**CONCRETE ENCASEMENT (SEE NOTE 1)**

**BASE COURSE**

**BEDDING LAYER**

**SOIL**

**APTHALT**

**ROAD COURSE**

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**SPECIFICATION CLAUSE**

**KLASSIKDRAIN K300 - LOAD CLASS C-D**

**GENERAL**

The surface drainage system shall be ACO's KLASSIKDRAIN K300 polymer concrete v-profile channel system with galvanised steel edge rails as manufactured by ACO.

**MATERIALS**

K300 Channels shall be manufactured from polyester resin polymer concrete with an integrally cast-in galvanised steel edge rail. Properties of polymer concrete will be as follows with supporting documentation:

- **Compressive Strength**: 95 MPa
- **Flexural Strength**: 26 MPa
- **Tensile Strength**: 14 MPa
- **Water Absorption**: 0.07%
- **Frost Proof**: Yes
- **Coefficient of Expansion/Contraction**: 2.02×10⁻⁵/°C
- **Water Vapour Transmission**: 0.036g/m²
- **Non Flammable**: Yes
- **Coefficient of Roughness (Manning’s)**: n=0.011
- **Resistant to Weathering**: Yes
- **Resistant to Acid and Alkali Resistant**: Yes
- **SF Sealant Groove**: Yes

**CHANNELS**

K300 Channel shall be 300mm nominal internal width with an overall width of 360mm. Channel invert shall have a v-profile to allow efficient drainage. K300 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.

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**NOTES:**

1. Specific site conditions may require an increase in 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 channel edge.

3. For further details, refer to ACO's design & site installation files at www.acodrain.com/resources.

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**K300 - KLASSIKDRAIN - LOAD CLASS: C-D**

**FOR ASPHALT**

**INSTALLATION DRAWING - ACO DRAIN**