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. Expansion and crack control joints are recommended to protect the channel and the concrete encasement. Engineering advice may be required.
4. For further details, refer to ACO’s design & site installation files at www.acodrain.com.au/resources.

SPECIFICATION CLAUSE
MINIKLASSIK M50K - LOAD CLASS C-D

GENERAL
THE SURFACE DRAINAGE SYSTEM SHALL BE ACO’S MINIKLASSIK M50K POLYMER CONCRETE MINI CHANNEL SYSTEM WITH GALVANISED STEEL EDGE RAILS AS MANUFACTURED BY ACO.

MATERIALS
M50K CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH INTEGRALLY CAST-IN GALVANISED STEEL EDGE RAILS. 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: 0.87%
FROST PROOF: YES
COEFFICIENT OF EXPANSION/CONTRACTION: 2.03x10⁻⁶/°C
WATER VAPOUR TRANSMISSION: 0.3364g/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
M50K CHANNEL SHAL BE 50mm NOMINAL INTERNAL WIDTH WITH AN OVERALL WIDTH OF 80mm. CHANNELS SHALL HAVE AN OVERALL DEPTH OF 88mm FOR USE IN COMPACT AREAS. 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 DEVIAION OR PARTIAL USE OF THE SPECIFIED SYSTEM AND/OR IMPROPER INSTALLATION WILL VOID ALL WARRANTIES PROVIDED BY ACO.