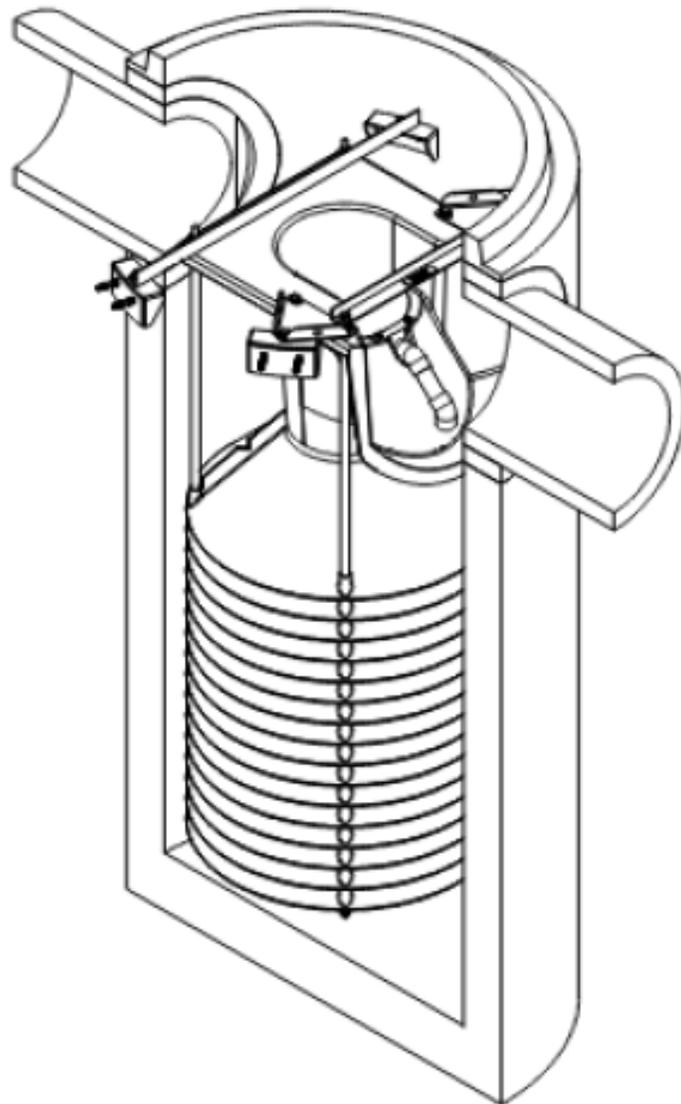


Hydro-Shield[®] Advance

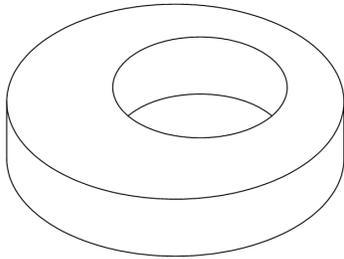
Handling and Installation Instructions



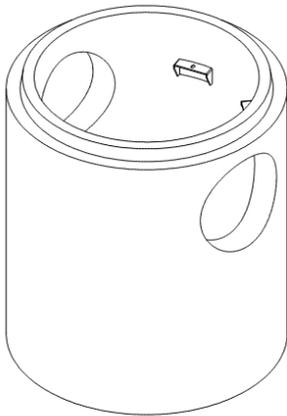
Hydro-Shield® Advance

Handling and Installation Instructions

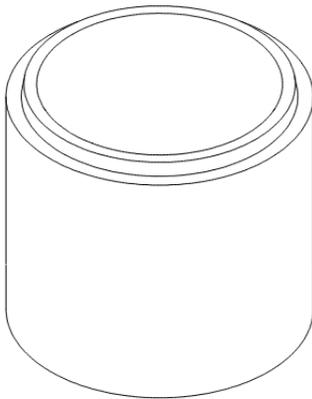
Materials Supplied by Oldcastle Infrastructure



4 ft./ 6 ft Diameter top slab



4 ft./ 6 ft. Diameter top riser(s) as necessary per site requirements with pre-installed Ledger Support Brackets (see Submittal Drawings)

