



شركة قطر لطلاء المعادن ذ.م.م.

QATAR GALVANIZING CO. W.L.L.

ISO 9001: 2008 Certified Company



We also have operations in

DUBAI – UAE and SOHAR – OMAN

Visit Our Website:

www.qatargalvanizing.net

THE COMPANY

Qatar Galvanizing Co W.L.L. is a joint venture between All Metals Group (Dubai, UAE - www.allmetals-group.com), and Almanagroup (Doha, Qatar-www.almanagroup.com). We started our operations in February 2006. Ever since the start of operations, we have built an excellent reputation for providing professional Hot Dip Galvanizing services to Qatar Market in accordance with established international standards such as ASTM A 123 or BS EN 1461:2009. We also galvanize to comply with special requirements of some of our esteemed clients like Kahramaa. We have achieved market leadership through dedicated efforts of a strongly knit team of highly experienced, motivated, and skilled personnel, lead by management team with over 25 years of experience. We take great pride in providing all our customers with full technical support on all issues related to Galvanizing as and when requested thereby establishing a very strong relationship between us. Our motto is customer satisfaction.

GALVANIZING

The importance of galvanizing as a cost effective method of corrosion protection for steel, has grown steadily over the years, ever since its utility was first noticed over 150 years ago, in the protection of corrugated iron sheets. Despite the stiff market competition it faces, its ability to grow is a shining tribute to the simplicity of the process and its unique advantages. Being a versatile process, articles ranging in size from nuts & bolts to long structural sections can be galvanized.



RELEVANT INTERNATIONAL STANDARDS ARE AS FOLLOWS:-

- A) 1. EN ISO 1461 – 2009 – Hot Dip Galvanized Coatings on fabricated iron and steel articles.
2. ASTM – A 123 – Zinc Coating on Iron and Steel Products.
3. ASTM – A 153 – Zinc Coating on Steel Hardware.
4. ASTM – A 385 – Providing High Quality Zinc Coating.
5. ISO 1460 – Hot Dip Galvanized coating on ferrous material.
6. ISO 1461 – Hot Dip Galvanized coating on steel, specifications and test methods.
7. ASTM – 143 – Safeguard against embrittlement in Hot Dip Galvanizing.
8. ASTM – A 90 – Standard Test Methods for weight of zinc coating.
9. ASTM 780 – Repair of damaged and uncoated areas of Hot Dip Galvanizing.
10. ASTM 376 – Measuring coating thickness by magnetic field.
11. ISO 8501 – 1 – Specification for Surface profile comparators.
12. ISO 14001 – Environmental Management System specification with guidance for users.
13. ISO 9001 – 2008 Quality System.
14. SSPC – SP10 Degree of cleanliness.

B) Zinc coating requirements are generally 610 gms / m² or 85.4 microns average for steel thickness above 6 mm. Zinc coating of 700 gms / m² or 1000 gms / m² are often recommended for saline weather conditions.

C. 1 gm / m² = 0.14 microns / 1 micron = 7.14 gms / m²

DESIGNING ARTICLES FOR GALVANIZING

The key to obtaining the best results from the galvanizing process depends largely on timely consultation between the galvanizer, fabricator and designer. Quality of the coating can also be improved by matching design features that aids the access and drainage of molten zinc. Good Design requires proper means for the access and drainage of molten zinc and for escape of gases from internal compartments (Air Venting).

MAIN FEATURES

Qatar Galvanizing Co. W.L.L. offers a broad range of galvanizing covering a wide range of applications. With its excellent corrosion resistant properties combined with very strong adhesion to the base steel, galvanizing is recommended as a surface protection coating system in wide range of applications from construction industry, lifestyle buildings, bridges, stadia, aircraft hangers, street furniture (lighting poles, sign posts, guardrails), shipyards, oil and gas installations, power generation and distribution, etc.



SOME OF THE KEY FEATURES OF OUR FACILITY ARE:

- Annual Capacity 60,000 tons of heavy structural steel.
- Kettle of size 13 M (L) x 1.6 M (W) x 3 M (D)
- A single piece of 16M (L) and 5 tons can be galvanized.
- Fully automated temperature control of Zinc Bath
- Fully enclosed kettle and white fume extraction system.
- State of art materials handling system in the plant.
- 100 % tracking of all the materials right from receiving inspection to final inspection and dispatch.
- Documented Quality Management System i.e. ISO 9001 : 2008 certified by TUV SUD
- Customized, project specific inspection and Test Plans.



