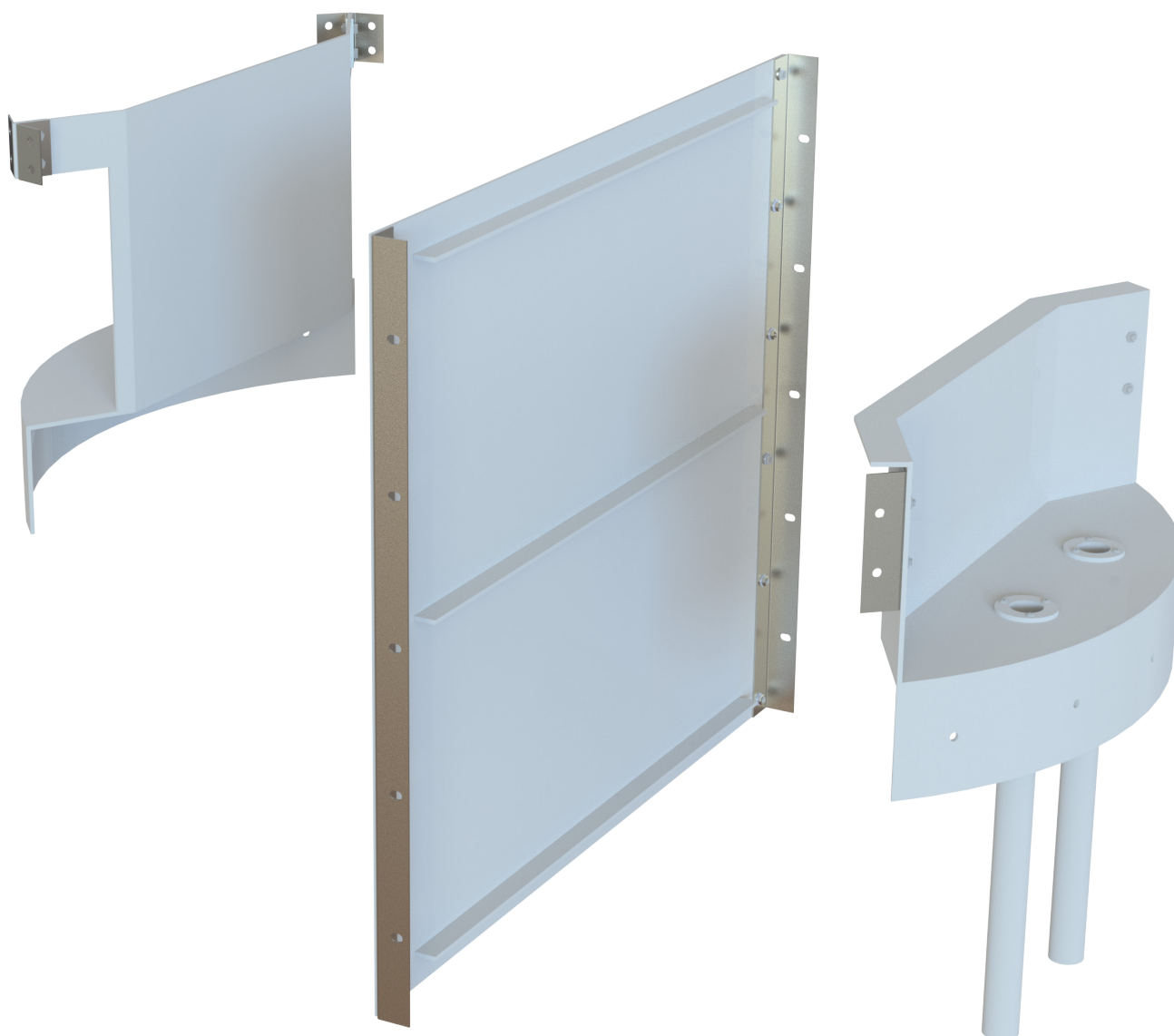


SCICLONEX™ SEPARATOR

Internals Installation Manual



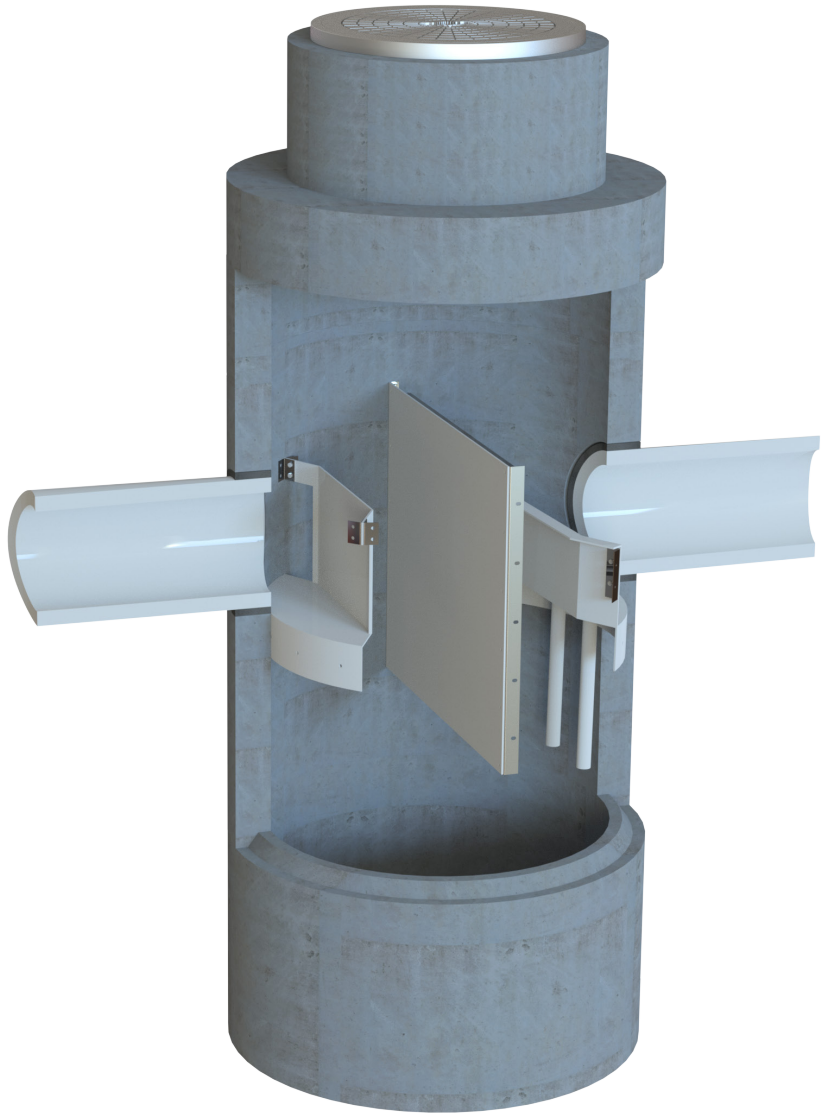
Play Setup Video



English

INTRODUCTION

This is the Bio Clean SciCloneX™ Separator internals installation manual. Before starting, make sure that there is enough room for installing and assembling the product. Inspect all materials for defects and gather the recommended tools listed on the following page. The contractor shall furnish all labor, equipment, materials, and incidentals required to install the SciCloneX™ and appurtenances in accordance with the contract documents. Any damage to the existing drainage structure (retrofit applications) or surrounding infrastructure that may need to be repaired to allow for proper installation of the SciCloneX™ Separator shall be considered incidental and to be paid for at no cost to the client. Bio Clean offers installation services in certain areas. Please contact Bio Clean for more information on pre-authorized third party contractors who can provide installation services in your area.



