



# CULTEC Contactor® 100HD Stormwater Chamber

The Contactor® 100HD is a 12.5" (318 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 12.5"<br>2.44 m x 914 mm x 318 mm               |
| Installed Length                   | 7.5'<br>2.29 m   |
| Length Adjustment per Run          | 0.5'<br>0.15 m   |
| Chamber Storage                    | 1.87 ft³/ft<br>0.17 m³/m<br>14.00 ft³/unit<br>0.40 m³/unit |
| Min. Installed Storage             | 3.84 ft³/ft<br>0.36 m³/m<br>28.81 ft³/unit<br>0.82 m³/unit |
| Min. Area Required                 | 25 ft²<br>2.32 m²  |
| Chamber Weight                     | 38.0 lbs<br>17.24 kg                                       |
| Shipping                           | 55 chambers/skid<br>2,195 lbs/skid<br>16 skids/48' flatbed |
| Min. Center to Center Spacing      | 3.33'<br>1.02 m  |
| Max. Allowable Cover               | 12'<br>3.66 m  |
| Max. Inlet Opening in End Wall     | 10" HDPE, PVC<br>250 mm HDPE, PVC                          |
| Max. Allowable O.D. in Side Portal | 6" HDPE, PVC<br>150 mm HDPE, PVC                           |
| Compatible Feed Connector          | HVLV SFCx2 Feed Connector                                  |

Calculations are based on installed chamber length.  
All above values are nominal.  
Min. installed storage includes 6" (152 mm) stone base, 6" (152 mm) stone above crown of chamber and typical stone surround at 40"(1016 mm) center-to-center spacing.

|                                       | Stone Foundation Depth |                      |                      |
|---------------------------------------|------------------------|----------------------|----------------------|
|                                       | 6"<br>152 mm           | 12"<br>305 mm        | 18"<br>457 mm        |
| Chamber and Stone Storage Per Chamber | 28.81 ft³<br>0.82 m³   | 33.81 ft³<br>0.96 m³ | 38.81 ft³<br>1.10 m³ |
| Min. Effective Depth                  | 2.04'<br>0.62 m        | 2.54'<br>0.77 m      | 3.04'<br>0.93 m      |
| Stone Required Per Chamber            | 1.37 yd³<br>1.05 m³    | 1.84 yd³<br>1.40 m³  | 2.30 yd³<br>1.76 m³  |

Calculations are based on installed chamber length.  
Includes 6" (152 mm) stone above crown of chamber and typical stone surround.  
Stone void calculated at 40%.

## Contactor® 100HD Bare Chamber Storage Volumes

| Elevation    |     | Incremental Storage Volume |              |               |              | Cumulative Storage |              |
|--------------|-----|----------------------------|--------------|---------------|--------------|--------------------|--------------|
| in.          | mm  | ft³/ft                     | m³/m         | ft³           | m³           | ft³                | m³           |
| 12           | 305 | 0.009                      | 0.001        | 0.068         | 0.002        | 13.995             | 0.396        |
| 11           | 279 | 0.067                      | 0.006        | 0.503         | 0.014        | 13.928             | 0.394        |
| 10           | 254 | 0.110                      | 0.010        | 0.825         | 0.023        | 13.425             | 0.380        |
| 9            | 229 | 0.139                      | 0.013        | 1.043         | 0.030        | 12.600             | 0.357        |
| 8            | 203 | 0.159                      | 0.015        | 1.193         | 0.034        | 11.558             | 0.327        |
| 7            | 178 | 0.174                      | 0.016        | 1.305         | 0.037        | 10.365             | 0.294        |
| 6            | 152 | 0.184                      | 0.017        | 1.380         | 0.039        | 9.060              | 0.257        |
| 5            | 127 | 0.192                      | 0.018        | 1.440         | 0.041        | 7.680              | 0.217        |
| 4            | 102 | 0.203                      | 0.019        | 1.523         | 0.043        | 6.240              | 0.177        |
| 3            | 76  | 0.203                      | 0.019        | 1.523         | 0.043        | 4.718              | 0.134        |
| 2            | 51  | 0.203                      | 0.019        | 1.523         | 0.043        | 3.195              | 0.090        |
| 1            | 25  | 0.223                      | 0.021        | 1.673         | 0.047        | 1.673              | 0.047        |
| <b>Total</b> |     | <b>1.866</b>               | <b>0.173</b> | <b>13.995</b> | <b>0.396</b> | <b>13.995</b>      | <b>0.396</b> |

Calculations are based on installed chamber length.

