



SEE NOTE 4

EXPANSION JOINT TO  
ENGINEER'S DETAILS  
SEE NOTE 3

PAVEMENT PER  
DESIGN  
DOCUMENTS

WATERPROOF  
MEMBRANE  
1/8" THICK

6.89" [175mm]

4" [100mm]

4" [100mm]

COLD JOINT  
(IF REQUIRED)

4" [100mm]

4" [100mm]



**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.
7. THE BRICKSLOT GRATING SYSTEM SHALL BE 0.47" (12mm) NOMINAL INSIDE WIDTH WITH A 0.71" (18mm) OVERALL WIDTH AT TOP EDGE. THE BRICKSLOT GRATING SYSTEM ADDS 6.89" (175mm) TO THE OVERALL HEIGHT OF THE H100-10 SYSTEM.

**SPECIFICATION CLAUSE**

**MEMBRANE DRAIN W/BRICKSLOT 100**

GENERAL

THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE H100-10 CHANNEL SYSTEM WITH MEMBRANE DRAIN TOP AND BRICKSLOT 100 GRATE MANUFACTURED BY ACO, INC.

MATERIALS

H100-10 CHANNELS SHALL BE 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 H100-10 CHANNEL SHALL BE 4" (100mm) NOMINAL INTERNAL WIDTH WITH A 6.1" (155mm) OVERALL WIDTH. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT. THE MEMBRANE DRAIN CHANNEL SHALL BE 4" (100mm) NOMINAL INTERIOR WIDTH WITH A 5.1" (130mm) OVERALL WIDTH. H100-10 WITH MEMBRANE DRAIN AND BRICKSLOT SYSTEM SHALL BE 10.5" (267mm) OVERALL HEIGHT.

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.

CHANNEL SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. BRICKSLOT SHALL BE APPROPRIATE TO MEET THE SYSTEM LOAD CLASS SPECIFIED AND INTENDED APPLICATION. CHANNEL AND BRICKSLOT SHALL BE CERTIFIED TO MEET THE SPECIFIED EN 1433 LOAD CLASS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

MBS1H110-A-ECP

**MEMBRANE DRAIN W/H100-10 & BRICKSLOT 100 - LOAD CL: A**

**ACO, Inc.**



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DATE: 12/18/25

**INSTALLATION DRAWING - ACO DRAIN**