

NEW SOUTH WALES

DEVELOPMENT  
CONSTRUCTION  
SPECIFICATION

C254

**SEGMENTAL PAVING**



**Amendment Record for this Specification Part**

This Specification is Council's edition of the AUS-SPEC generic specification part and includes Council's primary amendments.

Details are provided below outlining the clauses amended from the Council edition of this AUS-SPEC Specification Part. The clause numbering and context of each clause are preserved. New clauses are added towards the rear of the specification part as special requirements clauses. Project specific additional script is shown in the specification as italic font.

The amendment code indicated below is 'A' for additional script 'M' for modification to script and 'O' for omission of script. An additional code 'P' is included when the amendment is project specific.

<b>Amendment Sequence No.</b>	<b>Key Topic addressed in amendment</b>	<b>Clause No.</b>	<b>Amendment Code</b>	<b>Author Initials</b>	<b>Amendment Date</b>
<i>EXAMPLE 1</i>	<i>Provision for acceptance of nonconformance with deduction in Payment</i>	<i>XYZ.00</i>	<i>AP</i>	<i>KP</i>	<i>2/6/97</i>



## SPECIFICATION C254 - SEGMENTAL PAVING

### GENERAL

#### C254.01 SCOPE

1. This Specification covers the construction of both clay and concrete segmental paving for road pavements, medians, traffic islands, driveways, cycleways, footpaths and other pedestrian areas.
2. The work to be executed under this Specification consists of the supply, placement and compaction of segmental pavers including the provision of a sand bedding course and joint filling sand, over bound or unbound base and/or subbase layer/s.
3. This Specification should be read in conjunction with the appropriate Specifications for the construction of the base and subbase layers beneath the segmental paving, ie. FLEXIBLE PAVEMENTS, MASS CONCRETE SUBBASE.
4. Requirements for quality control and testing, including maximum lot sizes and minimum test frequencies, are cited in the Specification Part for Quality Requirements.

**Quality**

#### C254.02 TERMINOLOGY

1. Concrete segmental pavers are units of not more than 0.10 square metres in gross plan area, manufactured from concrete, with plain or dentated sides, with top and bottom faces parallel and with or without chamfered edges.
2. Concrete pavers are identified by shape as being one of the following types:

**Size**

**Concrete Pavers**

##### Shape Type A

Dentated chamfered units which key into each other on four sides, are capable of being laid in herringbone bond, and by their plan geometry, when interlocked, resist the spread of joints parallel to both the longitudinal and transverse axes of the units.

##### Shape Type B

Dentated units which key into each other on two sides, are not (usually) laid in herringbone bond, and by their plan geometry, when keyed together, resist the spread of joints parallel to the longitudinal axes of the units and rely on their dimensional accuracy and accuracy of laying to interlock on the other faces.

##### Shape Type C

Units which do not key together and which rely on their dimensional accuracy and accuracy of laying to develop interlock.

3. Clay pavers are manufactured from clay, shale or argillaceous materials which may be mixed with additives. Clay pavers may have square, bevelled (chamfered), rounded or rumbled edges. They are generally rectangular in shape, with the length twice the width, plus 2mm.
4. Clay pavers are classified as either Class 1, 2, 3 or 4 according to their intended application, with increasing performance requirements (and thickness) from Class 1 to Class 4.

**Clay Pavers**

**Classification**

5. Laying patterns of pavers are identified as being either Herringbone, Basket-weave, or Stretcher as shown in Annexure C254-A. Each of these may be laid at either 90° or 45° to the line of edge restraints. A variation of Stretcher is the Zig Zag Running Bond, also shown in Annexure C254-A.

**Pattern**

### **C254.03 CHOICE OF PAVER TYPE, SHAPE, CLASS AND LAYING PATTERN**

1. The choice of concrete or clay segmental pavers, the paver class (for clay pavers), shape type (for concrete pavers), shape name, colour, thickness and laying pattern shall be as shown on the Drawings for each area of application.

**Type**

2. Unless otherwise specified, concrete pavers for road pavements shall be placed in herringbone laying pattern and shall be in accordance with the requirements for the appropriate road application shown in Table C254.1.

