



**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](http://www.acodrain.com/resources).

**SPECIFICATION CLAUSE  
MINIKLASSIK K50 - LOAD CLASS C-D**

**GENERAL**

THE SURFACE DRAINAGE SYSTEM SHALL BE ACO'S MINIKLASSIK K50 POLYMER CONCRETE MINI CHANNEL SYSTEM WITH GALVANISED STEEL EDGE RAILS AS MANUFACTURED BY ACO.

**MATERIALS**

K50 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:	98 MPa
FLEXURAL STRENGTH:	26 MPa
TENSILE STRENGTH:	14 MPa
WATER ABSORPTION:	0.07%
FROST PROOF:	YES
COEFFICIENT OF EXPANSION/CONTRACTION:	2.02x10 <sup>-5</sup> /°C
WATER VAPOUR TRANSMISSION:	0.0364g/m <sup>2</sup>
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**

K50 CHANNEL SHALL BE 50mm NOMINAL INTERNAL WIDTH WITH AN OVERALL WIDTH OF 80mm. CHANNELS SHALL HAVE AN OVERALL DEPTH OF 89mm FOR USE IN COMPACT AREAS. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

**GRATES**

INSERT SPECIFICATION FOR THE SELECTED GRATE. REFER TO THE RELEVANT ACO SPECIFICATION INFORMATION SHEET, CLICK [www.acodrain.com.au/resources](http://www.acodrain.com.au/resources).

**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.

K50-CD-P1

**K50 - MINIKLASSIK - LOAD CLASS: C-D  
FOR PAVERS**

DATE: 01/24

**INSTALLATION DRAWING - ACO DRAIN**

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