

# CULTEC Contactor® 100HD Residential Drainage Chamber

The Contactor® 100HD is a 12" (305 mm) tall, low profile chamber and is typically used for installations with depth restrictions or when a larger infiltrative area is required. The Contactor 100HD has the side portal internal manifold feature. The HVLV® SFCx2 Feed Connector is inserted into the side portal of the Contactor 100HD to create the internal manifold.

Size (L x W x H)	8' x 36" x 12" 2.44 m x 914 mm x 305 mm
Installed Length	
R-model as Stand Alone Unit	96"
R-model as Row Starter Unit	93"
E-model as Row Middle Unit	90"
E-model as Row End Unit	93"
Chamber Storage	1.87 ft <sup>3</sup> /ft 0.17 m <sup>3</sup> /m 14.00 ft <sup>3</sup> /unit 0.40 m <sup>3</sup> /unit
Chamber Weight	38.0 lbs 17.24 kg
Shipping	55 chambers/skid 2,195 lbs/skid 16 skids/48' flatbed
Max. Allowable Cover	12' 3.66 m
Max. Inlet Opening in End Wall	10" HDPE, PVC 250 mm HDPE, PVC
Max. Allowable O.D. in Side Portal	6" HDPE, PVC 150 mm HDPE, PVC
Compatible Feed Connector	HVLV SFCx2 Feed Connector



Calculations are based on installed chamber length.  
All above values are nominal.

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System Calculator



CAD / PDF Drawings



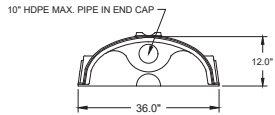
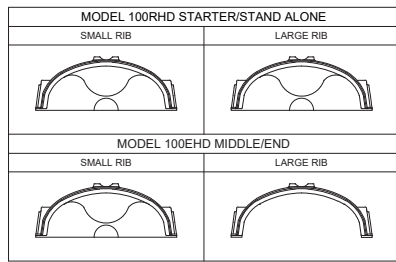
Installation Instructions



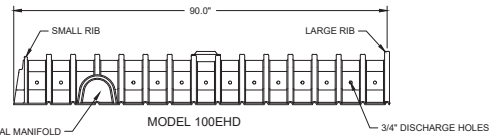
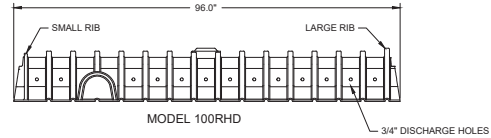
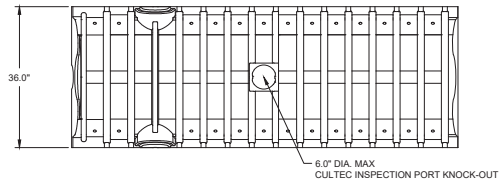
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# Three View Drawing



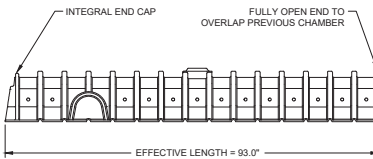
CULTEC CONTACTOR 100HD CHAMBER STORAGE = 1.87 CF/FT



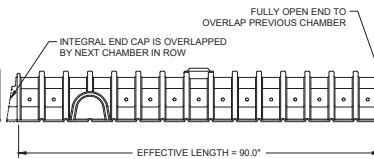
SIDE PORTAL FOR OPTIONAL INTERNAL MANIFOLD  
(ACCOMMODATES CULTREC HVLV SFCX2 FEED CONNECTOR OR STORM PIPE)  
MAX. PIPE: 6" HDPE OR 6" PVC