**Concrete**

3. Unless otherwise specified, clay pavers for road pavements shall be Class 4, minimum 65mm nominal thickness, and placed in a herringbone laying pattern.

**Clay**

### **C254.04 REFERENCE DOCUMENTS**

1. Documents referenced in this Specification are listed in full below whilst being cited in the text in the abbreviated form or code indicated.

**Documents  
Standards Test  
Methods**

#### **(a) Council Specifications**

- C213 - Earthworks
- C224 - Open Drains including Kerb and Gutter
- C241 - Stabilisation
- C242 - Flexible Pavements
- C247 - Mass Concrete Subbase
- C271 - Minor Concrete Works

#### **(b) Australian Standards**

- AS 1141.11 - Particle size distribution by dry sieving.
- AS/NZS 4455 - Masonry units and segmental pavers.
- AS/NZS 4456.0 - Masonry units and segmental pavers - Methods of test - General introduction and list of methods.
- AS/NZS 4456.3 - Determining dimensions.
- AS/NZS 4456.5 - Determining breaking load of segmental paving units.
- AS/NZS 4456.9 - Determining abrasion resistance.
- AS/NZS 4586 - Slip resistance classification of new pedestrian surface materials.

#### **(c) Concrete Masonry Association of Australia Specifications**

- T44 - Concrete Segmental Pavements - Guide to Specifying.
- T45 - Concrete Segmental Pavements - Design Guide for Residential Access Ways and Roads.
- T46 - Concrete Segmental Pavements - Detailing Guide.

#### **(d) Clay Brick and Paver Institute Specifications**

- Paver Note 1 - Specifying and Laying Clay Pavers

## MATERIALS

### C254.05 GENERAL

1. The Contractor shall submit details of all proposed segmental paving materials, including bedding sand and joint filling sand. These details shall be submitted to the Superintendent for approval supported with test results from a nominated NATA registered laboratory, confirming that the constituents comply with the requirements of this Specification.

**Details  
Required**

2. No pavers shall be delivered until the Superintendent has approved the type and quality of the pavers and noted the source of supply as compliant to the requirements of this Specification. All pavers shall have suitable "slip resistance" for pedestrian traffic and vehicular traffic with a classification "W" according to AS/NZS 4586 for the Wet Pendulum Test. Where specific localities or levels of usage require a higher slip resistance classification, this classification shall be indicated on the Drawings. Such approval shall not relieve the Contractor of any responsibility for supplying materials that comply with this Specification.

**Slip  
Resistance,  
Superinten-  
dent's  
Approval**

### C254.06 CONCRETE SEGMENTAL PAVERS

1. Concrete segmental pavers shall comply with the requirements of T44, T45, T46, and AS/NZS 4455 for each area of application.

**Specification**

2. The material requirements for concrete pavers for each application, derived from T44, are shown in Table C254.1.

**Requirements**

Application	Characteristic breaking load <sup>3</sup> (kN)	Characteristic flexural strength <sup>3</sup> (MPa)	Minimum Thickness (mm)	Shape <sup>4</sup> (type)	Dimensional deviations (Category - AS 4455)	Abrasion resistance (mean abrasion index)
Residential Driveways Light Traffic Medium Traffic <sup>1</sup>	3 5	2 3	No limit No limit	Any Any	DPA1 or DPB1 DPA1 or DPB1	7 7
Public Footpaths Low Volume High Volume and Pedestrian Malls <sup>1</sup>	5 5	3 3	No limit No limit	Any Any	DPB2 DPB2	5 3.5
Roads <sup>4</sup> Minor Local and Collector Distributor	5 5 5	3 3 3	60 80 80	Any Any A	DPB2 DPB2 DPB2	5 5 5
Industrial Pavements <sup>2</sup>	10	4	80	A	DPB3	7

**Table C254.1  
Material Requirements for Concrete Segmental Pavers**

- Notes:
1. Capable of taking occasional 8.2-t axle loads.
  2. The resultant joint width is a combination of paver dimensional deviation and laying procedures.
  3. At 28 days.
  4. Interlocking shapes offer superior performance in road applications.