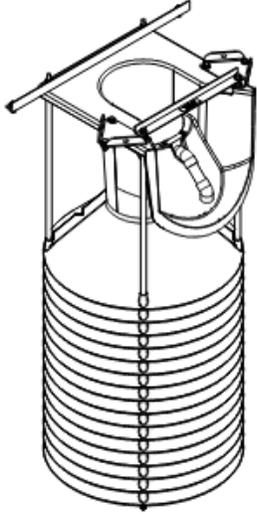


4 ft./ 6 ft. Diameter base consisting of either a bottom slab and riser or a single monolithic base section

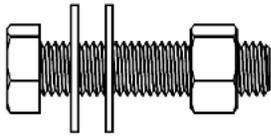
Hydro-Shield® Advance

Handling and Installation Instructions

Materials Supplied by Oldcastle Infrastructure



- 4 ft. / 6 ft diameter Hydro-Shield® Advance internal components



- - A-304 SS 5/8 in.-11 UNC x 2 3/4 in. Fully Threaded Bolt
 - A-304 SS 5/8 in. x 1-3/4 in. Flat/Fender Washer (x2)
 - A-304 SS 5/8 in. Lock Washer
 - A-304 SS 5/8 in.-11 UNC Hex Nut
 - x4 included for securing support frame to ledger angles



Joint Sealant



Sealant

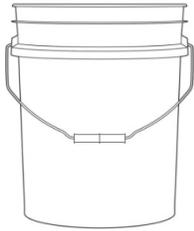


30 in. Frame/Grate/Cover

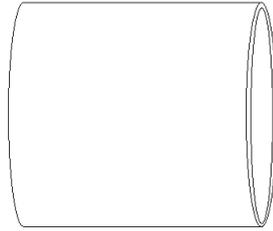
Hydro-Shield® Advance

Handling and Installation Instructions

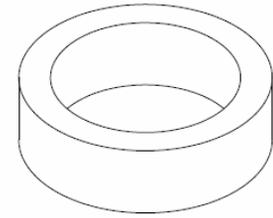
Materials Supplied by Contractor



Non-Shrinking Grout



Inlet/Outlet Pipes



Applicable Grade Rings/
Brick and Mortar

Handling and Storage

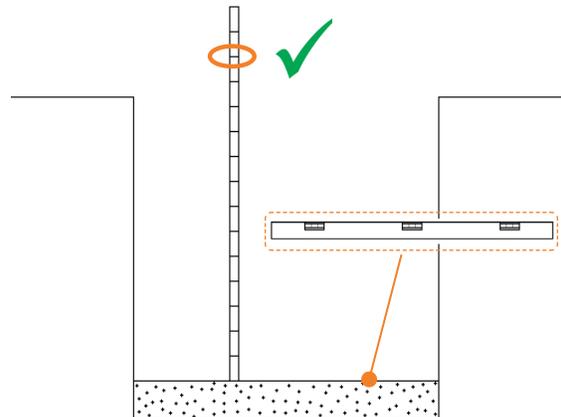
Hydro-Shield® Advance internal components are manufactured utilizing highly durable thermoplastics (High-density polyethylene); however, improper handling may result in damage to components and accessories. Failure to comply with handling, and installation instructions voids all warranties.

1. Upon delivery of the **Hydro-Shield® Advance** components, inspect immediately for defects or shipping damage. If any discrepancies are found, notify Oldcastle Infrastructure prior to unloading to initiate corrective action. Unloading of a damaged unit without notifying Oldcastle Infrastructure voids all warranties and releases liability of costs to repair or replace from Oldcastle Infrastructure and places onto the contractor.
2. At all times during unloading and installation, avoid unnecessary and extreme impacts to the internal components. All components shall be handled with firm and complete support. At no time shall anyone step, stand, or otherwise place an unnecessary load, on the components.
3. The **Hydro-Shield® Advance** shall be installed as soon after delivery as practical. Pending installation, all components shall be protected from ultraviolet light, vandalism, and impact.

Installation

Step 1

Excavation shall be prepared prior to installation and shall meet all applicable specifications for standards of construction. A sufficient sub-base of compacted stone, leveled and at correct elevation, is required at minimum.

