

**SPECIFICATION CLAUSE  
BRICKSLOT 100 WITH KS100 CHANNEL  
- 8,000kg WHEEL LOAD**

**GENERAL**

THE SURFACE DRAINAGE SYSTEM SHALL BE ACO'S BRICKSLOT 100 WITH KS100 POLYMER CONCRETE CHANNEL SYSTEM WITH STAINLESS STEEL EDGE RAILS AS MANUFACTURED BY ACO.

**MATERIALS**

KS100 CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH INTEGRALLY CAST-IN STAINLESS STEEL EDGE RAILS. PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS WITH SUPPORTING DOCUMENTATION:

|                                       |                                |
|---------------------------------------|--------------------------------|
| COMPRESSIVE STRENGTH:                 | <b>98 MPa</b>                  |
| FLEXURAL STRENGTH:                    | <b>26 MPa</b>                  |
| TENSILE STRENGTH:                     | <b>14 MPa</b>                  |
| WATER ABSORPTION:                     | <b>0.07%</b>                   |
| FROST PROOF:                          | <b>YES</b>                     |
| COEFFICIENT OF EXPANSION/CONTRACTION: | <b>2.02x10<sup>-5</sup>/°C</b> |
| <b>WATER VAPOUR TRANSMISSION:</b>     | <b>0.0364g/m<sup>2</sup></b>   |
| NON FLAMMABLE:                        | <b>YES</b>                     |
| COEFFICIENT OF ROUGHNESS (MANNINGS):  | <b>n=0.011</b>                 |
| RESISTANT TO WEATHERING:              | <b>YES</b>                     |
| DILUTE ACID AND ALKALI RESISTANT:     | <b>YES</b>                     |
| SF SEALANT GROOVE                     | <b>YES</b>                     |

**CHANNELS**

KS100 CHANNEL SHALL BE 100mm NOMINAL INTERNAL WIDTH WITH AN OVERALL WIDTH OF 130mm. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

