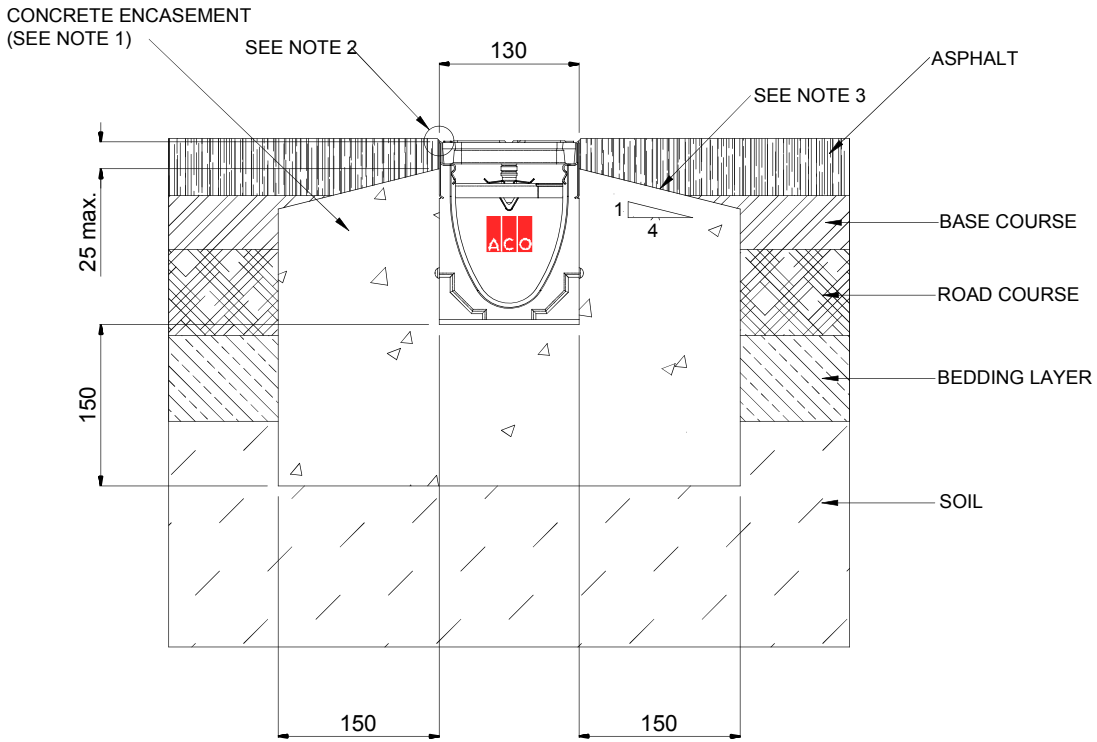

NOTES:
1. Specific site conditions may require an increase in concrete encasement dimensions and/or reinforcement. It is the customer's responsibility to ensure the concrete encasement is designed for the application. A minimum concrete strength of 25MPa is recommended. The concrete should be vibrated 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 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:	**98 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:	**0.0364g/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
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.

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-A1

DATE: 03/14

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

INSTALLATION DRAWING - ACO DRAIN

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New Zealand
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