



# Surface Treatment & Coating Specification Sheet

Document: LTU-DOC-004 | Rev: A | Date: 2025-07

Purpose: Define surface preparation and coating requirements for quotation and production.

Fill in what you know. Leave blank if you need our recommendation.

## Project Information

Field	Your Input
Project name	
Part description	
Installation environment	<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor <input type="checkbox"/> Marine <input type="checkbox"/> Chemical <input type="checkbox"/> Buried
Expected service life	<input type="checkbox"/> 5yr <input type="checkbox"/> 10yr <input type="checkbox"/> 15yr <input type="checkbox"/> 20yr+
Operating temperature range	°C to °C

## Option A: Painting / Coating System

### Surface Preparation

Item	Requirement
Blast standard	<input type="checkbox"/> Sa 2.5 <input type="checkbox"/> Sa 3 <input type="checkbox"/> Other: _____
Surface profile	<input type="checkbox"/> 40-75µm (standard) <input type="checkbox"/> Other: _____ µm
Edge preparation	<input type="checkbox"/> R2 radius <input type="checkbox"/> Not required

### Coating Layers

Layer	Product / Generic Type	Color (RAL)	DFT (µm)
Primer			
Intermediate			
Topcoat			
<b>Total DFT</b>			

### Corrosivity Category (ISO 12944)

Category	Environment	Typical System
■ C3	Medium — urban, mild industrial	160-200µm total
■ C4	High — industrial, coastal	200-280µm total
■ C5-I	Very high — industrial, chemical	280-320µm total
■ C5-M	Very high — marine, offshore	320-400µm total
■ CX	Extreme — immersion, offshore splash	400µm+

If unsure: Tell us where the product will be installed. We recommend a system.

## Option B: Hot-Dip Galvanizing

Item	Requirement
Standard	■ ISO 1461 ■ ASTM A123 ■ Other: _____
Minimum coating thickness	■ Per standard (based on steel thickness) ■ Specify: _____ µm
Duplex system (galvanize + paint)?	■ Yes ■ No

## Option C: Other Treatments

Treatment	Required?	Specification
Zinc spray (metallizing)	■	
Powder coating	■	
Anodizing (aluminum)	■	
Passivation (stainless)	■	
None (bare metal)	■	

## Inspection Requirements

Item	Required?
DFT measurement per ISO 19840	■ Yes ■ No
Adhesion test (cross-cut / pull-off)	■ Yes ■ No
Holiday / pinhole detection	■ Yes ■ No
Coating inspection report	■ Yes ■ No



---

## Notes / Special Requirements

(Write any additional requirements here)

---

\*Leading Top Union — Suzhou, China\*