WARRANTY

Bio Clean provides a 1 year product warranty against defects in materials and workmanship from the date of purchase. Please contact Bio Clean support for more information.

TOOLS CHECKLIST

Ensure that the following parts are included. These are crucial components for assembly.



Caulking Gun



1/4" Masonry Drill Bit



Impact Wrench 7/16" & 9/16"
Diameter Socket x1



Measuring Tape



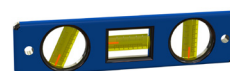
Rotary Hammer Drill-3/8" Drill Bit



Sledge Hammer



Marker



Hand Level



Impact Wrench w/ 3/8"
Diameter Socket



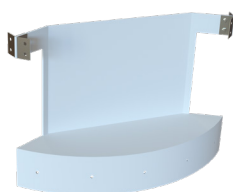
Silicon RTV 7500
Sealant (Or Equal)



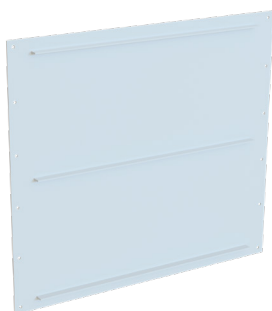
Electrical
Tape

PARTS CHECKLIST

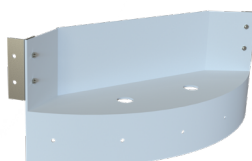
Core parts are detailed below. Configurations may vary depending on the pipe configuration of the manhole. In large diameter SciClones, the baffle wall is concrete.



Inlet Wall



Baffle Wall



Outlet Wall



2" x 3" L-Channel



Low-Flow
Down Pipes

HARDWARE

Hardware included with Bio Clean SciClone^X™ Separator listed below.