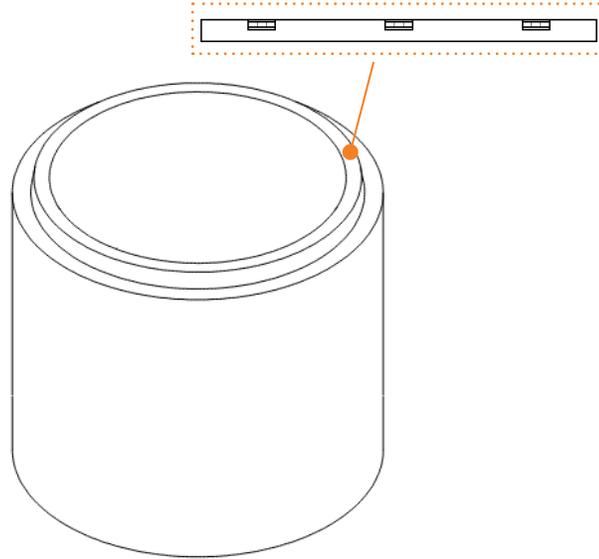


Hydro-Shield[®] Advance

Handling and Installation Instructions

Step 2

Install the Hydro-Shield[®] Advance precast base in properly prepared excavation. Base must be level prior to installation of successive risers.



Step 3

Install successive risers, cleaning joints and placing supplied joint sealant per specifications. Ensure that the riser with ledger angle brackets is positioned correctly. Since the brackets are not symmetrical, there is a potential for backward installation. Refer to the project submittal to confirm the proper positioning of the brackets. Correctly installed ledger angles should appear physically closer to the outlet block-out. Do not install precast lid. Grout pick holes, if applicable, with watertight non-shrink grout.

