

CULTEC HVLV FC-24 FEED CONNECTOR PRODUCT SPECIFICATIONS

GENERAL

CULTEC HVLV FEED CONNECTOR (WHERE SPECIFIED)S ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER STORMWATER CHAMBERS.

CHAMBER PARAMETERS

1. THE CHAMBERS WILL BE MANUFACTURED BY CULTEC, OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND WHITE EXTERIOR.
3. THE CHAMBER WILL BE ARCHED IN SHAPE.
4. THE CHAMBER WILL BE OPEN-BOTTOMED.
5. THE NOMINAL DIMENSIONS OF THE CULTEC HVLV FEED CONNECTOR (WHERE SPECIFIED) SHALL BE 12" (305 mm) TALL, 16" (406 mm) WIDE AND 24.2" (614 mm) LONG.
6. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR WILL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
7. THE HVLV FC-24 FEED CONNECTOR CHAMBER SHALL HAVE 2 CORRUGATIONS.
8. THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT WILL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD.
9. THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
10. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2015 CERTIFIED FACILITY.

CULTEC NO. 410™ NON-WOVEN GEOTEXTILE MAY BE USED WITH CULTEC CONTACTOR® AND RECHARGER® STORMWATER INSTALLATIONS TO PROVIDE A BARRIER THAT PREVENTS SOIL INTRUSION INTO THE STONE.

THE GEOTEXTILE SHALL:

1. BE PROVIDED BY CULTEC, OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. BE BLACK IN APPEARANCE.
3. HAVE A TYPICAL WEIGHT OF 4.5 OZ/SY (142 G/M).
4. HAVE A TENSILE STRENGTH VALUE OF 120 LBS (533 N) PER ASTM D4632.
5. HAVE AN ELONGATION AT BREAK VALUE OF 50% PER ASTM D4632.
6. HAVE A MULLEN BURST VALUE OF 225 PSI (1551 KPA) PER ASTM D3786.
7. HAVE A PUNCTURE STRENGTH VALUE OF 65 LBS (289 N) PER ASTM D4833.
8. HAVE A CBR PUNCTURE VALUE OF 340 LBS (1513 N) PER ASTM D6241.
9. HAVE A TRAPEZOID TEAR VALUE OF 50 LBS (222 N) PER ASTM D4533.
10. HAVE A AOS VALUE OF 70 U.S. SIEVE (0.212 MM) PER ASTM D4751.
11. HAVE A PERMITTIVITY VALUE OF 1/7 SEC-1 PER ASTM D4491.
12. HAVE A WATER FLOW RATE VALUE OF 135 GAL/MIN/SF (5500 L/MIN/SM) PER ASTM D4491.
13. HAVE A UV STABILITY @ 500 HOURS VALUE OF 70% PER ASTM D4355.

ADS PLUS-US WOVEN GEOTEXTILE IS DESIGNED AS A UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE. IT MAY ALSO BE USED AS A COMPONENT OF THE CULTEC SEPARATOR ROW/ADS ISOLATOR ROW PLUS TO ACT AS A BARRIER TO PREVENT SOIL/CONTAMINANT INTRUSION INTO THE STONE WHILE ALLOWING FOR MAINTENANCE.

THE GEOTEXTILE SHALL:

1. BE PROVIDED BY CULTEC OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. BE BLACK AND WHITE IN APPEARANCE.
3. HAVE A MARV WEIGHT OF 8.0 OZ/YD² PER ASTM D5261.
4. HAVE A GRAB TENSILE STRENGTH OF 325 X 325 LBS (1,445 X 1,445 N) PER ASTM D4632.
5. HAVE A ELONGATION @ BREAK RESISTANCE OF 15 X 15% PER ASTM D4632.
6. HAVE A CBR PUNCTURE RESISTANCE OF 1,124 LBS (5,000 N) PER ASTM D6241.
7. HAVE A TRAPEZOIDAL TEAR RESISTANCE OF 125 X 125 LBS (556 X 556 N) PER ASTM D4533

NON-WOVEN GEOTEXTILE AROUND STONE
TOP AND SIDES MANDATORY
BOTTOM PER ENGINEER'S DESIGN PREFERENCE

CULTEC RECHARGER 330XLHD
IN SEPARATOR ROW/ADS ISOLATOR® ROW PLUS
CONFIGURATION (IF APPLICABLE)

12.0" (305 mm) MIN FOR UNPAVED
(REDUCE TO 6.0" (152 mm) FOR
NON-TRAFFIC APPLICATION)

12" (3.65 m) MAX
COVER DEPTH

3/4" - 2" (20-50 mm) CLEAN,
CRUSHED, ANGULAR STONE
SURROUNDING CHAMBERS

FINISHED GRADE

GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES,
COMPACT IN 6" (150 mm) MAX. LIFTS TO 95% PROCTOR DENSITY

10.0" (254 mm) MIN
FOR RIGID PAVEMENT
10.0" (254 mm) MIN
FOR FLEXIBLE PAVEMENT

6.0" (152 mm) MIN

30.5" (775 mm)

