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**Series 1100: Kerbs, Footways and Paved Areas**

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**Kerbs, Channels, Edgings, Combined Drainage and Kerb Blocks and Linear Drainage Channel Systems**

Units	<p><b>1</b> The unit of measurement shall be:</p> <p>(i) kerbs, channels, edgings, combined drainage and kerb blocks and linear drainage channel systems ..... linear metre.</p>
Measurement	<p><b>2</b> The measurement of kerbs, channels, edgings, combined drainage and kerb blocks and linear drainage channel systems shall be the lengths required by the Contract. No deduction shall be made for gaps of 1 linear metre or less.</p>
Itemisation	<p><b>3</b> Separate items shall be provided for kerbs, channels, edgings, combined drainage and kerb blocks and linear drainage channel systems in accordance with Chapter II paragraphs 3 and 4 and the following:</p>

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Group Feature

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I	<p>1 Kerbs.</p> <p>2 Channels.</p> <p>3 Edgings.</p> <p>4 Combined drainage and kerb blocks.</p> <p>5 Linear drainage channel systems.</p>
II	<p>1 Permitted alternative materials and designs.</p> <p>2 Different materials and designs.</p> <p>3 Group reference.</p>
III	<p>1 Straight or curved exceeding 12 metres radius.</p> <p>2 Curved not exceeding 12 metres radius.</p>

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**Kerbs, Channels, Edgings, Combined Drainage and Kerb Blocks and Linear Drainage Channel Systems**

Item coverage

4	<p>The items for kerbs, channels, edgings, and combined drainage and kerb blocks and linear drainage channel systems shall in accordance with the Preambles to Bill of Quantities General Directions include for:</p> <p>(a) trial mixes;</p> <p>(b) making good after sampling and testing;</p> <p>(c) excavation of acceptable material (as Series 600 paragraphs 17 and 18);</p> <p>(d) excavation of unacceptable material (as Series 600 paragraph 19);</p> <p>(e) excavation in Hard Material (as Series 600 paragraph 23);</p>
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- (f) disposal of material (as Series 600 paragraph 39);
- (g) concrete (as Series 1700 paragraphs 5 and 10);
- (h) formwork (as Series 1700 paragraph 15);
- (i) reinforcement (as Series 1700 paragraph 26);
- (j) mixing materials and extruding kerbs;
- (k) bedding, bonding, jointing, including movement joints, filling and sealing of joints;
- (l) keying of surfaces and tack coats;
- (m) surface finishing, curing and protecting;
- (n) gratings, frames, bedding and seatings;
- (o) tie bars;
- (p) drainage holes or pipes through concrete;
- (q) quadrants, dropper kerbs and other special kerb units;
- (r) edge support;
- (s) preservation of timber;
- (t) cutting;
- u) drainage layer;
- (v) additional pavement material below channels;
- (w) backfilling and compaction;
- (x) special units and fittings;
- (y) connections to chambers;
- (z) in the case of combined drainage and kerb blocks and linear drainage channel systems - design, certificates, provision of data and drawings, resubmissions, modifications and amendments to the Works.
- (aa) in the case of combined drainage and kerb blocks and linear drainage channel systems - internal checking and cleaning;
- (bb) reinstatement of surfaces.

**Additional Concrete for Kerbs, Channels, Edgings, Combined Drainage and Kerb Blocks and Linear Drainage Channel Systems**

Units

5 The unit of measurement shall be:

- (i) additional concrete for kerbs, channels, edgings, combined drainage and kerb blocks and linear drainage channel systems  
..... cubic metre.

- Measurement                      6     The measurement of additional concrete for kerbs, channels, edgings, combined drainage and kerb blocks and linear drainage channel systems shall be the volume required by the Contract in excess of the standard requirements of the Contract for each type of kerb, channel, edging, combined drainage and kerb block or linear drainage channel system.
- Itemisation                         7     Separate items shall be provided for additional concrete for kerbs, channels, edgings, combined drainage and kerb blocks and linear drainage channel systems in accordance with Chapter II paragraphs 3 and 4 and the following:

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Group	Feature
I	1    Additional concrete of different mixes, classes or grades.
II	1    To kerbs. 2    To channels. 3    To edgings. 4    To combined drainage and kerb blocks. 5    To linear drainage channel systems.

