GENERAL
THE SURFACE DRAINAGE SYSTEM SHALL BE ACO’S KLASSIKDRAIN K300 POLYMER CONCRETE V-PROFILE CHANNEL SYSTEM WITH GALVANISED STEEL EDGE RAILS AS MANUFACTURED BY ACO.

MATERIALS
K300 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:

- **COMPREHENSIVE 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:** 0.036g/m²
- **NON FLAMMABLE:** YES
- **COEFFICIENT OF ROUGHNESS (MANNINGS):** ≤0.011
- **RESISTANT TO WEATHERING:** YES
- **DILUTE ACID AND ALKALI RESISTANT:** YES
- **SF SEALANT GROOVE:** YES

CHANNELS
K300 CHANNEL SHALL BE 300mm NOMINAL INTERNAL WIDTH WITH AN OVERALL WIDTH OF 360mm. CHANNEL INSERT SHALL HAVE A V-PROFILE TO ALLOW EFFICIENT DRAINAGE. K300 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.