3. The pavers shall meet the requirements for the relevant application given in Table C254.1 when tested in accordance with the following test methods: **Test Methods**

- characteristic breaking load AS/NZS 4456.5
- characteristic flexural strength AS/NZS 4456.5
- Minimum thickness Not Applicable
- Shape type Not Applicable
- Dimensional deviations AS/NZS 4456.3
- Abrasion resistance AS/NZS 4456.9

**C254.07 CLAY SEGMENTAL PAVERS**

1. Clay segmental pavers shall comply with the requirements of Part 1 - Specifying Clay Pavers of Paver Note 1 - 'Specifying and Laying Clay Pavers' and with the requirements of AS/NZS 4455. **Specification**

2. Clay pavers shall be classified as Class 1, 2, 3 or 4 in accordance with Paver Note 1 - Specifying and Laying Clay Pavers. Unless otherwise indicated, Class 4 pavers shall be used for all road and driveway pavements, medians and traffic islands. Class 2 or 3 pavers may be used for footpaths, cycleways and other pedestrian areas, except where they are subject to vehicular traffic with axle loads greater than 2.7 tonnes, in which case Class 4 pavers shall be used. Class 1 pavers shall only be permitted for low-volume pedestrian applications not subject to any vehicular traffic. **Class**

3. The abrasion resistance as determined by the SCC Abrasion Test (Paver Note1) shall conform to the recommended characteristic abrasion losses contained in Paver Note 1. **Abrasion Resistance**

**C254.08 BEDDING SAND**

1. The bedding sand shall be a well-graded sand, consisting of clean, hard, uncoated grains uniform in quality, generally passing a 4.75mm sieve. The bedding sand shall be from a single source or blended to achieve, when tested in accordance with AS 1141.11, the following grading: **Grading**

AS Sieve	% Passing
9.52mm	100
4.75	95 - 100
2.36	80 - 100
1.18	50 - 85
600µm	25 - 60
300	10 - 30
150	5 - 15
75	0 - 10

2. The sand shall be of uniform moisture content when spread. It shall be covered when stored on site to protect it from rain penetration. **Protection**

3. The bedding sand shall be free of deleterious soluble salts or other contaminants which may cause, or contribute to, efflorescence. **Cleanliness**



**C254.09 JOINT FILLING SAND**

1. The joint filling sand shall be well graded passing a 2.36mm sieve, and when tested in accordance with AS 1141.11, having the following grading: **Grading**

AS Sieve	% Passing
2.36mm	100
1.18	90 - 100
600µm	60 - 90
300	30 - 60
150	15 - 30
75	5 - 10

2. The sand shall be dry when spread. It shall be covered when stored on site to protect it from rain penetration. **Protection**
3. The sand shall be free of deleterious soluble salts or other contaminants. **Cleanliness**
4. Sand used for bedding is not suitable for joint filling.

**C254.10 CONCRETE FOR EDGE RESTRAINTS**

1. Concrete supplied and placed for the construction of edge strips shall comply with the Specification for MINOR CONCRETE WORKS. **Specification**
2. Unless otherwise indicated on the Drawings, or where the edge restraint is provided by kerb and/or gutter, the concrete used for edge restraints shall have a minimum 28-day characteristic compressive strength of 32MPa for edge restraints to pavers on road pavements and 25MPa for edge restraints to pavers on footpaths, cycleways, medians and driveways. **Strength**

**CONSTRUCTION****C254.11 SUBGRADE PREPARATION**

1. The subgrade shall be formed to the required depth below finished surface level as shown on the Drawings in accordance with the Specification for EARTHWORKS. **Levels**
2. The finished subgrade foundation for the provision of subbase and/or base shall be subject to the approval of the Superintendent. **Superintendent's Approval**

**C254.12 SUBBASE**

1. Where shown on the Drawings a subbase or working platform shall be constructed in accordance with the relevant Specification for STABILISATION, FLEXIBLE PAVEMENTS, or MASS CONCRETE SUBBASE. **Specifications**
2. The subbase shall be constructed to the specified thickness, compaction and depth below finished surface level and to the design grade and crossfalls of the finished surface. **Levels**

3. The finished subbase shall be subject to the approval of the Superintendent.

**Superintendent's Approval**

### **C254.13 BASE**

1. The base shall be constructed to the specified thickness and depth below finished surface level, and to the design grade and crossfalls of the finished surface, as shown on the Drawings in accordance with the Specification for FLEXIBLE PAVEMENTS.

