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Requirements for Measuring and Pricing of Fencing and Environmental Noise Barriers

CC-RMP-00300

October 2016

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TII Publications



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1. Fencing and Environmental Noise Barriers

Fencing, Gates and Stiles

- Units** **1** The units of measurement shall be:
- (i) fencing..... linear metre.
 - (ii) concrete footing to timber posts..... number.
 - (iii) gates, stiles..... number.
- Measurement** **2** Where a particular type of temporary fencing is specified in Appendix 3/1 by the Employer's Representative and shown on the drawings in the Contract it shall be measured. All other temporary fencing required by the Contractor in the discharge of his obligations under the Contract shall not be measured.
- The measurement of fencing shall be the developed length along the centre line of the fence. The measurement of height of fencing shall be that stated in the Contract for the type of fence.
- The measurement of width of gates shall be the distance between the outer edges of the stiles; the outer edges of hanging stiles in the case of double gates.
- The measurement of height of gates shall be the distance between the upper surface of the top rail and the underside of the bottom rail.
- Concrete footing to timber posts shall only be measured for those locations stated in Appendices 1/15 or 3/1 of the Specification.
- Itemisation** **3** Separate items shall be provided for fencing in accordance with Section 3 of CC-RMP-00010 paragraphs 3 and 4 and the following:
- | Group | Feature |
|--------------|--------------------------------------------------------------------------------|
| I | 1 Each type of fencing |
| | 2 Concrete footing to each type of timber post for each type of fencing |
| | 3 Each type of gate |
| | 4 Each type of stile |
| II | 1 Fencing of different heights |
| | 2 Gates of different heights and widths |
| III | 1 Painted fencing, gates or stiles |
- Fencing** **4** The items for fencing shall in accordance with the Preambles to Bill of Quantities General Directions include for:
- Item Coverage**
- (a) excavation of acceptable material (as CC-RMP-00600 paragraphs 17 and 18);
 - (b) excavation of unacceptable material (as CC-RMP-00600 paragraph 19);
 - (c) excavation in Hard Material (as CC-RMP-00600 paragraph 23);
 - (d) trimming ground on the line of the fencing;
 - (e) in situ concrete (as CC-RMP-01700 paragraph 4);
 - (f) formwork (as CC-RMP-01700 paragraph 14);
 - (g) reinforcement (as CC-RMP-01700 paragraph 25);
 - (h) backfilling and compaction;

- (i) disposal of material (as CC-RMP-00600 paragraph 39);
- (j) preservation of timber;
- (k) adjustment of fencing to a flowing alignment including additional length posts;
- (l) fittings;
- (m) joining to existing fencing, gates, hedges and walls;
- (n) protective system (as CC-RMP-01900 paragraph 4);
- (o) inspection and maintenance of fencing and gates;
- (p) erection and removal of temporary fencing and gates;
- (q) additional posts and rails over ditches;
- (r) maintenance of access for owners, tenants and occupiers of adjoining land and patrolling gaps or openings;
- (s) epoxy resin compound and mastic filler to posts fixed in sockets.

Concrete Footing to Timber Posts

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The items for concrete footing to timber posts shall in accordance with the Preambles to Bill of Quantities General Directions include for:

Item Coverage

- (a) excavation of acceptable material (as CC-RMP-00600 paragraphs 17 and 18);
- (b) excavation of unacceptable material (as CC-RMP-00600 paragraph 19);
- (c) excavation in Hard Material (as CC-RMP-00600 paragraph 23);
- (d) in situ concrete (as CC-RMP-01700 paragraph 4);
- (e) formwork (as CC-RMP-01700 paragraph 14);
- (f) reinforcement (as CC-RMP-01700 paragraph 25);
- (g) backfilling and compaction;
- (h) disposal of material (as CC-RMP-00600 paragraph 39).

