



**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](http://www.acodrain.com/resources).

**SPECIFICATION CLAUSE  
KLASSIKDRAIN KS100 - LOAD CLASS C-D**

**GENERAL**

THE SURFACE DRAINAGE SYSTEM SHALL BE ACO'S KLASSIKDRAIN KS100 POLYMER CONCRETE V-PROFILE CHANNEL SYSTEM WITH STAINLESS STEEL EDGE RAILS AS MANUFACTURED BY ACO.

**MATERIALS**

KS100 CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN STAINLESS STEEL EDGE RAIL. PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS WITH SUPPORTING DOCUMENTATION:

COMPRESSIVE STRENGTH:	<b>98 MPa</b>
FLEXURAL STRENGTH:	<b>26 MPa</b>
TENSILE STRENGTH:	<b>14 MPa</b>
WATER ABSORPTION:	<b>0.07%</b>
FROST PROOF:	<b>YES</b>
COEFFICIENT OF EXPANSION/CONTRACTION:	<b>2.02x10<sup>-5</sup>/°C</b>
WATER VAPOUR TRANSMISSION:	<b>0.0364g/m<sup>2</sup></b>
NON FLAMMABLE:	<b>YES</b>
COEFFICIENT OF ROUGHNESS (MANNINGS):	<b>n=0.011</b>
RESISTANT TO WEATHERING:	<b>YES</b>
DILUTE ACID AND ALKALI RESISTANT:	<b>YES</b>
SF SEALANT GROOVE	<b>YES</b>

**CHANNELS**

KS100 CHANNEL SHALL BE 100mm NOMINAL INTERNAL WIDTH WITH AN OVERALL WIDTH OF 130mm. CHANNEL INVERT SHALL HAVE A V-PROFILE TO ALLOW EFFICIENT DRAINAGE. KS100 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](http://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.

KS1-CD-A2



DATE: 03/14

**KS100 - KLASSIKDRAIN - LOAD CLASS: C-D  
FOR ASPHALT**

**INSTALLATION DRAWING - ACO DRAIN**

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