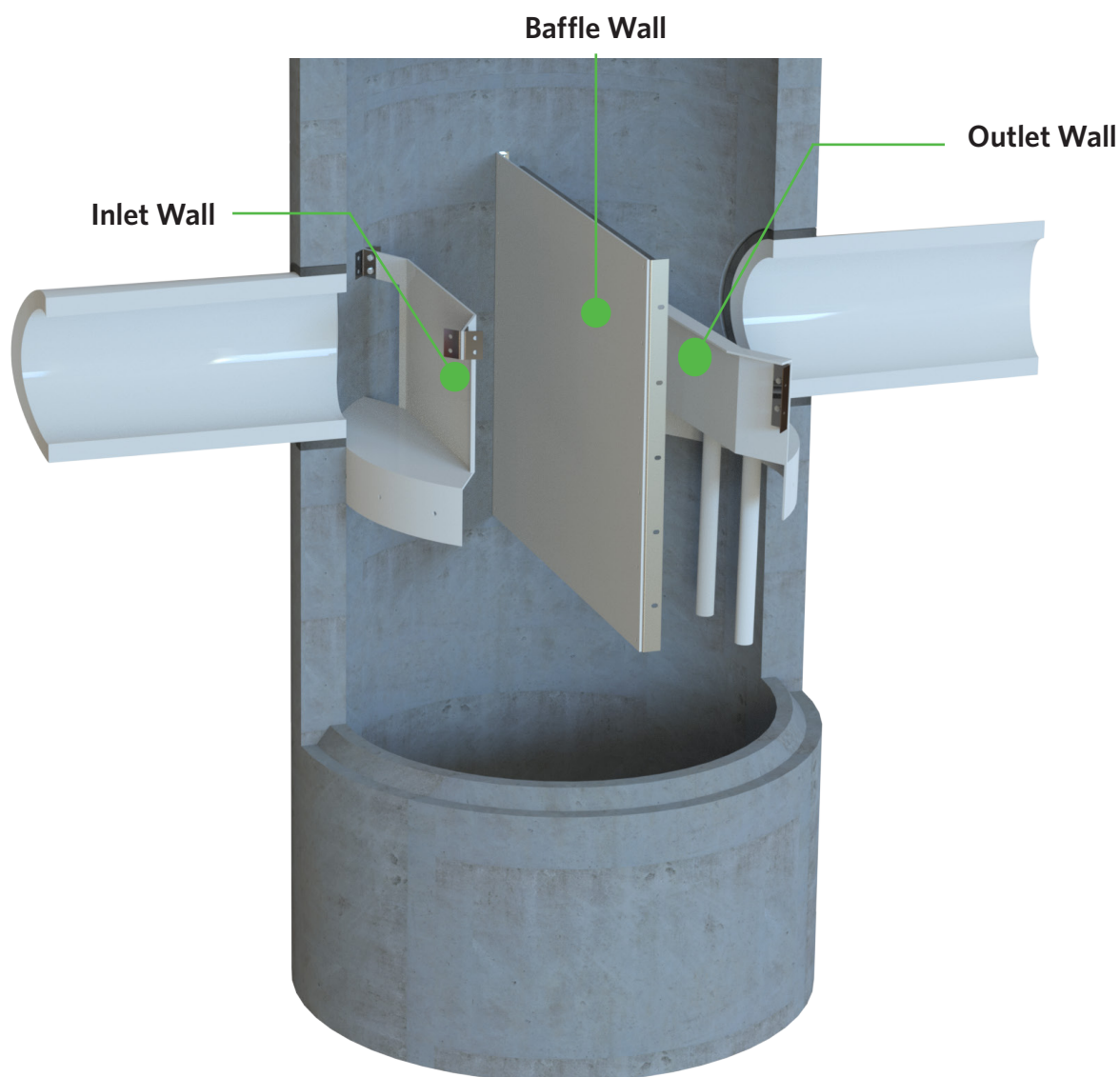
3/8" Bolt, Washer & Nut



**3/8" Dia. x 2 3/4" Long
Wedge Anchor Bolts**

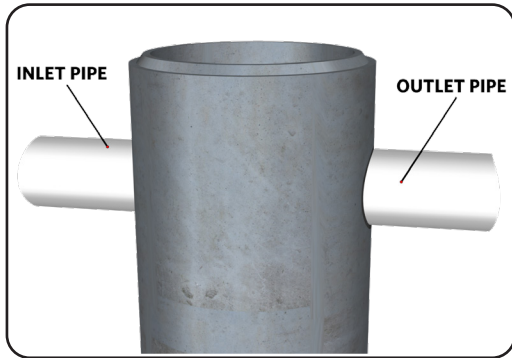
OVERVIEW

This installation is for the small diameter (7' or less) assemblies with a PVC Baffle Wall. Large diameter SciClones (8' and greater) feature a concrete baffle wall, which slots into the wall without any bolting. The inlet and outlet walls are high-density PVC designed for stormwater treatment and conveyance. They are not designed to hold the weight of a person and are labeled, "DO NOT STEP ON" as a precaution.



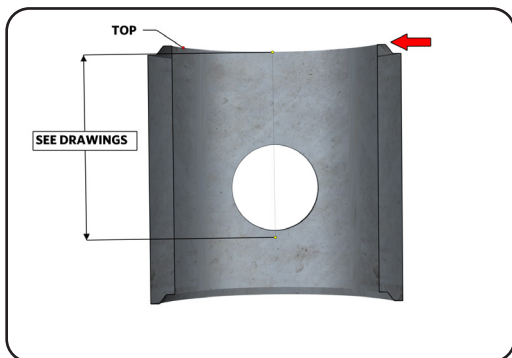
INSTRUCTIONS

Piece 1 - Inlet Wall



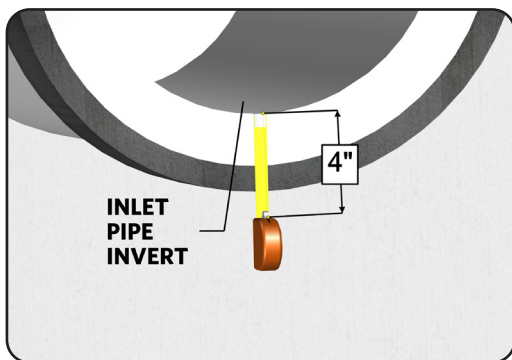
1. Inspection and Setup

Inspect delivery for all parts, ensuring nothing is missing or broken. Locate the inlet and outlet pipes and orient the SciClone manhole accordingly. Refer to drawings for pipe inverts, materials, and thickness. If this is a field installation, there would be an inlet and outlet pipe.



