

- 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.

# **SPECIFICATION CLAUSE** POWERDRAIN S300K - LOAD CLASS C-D

THE SURFACE DRAINAGE SYSTEM SHALL BE ACO'S POWERDRAIN S300K POLYMER CONCRETE V-PROFILE CHANNEL SYSTEM WITH DUCTILE IRON EDGE RAILS AS MANUFACTURED BY ACO.

S300K 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: 98 MPa 26 MPa FLEXURAL STRENGTH: TENSILE STRENGTH: 14 MPa WATER ABSORPTION: 0.07% FROST PROOF: YES COEFFICIENT OF EXPANSION/CONTRACTION: 2.02x10<sup>-5</sup>/°C WATER VAPOUR TRANSMISSION: 0.0364g/m<sup>2</sup> 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

S300K CHANNEL SHALL BE 300mm NOMINAL INTERNAL WIDTH WITH AN OVERALL WIDTH OF 360mm. CHANNEL INVERT SHALL HAVE A V-PROFILE TO ALLOW EFFICIENT DRAINAGE, S300K SLOPED CHANNELS SHALL HAVE A BUILT-IN SLOPE OF 0.5%. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

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.

SK3-CD-A2



S300K - POWERDRAIN - LOAD CLASS: C-D FOR ASPHALT

**INSTALLATION DRAWING - ACO DRAIN** 

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