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Transport Infrastructure Ireland

## TII Publications



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# Requirements for Measuring and Pricing of Protection of Steelwork against Corrosion

**CC-RMP-01900**

October 2016

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# 1. Protection of Steelwork against Corrosion

**Measurement General**      **1**      The measurement of protective systems to new steelwork shall be in accordance with paragraphs 2 to 5 below. The measurement of protective systems in the maintenance of existing installations, including preparation, painting and other protective systems shall be in accordance with paragraphs 6 to 11 below.

## Protective System

**Units**      **2**      The units of measurement shall be:

- (i) protective system..... square metre

**Measurement**      **3**      The measurement shall be the surface area to be treated.

**Itemisation**      **4**      Separate items shall be provided for protection of steelwork against corrosion in accordance with Section 3 of CC-RMP-00010, paragraphs 3 and 4 and the following:

<b>Group</b>	<b>Feature</b>
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I	1 Protective system
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II	1 Different types
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**Protective System to new work**      **5**      The items for protective system shall in accordance with the Preambles to Bill of Quantities General Directions include for:

## Item Coverage

- (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**

**6** The items below are for the measurement of maintenance painting work. Protective systems to new steelwork shall be measured under paragraphs 2 to 5 above.

**Units**

- 7** 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**

- 8** 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**

- 9** Separate items shall be provided for surface preparation and protective system, in accordance with Section 3 of CC-RMP-00010, paragraphs 3 and 4 and the following:

<b>Group</b>	<b>Feature</b>
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**

- 10** 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 (CC-RMP-00600 paragraph 39);
- (m) facilities and assistance for inspection by the Overseeing Organisation.

**Protective System to existing work**      **11**

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 (CC-RMP-01900 paragraph 5);
- (c) patch coats;
- (d) independent painting inspection firm to inspect, test and report on the corrosion protection system for all elements.

## **2. References**

### **2.1 TII Publications (Standards) References**

CC-RMP-00010	Introduction to the Requirements for Measuring and Pricing
CC-RMP-00600	Requirements for Measuring and Pricing of Earthworks
CC-RMP-01900	Requirements for Measuring and Pricing of Protection of Steelwork against Corrosion





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