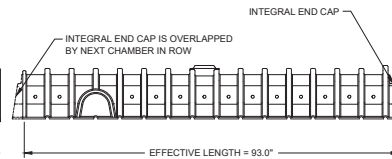
SINGLE CHAMBER IN ROW



LAST CHAMBER IN ROW

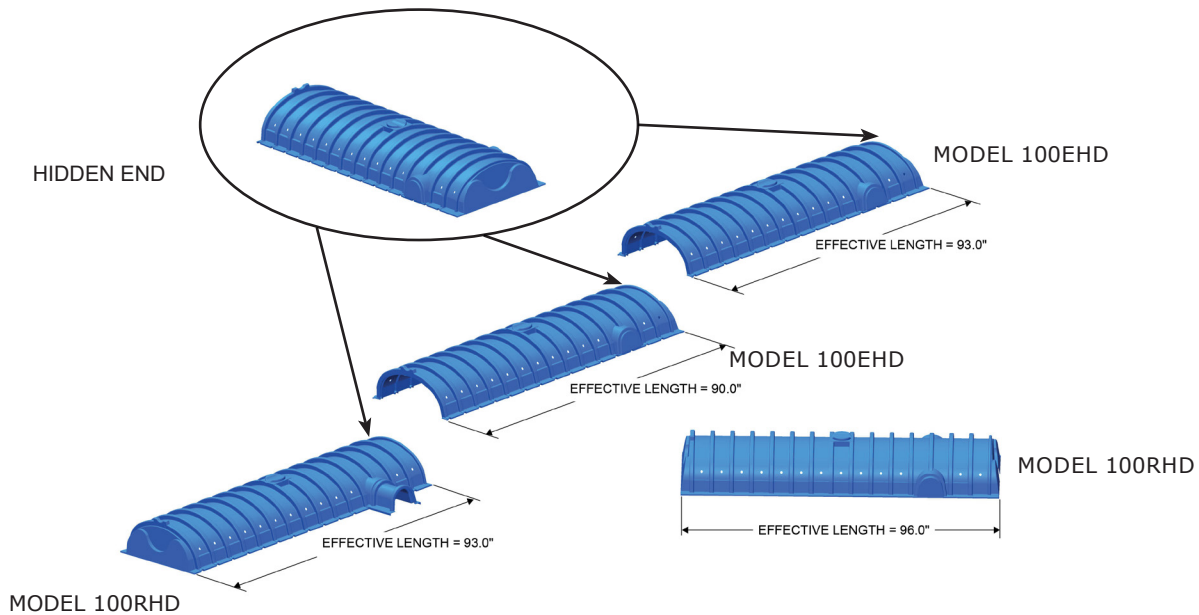


MIDDLE CHAMBER(S) IN ROW



FIRST CHAMBER IN ROW

# Typical Interlock Installation

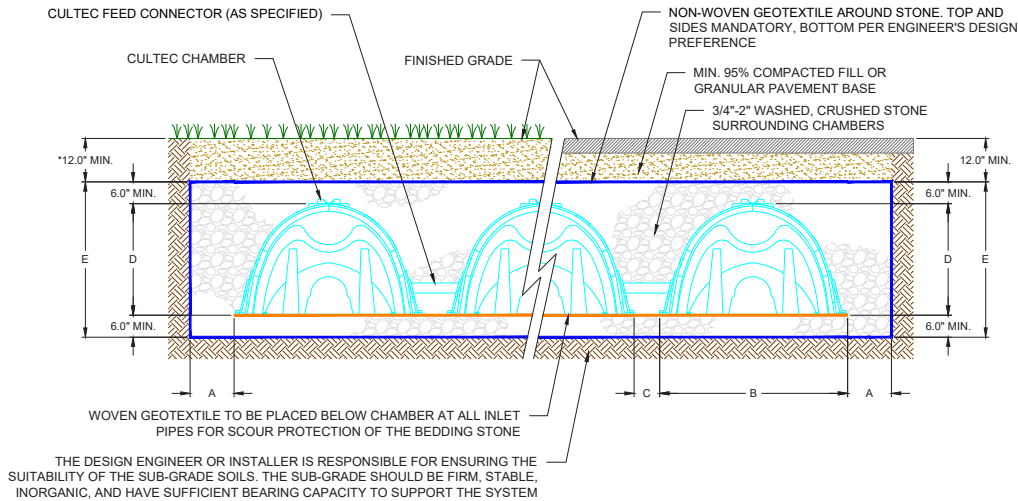


SHOWN WITH SIDE PORTAL TRIMMED AND OPTIONAL CULTREC HVLV SFCX2 FEED CONNECTOR INSERTED.

