CONCRETE ENCAESEMENT
(SEE NOTE 1)

ASPHALT

BASE COURSE

ROAD COURSE

BEDDING LAYER

SOIL

100

100

130

26 max.

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 A-B

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: 95 MPa
FLEXURAL STRENGTH: 26 MPa
TENSILE STRENGTH: 14 MPa
WATER ABSORPTION: 0.07%
FROST PROOF: YES
COEFFICIENT OF EXPANSION/CONTRACTION: 2.03x10⁻⁵/°C
WATER VAPOUR TRANSMISSION: 0.9364g/m²

NON-FLAMMABLE:
COEFFICIENT OF ROUGHNESS (MANNINGS): n=0.011
RESISTANT TO WEATHERING:
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

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.

KS100 - KLASSIKDRAIN - LOAD CLASS: A-B
FOR ASPHALT

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INSTALLATION DRAWING - ACO DRAIN

DATE: 03/14