



Bonneagar Iompair Éireann
Transport Infrastructure Ireland

TII Publications



Method of Measurement for Road Works Series MM 1300 - Road Lighting Columns and Brackets

CC-RMP-01300

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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inside cover pages, the documents contain the same information as previously within the NRA or RPA systems, including historical references such as those contained within NRA DMRB and NRA MCDRW.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

TII Publication Title	<i>Method of Measurement for Road Works Series MM 1300 - Road Lighting Columns and Brackets</i>
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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NRA MCDRW prior to the launch of TII Publications, the NRA document reference used previously is listed above under 'historical reference'. The TII Publication Number also shown above now supersedes this historical reference. All historical references within this document are deemed to be replaced by the TII Publication Number. For the equivalent TII Publication Number for all other historical references contained within this document, please refer to the TII Publications website.

Series 1300: Road Lighting Columns and Brackets

Road Lighting Columns, Brackets and Wall Mountings

Units 1 The unit of measurement shall be:

(i) road lighting columns, brackets and wall mountings . . . number.

Measurement The measurement of road lighting columns, brackets and wall mountings shall be the complete installation except for earth electrodes which shall be measured separately (under Series 1400 paragraphs 20 to 23).

Itemisation 3 Separate items shall be provided for road lighting columns, brackets and wall mountings in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Road lighting columns and brackets
	2 Wall mountings
II	1 Different height of columns
III	1 Different projection of brackets
IV	1 Different lanterns
V	1 Different types

Road Lighting Columns, Brackets and Wall Mountings

Item Coverage

4 The items for road lighting columns, brackets and wall mountings shall in accordance with the Preamble to Bill of Quantities General Directions include for:

- (a) design;
- (b) certificates;
- (c) provision of data and drawings;
- (d) resubmissions and modifications;
- (e) amendments to the Works;
- (f) obtaining aesthetic approval;
- (g) excavation of acceptable material (as Series 600 paragraphs 17 and 18);
- (h) excavation of unacceptable material (as Series 600 paragraph 19);
- (i) excavation in Hard Material (as Series 600 paragraph 23);

- (j) rivets, nuts, bolts, shims, washers, welds, clamps and the like;
- (k) blinding concrete and paving slab;
- (l) in situ concrete (as Series 1700 paragraph 4);
- (m) formwork (as Series 1700 paragraph 14);
- (n) reinforcement (as Series 1700 paragraph 25);
- (o) drilling or forming holes and pockets in structures or foundations, and casting in bolts, sockets, base plates and anchorage assemblies;
- (p) bedding, grouting and filling;
- (q) backfilling and compaction;
- (r) protective system (as Series 1900 paragraph 4);
- (s) marking and lettering;
- (t) electrical equipment, wiring and making connections, excluding network cabling;
- (u) disposal of material (as Series 600 paragraph 39);
- (v) reinstatement of surfaces;
- (w) plugging cable entry slots;
- (x) doors, locks and keys;
- (y) ducts in bases;
- (z) conduit including screwed and threaded connections, bends, tees and the like and draw wires;
- (aa) threading cable through ducts, sleeves, conduit and the like;
- (bb) backboards, fixings, protective caps, sealing, grommets, spacers, mounting plates and strips;
- (cc) complying with wiring regulations and earthing (other than earth electrodes);
- (dd) protective treatment;
- (ee) notices, recording and preparation and supply of record drawings;
- (ff) fixing to structures and foundations including attachment systems;
- (gg) site testing of anchorages;
- (hh) verifying materials.

Remove from Store and Re-erect Road Lighting Columns, Brackets and Wall Mountings

Units

5 The unit of measurement shall be:

- (i) remove from store and re-erect road lighting columns, brackets and wall mountings. number.

Itemisation

6 Separate items shall be provided for remove from store and re-erect road lighting columns, brackets and wall mountings in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Remove from store and re-erect road lighting columns and brackets
	2 Remove from store and re-erect wall mountings
II	1 Different height of columns
III	1 Different projection of brackets
IV	1 Different lanterns
V	1 Different types

Remove from Store and Re-erect Road Lighting Columns, Brackets and Wall Mountings

Item Coverage

7 The items for remove from store and re-erect road lighting columns, brackets and wall mountings shall in accordance with the Preambles to Bill of Quantities General Directions include for:

- (a) loading, transporting from store, unloading and positioning for re-erection;
- (b) replacing items damaged during the foregoing operations;
- (c) modification and new materials;
- (d) painting existing painted items;
- (e) road lighting columns, brackets and wall mountings (as this Series paragraph 4).



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