



TRICEL
GENERATIONS OF INNOVATION

STORMWATER MANAGEMENT SYSTEMS INSTALLATION GUIDE

Installation Guide



HydroStor HS290 & HS180

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Introduction

HydroStor stormwater chambers are designed to provide a highly efficient solution for underground water management. HydroStor Chambers are high performance arch shaped chambers designed to rigorous ASTM F2418 and ASTM F2787 requirements. However, as with any buried structure, it is important to follow the guidelines contained herein to ensure structural integrity and maximum service life. In addition, the chamber supplier, chamber installer (site contractor) and the design engineer are encouraged to meet for a pre-construction meeting to discuss any questions relating to the installation process, and the guidelines herein. Below is a checklist of Materials/Equipment that will typically be needed for each HydroStor chamber system.

- HydroStor Chambers & End Caps
- Woven & Non-woven Geotextiles
- Manifold pipe, fittings & couplers
- Acceptable backfill material found in Table 2
- Pre-treatment System
- Inlet Diversion Structure for sediment row (optional)
- PVC pipe & fittings for inspection port (optional)
- Minimum 1.8 m forks for unloading chamber pallets
- Reciprocating saw for coring holes in end caps
- Approved compaction equipment
- Excavator to dig trench and place stone and soil backfill
- Stone conveyor / LGP dozer (CAT® D4 or smaller) not exceeding 4.5psi (31 kPa) to grade

Chamber Handling and Storage

Upon delivery to the project site, visually inspect the chambers and end caps to ensure accurate quantities. Any damage that may have occurred during transport should also be noted at this time. Chambers will be marked with either an identification sticker or tag listing the product name, nominal size and the governing standards.

The HS180 chambers will be delivered with up to 19 stacked chambers per pallet and the HS290 chambers with up to 10 stacked chambers on a pallet. Unloading of the chambers pallets should be done with a forklift with a minimum of 1.8 m forks. Chambers and end caps may remain on the pallets until they are ready to be installed.



Figure 1 - Chambers on a Truck

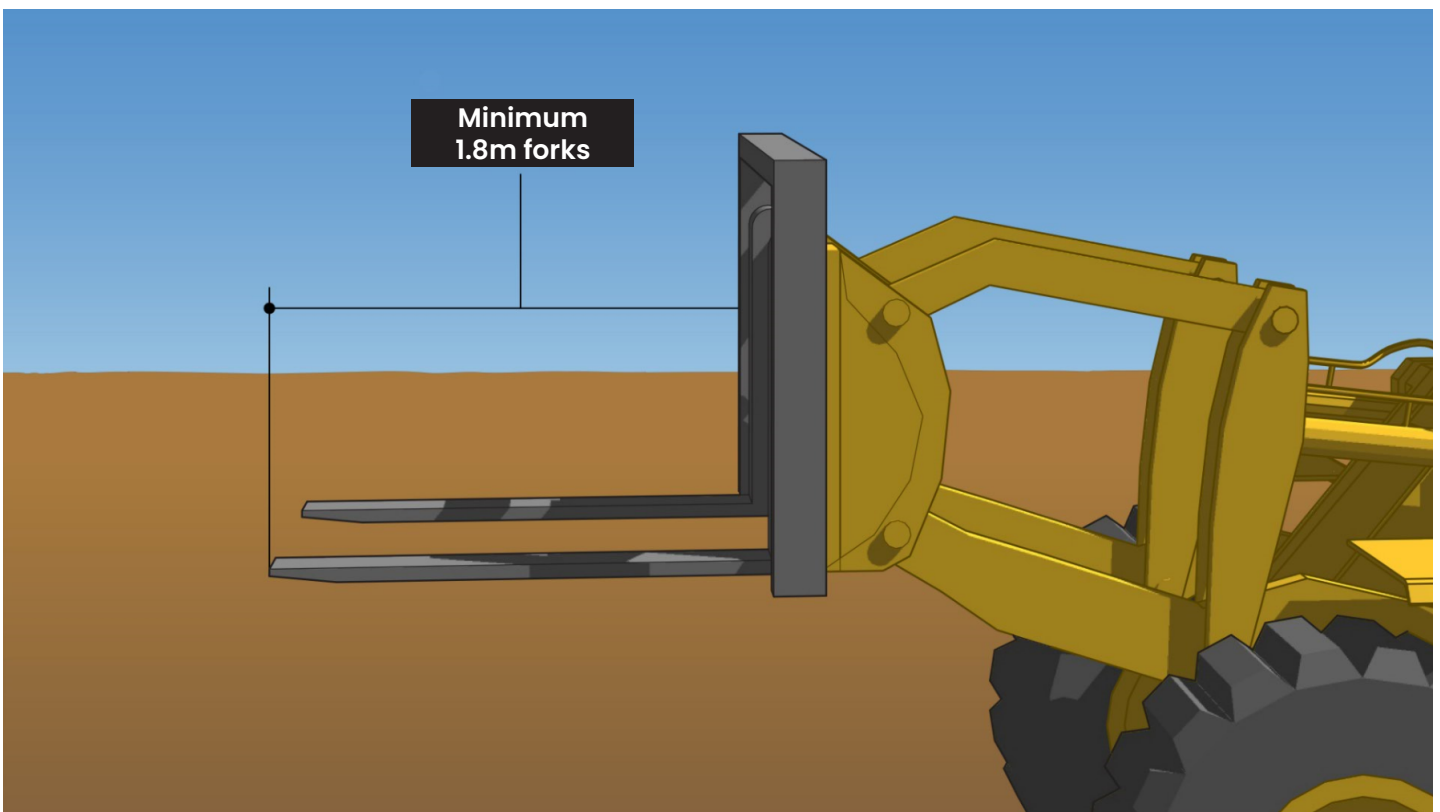


Figure 2 – Minimum 72" (1.8 m) Forks for Unloading Chamber Pallets

Chambers should be stored in an area that is flat and free of debris. To avoid the potential for damage, the storage area should be located far enough away from construction traffic to avoid potential contact.

HydroStor chambers were designed with the installer in mind and are equipped with handles to allow the chambers to be moved and set in place with ease.

To remove chambers from the pallets, carefully cut and remove the banding from around the chambers. With two people, use the handles to lift the chambers off of the pallet and carry them into place.

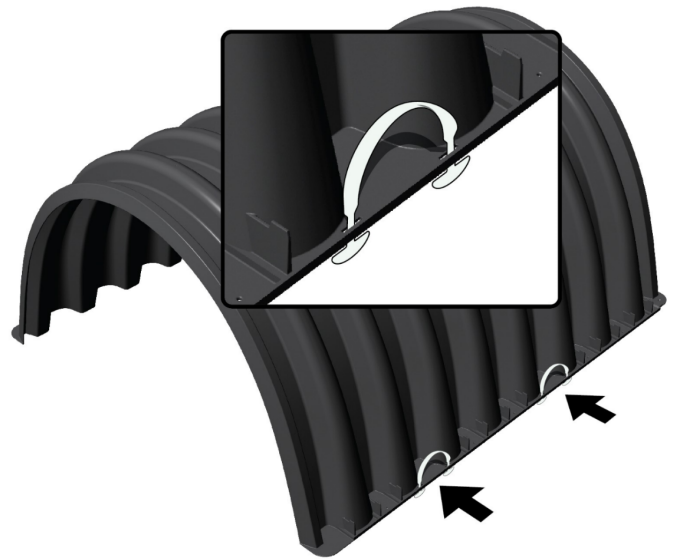


Figure 3 - Chamber Handles

WARNING: THE CHAMBERS MUST NOT BE REMOVED FROM THE STACK BY PUSHING THEM OFF FROM ONE SIDE. REMOVING THE CHAMBERS IN THIS MANNER MAY RESULT IN CHAMBER DAMAGE, INJURIES OR EVEN DEATH.