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**Additional Concrete for Kerbs, Channels, Edgings, Combined Drainage and Kerb Channel Systems**

- Item coverage                      8     The items for additional concrete for kerbs, channels, edgings, combined drainage and kerb blocks and linear drainage channel systems shall in accordance with the Preambles to Bill of Quantities General Directions include for:
- (a) excavation of acceptable material (as Series 600 paragraphs 17 and 18);
- (b) excavation of unacceptable material (as Series 600 paragraph 19);
- (c) excavation in Hard Material (as Series 600 paragraph 23);
- (d) in situ concrete (as Series 1700 paragraph 5);
- (e) formwork (as Series 1700 paragraph 15);
- (f) reinforcement (as Series 1700 paragraph 26);
- (g) forming, filling and sealing joints;
- (h) surface finishing, curing and protecting;
- (i) movement joints;
- (j) drainage holes or pipes through concrete;
- (k) disposal of material (as Series 600 paragraph 39).

**Remove from Store and Relay Kerbs, Channels, Edgings, Combined Drainage and Kerb Blocks and Linear Drainage Channel Systems**

- Units **9** The unit of measurement shall be:
- (i) remove from store and relay kerbs, channels, edgings, combined drainage and kerb blocks and linear drainage channel systems  
..... linear metre.
- Measurement **10** The measurement for remove from store and relay kerbs, channels, edgings, combined drainage and kerb blocks and linear drainage channel systems shall be the length required by the Contract. No deduction shall be made for gaps of 1 linear metre or less.
- Itemisation **11** Separate items shall be provided for remove from store and relay kerbs, channels, edgings, combined drainage and kerb blocks and linear drainage channel systems in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Remove from store and relay kerbs.
	2 Remove from store and relay channels.
	3 Remove from store and relay edgings.
	4 Remove from store and relay combined drainage and kerb blocks.
	5 Remove from store and relay linear drainage channel systems.
II	1 Different materials and designs.
III	1 Straight or curved exceeding 12 metres radius.
	2 Curved not exceeding 12 metres radius.

- Remove from Store and Relay Kerbs, Channels, Edgings, Combined Drainage Kerb Blocks and Linear Drainage Channel Systems** **12** The items for remove from store and relay kerbs, channels, edgings, combined drainage and kerb blocks and linear drainage channel systems 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 relaying;
- (b) replacing items damaged during the foregoing operations;
- (c) modification and new materials;
- (d) kerbs, channels, edgings, combined drainage and kerb blocks and

linear drainage channel systems (as this Series paragraph 4).

**Footways and Paved Areas**

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|-------------|---|
| Units       | <p><b>13</b> The units of measurement shall be:</p> <p>(i) footways and paved areas ..... square metre.</p> <p>(ii) bituminous regulating course ..... tonne.</p> <p>(iii) cement bound regulating course ..... cubic metre.</p>  |
| Measurement | <p><b>14</b> The measurement of footways and paved areas shall be calculated using the width of the top surface stated in the Contract.</p> <p><b>15</b> In the case of flexible construction where a Group reference is given for the whole construction, the total thickness of the combined sub-base, binder course, surface course and/or surface dressing shall be stated.</p> <p><b>16</b> In all other cases of flexible construction the thickness of each course shall be stated in the item description except that where a surface dressing is an integral part of any course then the combined thickness of the course and surface dressing shall be stated.</p> <p><b>17</b> In the cases of in situ and precast concrete, stone, slab and block paving the thickness of the sub-base, bedding and paving shall be separately stated in the item description.</p> <p><b>18</b> The measurement of bituminous regulating course shall be the tonnage certified by the Overseeing Organisation, being only that material included on delivery tickets which is incorporated in the Permanent Works in the locations and to the extent and thickness required by the Contract. The measurement of cement bound regulating course shall be the volume of material measured to the outlines stated in the Contract.</p> <p><b>19</b> No deduction shall be made for openings of 1 square metre or less.</p> |
| Itemisation | <p><b>20</b> Separate items shall be provided for footways and paved areas in accordance with Chapter II paragraphs 3 and 4 and the following:</p>  |

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Group Feature

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- |   |   |              |
|---|---|--------------|
| I | 1 | Footways.    |
|   | 2 | Paved areas. |
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- |    |   |                                  |
|----|---|----------------------------------|
| II | 1 | Different types of construction. |
|----|---|----------------------------------|
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|-----|---|------------------------|
| III | 1 | Different thicknesses. |
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IV 1 Different sizes, groups or types.