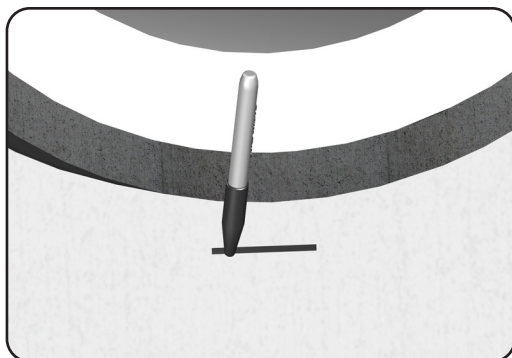
2. Mark Locations

If you are installing the internals before any pipes are in place, you will need to measure the inside top of the unit and mark the location shown. See project drawings for where to mark the inlet wall.



3. Measurement

If you are installing in the field, with the pipes in place then locate the inlet pipe invert and measure 4" directly below using a tape measure. Ensure that the measurement is recorded accurately. P

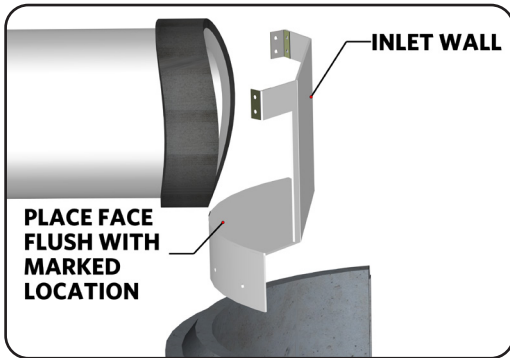


4. Marking

Mark the location 4" below the inlet pipe invert with a marker or where indicated in the project drawings.

INSTRUCTIONS

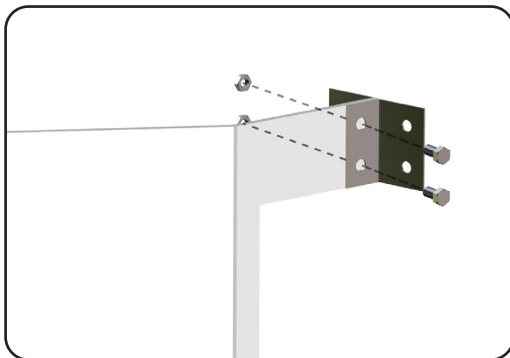
Piece 1 - Inlet Wall



5. Inlet Wall Placement

Place the face flush with the marked location. Place Inlet Wall as flat as possible. Center the inlet wall beneath the inlet pipe and place the flat portion of the inlet wall as shown.

If the angle between inlet and outlet pipe is less than 180 degrees, the inlet wall may need to be rotated slightly so that all internal pieces fit. Refer to drawings for a visual reference.



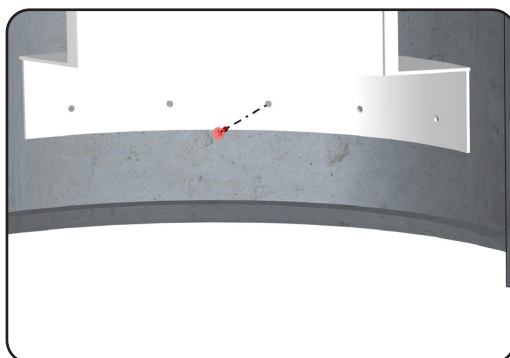
6. Locate Brackets

Locate the Metal Wall Brackets, fully attach them to Inlet Wall. Using the provided hardware with the nuts inside and the bolts outside. Repeat these steps for the opposite side and attach both brackets.



