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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 be 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 72” (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 HS75 chambers with up to 33 stacked chambers on a pallet. Unloading of the chambers pallets should be done with a forklift with a minimum of 72” (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.

**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.
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.

![Excavation Footprint for Chambers](image)

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 non-woven filter fabric (minimum 4 or 6 oz/yd² (136 or 203 g/m²) is recommended) for the separation layer on the bed bottom and up and along the sidewalls. Refer to Table 1 for suitable geotextile options. Other geotextile options may be acceptable and should be approved by the design engineer. Maintain a 24” (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 12” (300 mm) for HS180 and 6” (150 mm) for HS75 chambers).

<table>
<thead>
<tr>
<th>Geotextile Specification</th>
<th>AASHTO M288 Class 2 Non-woven Separation &amp; Filtration</th>
<th>AASHTO M288 Class 1 Woven Stabilization &amp; Scour Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geotextile Placement</td>
<td>Separation Layer between angular stone and in-situ soil to prevent fines intrusion.</td>
<td>Stabilization Layer under Sediment Row &amp; Scour Protection Layer</td>
</tr>
<tr>
<td>Recommended Geotextile Weights</td>
<td>4 oz/yd² (136 g/m²) or heavier for embedment backfill sized ¾” – 1 ½” (19-38 mm), Minimum 6 oz/yd² (203 g/m²) for embedment backfill sized 1 ½” – 2” (38-51 mm).</td>
<td>Minimum 6 oz/yd² (203 g/m²) used for all</td>
</tr>
</tbody>
</table>

Table 1 - Suitable Geotextiles

![Figure 6 - Filter Fabric Installation](image-url)
After the fabric has been laid out, place a level foundation of ¾”-2” (19-51 mm) washed, crushed, angular stone over the entire excavated bottom. **The foundation thickness shall be a minimum of 9” (230 mm) for the HS180 chamber and a minimum of 6” (150 mm) for the HS75.** 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.

If specified on the project plans, the perimeter underdrain piping may be laid at this point. The perimeter underdrain is to be installed around the chamber system and should not be placed under a chamber footing. Refer to the Perimeter Drain Detail Drawing for more information about perimeter drain installation.
Inlet Manifold Assembly and Chamber Placement

Upstream of the chamber system, an inlet structure should be installed. This structure will divert the water through a pre-treatment system, such as a Prinsco Stormwater Quality Unit (SWQU) 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 Prinsco 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.

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.

Figure 9 - Inlet Manifold Options

Figure 10 - Inlet Scour Protection
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 12” (300 mm) into the end cap.

Repeat this process for each row. Cover any open void spaces greater than ¾” (19 mm) on the end caps with a non-woven geotextile to prevent infiltration of the backfill material.

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.

Maintaining an 8” (200 mm) minimum clear space for the HS180 and a 6” (150 mm) minimum clear space for the HS75 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.

![Outlet Manifold Configuration](image)
Pre-treatment / Sediment Row
Considering chambers have open bottoms, it is essential to utilize 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. Prinsco recommends pretreatment of the stormwater runoff by using either a water treatment device such as the Prinsco 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 Prinsco’s SWQUs should be installed upstream of the chamber system to treat the initial stormwater runoff before it reaches the chamber system. Prinsco offers several standard units and also has the ability to customize units to meet the job specific requirements. Refer to Prinsco’s SWQU Product Detail & Bypass Detail for more information.

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 Prinsco’s standard Sediment Row detail.

- Two strips (7.5’ (2.29 m) wide for the HS180 and 5’ (1.52 m) wide for the HS75) 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 24” (600 mm) diameter pipe be used to allow access to the sediment row for maintenance procedures. Note that a pipe adapter is required to make the connection to the end cap of HS75 systems.

- 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 4" (100 mm) vent/inspection port may be placed in the valley between the corrugations. The HS75 chamber is equipped with a circular cut out point in the center of the chamber to accommodate a 4" (100 mm) diameter inspection port.

