



Bonneagar Iompair Éireann
Transport Infrastructure Ireland

TII Publications



Method of Measurement for Road Works Series MM 1900 - Protection of Steelwork Against Corrosion

CC-RMP-01900

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About TII

Transport Infrastructure Ireland (TII) is responsible for managing and improving the country's national road and light rail networks.

About TII Publications

TII maintains an online suite of technical publications, which is managed through the TII Publications website. The contents of TII Publications is clearly split into 'Standards' and 'Technical' documentation. All documentation for implementation on TII schemes is collectively referred to as TII Publications (Standards), and all other documentation within the system is collectively referred to as TII Publications (Technical). This system replaces the NRA Design Manual for Roads and Bridges (NRA DMRB) and the NRA Manual of Contract Documents for Road Works (NRA MCDRW).

Document Attributes

Each document within TII Publications has a range of attributes associated with it, which allows for efficient access and retrieval of the document from the website. These attributes are also contained on the inside cover of each current document, for reference. For migration of documents from the NRA and RPA to the new system, each current document was assigned with new outer front and rear covers. Apart from the covers, and inside cover pages, the documents contain the same information as previously within the NRA or RPA systems, including historical references such as those contained within NRA DMRB and NRA MCDRW.

Document Attributes

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NRA DMRB and MCDRW References

For all documents that existed within the NRA DMRB or the NRA MCDRW prior to the launch of TII Publications, the NRA document reference used previously is listed above under 'historical reference'. The TII Publication Number also shown above now supersedes this historical reference. All historical references within this document are deemed to be replaced by the TII Publication Number. For the equivalent TII Publication Number for all other historical references contained within this document, please refer to the TII Publications website.

PROTECTION OF STEELWORK AGAINST CORROSION

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Series 1900: Protection of Steelwork Against Corrosion

Protective System

- | | | |
|-------------|---|--|
| Units | 1 | The units of measurement shall be:

(i) protective system..... square metre |
| Measurement | 2 | The measurement shall be the surface area to be treated. |
| Itemisation | 3 | Separate items shall be provided for protection of steelwork against corrosion in accordance with Chapter II paragraphs 3 and 4 and the following: |

Group	Feature
I	1 Protective system
II	1 Different types

- | | | |
|--------------------------|---|--|
| Protective System | 4 | The items for protective system shall in accordance with the Preambles to Bill of Quantities General Directions include for: |
| Item coverage | | <ul style="list-style-type: none"> (a) despatching paint samples to testing authority; (b) shop procedural trials; (c) site procedural trials; (d) masking and other measures to protect adjacent untreated work and the removal of masking and other measures upon completion; (e) joint fillers and treatment of joints; (f) preparing materials for application; (g) preparation of surfaces and coating at the place of fabrication and on Site; (h) complying with any special requirements in respect of ambient conditions including the containment of dust and debris and for intervals between successive operations and applications; (i) labelling; (j) storage; |

- (k) stripe coats;
- (l) de-nibbing;
- (m) heat treatment;
- (n) obtaining the correct dry film thickness of paint or other coating;
- (o) measures to protect uncoated steelwork;
- (p) preparation and supply of system and data sheets;
- (q) facilities and assistance for Employer Representative's inspection.
- (r) independent painting inspection firm to inspect, test and report on the corrosion protection system for all elements

Maintenance & Painting of Steelwork

Surface Preparation and Protective System

- 5** The items in this Series are for the measurement of maintenance painting work. Protective systems to new steelwork shall be measured under Series 1900.
- Units**
- 6** The units of measurement shall be:
- (i) surface preparation and protective system to general surfaces square metre
 - (ii) surface preparation and protective system to parapets, pedestrian guardrails and the like linear metre
 - (iii) surface preparation and protective system to bearings, CCTV masts, steel lighting columns, bracket arms, equipment boxes, cabinets and the like number.
- Measurement**
- 7** The measurement of surface preparation and protective system to general surfaces shall be the surface area to be treated.
- The measurement of surface preparation and protective system to parapets, pedestrian guardrails and the like shall be the developed length (on plan) to be treated.
- The measurement of surface preparation and protective system to bearings, CCTV masts, steel lighting columns, bracket arms, equipment boxes, cabinets and the like shall be the complete unit.
- Itemisation**
- 8** Separate items shall be provided for surface preparation and protective system, in accordance with Chapter II paragraphs 3 and 4 and the following

Group	Feature
I	1 Surface preparation.
	2 Protective system.
II	1 General surfaces
	2 Parapets, pedestrian guardrails and the like.
	3 Bearings, CCTV masts, steel lighting columns, bracket arms, equipment boxes, cabinets and the like
III	1 Different sizes.
IV	1 Different methods.
V	1 Different types.
VI	1 Different locations

Note: Group VI shall be applied only to Group II Feature 1

- Surface Preparation** **9** The items for surface preparation shall in accordance with the Preambles to Bill of Quantities General Directions include for:
- Item coverage
- (a) procedure trials;
 - (b) masking and other measures to protect adjacent untreated work and the removal of masking and other measures upon completion;
 - (c) complying with any special requirements in respect of ambient conditions including the containment of dust and debris and for intervals between successive operations and applications;
 - (d) joint fillers and sealant and treatment of joints and plies;
 - (e) removal of water, condensation, oil, grease, residues, encrusted rust, foreign matter and contaminants;
 - (f) cleaning;
 - (g) rinsing, washing;
 - (h) feathering edges;
 - (i) profiling;
 - (j) protection of prepared areas;
 - (k) drying;
 - (l) disposal (as Series 600 paragraph 39);
 - (m) facilities and assistance for inspection by the Overseeing Organisation.
- Protective System** **10** The items for protective system shall in accordance with the Preambles to Bill of Quantities General Directions include for:
- Item coverage
- (a) procedure trials, trial panels and reference panels;
 - (b) protective system (as Series 1900 paragraph 4);
 - (c) patch coats.
 - (d) independent painting inspection firm to inspect, test and report on the corrosion protection system for all elements



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