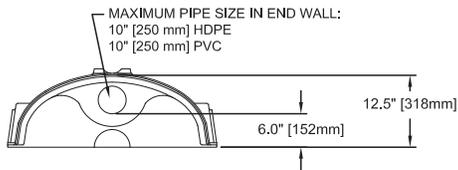
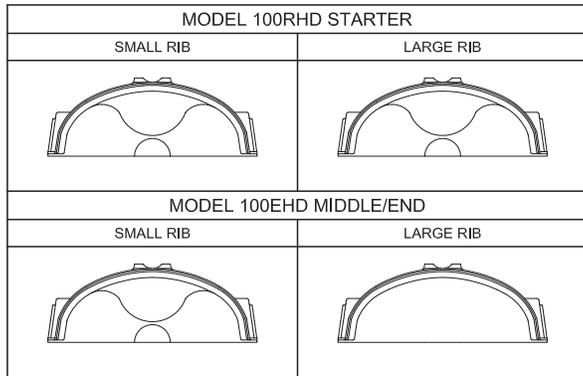
Visit [www.cultec.com/downloads.html](http://www.cultec.com/downloads.html) for Product Downloads and CAD details.

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

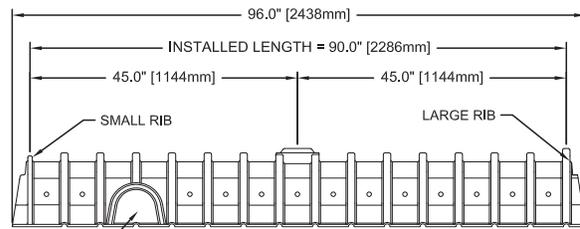
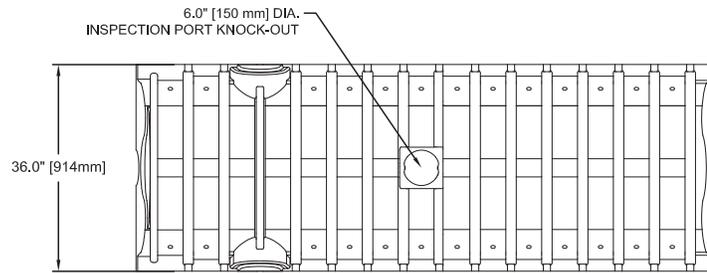