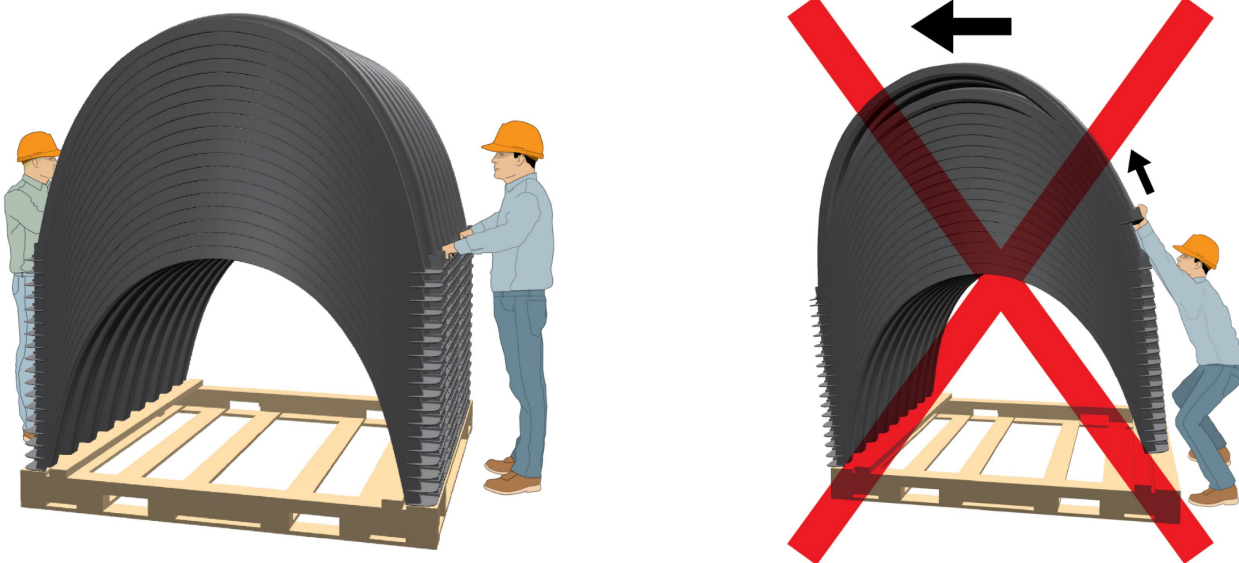


Figure 4 - Chamber Unloading from Pallets

Subgrade and Foundation Preparation

Due to the inherent hazards associated with excavation, special precautions should be taken. All Federal Occupational Safety and Health Administration (OSHA), State and Local safety requirements should be followed.

Using the project plans and the appropriate details, excavate the chamber system bed in a manner to sufficiently accommodate the chambers and manifolds. To ensure an adequate fit, and to allow for a stone border, a minimum of 12" (300 mm) of excavation is required between the trench sidewalls and the chamber system.

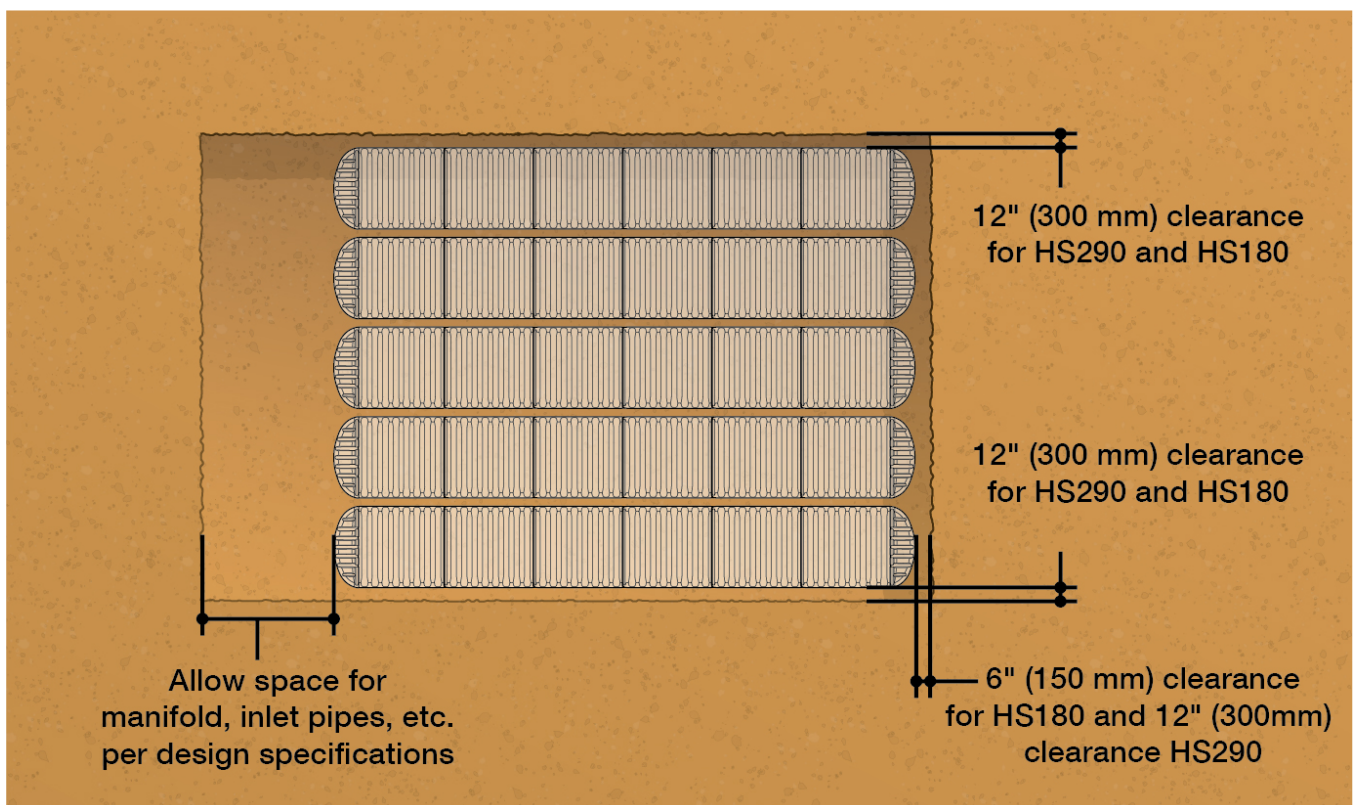


Figure 5 – Excavation Footprint for Chambers

Water within the excavation area should be controlled before and during the chamber installation. If standing water is present, dewatering measures should be utilized. There are many dewatering methods including but not limited to: sump pumps, well points, deep wells, underdrains, and stone blankets. The method of dewatering, if required, shall be selected based on the site conditions and severity of the water.

The HydroStor chambers depend on a stable soil subgrade for support; an unstable subgrade can result in differential settlement or other structural distress. If an unstable subgrade is encountered, it shall be remedied prior to chamber foundation stone placement. There are several methods of improving the subgrade prior to installation depending on the soil conditions present. Consult the design engineer for the desired method based on the site conditions.

- Reinforce – Soft soils are reinforced by adding dry soil, stabilizing geotextile or geogrid materials, or lime and then compacting for stabilization.
- Displace – Soupy soils are displaced by placing an overburden material such as large aggregate in the bottom until the foundation is consolidated and stabilized.
- Restore – Loose soils can be restored by compacting to a greater density.
- Remove – Existing soils that are unusable should be completely excavated and replaced with a suitable material.

Upon the prepared subgrade, place an AASHTO M288 Class 2 or Class 3 non-woven geotextile for the separation layer on the bed bottom and up and along the sidewalls. Refer to Table 1 for suitable geotextile options. Alternative geotextile options may be acceptable and should be approved by the design engineer. Maintain a 600 mm overlap of fabric at all seams. Fabric will also be required over top of the system after the embedment stone is placed over the chambers (minimum 230 mm for HS180 and HS290 chambers).

