SPECIFICATION CLAUSE
MINIKLASSIK M50KS - LOAD CLASS A-B

GENERAL
THE SURFACE DRAINAGE SYSTEM SHALL BE ACO'S MINIKLASSIK M50KS POLYMER CONCRETE MINI CHANNEL SYSTEM WITH STAINLESS STEEL EDGE RAILS AS MANUFACTURED BY ACO.

MATERIALS
M50KS CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH INTEGRALLY CAST-IN STAINLESS 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:** 0.57%
- **FROST PROOF:** YES
- **COEFFICIENT OF EXPANSION/CONTRACTION:** 2.03 x 10^-5°C
- **WATER VAPOUR TRANSMISSION:** 0.0364 g/m²
- **NON-FLAMMABLE:** YES
- **COEFFICIENT OF ROUGHNESS (MANNINGS):** m=0.11
- **RESISTANT TO WEATHERING:** YES
- **DILUTE ACID AND ALKALI RESISTANT:** YES
- **SF SEALANT GROOVE:** YES

CHANNELS
M50KS CHANNEL SHALL 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 DEVIATION OR PARTIAL USE OF THE SPECIFIED SYSTEM AND/OR IMPROPER INSTALLATION WILL VOID ALL WARRANTIES PROVIDED BY ACO.

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 pavers must be approximately 3mm above the top of the channel edge.
3. The paver course adjacent to the channel edge must be fully bonded to the concrete encasement.
4. For further details, refer to ACO's design & site installation files at www.acodrain.com/resources.