Using a hole saw, cut out the opening at the appropriate location. A tap tee 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](image-url)
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>
<thead>
<tr>
<th>Fill Material Location</th>
<th>Material Description</th>
<th>AASHTO M43 Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>[D] Final Backfill</strong>- 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.</td>
<td>Any backfill which provides adequate subgrade for the project per the engineer's plans. Plans shall indicate subgrade requirements.</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>[C] Initial Backfill</strong>- Material for layer C starts at the top of the embedment zone (layer B) and continues to 24&quot; (600 mm) above the top of the chamber for the HS180 and 18&quot; (450 mm) for the HS75. The pavement sub-base may be part of the initial backfill layer.</td>
<td>Well graded granular material, &lt;35% fines.</td>
<td>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</td>
</tr>
<tr>
<td><strong>[B] Embedment Stone</strong>- Embedment stone will surround the chambers and extends from the top of the foundation stone (layer A) to the bottom of the fabric layer.</td>
<td>3/4&quot; to 2&quot; (19 to 51 mm) washed, crushed, angular stone.</td>
<td>AASHTO M43 3, 357, 4, 467, 5, 56, 57</td>
</tr>
<tr>
<td><strong>[A] Foundation Stone</strong>- Foundation Stone extends from the subgrade to the foot of the chambers.</td>
<td>3/4&quot; to 2&quot; (19 to 51 mm) washed, crushed, angular stone.</td>
<td>AASHTO M43 3, 357, 4, 467, 5, 56, 57</td>
</tr>
</tbody>
</table>

Table 2 – Acceptable Backfill Materials*

*Reference Figure 19

Figure 19 - Chamber Cross Section
Backfill material used for embedment, anchoring and for surrounding areas should comprise of a $\frac{3}{4}$-2” (19-51 mm), washed, 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 (12” (300 mm) for HS180 & 6” (150 mm) for HS75).** 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.

In order to prevent chamber shifting and to maintain the appropriate row spacing (8” (200 mm) for HS180, 6” (150 mm) for HS75), 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 12” (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 12” (300 mm) for the HS180 chambers and 6” (150 mm) for the HS75 chambers. The backfill should also extend evenly from the chambers to the sidewalls of the excavation.

After the required embedment backfill thickness has been placed on top of the chambers (12” (300 mm) for HS180 & 6” (150 mm) for HS75), a small light weight tracked dozer (CAT® D4 or smaller) with ground pressure less than 4.5 psi (31 kPa) may be used to finalize the grading of cover stone. Stone must be pushed parallel to the chamber rows at all times.

**Wheel and Roller Loads are Not Allowed.**
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 4 or 6 oz/yd² (136 or 203 g/m²) non-woven fabric. All seams should be overlapped a minimum of 24” (600 mm).

Utilizing 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 23.5” (590 mm) for HS180 & 18” (450 mm) for HS75), 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>
<thead>
<tr>
<th>Fill Material Location</th>
<th>Placement Methods / Restrictions</th>
<th>HS180 Compaction Requirements</th>
<th>HS75 Compaction Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>[D] Final Backfill</td>
<td>A variety of placement methods may be used. All construction loads must not exceed the limits in Table 4.</td>
<td>Subgrade will be placed and compacted to the requirements as shown on the site plans.</td>
<td>Subgrade will be placed and compacted to the requirements as shown on the site plans.</td>
</tr>
<tr>
<td>[C] Initial Backfill</td>
<td>Use of an excavator positioned off bed is recommended. Small excavators and small dozers may be allowed based on the information in Table 4.</td>
<td>Compaction will not begin until a minimum of 24” (600 mm) of material is placed over the chambers. Additional layers shall be compacted in 12” (300 mm) lifts to a minimum of 95% standard proctor density for well graded material.</td>
<td>Compaction will not begin until a minimum of 12” (300 mm) of material is placed over the chambers. Additional layers shall be compacted in 6” (150 mm) lifts to a minimum of 95% standard proctor density for well graded material. Roller gross vehicles are not to exceed 12,000 lbs. (5,443 kg) and dynamic force not to exceed 20,000 lbf (88.96 kN).</td>
</tr>
<tr>
<td>[B] Embedment Stone</td>
<td>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.</td>
<td>No compaction required.</td>
<td>No compaction required</td>
</tr>
<tr>
<td>[A] Foundation Stone</td>
<td>Placement with a variety of equipment is acceptable to provide a stable, level base.</td>
<td>Placed in 9” (230 mm) lifts and compacted with a vibratory roller.</td>
<td>Placed in 6” (150 mm) lifts and compacted with a vibratory roller.</td>
</tr>
</tbody>
</table>