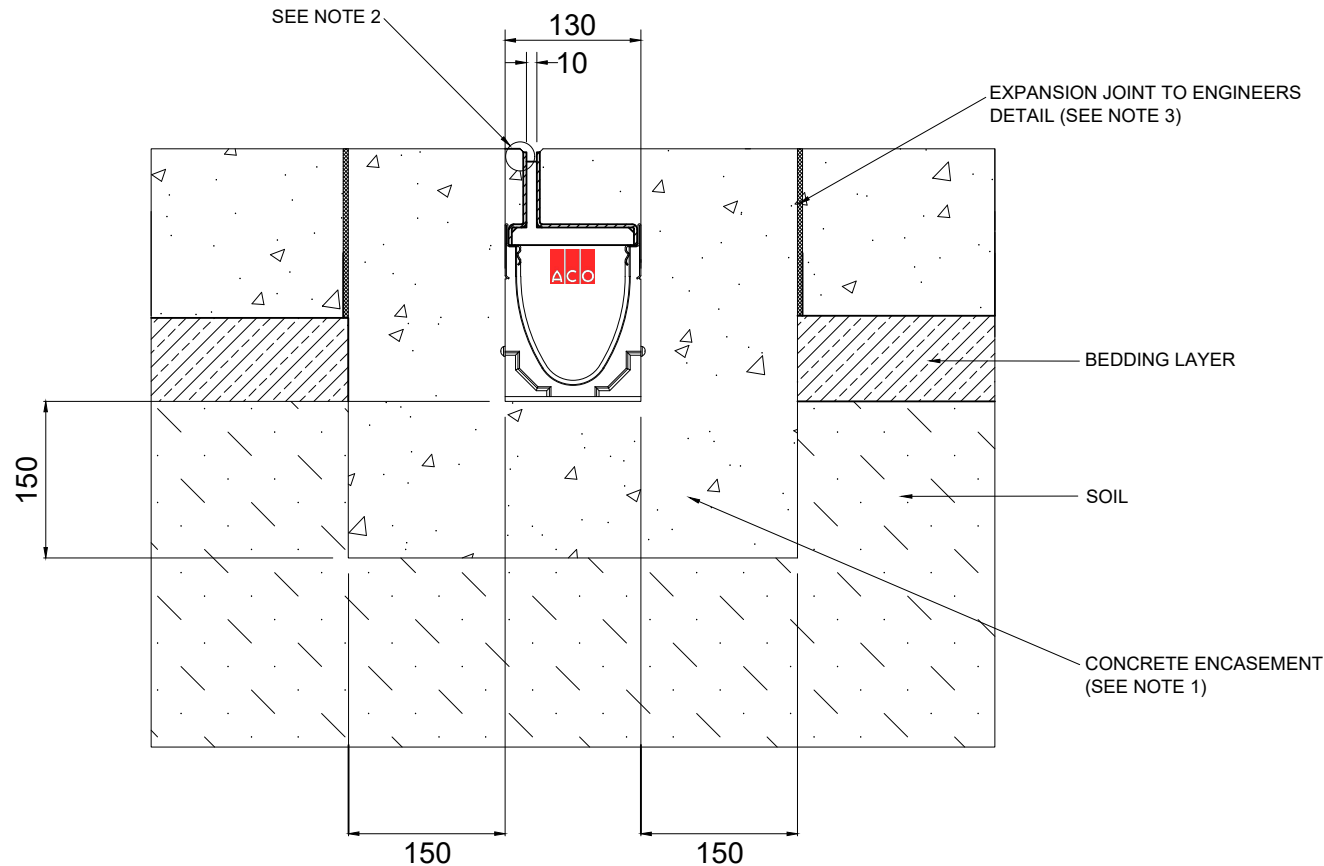
**BRICKSLOT 100**

THE BRICKSLOT SHALL BE MANUFACTURED FROM STAINLESS STEEL AND HAVE MINIMUM PROPERTIES AND CHARACTERISTICS AS FOLLOWS:

- 10mm WIDE SLOT TO BLEND IN WITH PAVING JOINTS
- MEETS AS 1428.2 (CLAUSE 9c); AS 3996 (CLAUSE 3.3.5 & 3.3.6)
- 69mm SLOT HEIGHT FOR MAXIMUM PAVEMENT DEPTH OF 63mm
- CONNECTOR CLIP USED TO ALIGN BRICKSLOT JOINT
- INTAKE AREA OF 10,000mm<sup>2</sup> PER METRE \ 5,000mm<sup>2</sup> PER HALF A METRE
- ACCESS UNITS TO ALLOW ACCESS FOR MAINTENANCE TO BE LOCATED AT BOTH ENDS OF THE DRAIN, AT THE OUTLET AND/OR SPACED AT 20-30 METRE INTERVALS

**INSTALLATION**

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO AND TO BE INSTALLED FOR ITS INTENDED PURPOSE. ANY DEVIATION OR PARTIAL USE OF THE SPECIFIED SYSTEM AND/OR IMPROPER INSTALLATION WILL VOID ALL WARRANTIES PROVIDED BY ACO.



**NOTES:**

1. Specific site conditions may require an increase in the concrete encasement dimensions and/or reinforcement. It is the customer's responsibility to ensure the concrete encasement is designed for the application. A minimum concrete strength of 25MPa is recommended. The concrete should be vibrated to eliminate air pockets. *Engineering advice may be required.*
2. The finished level of the concrete encasement must be approximately 3mm above the top of the Brickslot.
3. Expansion and crack control joints are recommended to protect the channel and the concrete encasement. *Engineering advice may be required.*
4. For further details, refer to ACO's design & site installation files at [www.acodrain.com.au/resources.html](http://www.acodrain.com.au/resources.html)

B1KS1-CD-C



DATE: 05/20

**BRICKSLOT 100 WITH KS100 - 8,000kg WHEEL LOAD  
FOR CONCRETE SLAB**

**INSTALLATION DRAWING - ACO DRAIN**

ACO Pty Ltd  
Australia  
Ph: 1300 765 226  
[www.acodrain.com.au](http://www.acodrain.com.au)

ACO Limited  
New Zealand  
Ph: 0800 448 080  
[www.acodrain.co.nz](http://www.acodrain.co.nz)