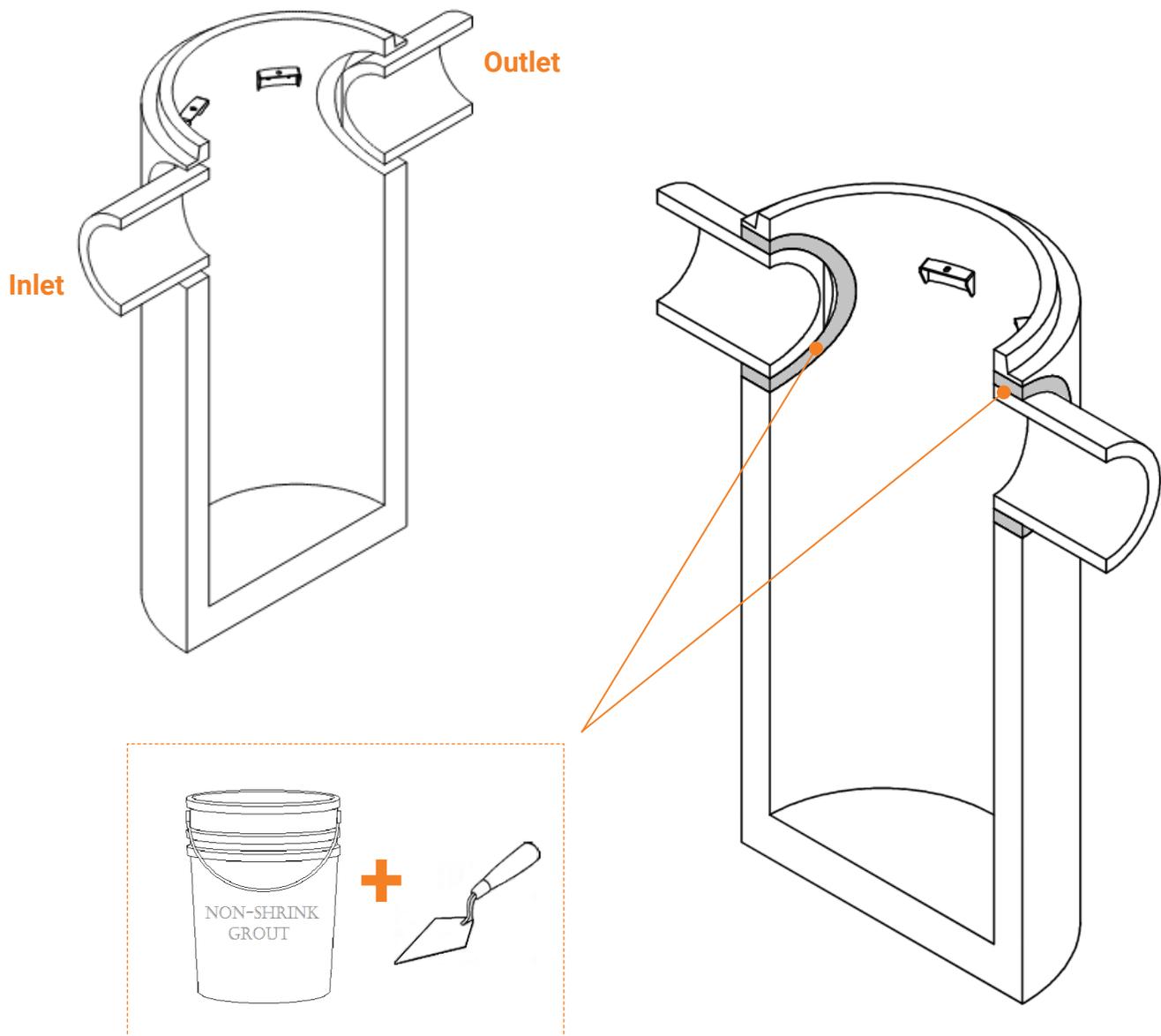


Hydro-Shield® Advance

Handling and Installation Instructions

Step 4

Run inlet and outlet pipes through and **centered** in respective blockout. Seal the area between the perimeter of each pipe and the respective blockout with non-shrink grout. Cut the ends of each pipe flush with the interior precast wall. Also ensure grout on the interior is finished to a uniform, smooth surface flush with precast wall. **No pipe shall protrude and no grout shall spill inside the unit.**