TABLES

Following are the summaries of corrosion rates and coating thickness requirements

Coating Thickness requirements			Indicative Zinc Corrosion Rates For Different Environments		Indicative Zinc Corrosion Rates For Different Environments	
Articles & Thickness	Mean Coating Mass (g/m ²)	Mean Coating Thickness in microns (μ)	Corrosivity category	Average annual Zinc Corrosion rate (μ/year)	Corrosivity category	Average annual Zinc Corrosion rate (μ/year)
≥ 6mm thick	610	85	C1 interior: dry	<0.1	C4 interior: swimming pools, chemical plants, etc exterior: industrial inland or urban coastal	2 to 4
≥ 3<6mm	505	70	C2 interior: Occasional condensation exterior: rural	0.1 to 0.7	C5 interior: industrial with high humidity or high salinity coastal	4 to 8
≥ 1.5<3mm	395	55	C3 interior: high humidity, some air pollution exterior: industrial and urban inland or mild coastal	0.7 to 2	CX interior: Extreme humidity or high pollution processes. exterior: Splash zones	8 to 25
iron castings >6mm	575	80				
centrifuged > 6mm	360	50				

GALVANIZING BENEFITS

As a method of corrosion protection, hot dip galvanizing has many benefits namely:-

- Provide steel with a coating which has a long, predictable and maintenance free life.
- Be highly competitive on a first cost basis.
- Be economical as it protects steel over long periods.
- Be a sustainable solution – Zinc is essential to life.

Its unique nature provides a tough and abrasion resistant coating that means reduced site damage and speedy erection of structures. It also protects steel by barrier and sacrificial action, on damage.

At the point of damage, only the zinc corrodes and those deposits from a protective cover stopping further corrosion. On the contrary, with paint coatings, once the damage occurs, additional protection would have to be applied immediately or the steel would rust leading to break down of the whole coating as rust creeps underneath the paint film.



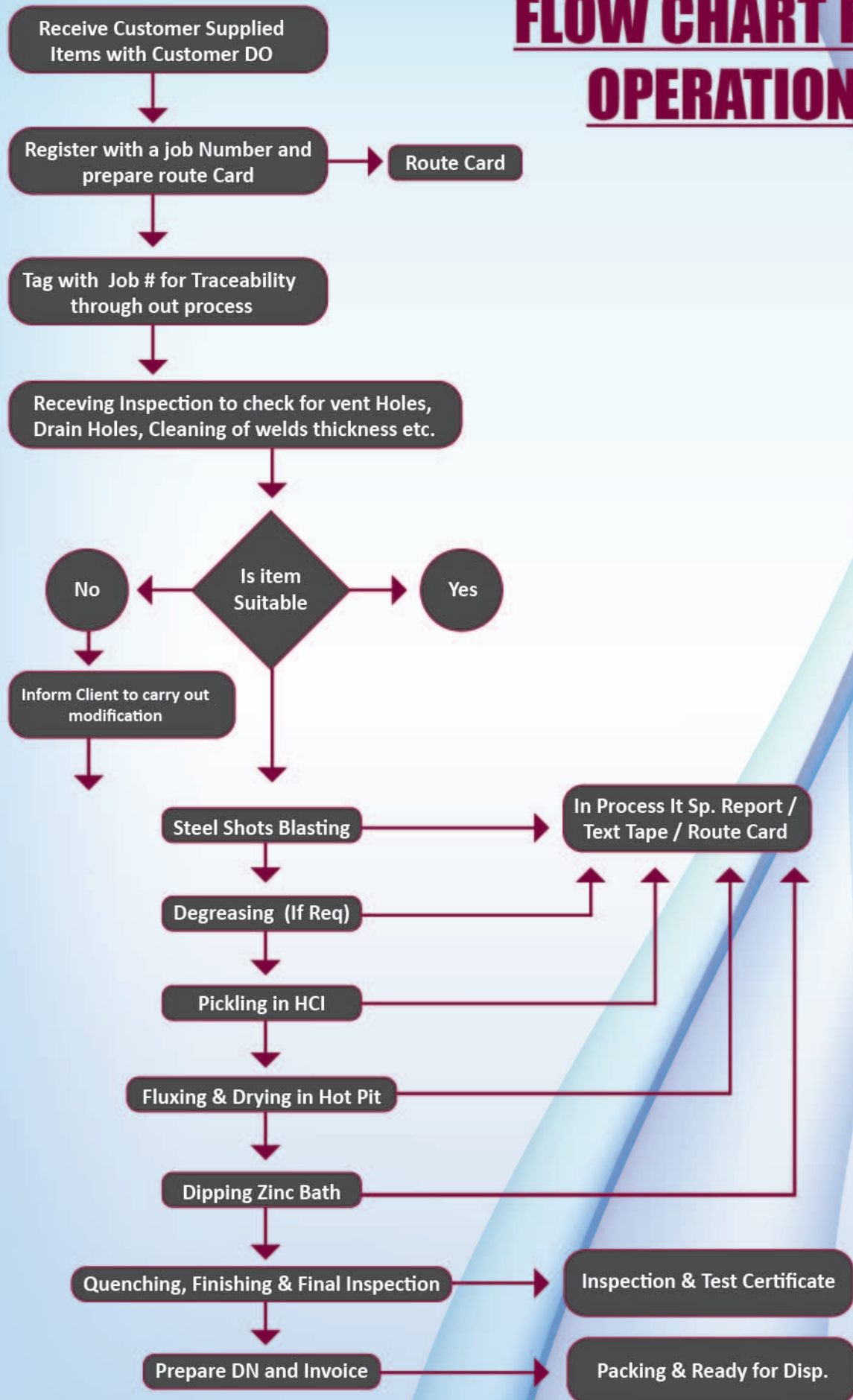
QUALITY, HEALTH, SAFETY, & ENVIRONMENT (QHSE)