**Levels**

2. The base course shall extend in width to at least the rear face of all new edge restraints.

**Extent**

3. Notwithstanding the finished level tolerances contained within the Specification for FLEXIBLE PAVEMENTS for base of  $\pm 10\text{mm}$  of design levels, the level on the finished surface of the base course for road pavements to be overlain with segmental paving shall be trimmed to within  $+ 10\text{mm}$  or  $- 0\text{mm}$  of design levels. The deviation from a 3m long straight edge placed anywhere and laid in any direction on the top surface of the base course for all segmental paving shall not exceed 10mm. Sand bedding material shall not be used as a levelling material to compensate for base finishing outside the above tolerances.

**Tolerances**

4. The finished surface of the base shall drain freely without ponding.

**Free Drainage**

5. The finished base shall be subject to the approval of the Superintendent.

**Superintendent's Approval**

### **C254.14 EDGE RESTRAINTS**

1. Edge restraints in the form of kerb and/or gutter or edge strips shall be constructed along the perimeter of all segmental paving as shown on the Drawings. Concrete kerb and/or gutter and edge strips shall be constructed in accordance with the Specifications for OPEN DRAINS INCLUDING KERB AND GUTTER and MINOR CONCRETE WORKS.

**Requirements**

2. Faces of edge restraints abutting pavers shall be vertical.

3. Edge restraints shall be supported on compacted base and/or subbase of the thickness as shown on the Drawings. Where not otherwise specified or indicated, the minimum thickness of compacted base beneath the edge restraints shall be 100mm adjacent to road pavements and medians, and 50mm adjacent to footpaths, cycleways and driveways.

**Support**

4. Unless otherwise shown on the Drawings, contraction joints, 20mm depth shall be formed every 5m of edge restraint length.

**Joints**

5. After the concrete has hardened and not earlier than three days after placing, unless otherwise directed by the Superintendent the spaces at the back of the edge restraint shall be backfilled with earth, compacted in layers not greater than 150mm thick, then topsoiled to meet surrounding of design levels.

**Back**

**Filling**

AUS-SPEC #1

**C254.15 SAND BEDDING COURSE**

- |  |                         |
|--|-------------------------|
| 1. The sand bedding course shall be spread in a single uniform layer and screeded in a loose condition to the nominated design profile and levels plus that necessary to achieve a uniformly thick nominal 20-25mm layer following final compaction of the segmental paving. | <b>Allowance Levels</b> |
| 2. Any depressions in the screeding sand exceeding 5mm shall be loosened, raked and rescreeded before laying pavers.   | <b>Depressions</b>      |
| 3. For the manual placing of paving units, the bedding sand shall be maintained at a uniform loose density. For mechanised laying, the bedding sand shall be uniformly and firmly, but not fully, compacted.   | <b>Compaction</b>       |
| 4. Screeded sand left overnight or subject to rain shall be checked for level and rescreeded where necessary before pavers are placed. The sand shall not be screeded more than two metres in advance of the laying face at the completion of work on any day.               | <b>Screeding</b>        |

**C254.16 LAYING PAVERS**

- |  |                               |
|--|-------------------------------|
| 1. Pavers shall be uniformly placed on the screeded sand bedding to the nominated laying pattern. Pavers shall be placed so that they are not in direct contact with each other and shall have uniform 3mm nominal joint widths. The pavers shall be mixed between various pallets to ensure that any colour variation from one pallet of pavers to the next is evenly distributed over the entire paved area. | <b>Placement and Jointing</b> |
| 2. The first row shall be located next to an edge restraint or an established straight line, and laid at a suitable angle to achieve the required orientation of pavers in the completed pavement.   | <b>Sequence</b>               |
| 3. In each row, full units shall be laid first. Edge or closer units shall be neatly cut using a paver scour, or mechanical or hydraulic guillotine, and fitted subsequently. Cut pieces of pavers which are smaller in size than one quarter of a full block shall not be used.   | <b>Odd Shapes</b>             |
| 4. Access chambers, drainage gullies and similar penetrations through the pavement shall be finished against the paving with a concrete surround or apron designed to suit and fit the laying pattern, otherwise complying with the requirements for edge restraints.  | <b>Penetrations</b>           |
| 5. Where pavers are placed over an isolation, contraction or expansion joint in an underlying concrete pavement, a joint is to be provided in the pavers. The joint shall consist of 10mm thick preformed jointing material of bituminous fibreboard.  | <b>Formed Joints</b>          |
| 6. Any foot or barrow traffic shall use boards overlaying paving to prevent disturbance of units prior to compaction. No other construction traffic shall be allowed on the pavement prior to compaction and provision of joint filling sand.  | <b>Construction Traffic</b>   |
| 7. On completion of subsequent bedding compaction and joint filling operations, all joints shall have widths within the range 2-4mm.   | <b>Tolerance</b>              |