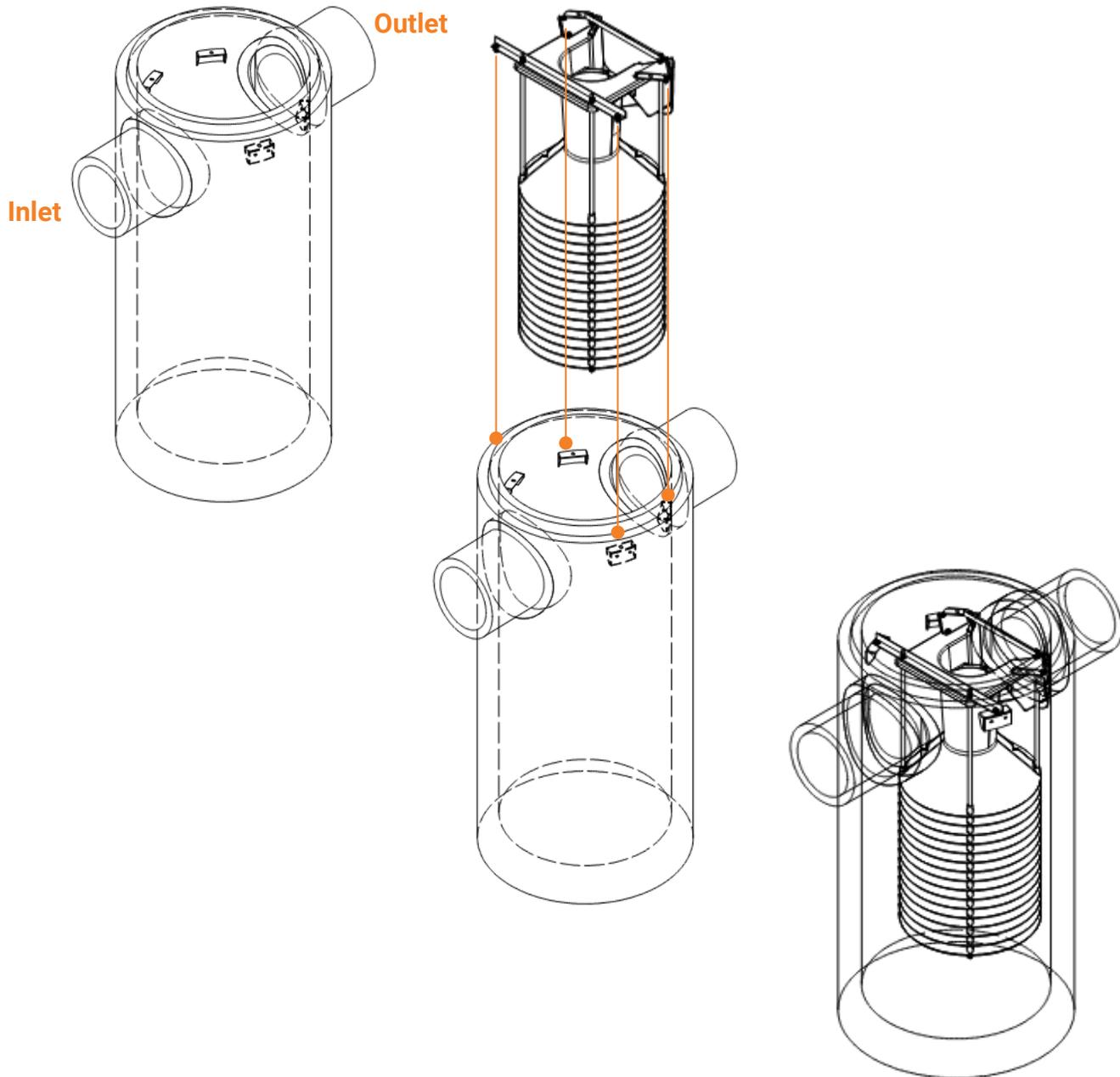


Hydro-Shield® Advance

Handling and Installation Instructions

Step 5

Using the lifting points on the support frame, carefully lower the Hydro-Shield® Advance internal components onto the stainless steel ledger angles attached to the interior wall of the precast chamber. Attach the support frame/brackets to the ledger angles using supplied number of stainless steel bolts, flat washers, lock washers and nuts.

