**SPECIFICATION CLAUSE**

**POWERDRAIN S200K - LOAD CLASS E-G**

**GENERAL**

The surface drainage system shall be ACO's POWERDRAIN S200K polymer concrete v-profile channel system with ductile iron edge rails as manufactured by ACO.

**MATERIALS**

S200K channels shall be manufactured from polyester resin polymer concrete with an integrally cast-in ductile iron edge rail. Properties of polymer concrete will be as follows with supporting documentation:

- **Compressive Strength:** 95 MPa
- **Tensile Strength:** 14 MPa
- **Water Absorption:** 0.07%
- **Frost Proof:** Yes
- **Coefficient of Expansion/Contraction:** 2.05x10⁻⁵/°C
- **Water Vapour Transmission:** 0.0364 g/m²
- **Non-Flammable:** Yes
- **Coefficient of Roughness (Manning’s):** n=0.011
- **Resistant to Weathering:** Yes
- **Dilute Acid and Alkali Resistant:** Yes
- **SF Sealant Groove:** Yes

**CHANNELS**

S200K channel shall be 200mm nominal internal width with an overall width of 260mm. Channel invert shall have a v-profile to allow efficient drainage. S200K sloped channels shall have a built-in slope of 0.5%. All channels shall be interlocking with a male/female joint.

**GRATES**

Insert specification for the selected grate. Refer to the relevant ACO specification information sheet, click www.acodrain.com.au/resources.

**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.