HERA
Innovation in Metals
Structural Systems

Steel Bridge Development Group

17-19 Gladding Place
P O Box 76 134, Manukau City
Auckland, New Zealand

Tel: +64-9-262 4756
Fax: +64-9-262 2856
Email: structural@hera.org.nz
Web-site: www.hera.org.nz

New Zealand Coating Industry Checklist

Item	Details	Reference	Tick Box
1	**Scope of Work:** *Outline scope of the project and work involved.*	Client/designer	
1a	Special Requirements: *Outline any special requirements.*		
1b	State the required performance criteria: *I.e. performance warranty, aesthetic, corrosion protection, etc.*		
1c	Structure Design Life: *State the structure design life.*	Clause 5.1.1 of NZS3404.1:2009	
1d	Substrate: *State the substrate the coating is being applied on.*	Designer	
1e	Atmospheric Corrosivity Category: *Taking into account both the Macroclimate and Microclimate conditions.*	Clause 2.2 & 2.3 of AS/NZS2312:2002 and/or Clause 5.2.1 of NZS3404.1:2009	
1f	Time to First Maintenance: *specify the expected time to first maintenance.*	Clause 5.1.2 of NZS3404.1:2009	
2	**Design Details and Fabricator Consideration:**		
2a	Eliminate typical design problems: *Ensure typical design problems are considered and eliminated before fabrication begins. It is recommended that the fabricator and coatings applicator are included when developing the drawings to assist in addressing typical design problems. Such problems include allowing suitable access to allow for surface preparation for all coated areas and for their future maintenance.*	Clause 3.3.4 & Figure 3.1 of AS/NZS2312:2002	
2b	Post fabrication clean to ensure all contaminants, weld splatter, etc, are removed.	Clause 4.1 of AS/NZS2312:2002	
2c	Consider whether there is sufficient lead time for work commencement.	Designer	
3	**Selected Coating:** *State coating thickness including its dry film thickness.*	Coating Supplier	
3a	Coating Specification: *This document is a job specific document that states the surface preparation, selected coating system, its application and other required details, such as a finish reference plate and hold points for client or independent third party inspector (TPI) inspection.*		
3b	Coating Specification Reference and date of issue:	Designer	
3c	Maintenance Specification: *This document outlines the maintenance requirements of the coating, after its application, including repair. It also includes the specification for recoating at the expected time of first maintenance, however, the latter is not applicable to hot dip galvanized coatings, contact a galvanizing supplier for advice.*	Coating Supplier/Designer/ Engineer	
4	**Quality Control**		
4a	Coating Application: *Ensure that the equipment, coatings application and required environmental conditions are met. The application of the coating system should be applied by a qualified coating applicator with an NZQA National Certificate in Blaster Coating[1] (preferably Level 3).*	Designer/Coating Applicator	
4b	Quality Control/health and safety to meet OSH and client requirements: *Ensure the appropriate on-site quality control and health and safety procedures are in place. This includes specifying the level of required Personal Protection Equipment (PPE).*	NZS4801:2001 and/or OSHA18001	
5	**Inspection:** *Use of an independent third party inspector (TPI) qualified in coating inspection by CBIP, ACA or NACE is recommended*	Use relevant parts of AS3894:2002 or AS/NZS4680:2002	
5a	Before Coating Application: *This is not applicable to hot dip galvanized coatings.*		
5b	During Coating Application: *This is not applicable to hot dip galvanized coatings.*		
5c	After Coating Application: *This is applicable to all coatings.*		
6	**Pre-commencement Meeting:** *Before the commencement of the work, a meeting shall be held between representatives of the Engineer, Contractor, Coating Manufacturer and any subcontractors to clarify and agree the specification, Contractor's proposed programme, methodology and inspection procedures.*	Representative of all parties	
6a	Agree on required DFT: *Discuss and agree, whether the minimum average DFT (from AS3894.3) or absolute minimum DFT (from coating supplier) is needed. For hot dip galvanized coatings, refer to the minimum zinc coating requirements of AS/NZS 4680. This is dependent on the environment and type of coating used.*	AS3894.3:2002/Coating Supplier/ AS/NZS4680:2006	

Note: [1] Blaster Coating certification to NZQA is available from EXITO.

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