6.0" (152 mm) MIN

12.0" (305 mm) MIN

58.0" (1473 mm) MIN
CENTER TO CENTER

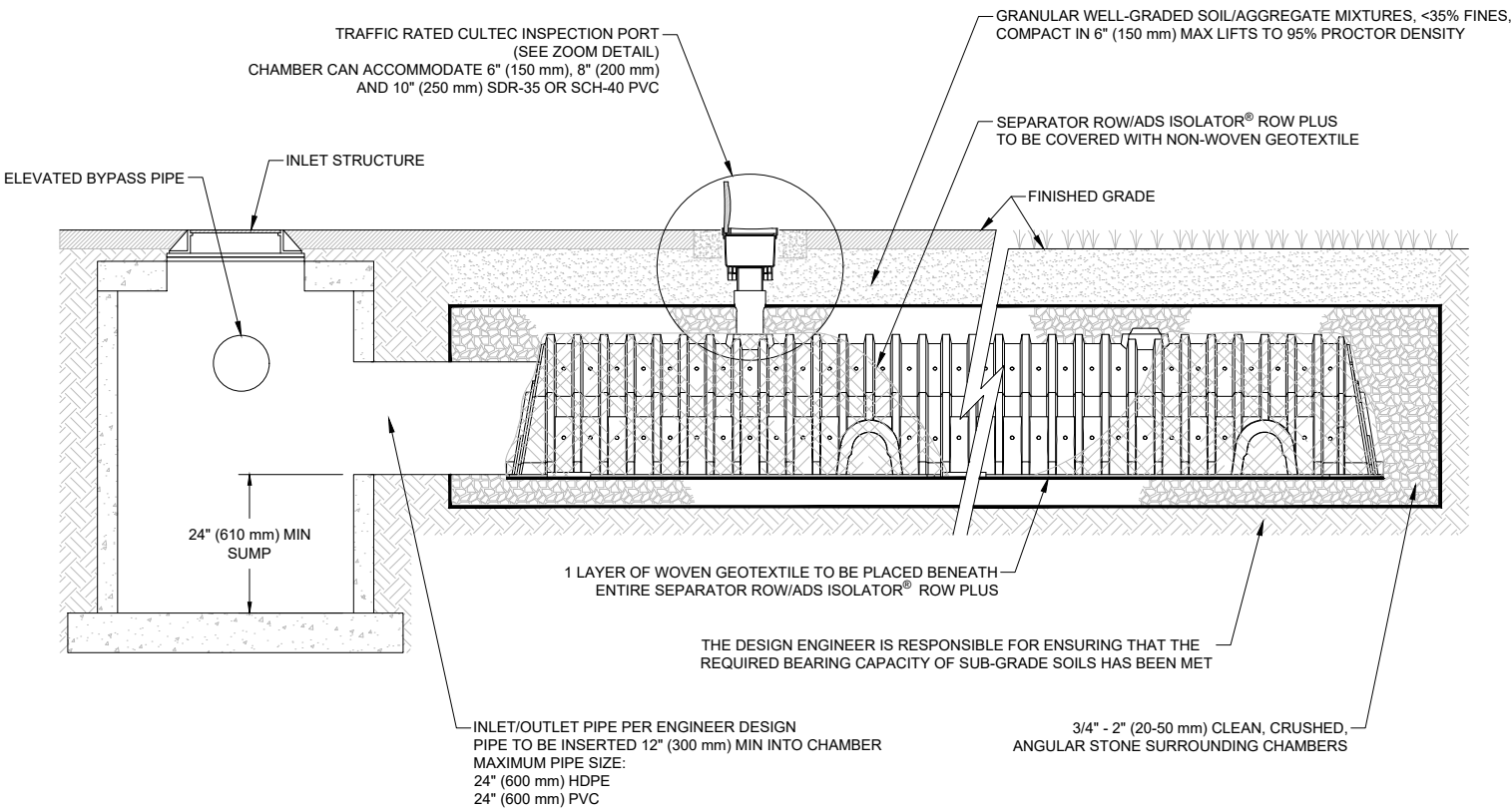
52.0" (1321 mm)

THE DESIGN ENGINEER IS RESPONSIBLE FOR ENSURING THAT THE
REQUIRED BEARING CAPACITY OF SUB-GRADE SOILS HAVE BEEN MET

WOVEN GEOTEXTILE TO BE PLACED BENEATH INTERNAL MANIFOLD FEATURE
AND BENEATH ALL INLET/OUTLET PIPES (FOR SCOUR PROTECTION)

CULTEC HVLV FC-24 FEED CONNECTOR
(WHERE SPECIFIED)

CULTEC RECHARGER 330XLHD HEAVY DUTY CROSS SECTION



CULTEC SEPARATOR ROW - CULTEC INSPECTION PORT DETAIL (IF APPLICABLE)

STANDARD CHAMBER DETAILS

CULTEC 330XLHD

0/09/2026

30-330

SHEET

[illegible]

CULTEC

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