



- 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 asphalt must be approximately 3mm above the top of the channel edge.
 3. Haunch slopes away at a ratio of 1:4 or approximately 15°.
 4. For further details, refer to ACO's design & site installation files at www.acodrain.com/resources.

SPECIFICATION CLAUSE KLASSIKDRAIN K100 - LOAD CLASS A-B

GENERAL

THE SURFACE DRAINAGE SYSTEM SHALL BE ACO'S KLASSIKDRAIN K100 POLYMER CONCRETE V-PROFILE CHANNEL SYSTEM WITH GALVANISED STEEL EDGE RAILS AS MANUFACTURED BY ACO.

MATERIALS

K100 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: | 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. CHANNEL INVERT SHALL HAVE A V-PROFILE TO ALLOW EFFICIENT DRAINAGE. K100 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.

K1-AB-A1



DATE: 03/14

K100 - KLASSIKDRAIN - LOAD CLASS: A-B FOR ASPHALT

INSTALLATION DRAWING - ACO DRAIN

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