Table 1 – Geotextile Specifications

Geotextile Specification	Minimum of AASHTO M288 Class 2 or 3 Non-woven Separation & Filtration	AASHTO M288 Class 1 Woven Stabilisation & Scour Protection
Geotextile Placement	Separation Layer between angular stone and in-situ soil to prevent fines intrusion.	Stabilisation Layer under Sediment Row & Scour Protection Layer

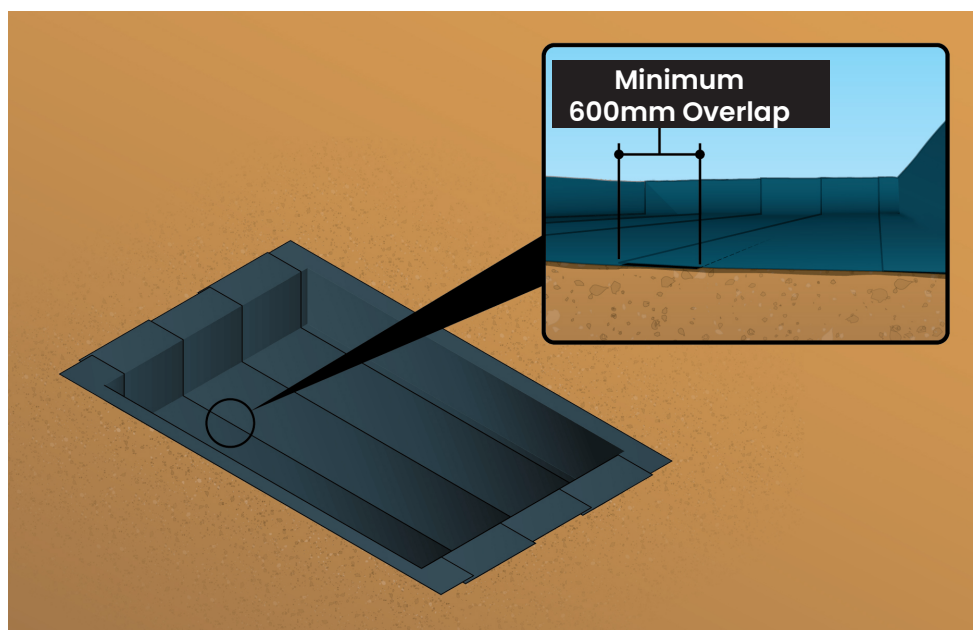


Figure 6 - Filter Fabric Installation

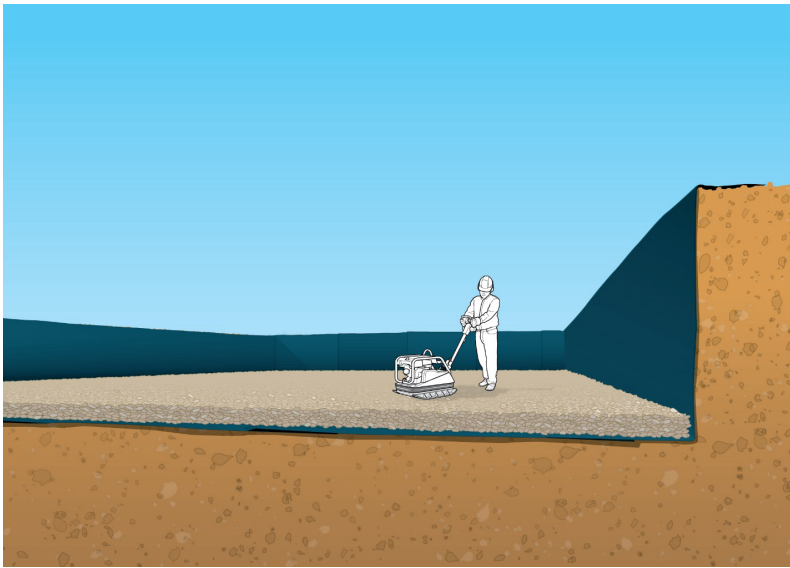


Figure 7 - Foundation Compaction with Plate Compactor

After the fabric has been laid out, place a level foundation of $\frac{3}{4}$ "-2" (19-51 mm) clean, crushed, angular stone over the entire excavated bottom. **The foundation thickness shall be a minimum of 9" (230 mm) for the HS180 and HS290 chamber.** Additional foundation stone thickness may be required, depending on the subgrade bearing capacity. Refer to the HydroStor Design Guide for more information. Using a vibratory roller, compact the stone foundation to achieve a flat level surface.

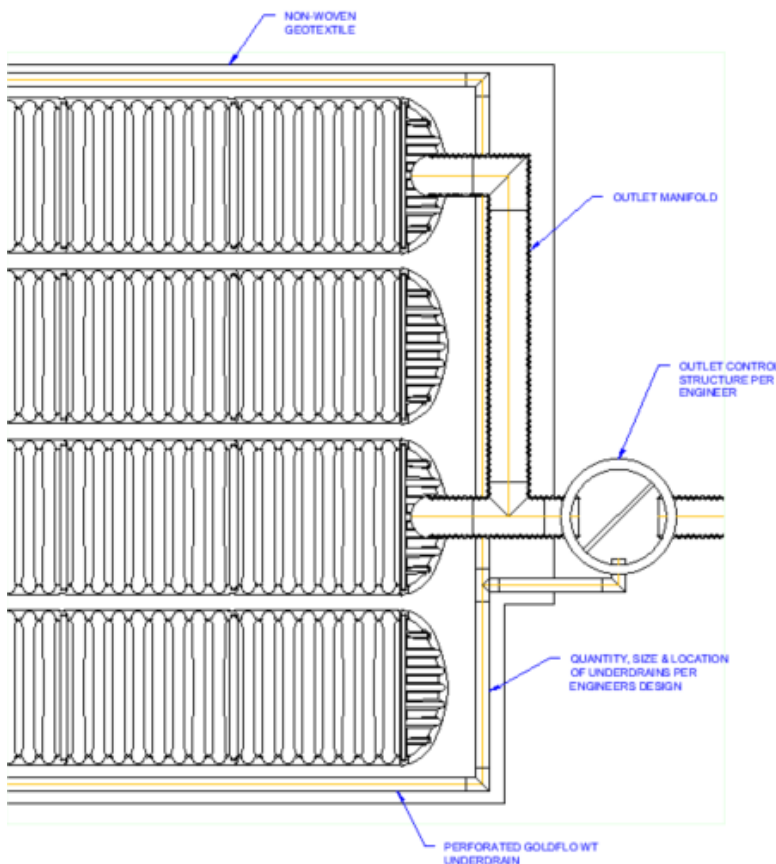


Figure 8 - Optional Underdrain

If specified on the project plans, the underdrain piping may be laid at this point. The underdrain is to be installed around the chamber system and should not be placed under a chamber footing. Refer to the Underdrain Detail Drawing for more information about underdrain installation.

Inlet Manifold Assembly and Chamber Placement

This structure will divert the water through a pre-treatment system, such as a Tricel Stormwater Quality Unit (TWQU) and/or a chamber sediment row.

A manifold is used to distribute the stormwater to the chamber rows. A manifold system will typically consist of Tricel GOLDFLO dual wall pipe and fittings. Pipe and fittings may be joined using split-band couplers. Lay out the manifold system using the project plans and appropriate details.