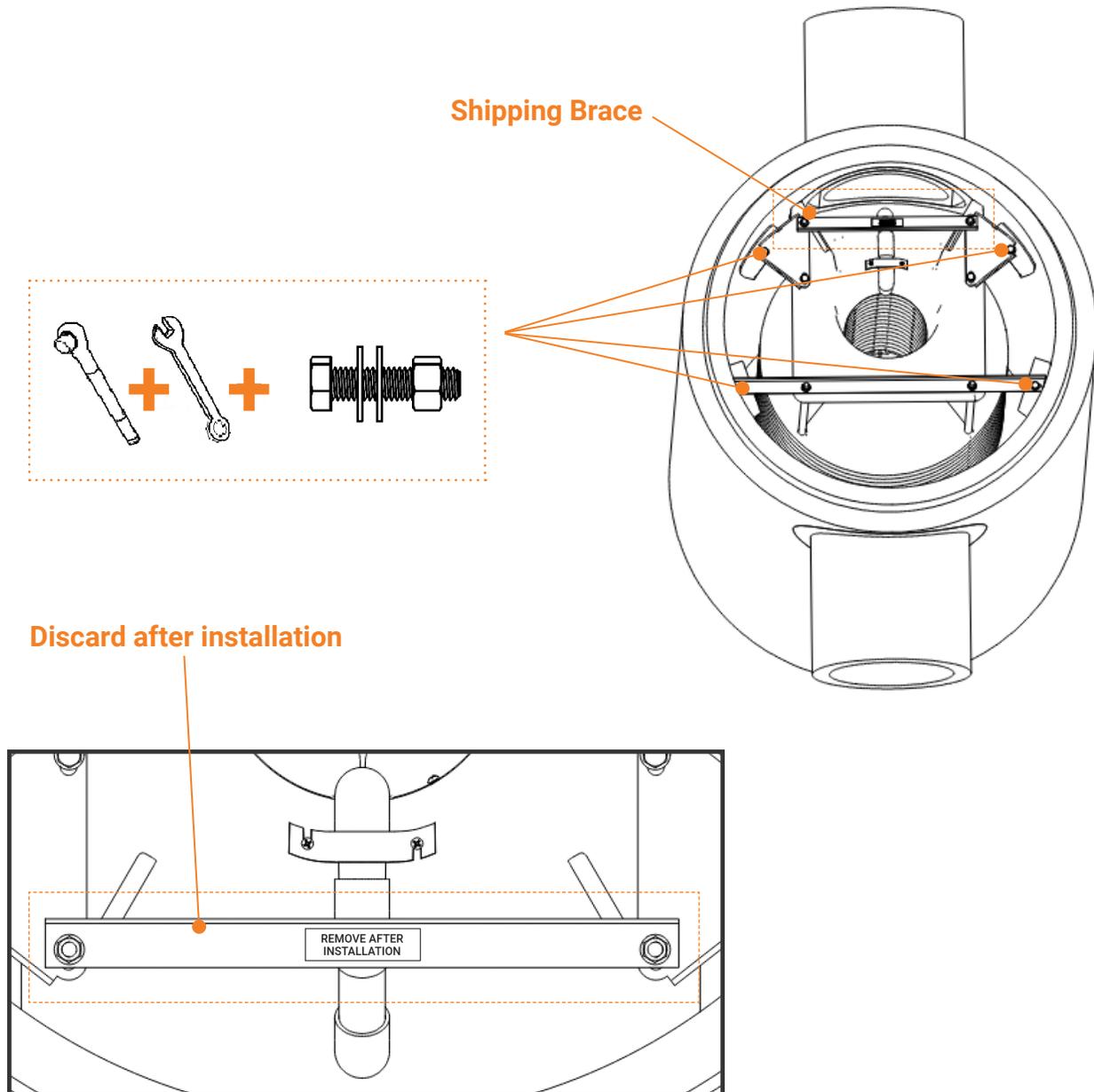


Hydro-Shield[®] Advance

Handling and Installation Instructions

Step 6

Attach the support frame/brackets to the ledger angles using supplied number of 5/8 in. stainless steel bolts, flat washers, lock washers and nuts. Once assembly is secured, remove outlet side Shipping Brace and discard.

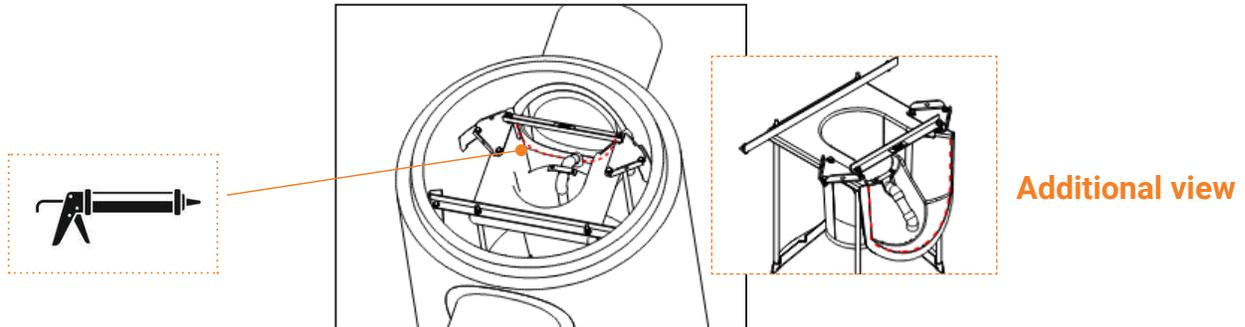


Hydro-Shield[®] Advance

Handling and Installation Instructions

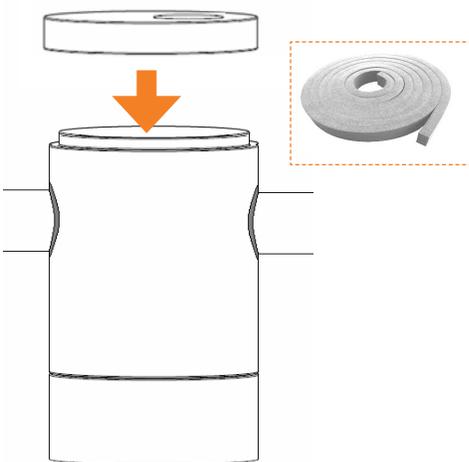
Step 7

Using the provided sealant, apply a continuous bead along the joint where the inside of the outlet module meets the interior wall of the manhole. Ensure the bead is even and fully covers the seam to prevent any gaps. Allow the sealant to cure as per the manufacturer's instructions



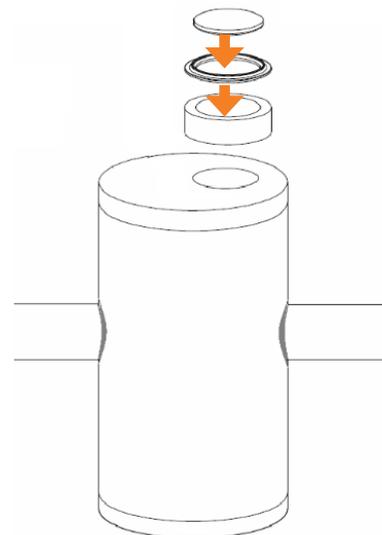
Step 8

Prepare the uppermost riser by applying the supplied joint sealer to all mating surfaces. Securely install the precast top slab, ensuring proper alignment and a watertight seal.



Step 9

Install the frame and cover in accordance with standard septic construction practices, ensuring proper adjustment to grade. Carefully backfill around the unit, ensuring stability and avoiding damage to the structure.





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