



**NOTES:**

1. ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS. *ENGINEERING ADVICE MAY BE REQUIRED.*
2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. *ENGINEERING ADVICE MAY BE REQUIRED.*
4. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" [3mm] ABOVE THE TOP OF THE CHANNEL EDGE.
5. CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS. *ENGINEERING ADVICE MAY BE REQUIRED TO DETERMINE PROPER LOAD CLASS.*
6. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

**SPECIFICATION CLAUSE**

**HD200 - LOAD CLASS E**

GENERAL

THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE MONO BLOC HD200 CHANNEL SYSTEM AS MANUFACTURED BY ACO, INC.

MATERIALS

CHANNELS SHALL SOLELY MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:

COMPRESSIVE STRENGTH:	13,000 PSI
FLEXURAL STRENGTH:	3,200 PSI
TENSILE STRENGTH:	1,500 PSI
WATER ABSORPTION:	0.07%
FROST PROOF	YES
DILUTE ACID AND ALKALI RESISTANT	YES
B117 SALT SPRAY TEST COMPLIANT	YES

THE NOMINAL CLEAR OPENING SHALL BE 7.87" (200 MM) WITH OVERALL WIDTH OF 10.24" (260 MM). MODULAR UNITS SHALL BE MANUFACTURED WITH EITHER AN INVERT SLOPE OF 0.6% OR WITH NEUTRAL INVERT AND HAVE A WALL THICKNESS OF AT LEAST 0.75" (19 MM).

EACH UNIT WILL FEATURE A FULL RADIUS IN THE TRENCH BOTTOM AND A MALE TO FEMALE INTERCONNECTING END PROFILE. UNITS SHALL HAVE CAST IN ANCHORING FEATURES ON THE OUTSIDE WALL

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO, INC.

THE CHANNEL SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

HD2-E-ECP

**HD200 - INFRASTRUCTURE - LOAD CLASS: E**  
Exposed Concrete Pavement

**INSTALLATION DRAWING - ACO DRAIN**



DATE: 12/18/25

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