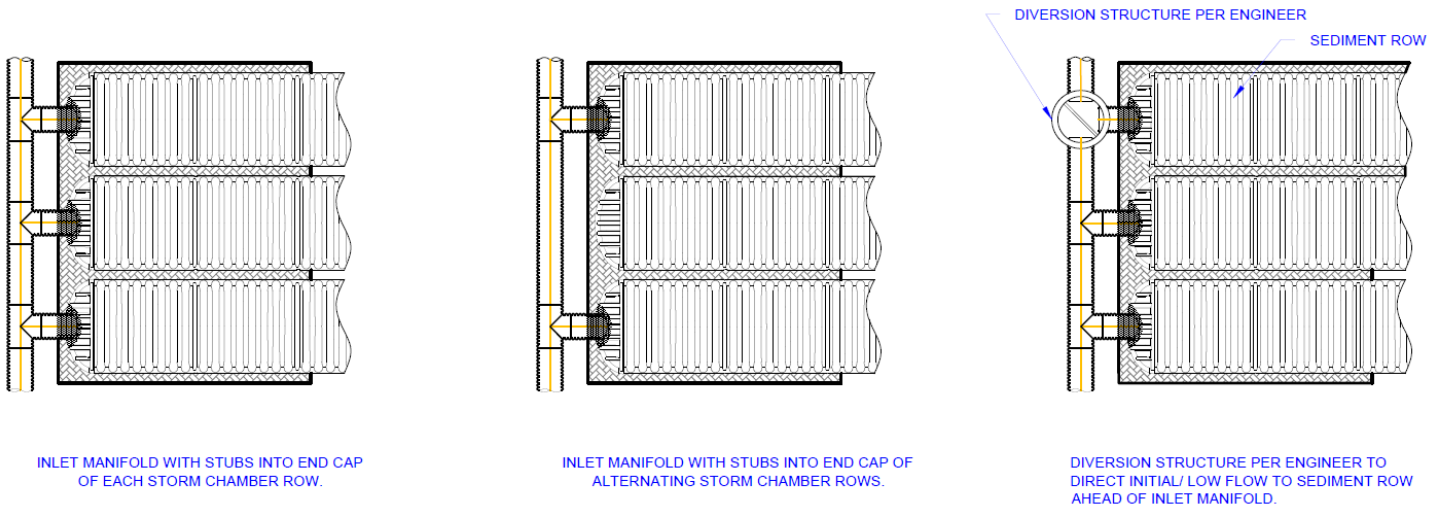


Figure 9 - Inlet Manifold Options

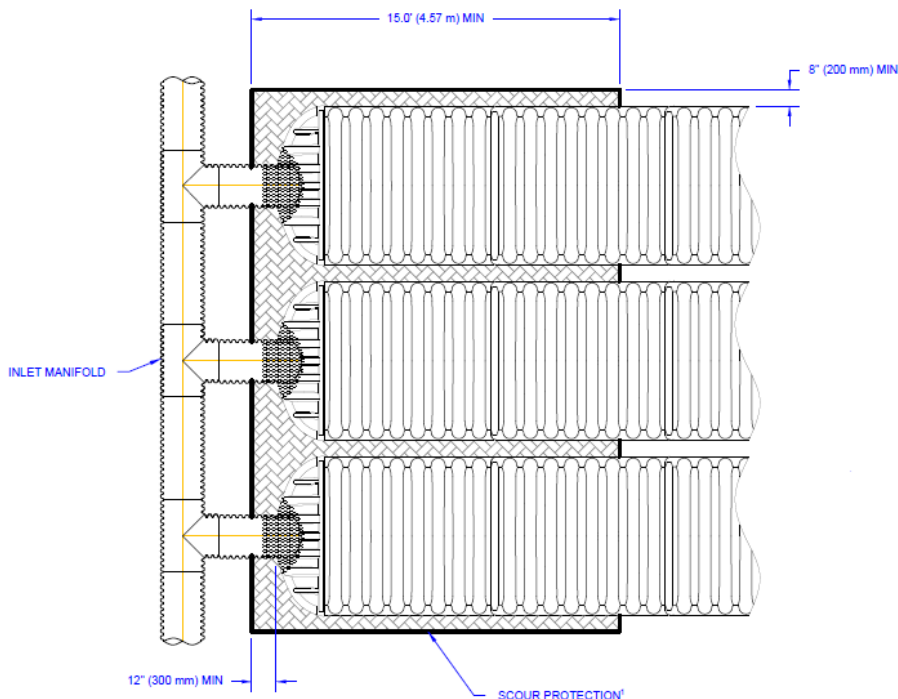


Figure 10 - Inlet Scour Protection

To alleviate the potential for scour at the inlet locations, lay a 15' (4.57 m) wide strip of an AASHTO M288 Class 1 woven stabilization geotextile, along the entire length of the manifold mainline, adequately covering the foundation stone beneath the inlet locations. The fabric should extend a minimum of 12" (300 mm) in front of the end caps and 8" (200 mm) on the sides of the chambers.

Position the end caps of each row with the inlet pipes. At the required locations/elevations, core an opening in the end cap the approximate outside diameter of the pipe and insert the inlet pipe. The inlet pipe should penetrate 300 mm into the end cap.

Repeat this process for each row. Cover any open void spaces greater than 19 mm on the end caps with a non-woven geotextile to prevent infiltration of the backfill material.

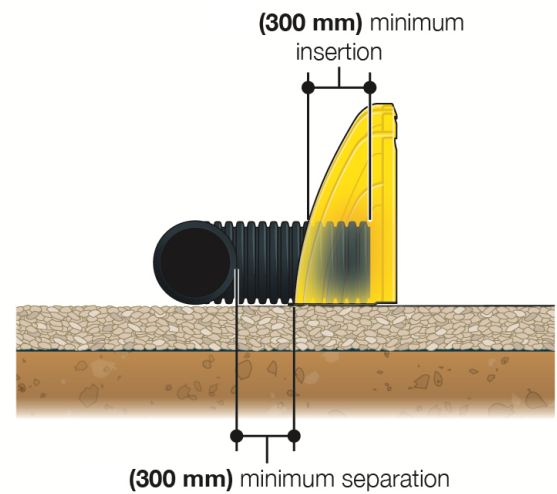


Figure 11 - Manifold / End Cap Connection

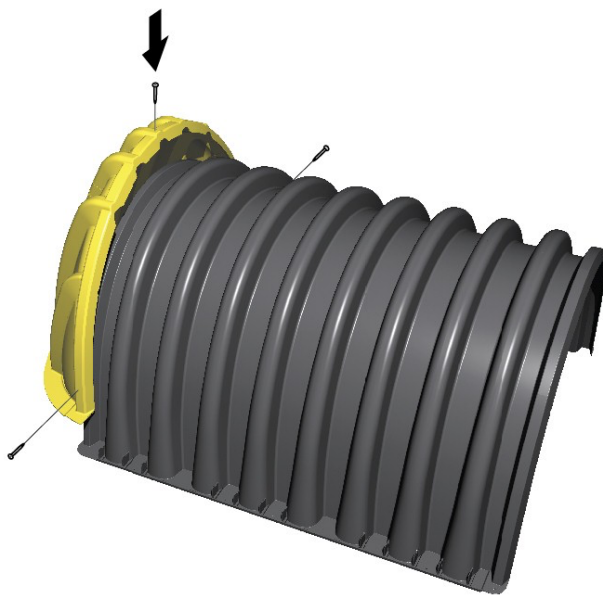


Figure 12 - End Cap Assembly

Position the chambers in line with the end caps. Note the orientation of the chambers. The chambers are stamped with arrows showing the direction for installation. The end caps will fit over the first rib of the chambers. The end caps should be fastened to the chambers with a minimum of 3 evenly spaced screws or fasteners to keep the end caps from shifting during the backfilling process.

The assembly of each row is achieved by over topping the last rib of the initial chamber with the first rib of the succeeding chamber.

Each chamber is marked with the overlap locations as well as the installation direction. During the assembly process do not extend the chamber rows beyond the reach of the backfill placement equipment. End caps shall be used to terminate each row.