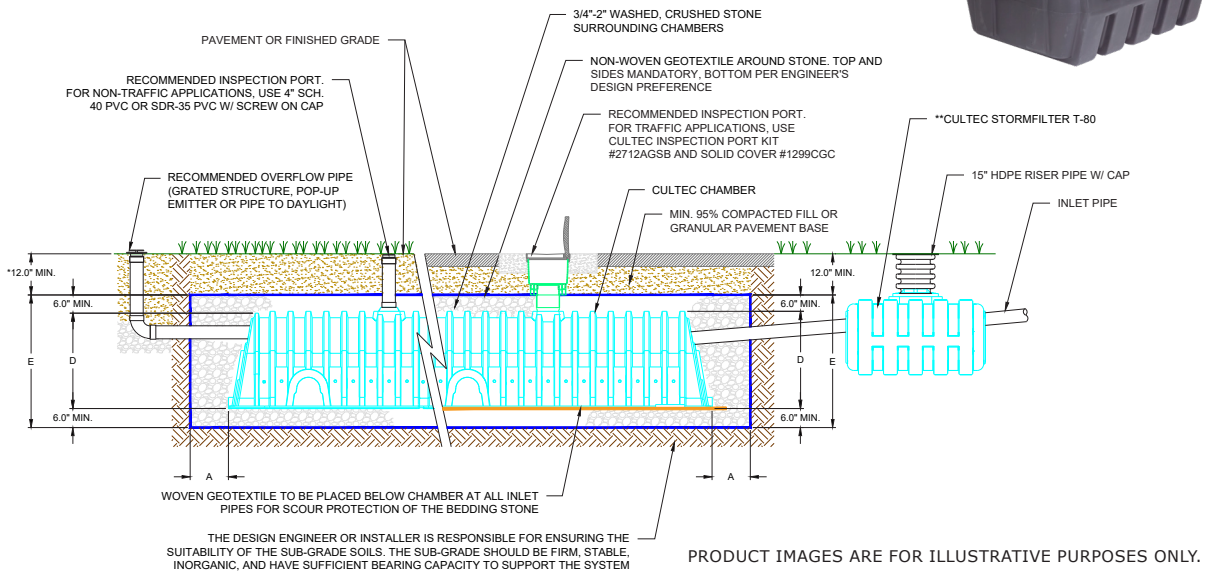
# Typical Residential Drainage Details

		Contactor 100HD
<b>Ref.</b>	<b>Bare Chamber Volume</b>	1.87 ft <sup>3</sup> /ft 14.00 ft <sup>3</sup> /unit 105 gal
<b>A</b>	<b>Stone Border</b>	12"
<b>B</b>	<b>Chamber Width</b>	36"
<b>C</b>	<b>Row Spacing</b>	6"
<b>D</b>	<b>Chamber Height</b>	12"
<b>E</b>	<b>Effective Depth</b>	24"
	<b>Chamber Length*</b>	8'

\*Chamber length includes integral end walls.



PRODUCT IMAGES ARE FOR ILLUSTRATIVE PURPOSES ONLY.  
\*FOR NON-TRAFFIC APPLICATIONS, THE DEPTH OF COVER ABOVE THE EMBEDMENT STONE LAYER MAY BE REDUCED TO 6.0"



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\*\*CULTEC RECOMMENDS THE USE OF THE STORMFILTER T-80 UPSTREAM OF ALL SYSTEM INLETS. THE STORMFILTER T-80 MUST BE LOCATED IN A NON-TRAFFIC AREA

For more information, contact **CULTEC** at (203) 775-4416 or visit [www.cultec.com](http://www.cultec.com).

# CULTEC Contactor® 100HD Specifications

## GENERAL

CULTEC Contactor® 100HD chambers are designed for underground residential drainage. The chambers may be used for retention, recharging, detention, or controlling the flow of on-site stormwater runoff or greywater.

## CHAMBER PARAMETERS

1. The chambers shall be manufactured in the U.S.A. by CULTEC of Brookfield, CT (cultec.com, 203-775-4416).
2. The chamber shall be vacuum thermoformed of polyethylene with a black interior and blue exterior.
3. The chamber shall be arched in shape.
4. The chamber shall be open-bottomed.
5. The chamber shall be joined using an interlocking overlapping rib method. Connections must be fully shouldered overlapping ribs, having no separate couplings or separate end walls.
6. The nominal chamber dimensions of the CULTEC Contactor® 100HD shall be 12 inches (305 mm) tall, 36 inches (914 mm) wide and 8 feet (2.44 m) long. The installed length of a joined Contactor® 100HD shall be 7.5 feet (2.29 m).
7. Maximum inlet opening on the chamber end wall is 10 inches (250 mm) HDPE, PVC.
8. The chamber shall have two side portals to accept CULTEC HVLV® SFCx2 Feed Connectors to create an internal manifold. The nominal I.D. dimensions of each side portal shall be 5.75 inches (146 mm) high by 7.5 inches (191 mm) wide. Maximum allowable O.D. in the side portal is 6 inches (150 mm) HDPE, PVC.
9. The nominal chamber dimensions of the CULTEC HVLV® SFCx2 Feed Connector shall be 7.6 inches (194 mm) tall, 12 inches (305 mm) wide and 19.7 inches (500 mm) long.
10. The nominal storage volume of the Contactor® 100HD chamber shall be 1.866 ft<sup>3</sup> / ft (0.173 m<sup>3</sup> / m) - without stone. The nominal storage volume of the HVLV® SFCx2 Feed Connector shall be 0.294 ft<sup>3</sup> / ft (0.027 m<sup>3</sup> / m) - without stone.
11. The Contactor® 100HD chamber shall have twenty-four discharge holes bored into the sidewalls of the unit's core to promote lateral conveyance of water.
12. The Contactor® 100HD chamber shall have 16 corrugations.
13. The end wall of the chamber, when present, shall be an integral part of the continuously formed unit. Separate end plates cannot be used with this unit.
14. The Contactor® 100RHD Starter/Stand Alone unit must be formed as a whole chamber having two fully formed integral end walls and having no separate end plates or separate end walls.
15. The Contactor® 100EHD Middle/End unit must be formed as a whole chamber having one fully formed integral end wall and one fully open end wall and having no separate end plates or end walls.
16. The HVLV® SFCx2 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 shall fit into the side portals of the Contactor® 100HD and act as cross feed connections.
17. Chambers must have horizontal stiffening flex reduction steps between the ribs.
18. The chamber shall have a raised integral cap at the top of the arch in the center of each unit to be used as an optional inspection port or clean-out.
19. The units may be trimmed to custom lengths by cutting back to any corrugation on the large rib end.
20. The chamber shall be manufactured in an ISO 9001:2015 certified facility.
21. Maximum allowable cover over the top of the chamber shall be 12' (3.66 m).
22. The chamber shall be designed to withstand traffic loads when installed according to CULTEC's recommended installation instructions.



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