



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.

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

GENERAL

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.

MATERIALS

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 |
| 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

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.

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.

SK3-CD-A2



DATE: 03/14

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

INSTALLATION DRAWING - ACO DRAIN

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