Gates and Stiles

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The items for gates and stiles shall in accordance with the Preambles to Bill of Quantities General Directions include for:

Item Coverage

- (a) excavation of acceptable material (as CC-RMP-00600 paragraphs 17 and 18);
- (b) excavation of unacceptable material (as CC-RMP-00600 paragraph 19);
- (c) excavation in Hard Material (as CC-RMP-00600 paragraph 23);
- (d) trimming ground at entrance;
- (e) in situ concrete (as CC-RMP-01700 paragraph 4);
- (f) formwork (as CC-RMP-01700 paragraph 14);
- (g) reinforcement (as CC-RMP-01700 paragraph 25);
- (h) backfilling and compaction;
- (i) disposal of material (as CC-RMP-00600 paragraph 39);
- (j) preservation of timber;
- (k) protective system (as CC-RMP-01900 paragraph 4);

- (l) posts, fittings and furniture;
- (m) joining to existing fencing, hedges and walls;
- (n) in the case of new gates and stiles in existing fencing, hedges or walls, forming openings and making good;
- (o) stock-proofing.

Remove from Store and Re-erect Fencing, Gates and Stiles

Units	7	<p>The units of measurement shall be:</p> <ul style="list-style-type: none"> (i) remove from store and re-erect fencing linear metre. (ii) concrete footing to timber posts number. (iii) remove from store and re-erect gates and stiles number. 																					
Measurement	8	<p>The measurement of re-erected fencing shall be the developed length along the centre line of the re-erected fencing. The measurement of height of fencing shall be that stated in the Contract for the type of fence.</p> <p>The measurement of width of gates shall be the distance between the outer edges of the stiles; the outer edges of hanging stiles in the case of double gates.</p> <p>The measurement of height of gates shall be the distance between the upper surface of the top rail and the underside of the bottom rail.</p> <p>Concrete footing to timber posts shall only be measured for those locations stated in Appendices 1/15 or 3/1 of the Specification.</p>																					
Itemisation	9	<p>Separate items shall be provided for re-erected fencing, gates and stiles in accordance with Section 3 of CC-RMP-00010 paragraphs 3 and 4 and the following:</p> <p>Group Feature</p> <table border="0" style="margin-left: 20px;"> <tr> <td style="vertical-align: top;">I</td> <td style="vertical-align: top;">1</td> <td>Each type of re-erected fencing</td> </tr> <tr> <td></td> <td style="vertical-align: top;">2</td> <td>Concrete footing to timber posts of each type of re-erected fencing</td> </tr> <tr> <td></td> <td style="vertical-align: top;">3</td> <td>Each type of re-erected gate</td> </tr> <tr> <td></td> <td style="vertical-align: top;">4</td> <td>Each type of re-erected stile</td> </tr> <tr> <td style="vertical-align: top;">II</td> <td style="vertical-align: top;">1</td> <td>Re-erected fencing of different heights</td> </tr> <tr> <td></td> <td style="vertical-align: top;">2</td> <td>Re-erected gates of different heights and widths</td> </tr> <tr> <td style="vertical-align: top;">III</td> <td style="vertical-align: top;">1</td> <td>Re-erected painted fencing, gates or stiles</td> </tr> </table>	I	1	Each type of re-erected fencing		2	Concrete footing to timber posts of each type of re-erected fencing		3	Each type of re-erected gate		4	Each type of re-erected stile	II	1	Re-erected fencing of different heights		2	Re-erected gates of different heights and widths	III	1	Re-erected painted fencing, gates or stiles
I	1	Each type of re-erected fencing																					
	2	Concrete footing to timber posts of each type of re-erected fencing																					
	3	Each type of re-erected gate																					
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	2	Re-erected gates of different heights and widths																					
III	1	Re-erected painted fencing, gates or stiles																					
Remove from Store and Re-erect Fencing	10	<p>The items for remove from store and re-erect fencing shall in accordance with the Preambles to Bill of Quantities General Directions include for:</p>																					
Item Coverage		<ul style="list-style-type: none"> (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) fencing (as this document paragraph 4). 																					