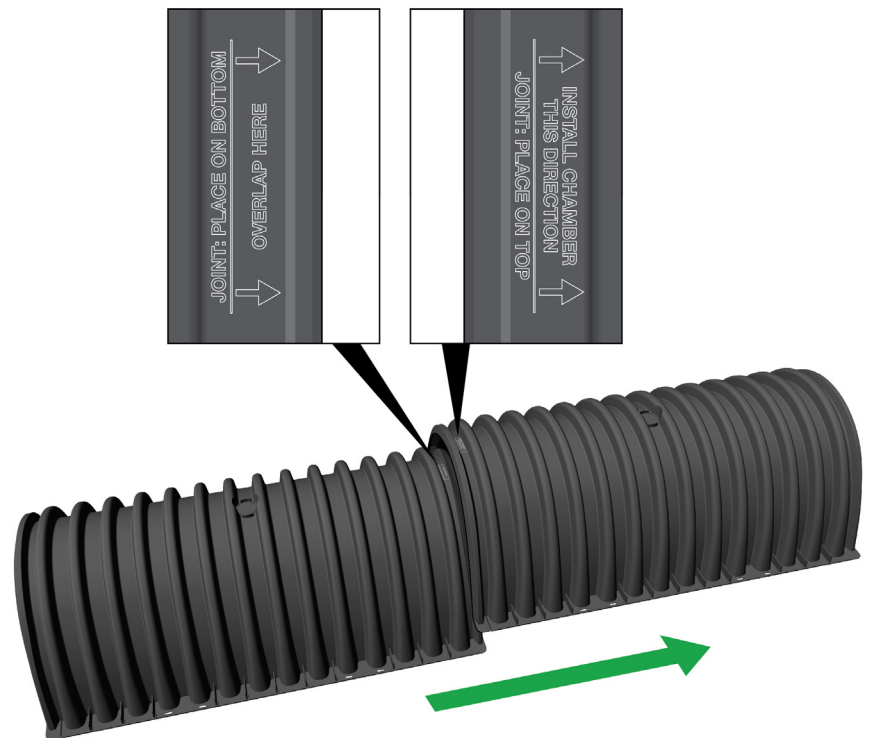


Figure 13 - Chamber Joint Assembly

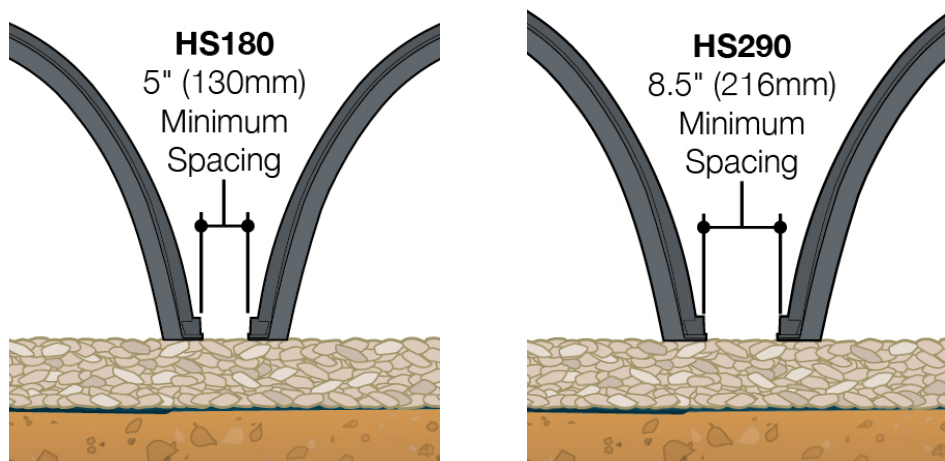


Figure 14 - Minimum Chamber Row Spacing

Maintaining a 130 mm minimum clear space for the HS180 and an 216 mm minimum clear space for the HS290 between each row is required for adequate structural support. A brick or other spacer is recommended to maintain the required spacing between the chamber feet.

Chamber Outlet Options

The purpose of the outlet is to ensure that there are free-flowing conditions between the chambers and the outlet control structure. Several possible outlet configurations are: An outlet manifold consisting of pipe stubs connected to the chamber end caps in the same fashion as the inlet manifold, a perimeter underdrain connected to the outlet control structure or a combination of both. The outlet control structure should be designed so that there is sufficient outflow from the chambers while allowing the chambers to reach full storage capacity. The outlet manifold sizing and configuration will vary based on the system sizing and requirements. Below is a typical outlet manifold configuration.

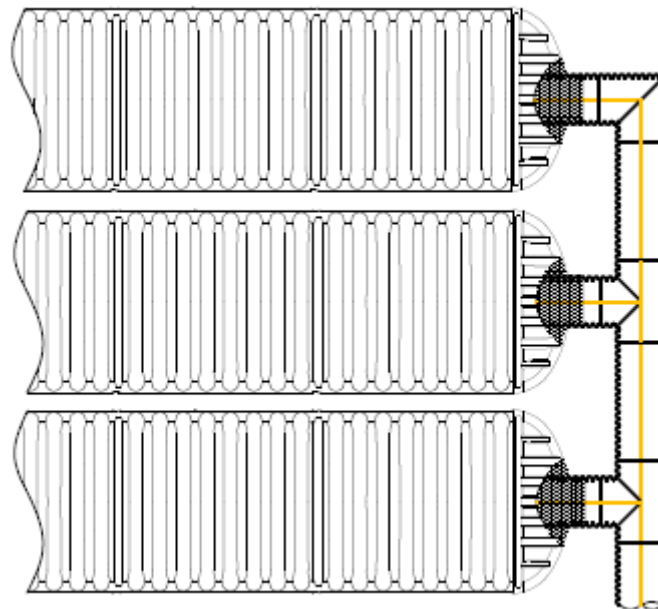


Figure 15 - Outlet Manifold Configuration

Pre-treatment / Sediment Row

Considering chambers have open bottoms, it is essential to utilise a pretreatment system to remove sediment and debris before the influent enters the chamber system. If the incoming effluent is untreated, the storage performance and service life of the system will be compromised. Tricel recommends pretreatment of the stormwater runoff by using either a water treatment device such as the Tricel Stormwater Quality Unit (SWQU) and/or a chamber sediment row. It is important to consider the local water quality regulatory requirements and the expected influent contamination.

Stormwater Quality Unit Option

- Pretreatment devices such as Tricel's TWQUs should be installed upstream of the chamber system to treat the initial stormwater runoff before it reaches the chamber system. Tricel offers several standard units and also has the ability to customise units to meet the job specific requirements. Refer to Tricel's TWQU Product Detail & Bypass Detail for more information.

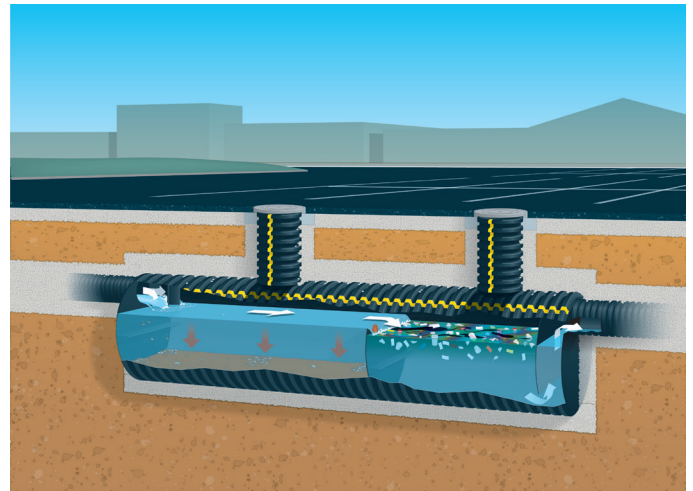


Figure 16 - Tricel Stormwater Quality Unit (SWQU)

Sediment Row Option

- The Sediment Row consists of a series of chambers installed directly on top of two layers of woven geotextile. The geotextile serves as a filter and prevents the sediment from clogging the foundation. The specified geotextile is also durable enough to withstand cleaning and maintenance procedures using water jet technology.
- The sediment row is designed with an access structure upstream of the inlet. The access structure should be installed prior to the placement of the chambers. The structure will be designed to divert the initial stormwater runoff to the sediment row. Flows that exceed the capacity of the sediment row will then be diverted to the system through the inlet manifold.
- Installation of the sediment row may begin after the foundation has been placed. For detailed layout dimensions, refer to the Engineer's layout or Tricel's standard Sediment Row detail.
- Two strips (minimum 2.29 m wide for the HS180 and 2.97 m wide for the HS290) of an approved AASHTO M288 Class 1 woven stabilization geotextile shall be placed over top of the foundation. The chamber row is then installed directly on top of the two layers of fabric. It is recommended that these two geotextile layers do not include any joints, overlaps or seams.
- A short stub of pipe can be used to connect the manhole to the end cap of the sediment row. It is recommended that a 600 mm diameter pipe be used to allow access to the sediment row for maintenance procedures.
- A non-woven geotextile is not needed over top of the chambers since the chamber side walls are not perforated.
- After placement of the adjacent chamber rows, backfilling may commence as described in this guide.