Qatar Galvanizing Co. W.L.L. in its endeavor to provide professional services had started off its operations implementing an established a documented Quality Management System at the outset, and got the same certified to ISO 9001: 2008 standards within 6 months from the start of operations. We ensure and assure 100 % traceability of all the customer supplied products, thereby ensuring smooth and timely delivery to our customers.






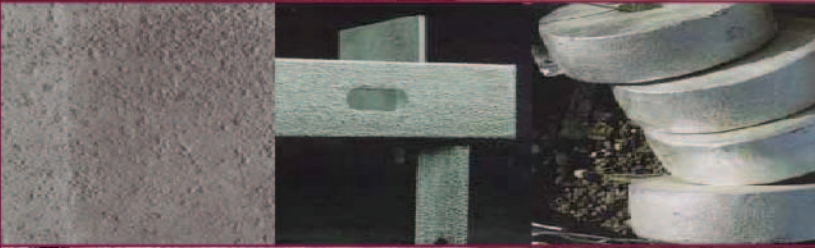

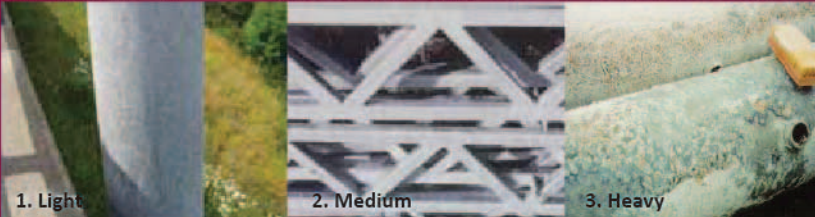
Qatar Galvanizing is committed to providing its workforce with all the required PPE and training in Health and Safety in conformance to industrial norms. Qatar Galvanizing is equipped with the state of art emission control equipment which enables us to comply with the emission levels requirements of local environmental authorities. We carry out periodic environment audits in accordance with our Environment Management Plan.

