**SPECIFICATION CLAUSE**

**BRICKSLOT K100 - LOAD CLASS C-D**

**GENERAL**

The surface drainage system shall be ACO's Brickslot with K100 Polymer Concrete channel system with Galvanised steel edge rails as manufactured by ACO.

**MATERIALS**

K100 channels shall be manufactured from polyester resin polymer concrete with integrally cast-in galvanised 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:** 2.02x10^-5°C
- **Water Vapour Transmission:** 0.0364g/m²
- **Non Flammable:** Yes
- **Coefficient of Roughness (Mannings):** n=0.011
- **Resistant to Weathering:** Yes
- **Dilute Acid and Alkali Resistant:** Yes
- **SF Sealant Groove:** Yes

**CHANNELS**

K100 channel shall be 100mm nominal internal width with an overall width of 130mm. All channels shall be interlocking with a male/female joint.

**BRICKSLOT**

The Brickslot shall be manufactured from galvanised 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 3998 (Clause 3.3.5 & 3.3.6)
- 69mm slot height for maximum paver depth of 63mm
- Connector clip used to align Brickslot joint
- Intake area of 10,000mm² per metre of Brickslot 15,000mm² per half a metre of Brickslot
- 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.