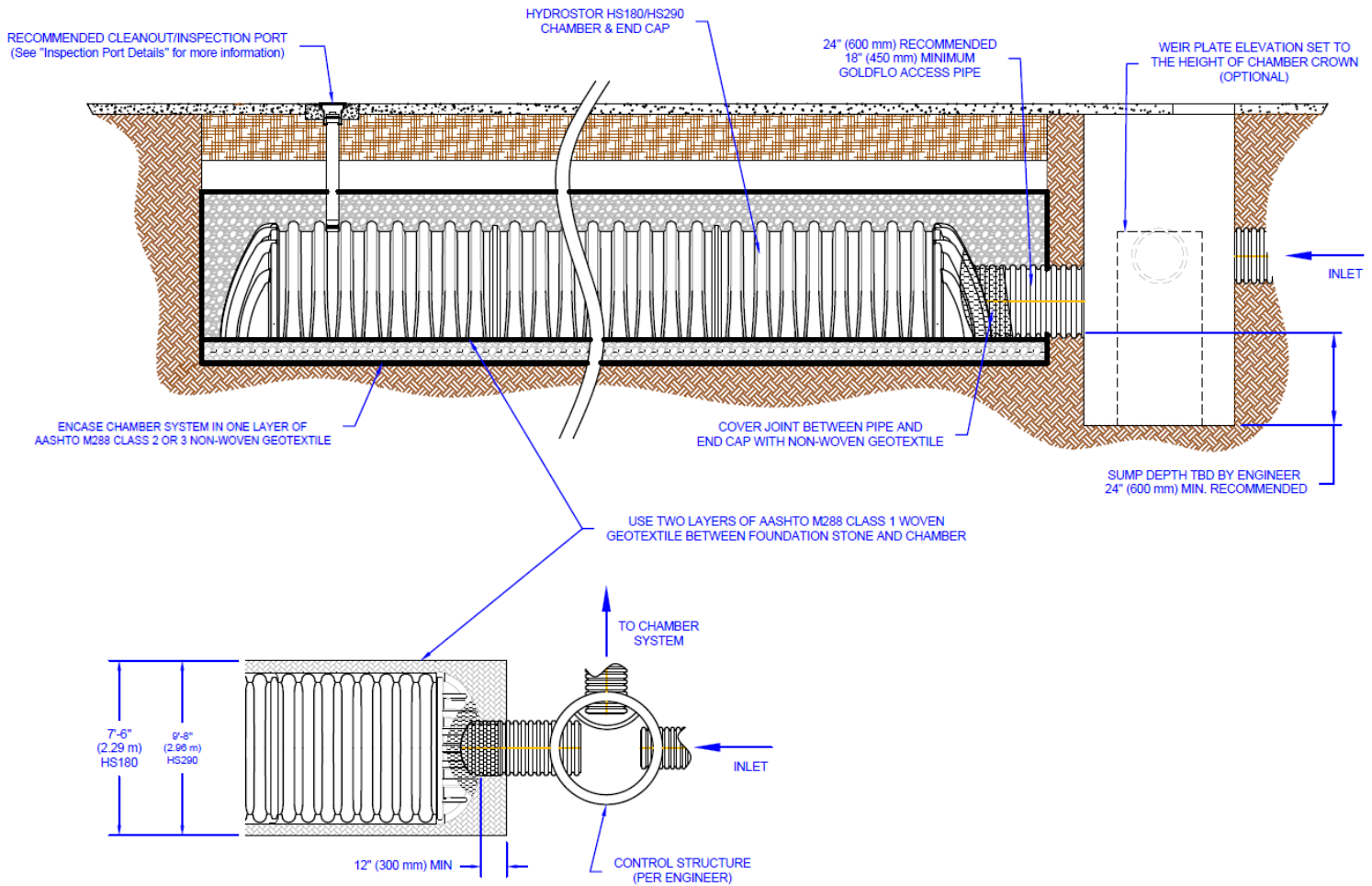


Figure 17 - Sediment Row

Vent / Inspection Port Placement

Inspection ports are not required for chamber systems; however they may be installed to monitor the sediment and debris level within the system. Using the project plans, identify which chambers should be fitted with inspection ports.

For the HS180 chamber, a 100 mm vent/inspection port may be placed in the valley between the corrugations.

Using a hole saw, cut out the opening at the appropriate location. A Fernco QuikSeal, Tap PVC, or approved engineering equivalent connection can be used to connect Schedule 40 or SDR 35 PVC pipe and fittings to build the inspection port as shown in Figure 18.

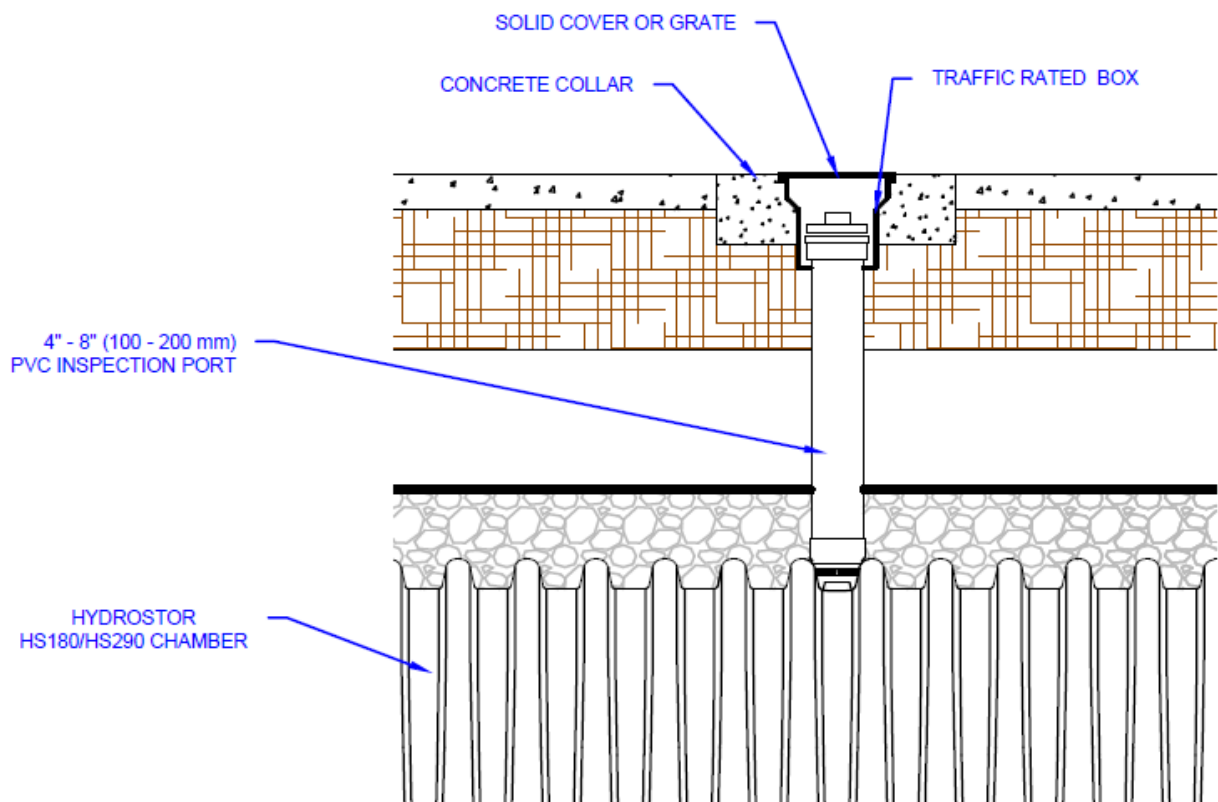


Figure 18 - Inspection Ports

Chamber Backfill Requirements

The backfilling process is critical to ensure long-term, trouble-free operation of the chamber system. The backfill and chambers function together as a structural system to support the soil overburden and vehicular live loads. Therefore, proper backfill material selection and placement is critical. Refer to Table 2 for acceptable backfill material selection.