# CULTEC Contactor® 100HD Stormwater Chamber

## Three View Drawing

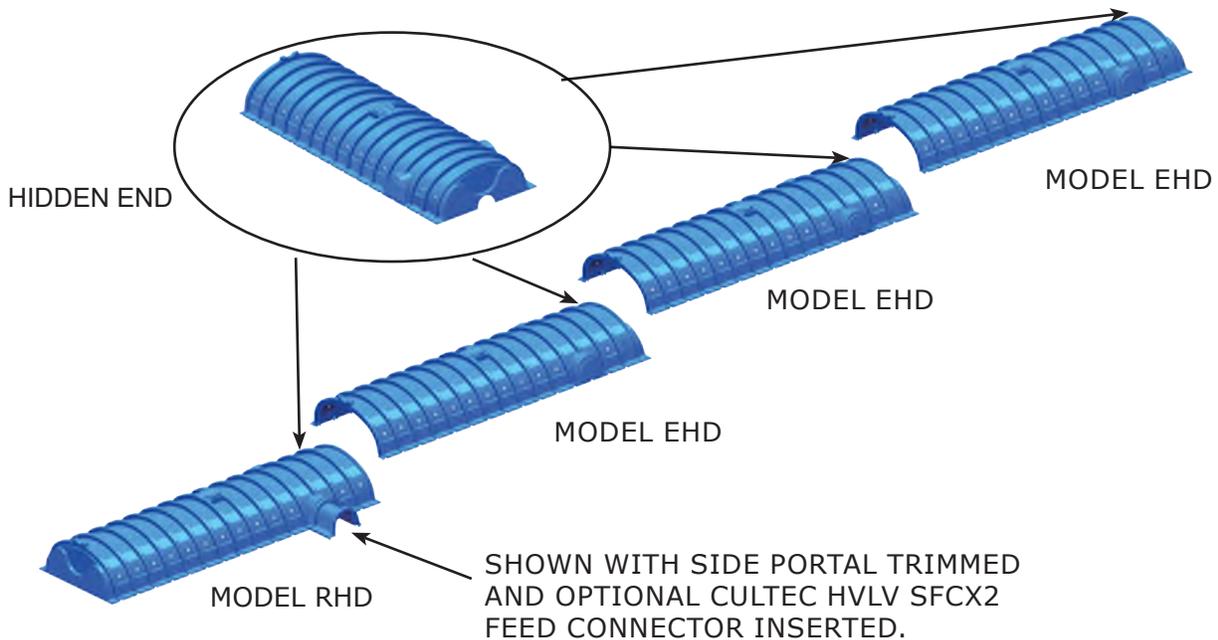


CULTEC CONTACTOR 100HD CHAMBER STORAGE = 1,866 CF/FT [0.173 m³/m]  
 INSTALLED LENGTH ADJUSTMENT = 0.5' [0.15 m]



SIDE PORTAL FOR OPTIONAL INTERNAL MANIFOLD  
 (ACCOMMODATES CULTEC HVLV SFCX2 FEED CONNECTOR OR STORM PIPE)  
 MAX. PIPE:  
 6" [150 mm] HDPE  
 6" [150 mm] PVC

## Typical Interlock Installation

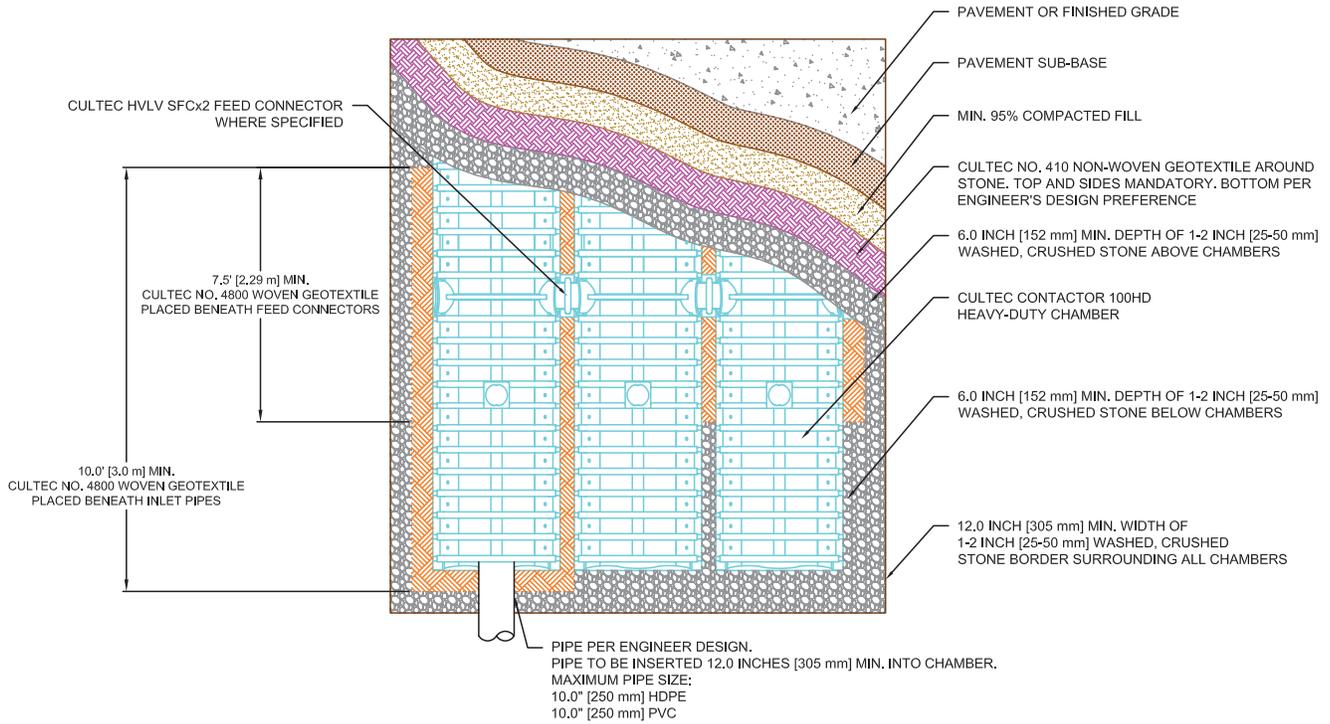


For more information, contact CULTEC at (203) 775-4416 or visit [www.cultec.com](http://www.cultec.com).