**C254.17 BEDDING COMPACTION**

- |  |                   |
|--|-------------------|
| 1. After laying the pavers the sand bedding shall be fully compacted and the surface brought to design levels and surface profiles by not less than two passes of a high frequency low amplitude plate compactor which covers at least 12 units. Compaction shall continue until all pavers form a smooth surface with adjacent paver edges matching. The level difference between adjoining edges of any two pavers shall be a maximum of 2mm, to avoid trip hazards, unless approved otherwise by the Superintendent for rough | <b>Compaction</b> |
|--|-------------------|

textured pavers.

2. Any units which are structurally damaged during bedding compaction shall be removed and replaced. The pavement shall then be recompact for at least one metre surrounding each replacement unit.

**Damage**

3. The paving operations shall be arranged so that the use of the plate compactor proceeds progressively behind the laying face without undue delay, and such that compaction is completed prior to cessation of construction activity on any day. Compaction shall not be attempted within one metre of the laying face except on completion of the pavement against an edge restraint.

**Progressive  
Compaction**

4. The finished surface level shall not vary from the design level at any point laid in any direction, by more than 6mm for all areas with Class 4 segmental pavements and 8mm for all other areas of segmental paving. Notwithstanding this, the finished surface of the segmental paving, including where the paving abuts an edge restraint other than a drainage inlet, shall not deviate from the bottom of a 3m straight edge laid in any direction, except at grade changes, by more than 6mm for road pavements and 8mm for all other areas of segmental paving.

**Finished  
Levels**

5. The channels formed between abutting chamfered units shall finish with their inverts not less than 5mm nor more than 10mm above adjacent drainage inlets.

**Drainage Inlets**

6. All compaction shall be complete and the pavement shall be brought to design profiles before spreading or placing sand filling in the joints.

**Joint Filling**

#### **C254.18 FILLING JOINTS**

1. As soon as practicable after bedding compaction, and in any case prior to termination of work on any day, dry sand for joint filling shall be spread over the pavement and the joints filled by brooming.

**Timing**

2. To ensure complete filling of the joints, both the filling sand and pavers shall be as dry as practicable when sand is spread and broomed into the joints.

**Condition**

3. The pavement shall then receive one or more passes of a plate compactor and the joints then refilled with sand, with the process then repeated sufficiently to ensure that the joints are completely filled.

**Process**

#### **C254.19 PROTECTION OF WORK**

1. Other than wheeled trolleys, forklifts and cluster-clamp vehicles, construction and other traffic shall not use the pavement until bedding compaction and joint filling operations have been completed.

**Restricted Use**

#### **C254.20 OPENING TO TRAFFIC**

1. As soon as practicable after the filling of joints, construction vehicles may use the pavement, and should be encouraged to traverse the greatest possible area of pavement to assist in the development of 'lock-up'.

**No Tracking**

2. Excess joint filling sand shall be removed prior to opening to traffic.

**Excess Sand**

3. The pavement shall then be inspected by the Contractor at regular intervals up until the expiration of the Defects Liability Period to ensure that all joints remain completely filled.

