SPECIFICATION CLAUSE
BRICK SLOT KS100 - LOAD CLASS A-B

GENERAL
THE SURFACE DRAINAGE SYSTEM SHALL BE ACO'S BRICK SLOT 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: 98 MPa
FLEXURAL STRENGTH: 26 MPa
TENSILE STRENGTH: 14 MPa
WATER ABSORPTION: 0.07%
FROST PROOF: YES
COEFFICIENT OF EXPANSION/CONTRACTION: 2.05×10⁻₅/°C
WATER VAPOUR TRANSMISSION:
NON FLAMMABLE: YES
COEFFICIENT OF ROUGHNESS (MANNINGS): 0.011
RESISTANT TO WEATHERING: YES
DILUTE ACID AND ALKALI RESISTANT: YES
SF SEALANT GROOVE: YES

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.

BRICK SLOT
THE BRICK SLOT 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 PAVER DEPTH OF 63mm
- CONNECTOR CLIP USED TO ALIGN BRICK SLOT JOINT
- INTAKE AREA OF 10,000mm² PER METRE OF BRICK SLOT
- 15,000mm² PER HALF A METRE OF BRICK SLOT
- 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 pavers must be approximately 3mm above the top of the Brickslot.
3. The paver course adjacent to the Brickslot must be fully bonded to the concrete encasement.
4. For further details, refer to ACO’s design & site installation files at www.acodrain.com.au/resources.