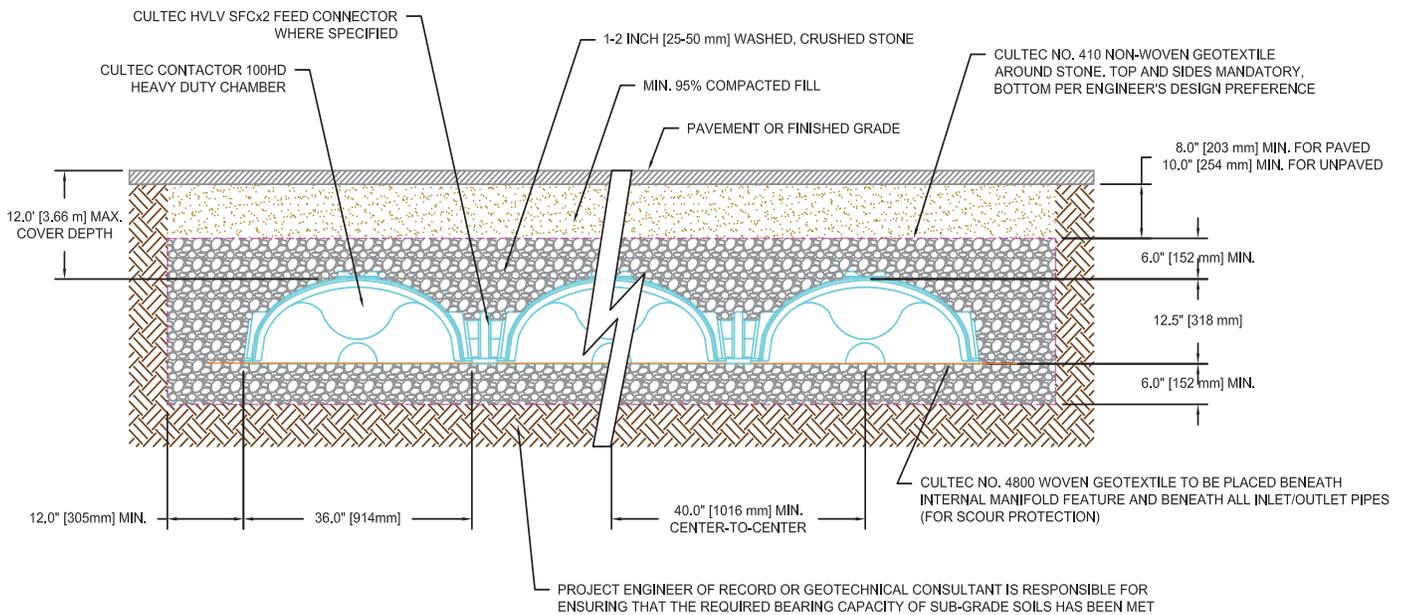


# CULTEC Contactor® 100HD Stormwater Chamber

## Plan View Drawing



## Typical Cross Section for Traffic Application



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 stormwater management. The chambers may be used for retention, recharging, detention or controlling the flow of on-site stormwater runoff.

### CHAMBER PARAMETERS

1. The chambers shall be manufactured in the U.S.A. by CULTEC, Inc. 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 12.5 inches (318 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 a single Contactor® 100RHD Stand Alone unit shall be 14.93 ft<sup>3</sup> (0.42 m<sup>3</sup>) - without stone. The nominal storage volume of a joined Contactor® 100EHD as an Intermediate unit shall be 13.995 ft<sup>3</sup> (0.396 m<sup>3</sup>) - without stone. The nominal storage volume of the length adjustment amount per run shall be 0.93 ft<sup>3</sup> (0.09 m<sup>3</sup>) - without stone.
11. 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.
12. The Contactor® 100HD chamber shall have forty-four discharge holes bored into the sidewalls of the unit's core to promote lateral conveyance of water.
13. The Contactor® 100HD chamber shall have 16 corrugations.
14. 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.
15. 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.
16. 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.
17. 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.
18. Chambers must have horizontal stiffening flex reduction steps between the ribs.
19. 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.
20. The units may be trimmed to custom lengths by cutting back to any corrugation on the large rib end.
21. The chamber shall be manufactured in an ISO 9001:2015 certified facility.
22. The chamber shall be designed and manufactured to meet the material and structural requirements of IAPMO PS 63-2019, including resistance to AASHTO H-10 and H-20 highway live loads, when installed in accordance with CULTEC's installation instructions.
23. Maximum allowable cover over the top of the chamber shall be 12' (3.66 m) for the Heavy Duty version.
24. The chamber shall be designed to withstand traffic loads when installed according to CULTEC's recommended installation instructions.