**Inspections**

## LIMITS AND TOLERANCES

### C254.21 SUMMARY OF LIMITS AND TOLERANCES

1. The limits and tolerances applicable to the various clauses in this Specification are summarised in Table C254.2 below:

Item	Activity	Limits/Tolerances	Spec Clause
1.	<b>Base</b>		
	(a) Surface Level	Finished level of base for road pavements to be within +10mm or -0mm of design levels.	C254.13
		Finished level of base other than for road pavements, to be within $\pm 10$ mm of design levels.	C254.13
		The top surface of the base for all segmental paving shall not deviate from a 3m straight edge, laid in any direction, by more than 10mm.	C254.13
2.	<b>Laying Paving Units</b>		
	(a) Joint widths	Within the range 2 -4mm.	C254.16
3.	<b>Completed Segmental Paving</b>		
	(a) Surface level	Finished surface level of pavers shall not vary from design levels by more than $\pm 6$ mm for road pavements and $\pm 8$ mm for other than road pavements.	C254.17
		Finished surface of pavers shall not deviate from a 3m straight edge, laid in any direction, by more than 6mm for road pavements and 8mm for other than road pavements.	C254.17
	(b) Level adjacent to drainage inlets	Invert level of channels between abutting chamfered units shall be not less than 5mm and not more than 10mm above the level of adjacent drainage inlets.	C254.17
	(c) Difference in level of adjacent pavers	$\leq 2$ mm	C254.17