Table 2 – Acceptable Backfill Materials*

Fill Material Location	Material Description	AASHTO M43 Designation
[D]* Final Backfill - Fill material for Layer D starts at the top of the C layer to the bottom of the pavement or to the finished grade of an unpaved surface. The pavement sub-base may be part of the final backfill.	Any backfill which provides adequate subgrade for the project per the engineer's plans. Plans shall indicate subgrade requirements.	N/A
[C]* Initial Backfill - Material for layer C starts at the top of the embedment zone (layer B) and continues to 450 mm and 600 mm for the HS180 and HS290 chamber, respectively, above the top of the chamber. The pavement sub-base may be part of the initial backfill layer.	Well graded granular material, <35% fines.	AASHTO M45 A-1, A-2, A-3 or AASHTO M43 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10
[B]* Embedment Stone - Embedment stone will surround the chambers and extends from the top of the foundation stone (layer A) to the bottom of the fabric layer.	19 to 51 mm clean, crushed, angular stone.	AASHTO M43 3, 357, 4, 467, 5, 56, 57
[A]* Foundation Stone - Foundation Stone extends from the subgrade to the foot of the chambers.	19 to 51 mm clean, crushed, angular stone.	AASHTO M43 3, 357, 4, 467, 5, 56, 57

*Reference Figure 19

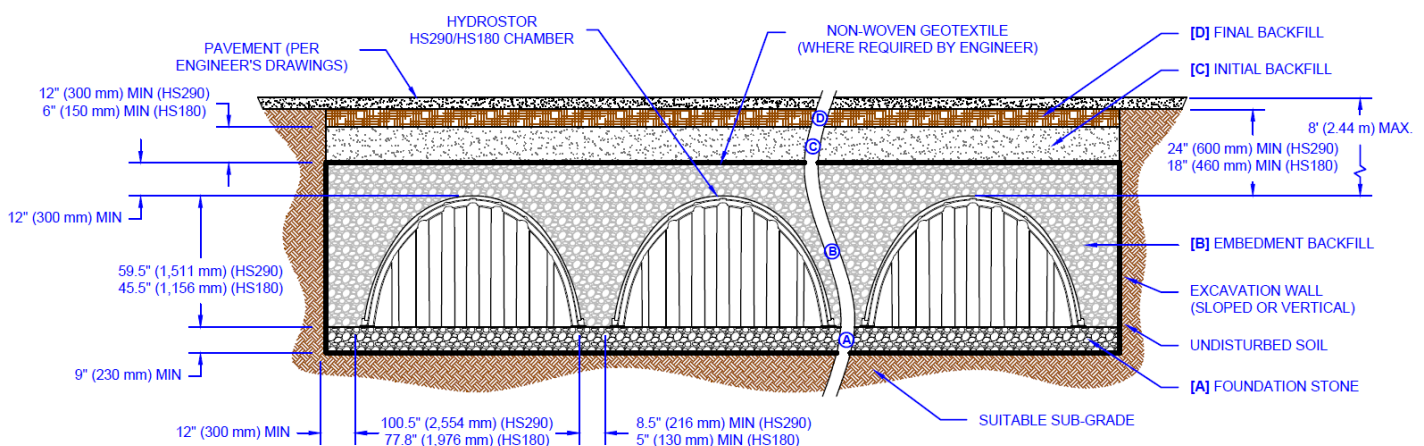


Figure 19 - Chamber Cross Section

Backfill material used for embedment, anchoring and for surrounding areas should comprise of a 19-51 mm, clean, crushed angular stone. Placement of backfill material for embedment and surrounding areas is best accomplished by using the long reach of an excavator or stone shooter/conveyor system. **No construction equipment shall be situated on top of the chamber system without the minimum embedment backfill placed over the chambers (300 mm for HS180 and HS290 chambers).** Compaction of the crushed stone around the chambers is not required, however, it is critical to ensure that the backfill is adequately knifed in around the manifolds and between the chamber corrugations.

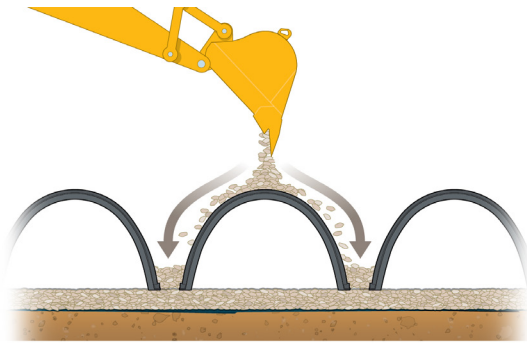


Figure 20 - Backfill Placement with Excavator

In order to prevent chamber shifting and to maintain the appropriate row spacing (130 mm for HS180, 216 mm for HS290), carefully deposit the stone evenly along the centerline of the chamber, allowing the stone depth between the rows to rise equally. During this phase, stone height between rows should not differ by more than 300 mm at any time.

After the anchoring phase is complete, stone placement may continue to surround the chambers and around the perimeter. The embedment backfill stone should fully encompass the chambers and should continue over the top the chamber crown to a minimum height of 300 mm for the HS180 and HS290 chambers. The backfill should also extend evenly from the chambers to the sidewalls of the excavation.

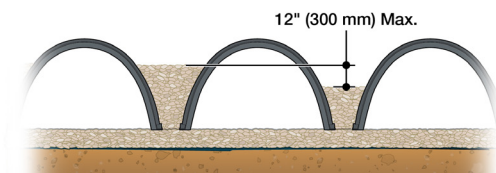


Figure 21 - Embedment Stone Placement

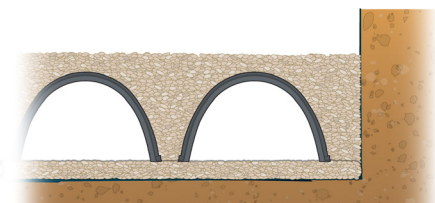
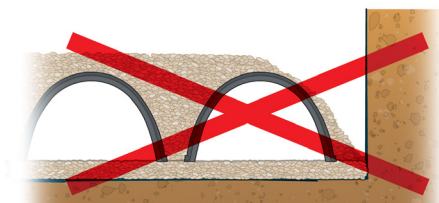


Figure 22 - Perimeter Backfill Placement



After the required embedment backfill thickness has been placed on top of the chambers (300 mm for HS180 and HS290), a small light weight tracked dozer (CAT® D4 or smaller) with ground pressure less than 4.5 psi (31 kPa) may be used to finalise the grading of cover stone. Stone must be pushed parallel to the chamber rows at all times.

Wheel and Roller Loads are Not Allowed.