Concrete Footing to Timber Posts **11** The items for concrete footing to timber posts shall in accordance with the Preambles to Bill of Quantities General Directions include for:

Item Coverage (a) concrete footing to timber posts (as this document paragraph 5).

Remove from Store and Re-erect Gates and Stiles **12** The items for remove from store and re-erect gates and stiles shall in accordance with the Preambles to Bill of Quantities General Directions include for:

- Item Coverage**
- (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) gates and stiles (as this document paragraph 6).

Walls and Environmental Noise Barriers

Units **13** The unit of measurement shall be:

- (i) walls linear metre.
- (ii) environmental noise barriers linear metre.

Measurement **14** The measurement shall be the developed length along the centre line of the top of the wall or the environmental noise barrier.

The measurement of height of wall or environmental noise barrier shall be that stated in the Contract for the type of wall or environmental noise barrier.

Itemisation **15** Separate items shall be provided for walls and environmental noise barriers in accordance with Section 3 of CC-RMP-00010 paragraphs 3 and 4 and the following:

Group	Feature
I	1 Each type wall
	2 Each type of environmental barrier
II	1 Walls of different heights
	2 Barriers of different heights
III	1 Curved on plan
IV	1 With battered face
V	1 Different finishes
V	1 Different infills

Walls **16** The items for walls shall in accordance with the Preambles to Bill of Quantities General Directions include for:

- Item Coverage**
- (a) excavation of acceptable material (as CC-RMP-00600 paragraph 17 and 18);
 - (b) excavation of unacceptable material (as CC-RMP-00600 paragraph 19);
 - (c) excavation in Hard Material (as CC-RMP-00600 paragraph 23);
 - (d) in situ concrete (as CC-RMP-01700 paragraph 4);

- (e) formwork (as CC-RMP-01700 paragraph 14);
- (f) reinforcement (as CC-RMP-01700 paragraph 25);
- (g) backfilling and compaction;
- (h) disposal of material (as CC-RMP-00600 paragraph 39);
- (i) preservation of timber;
- (j) sample panels;
- (k) protective system (as CC-RMP-01900 paragraph 4);
- (l) forming pockets and casting in sockets;
- (m) fixing to structures and other elements;
- (n) accesses;
- (o) gabion walling and mattresses (as CC-RMP-00600 paragraph 112);
- (p) crib-walling (as CC-RMP-00600 paragraph 116);
- (q) pre-cast members, slabs, segmental units, hinges, specially moulded blocks, copings, capping units, plinths, culverts and facing units (as CC-RMP-01700 paragraph 9).

Environmental Noise Barriers

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The items for environmental noise barriers shall in accordance with the Preambles to Bill of Quantities General Directions include for:

Item Coverage

- (a) excavation of acceptable material (as CC-RMP-00600 paragraph 17 and 18);
- (b) excavation of unacceptable material (as CC-RMP-00600 paragraph 19);
- (c) excavation in Hard Material (as CC-RMP-00600 paragraph 23);
- (d) in situ concrete (as CC-RMP-01700 paragraph 4);
- (e) formwork (as CC-RMP-01700 paragraph 14);
- (f) reinforcement (as CC-RMP-01700 paragraph 25);
- (g) backfilling and compaction;
- (h) disposal of material (as CC-RMP-00600 paragraph 39);
- (i) preservation of timber;
- (j) trimming ground on the line of the environmental noise barrier;
- (k) burying the bottom of the environmental noise barrier or gravel board;
- (l) sample panels including safety barriers;
- (m) gates, fittings and furniture;
- (n) adjustment of the environmental barrier to a flowing alignment;
- (o) protective system (as CC-RMP-01900 paragraph 4);
- (p) forming pockets and casting in sockets;
- (q) fixing to structures and other elements;
- (r) accesses;
- (s) filling.

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-01700 Requirements for Measuring and Pricing of Structural Concrete

CC-RMP-01900 Requirements for Measuring and Pricing of Protection of Steelwork against Corrosion



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