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 K200 - LOAD CLASS C-D

GENERAL
THE SURFACE DRAINAGE SYSTEM SHALL BE ACO'S KLASSIKDRAIN K200 POLYMER CONCRETE V-PROFILE CHANNEL SYSTEM WITH GALVANISED STEEL EDGE RAILS AS MANUFACTURED BY ACO.

MATERIALS
K200 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: 2.03 x 10^-5/°C
WATER VAPOUR TRANSMISSION: 0.036g/m²
NON FLAMMABLE: YES
COEFFICIENT OF ROUGHNESS (MANNINGS): 2n=0.011
RESISTANT TO WEATHERING: YES
DILUTE ACID AND ALKALI RESISTANT: YES
SF SEALANT GROOVE: YES

CHANNELS
K200 CHANNEL SHALL BE 200mm NOMINAL INTERNAL WIDTH WITH AN OVERALL WIDTH OF 260mm. CHANNEL, INVERT SHALL HAVE A V-PROFILE TO ALLOW EFFICIENT DRAINAGE, K200 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.

K200 - KLASSIKDRAIN - LOAD CLASS: C-D
FOR ASPHALT

INSTALLATION DRAWING - ACO DRAIN