Table 3 - Backfill Placement & Compaction Recommendations*

*Reference Figure 19
Minimum and Maximum Cover Heights
A minimum of 23.5" (590 mm) of cover for the HS180 chamber & 18" (450 mm) for the HS75 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 30" (750 mm) of cover for HS180 chambers and 24" (600 mm) of cover for HS75 chambers 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 & HS75 chambers is 8 ft (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>
<thead>
<tr>
<th>Material Location</th>
<th>Fill Depth above chambers (in.)</th>
<th>Max Allowable Wheels Loads</th>
<th>Max Allowable Track Loads</th>
<th>Max Allowable Roller Loads</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Max Axle Load for Trucks lbf (kN)</td>
<td>Max Wheel Load for Loaders lbf (kN)</td>
<td>Track Width in (mm)</td>
</tr>
<tr>
<td>[D] FINAL FILL MATERIAL</td>
<td>36&quot; (900) COMPACTED</td>
<td>32,000 (142)</td>
<td>16,000 (71)</td>
<td>12&quot; (300)</td>
</tr>
<tr>
<td>[C] INITIAL FILL</td>
<td>24&quot; (600) COMPACTED</td>
<td>24,000 (107)</td>
<td>12,000 (53)</td>
<td>12&quot; (300)</td>
</tr>
<tr>
<td>[B] EMBEDMENT ZONE</td>
<td>12&quot; (300) NOT ALLOWED</td>
<td>NOT ALLOWED</td>
<td>NOT ALLOWED</td>
<td>12&quot; (300)</td>
</tr>
<tr>
<td>[B] EMBEDMENT ZONE</td>
<td>6&quot; (150) NOT ALLOWED</td>
<td>NOT ALLOWED</td>
<td>NOT ALLOWED</td>
<td>12&quot; (300)</td>
</tr>
</tbody>
</table>

Table 4 - Maximum Allowable Construction Vehicle Loads*

*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.

**Performance**
- High performance polypropylene material
- Meets or exceeds ASTM F2618 product standard & ASTM F2787 design standard
- Meets AASHTO H20 live load & HL93 design load requirements
- Advanced injection molding technology for maximum structural performance

**Available Sizes**

**HS180**
- 11.5" (290 mm) minimum base height
- 9" (229 mm) minimum foundation
- 8" (203 mm) minimum chamber spacing
- 77.5" (1,970 mm) chamber width
- 12" (305 mm) base/height of system
- 45.5" (1,156 mm) chamber height
- 23.5" (597 mm) minimum cover
- 8" (203 mm) maximum burial depth

**HS75**
- 8" (203 mm) minimum base height
- 6" (152 mm) minimum foundation
- 6" (152 mm) minimum chamber spacing
- 54" (1,372 mm) chamber width
- 12" (305 mm) base/height of system
- 29.7" (754 mm) chamber height
- 18" (457 mm) minimum cover
- 8" (203 mm) maximum burial depth

**MOBILE RESOURCES**
- More about HydroStor
- Installation Videos
- Installation Guides
- Specifications
- Technical Notes

Prinsco.com/HydroStor-Resources

**ENGINEERED WITH INTEGRITY**

Prinsco products are fully supported by our engineering team and are designed, manufactured and tested to meet/exceed the high performance needs of the construction market. Prinsco's engineering, quality control and production teams are committed to a continuous process of innovation, product development and quality improvement. We are focused on environmental sustainability, water quality, stormwater management and performance advancement.

**COLLECTION & CONVEYANCE**
- GOLD Flo Flow: High Performance Recycled Dual Wall Pipe

**TREATMENT**
- STORMWATER QUALITY: Engineered Water Treatment

**STORAGE**
- HYDROSTOR™ High Performance chamber

**UNDERGROUND DETENTION**
- Controlled High Performance Pipe System