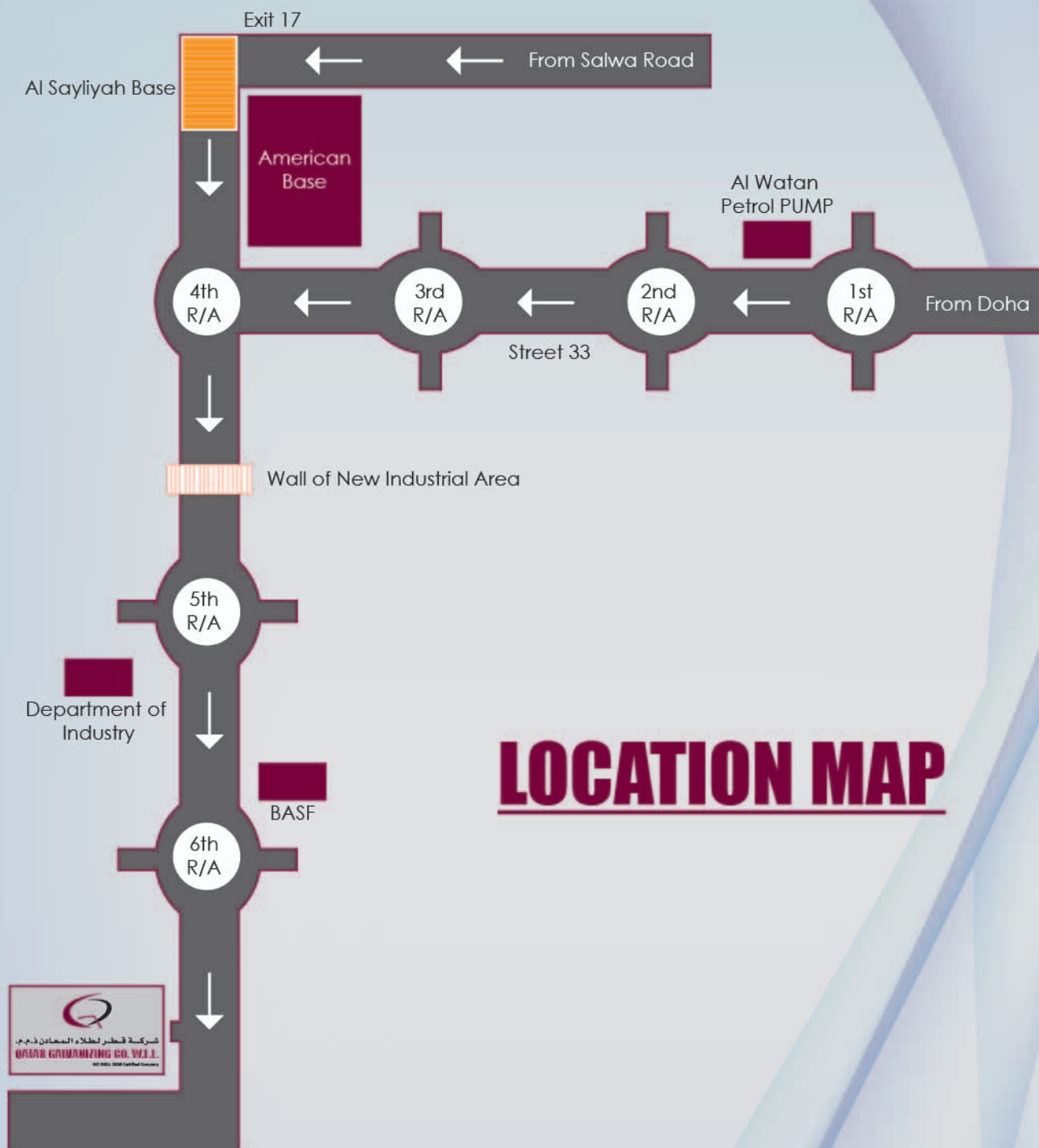
ZERTIFIKAT ♦ CERTIFICATE ♦ 認證證書 ♦ CERTIFICADO ♦ CERTIFICAT	 Management Service
	CERTIFICATE
	The Certification Body of TÜV SÜD Management Service GmbH certifies that
	 We protect Steel
	Qatar Galvanizing Company W.L.L. P.O. Box:22674 Doha, Qatar
	has established and applies a Quality Management System for
	Surface Preparation and Hot Dip Galvanizing for Iron and Steel Components.
	An audit was performed, Report No. 70759732 Proof has been furnished that the requirements according to
	ISO 9001:2008
	are fulfilled. The certificate is valid until 2015-09-08 Certificate Registration No. 12 100 37452 TMS
 Munich, 2013-01-18	 QMS-TGA-ZM-07-92
MCD-TGA-07/10	TÜV SÜD Management Service GmbH • Zertifizierungsstelle • Ridlerstraße 65 • 80339 München • Germany

FLOW CHART FOR OPERATION



THE INSPECTION OF HOT DIP GALVANIZING STEEL PRODUCTS

APPEARANCE	PHOTOGRAPHS	ACCEPTABILITY OF PROTECTION
Dull Grey Coating (All Alloy, No free Zinc)		Acceptable
Bare Spots		Not Acceptable
Lumpiness, Fish - Boning, Striations and Runs		Acceptable unless otherwise agreed (Uneven Drainage)
Chain and Wire marks		Acceptable unless bare steel is exposed
Flaking		Not Acceptable
General Roughness		Acceptable
Distrortion		Acceptable
Wet Storage Stain	 1. Light 2. Medium 3. Heavy	Wet Storage Stain Light (1) or Medium (2) is Acceptable, Heavy (3) is Rejectable



LOCATION MAP



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