings might miss. This ensures comprehensive protection against corrosion, even in the most exposed parts of the structure.

The process



#1

Surface Preparation

The steel is cleaned to remove any dirt, oil, rust, or other contaminants that could interfere with the galvanizing process. This is often achieved through a combination of degreasing, pickling in acid, and fluxing.

#2

Galvanizing

Once the steel is prepared, it is dipped into a bath of molten zinc, typically heated to around 450°C. The zinc reacts with the steel to form a series of zinc-iron alloy layers, topped by a layer of pure zinc.

#3

Cooling

After removing the steel from the bath, it is cooled, usually by quenching it in water. When cool, the zinc coating solidifies, forming a tough, adhesive layer that is highly resistant to corrosion.

#4

Inspection

This ensures that the coating is uniform, the covering is consistent, and the thickness is correct. This guarantees that the steel is fully protected before being loaded for delivery.

Why work with Corbetts?

To fully appreciate the importance and effectiveness of galvanizing, it's valuable to consider some key statistics and facts that highlight this process's transformative impact on steel products.

Galvanizing is not just a protective measure; it's a powerful tool that can significantly extend the life of steel, reduce maintenance costs, and contribute to sustainable practices across various industries.

The benefits of working with a full-service galvanizer



DOUBLE DIPPING
COVERING 8 METRES

Double dipping at eight metres allows for the galvanizing of longer steel structures, ensuring complete and even corrosion protection, uniform coating, and enhanced durability. It's ideal for large projects requiring extended steel components.



ISO 9001, 14001 & 45001
ACCREDITED

Our accreditations ensure we deliver consistent quality, are environmentally responsible, and strongly focus on health and safety, delivering products, sustainable practices, and a safer work environment for every project we do.



SWIFT TURNAROUND
MINIMUM OF 48 HOURS

Our turnaround service ensures fast, reliable delivery, minimising project delays and maximising efficiency. Customers benefit from reduced downtime, quicker completion, and the confidence that urgent needs are met with speed and precision.



COLLECT & DELIVER
SCHEDULED TIMES

Our steel collection and delivery service offers customers convenience, saving time and resources. It ensures smooth logistics, reduces transportation hassle, and streamlines project workflows, providing a reliable, efficient solution.

Where galvanizing delivers results

We are continually expanding our skills, capabilities, and processes to ensure we can accommodate our customers' needs.

The automobile industry and the chassis manufacturers play a key role in many areas of the day-to-day life. It is extremely demanding and the safety of millions rely on it. Galvanized still is not a choice to make, but THE choice to make. If you are not galvanizing, you are gambling.

Trailer chassis, Caravan chassis Car chassis, Drawbars, Rear end frames, Maintenance walkways, Lift rail guides, Plant ancillaries, Excavator attachments, Frame signage

Whether for depot retrofits or brand-new builds, these transport ancillaries are safer, stronger, and longer-lasting when they're galvanized.

If you're not galvanizing, you're gambling.




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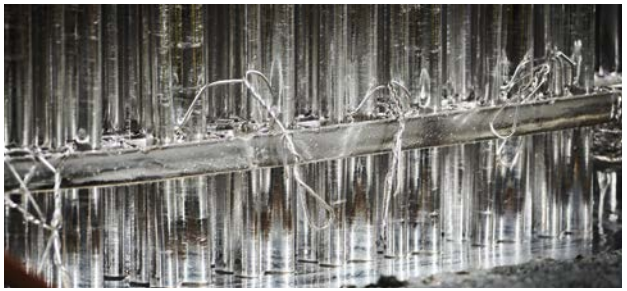














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