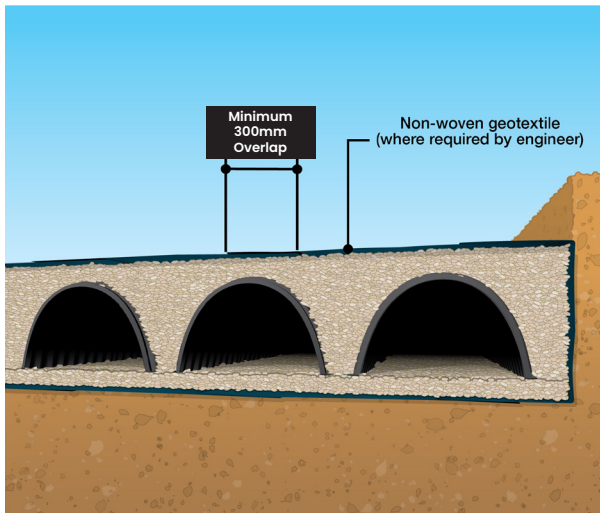


Figure 23 - Filter Fabric over Top of Chambers

After the embedment backfill has been evenly spread over the top of the chambers, the entire top of the stone bed should be covered with a layer of AASHTO M288 Class 2 or 3 non-woven fabric. All seams should be overlapped a minimum of 600 mm.

Utilising an excavator positioned next to the chamber rows, the initial backfill can now be placed over top of the fabric. After the minimum required initial backfill over top of the chambers has been placed (total cover of 460 mm for HS180 and 600 for HS290), compaction of the backfill may begin. It

is recommended that the compaction equipment travels parallel with chamber rows. Refer to Table 3 for Backfill Compaction Recommendations and to Table 4 for the maximum allowable construction loads.

Table 3 - Backfill Placement & Compaction Recommendations*

Fill Material Location	Placement Methods / Restrictions	HS180 & HS290 Compaction Requirements
[D] Final Backfill	A variety of placement methods may be used. All construction loads must not exceed the limits in Table 4.	Subgrade will be placed and compacted to the requirements as shown on the site plans.
[C] Initial Backfill	Use of an excavator positioned off bed is recommended. Small excavators and small dozers may be allowed based on the information in Table 4.	Compaction will not begin until a minimum 450 mm and 600 mm for the HS180 and HS290 chamber, respectively, of material is placed over the chambers. Additional layers shall be compacted in 300 mm lifts to a minimum of 95% standard proctor density for well graded material.
[B] Embedment Stone	No equipment is allowed on bare chambers. Use excavator or stone conveyor positioned off bed to evenly place the backfill around and on top of all of the chambers.	No compaction required.
[A] Foundation Stone	Placement with a variety of equipment is acceptable to provide a stable, level base.	Placed in 230 mm lifts and compacted with a vibratory roller.

*Reference Figure 19

Minimum and Maximum Cover Heights

A minimum of 460 mm of cover for the HS180 and 600 mm of cover for the HS290 chamber measured from the top of the chambers to the bottom of pavement, is recommended for H-20 vehicle loading. If pavement is not to be used, the cover should be increased to a minimum of 600 mm of cover for the HS180 chamber and 750 mm of cover for the HS290 chamber for H-20 vehicular loading.

If the chambers will experience loading from construction equipment while the project is still being constructed, temporary fill may be placed over the system during construction and removed after the heavy construction equipment traffic is rerouted. Refer to Table 4 for maximum allowable construction vehicle loads at various backfill depths.

The maximum burial depth for HS180 & HS290 chambers is 2.44 m. The cover height is measured from the top of the chambers to the top of the pavement or final backfill layer if pavement is not present.

Table 4 - Maximum Allowable Construction Vehicle Loads*

Material Location	Fill Depth above chambers (in.)	Max Allowable Wheels Loads		Max Allowable Track Loads		Max Allowable Roller Loads
		Max Axle Load for Trucks lbf (kN)	Max Wheel Load for Loaders lbf (kN)	Track Width in (mm)	Max Ground Pressure psf (kPa)	Max Drum Weight Dynamic Force lbf (kN)
[D] FINAL FILL MATERIAL	36" (900) COMPACTED	32,000 (142)	16,000 (71)	12" (300)	3,420 (163.75)	38,000 (169)
				18" (450)	2,350 (112.52)	
				24" (600)	1,850 (88.58)	
				30" (750)	1,510 (72.30)	
				36" (900)	1,310 (62.72)	
[C] INITIAL FILL	24" (600) COMPACTED	32,000 (142)	16,000 (71)	12" (300)	2,480 (118.74)	20,000 (89)
				18" (450)	1,770 (84.75)	
				24" (600)	1,430 (68.47)	
				30" (750)	1,210 (57.94)	
				36" (900)	1,070 (51.23)	
	24" (600) DUMPED	24,000 (107)	12,000 (53)	12" (300)	2,245 (107.49)	HS180/HS290: 16,000 (71) Gross weight of roller not to exceed 12,000lbs (5,443 kg)
				18" (450)	1,625 (77.81)	
				24" (600)	1,325 (63.44)	
				30" (750)	1,135 (54.34)	
				36" (900)	1,010 (48.36)	
	18" (450)	24,000 (107)	12,000 (53)	12" (300)	2,010 (96.24)	HS180/HS290: 5,000 (22) Gross weight of roller not to exceed 12,000lbs (5,443 kg)
				18" (450)	1,480 (70.86)	
				24" (600)	1,220 (58.41)	
				30" (750)	1,060 (50.75)	
[B] EMBEDMENT ZONE	12" (300)	NOT ALLOWED	NOT ALLOWED	12" (300)	HS180/HS290: 1,100 (52.67)	NOT ALLOWED
				18" (450)	HS180/HS290: 715 (34.23)	
				24" (600)	HS180/HS290: 660 (31.60)	
				30" (750)	HS180/HS290: 580 (27.77)	
	6" (150)	NOT ALLOWED	NOT ALLOWED	12" (300)	HS180/HS290: NOT ALLOWED	NOT ALLOWED
				18" (450)	HS180/HS290: NOT ALLOWED	
				24" (600)	HS180/HS290: NOT ALLOWED	
				30" (750)	HS180/HS290: NOT ALLOWED	

*Reference Figure 19



When it comes to stormwater chambers, the road from good to great leads directly to HydroStor®, the industry's highest performing chambers. They meet or exceed proven ASTM structural, design and product standards, while including features that matter to the designer and installer.

HS180

9" (230 mm) minimum	foundation	9" (230 mm) minimum
5" (130 mm)	chamber spacing	8.5" (216 mm)
77.8" (1,976 mm)	chamber width	100.5" (2,554 mm)
12" (300 mm)	backfill at edge of system	12" (300 mm)
45.5" (1,156 mm)	chamber height	59.5" (1,511 mm)
18" (460 mm)	minimum cover	24" (600 mm)
8' (2.44 m)	maximum burial depth	8' (2.44 m)

HS290

Available Sizes



HS180

176.0 ft ³ (5.0 m ³)/chamber	Installed Storage Capacity*	164.5 ft ³ (4.64m ³)/chamber
45.5" (1,156 mm)	Height	59.5" (1,511 mm)
77.8" (1,976 mm)	Width	100.5" (2,554 mm)
88.7" (2,253 mm)	Length	51.8" (1,317 mm)
Integrated Handles	Special Features	Integrated Handles
Meets or Exceeds	ASTM Standards	Meets or Exceeds



HS290

Performance

- High performance polypropylene material
- Meets or exceeds **ASTM F2418** product standard & **ASTM F2787** design standard
- Meets **AASHTO H20** live load & **HL93** design load requirements
- Advanced injection molding technology for maximum structural performance

The HydroStor **HS180** stores 25 ft³ of stormwater per linear foot (2.3 m³ per linear meter) or about 180 ft³ (5.1 m³) per chamber, and is designed for high-volume projects

The HydroStor **HS290** stores 41 ft³ of stormwater per linear foot (3.75 m³ per linear meter) or 164 ft³ (4.65 m³) per chamber, and is designed for high-volume projects.

Tricel's HydroStor chambers meet rigorous ASTM standards and include value-added design features that take this new chamber option from good to great.



For more information or to receive a quote, contact your Tricel's representative.

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In accordance with Tricel's normal policy of product development these specifications are subject to change without notice.