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V 1 Surfaces sloping at 10o or less to the horizontal.  
2 Surfaces sloping at more than 10o to the horizontal.

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VI 1 Regulating course of different groups or types.

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**Footways and Paved Areas**

Item coverage

**21** The items for footways and paved areas shall in accordance with the Preambles to Bill of Quantities General Directions include for:

- (a) sub-base (as Series 700 paragraph 5);
- (b) edge support;
- (c) concrete (as Series 1700 paragraphs 5 and 10);
- (d) formwork (as Series 1700 paragraph 15);
- (e) void formers (as Series 1700 paragraph 16);
- (f) reinforcement (as Series 1700 paragraph 26);
- (g) joint filler and sealant (as Series 2300 paragraphs 9 and 10);
- (h) trial mixes;
- (i) laying to levels and falls;
- (j) bedding, jointing and pointing;
- (k) straight, circular and radial cutting and fitting;
- (l) rough and fair cutting and fitting;
- (m) base, lower base, upper base, binder course, surface course and concrete slab (as Series 700 paragraph 9);
- (n) compacting;
- (o) membrane;
- (p) topsoiling (as Series 600 paragraph 80);
- (q) grass seeding (as Series 3000 paragraph 9).

**Bituminous and Cement Bound Regulating Course**

Item coverage

**22** The items for bituminous and cement bound regulating course shall in accordance with the Preambles to Bill of Quantities General Directions include for:

- (a) bituminous and cement bound regulating course (as Series 700 paragraph 14).

**Remove from Store and Relay Paving Flags, Slabs and Blocks**

- Units **23** The unit of measurement shall be:
- (i) remove from store and relay paving flags, slabs and blocks ..... square metre.
- Measurement **24** The measurement of remove from store and relay paving flags, slabs and blocks shall be the area of the top surface of the work stated in the Contract.
- No deduction shall be made for openings of 1 square metre or less.
- Itemisation **25** Separate items shall be provided for remove from store and relay paving flags, slabs and blocks in accordance with Chapter II paragraphs 3 and 4 and the following:

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Group		Feature
I	1	Remove from store and relay paving in footways.
	2	Remove from store and relay paving in paved areas.
II	1	Different types of construction.
III	1	Different thicknesses.
IV	1	Different sizes groups or types.
V	1	Surfaces sloping at 10o or less to the horizontal.
	2	Surfaces sloping at more than 10° to the horizontal.

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**Remove from Store and Relay Paving Flags, Slabs and Blocks**

- Item coverage **26** The items for remove from store and relay paving flags, slabs and blocks shall in accordance with the Preambles to Bill of Quantities General Directions include for:
- (a) loading, transporting from store unloading and positioning for relaying;
- (b) replacing items damaged during the foregoing operations;
- (c) modification and new materials;
- (d) footways and paved areas (as this Series paragraph 21).

**Steps**

- 27** The unit of measurement shall be:  
(i) flights of steps ..... number.
- Measurement **28** The measurement of steps shall be the complete flight including landings.
- Itemisation **29** Separate items shall be provided for steps in accordance with Chapter II paragraphs 3 and 4 and the following:

Group Feature

- I 1 Flight of steps.
- II 1 Different locations.
- Steps** **30** The items for steps shall in accordance with the Preambles to Bill of Quantities General Directions include for:
- Item coverage (a) excavation of acceptable material (as Series 600 paragraphs 17 and 18);  
(b) excavation of unacceptable material (as Series 600 paragraph 19);  
(c) excavation in Hard Material (as Series 600 paragraph 23);  
(d) backfilling, compaction and reinstatement;  
(e) disposal of material (as Series 600 paragraph 39);  
(f) completion of formation (as Series 600 paragraph 85)  
(g) brickwork, blockwork and stonework (as Series 2400 paragraphs 4 and 8);  
(h) kerbs, channels, edgings, combined drainage and kerb blocks and linear drainage channel systems (as this Series paragraph 4);  
(i) footways and paved areas (as this Series paragraph 21);  
(j) surface finishing and non-slip treatment;  
(k) tread nosings;  
(l) pedestrian guardrails and handrails (as Series 400 paragraph 46);  
(m) fencing (as Series 300 paragraph 4);  
(n) concrete foundation to timber posts (as Series 300 paragraph 5);  
(o) gates and stiles (as Series 300 paragraph 6);  
(p) reinstatement of surfaces.