Table C254.2 - Summary of Limits and Tolerances

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**SPECIAL REQUIREMENTS**

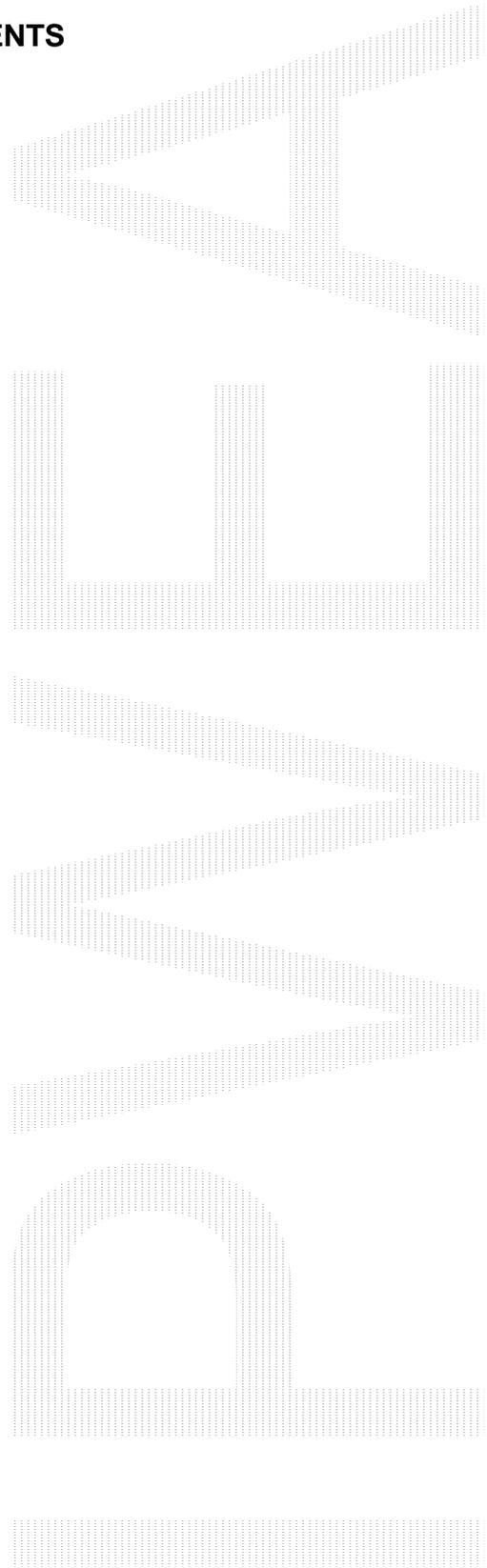
**C254.22 RESERVED**

**C254.23 RESERVED**

**C254.24 RESERVED**

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**C254.26 RESERVED**



AUS-SPEC #1

## MEASUREMENT AND PAYMENT

### C254.27 PAY ITEMS

1. Payment shall be made for all activities associated with completing the work detailed in the Specification in accordance with Pay Items C254(a) to C254(c) inclusive.
2. A lump sum price for any of these items shall not be accepted.
3. If any item for which a quantity of work is listed in the Schedule of Rates has not been priced by the Contractor it shall be understood that due allowance has been made in the prices of other items for the cost of the activity which has not been priced.
4. Excavation and preparation of subgrade is measured and paid in accordance with the Specification for EARTHWORKS.
5. Subbase and Base are measured and paid in accordance with the Specifications for STABILISATION, FLEXIBLE PAVEMENTS, or MASS CONCRETE SUBBASE as appropriate.
6. Kerb and/or gutter is measured and paid in accordance with the Specification for OPEN DRAINS INCLUDING KERB AND GUTTER.
7. Edge strips are measured and paid in accordance with this Specification and not in the Specification for MINOR CONCRETE WORKS.
8. Miscellaneous minor concrete work not included in the pay items in this Specification shall be in accordance with pay items described in the Specification for MINOR CONCRETE WORKS.

#### Pay Item C254(a) EDGE STRIPS

1. The unit of measurement shall be the linear metre measured along the length of the edge strip.
2. The schedule rate shall include all activities involved in the excavation forming, concreting, contraction joints, backfilling and compaction adjacent to the completed edge strip.

#### Pay Item C254(b) SEGMENTAL PAVING - ROAD PAVEMENTS

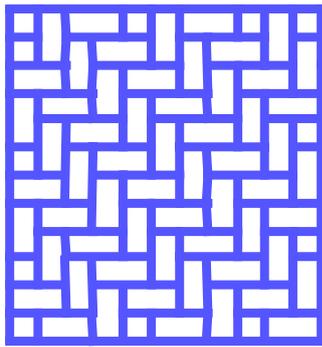
1. The unit of measurement shall be the square metre of surface of segmental paving for road and driveway pavements.
2. The width and length shall be as shown on the Drawings or as directed by the Superintendent.
3. The schedule rate shall include all activities involved in the supply, laying and compaction of segmental paving units, bedding sand and joint filling sand, including any cutting of unit joints, overlying concrete pavement joints, and concrete surrounds or aprons around surface penetrations.

#### Pay Item C254(c) SEGMENTAL PAVING - OTHER THAN ROAD PAVEMENTS

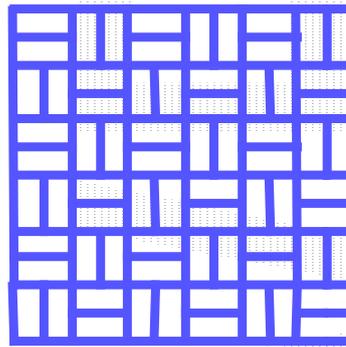
1. The unit of measurement shall be the square metre of surface of segmental paving for other than road pavements, including medians, traffic islands, footpaths, cycleways, and other pedestrian areas.
2. The width and length shall be as shown on the Drawings or as directed by the Superintendent.
3. The schedule rate shall include all activities involved in the supply, laying and compaction of segmental paving units, bedding sand and joint filling sand, including any cutting of unit joints, overlying concrete pavement joints, and concrete surrounds or aprons around surface penetrations.

ANNEXURE C254-A

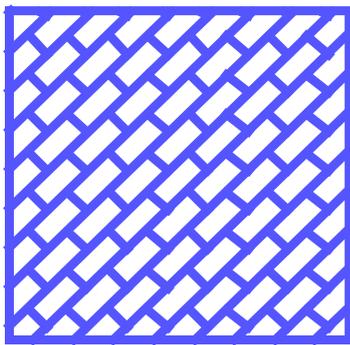
LAYING PATTERNS



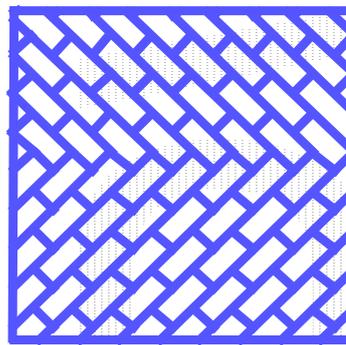
Herringbone



Basketweave



Stretcher



Zig Zag Running Bond

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## SPECIFICATION C254 - SEGMENTAL PAVING

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