7. Drill Hole on the Bottom of the Inlet Wall

Next, use a rotary hammer drill gun with a 3/8" drill bit and drill the center hole located on the bottom of the inlet wall. Make sure to drill no more than half of the thickness of the concrete structure.

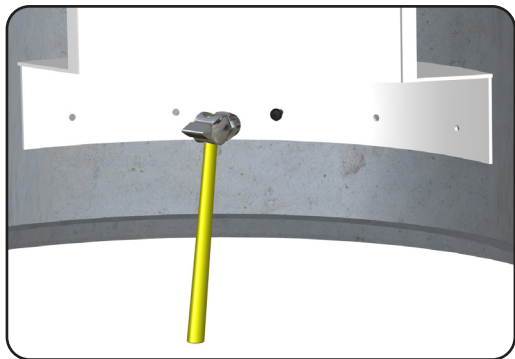


8. Place Wedge Anchor Bolt in center hole

Place a 3/8" dia. wedge anchor bolt into the center drilled hole and ensure that the bolt goes through the hole.

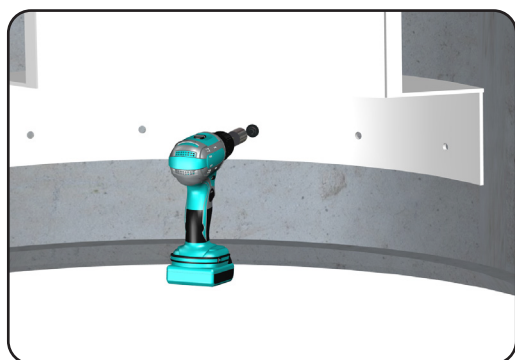
INSTRUCTIONS

Piece 1 - Inlet Wall



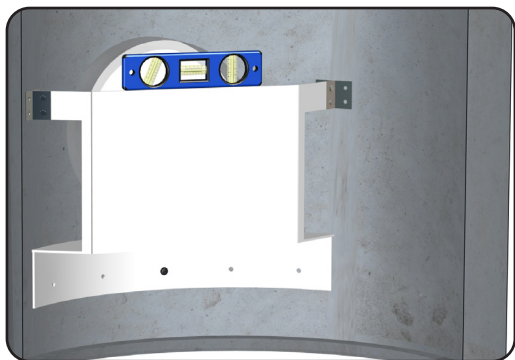
9. Set Wedge Anchor Bolt into place

Using a sledgehammer, push the 3/8" dia. wedge anchor bolt through the center hole.



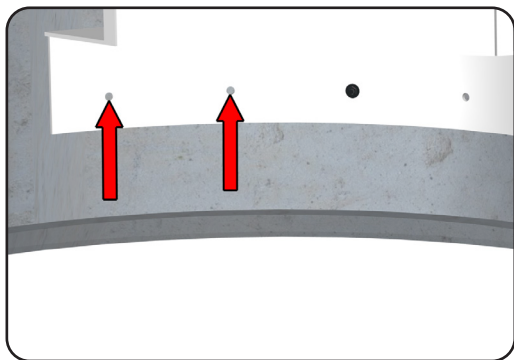
10. Secure the Wedge Anchor Bolt

Use an impact wrench tool with a 9/16" socket to set the wedge anchor bolt into place. Make sure wedge anchor bolt is secured tightly and be sure to hold the inlet wall as flat as possible.



11. Level

Verify by using a hand level or a tape measure that the inlet wall is placed and leveled properly. Only use a hand level if the concrete structure is placed flat. If the concrete structure is at an angle, use the tape measure to check the distance from the floor of the vault or a joint line at two or more locations.

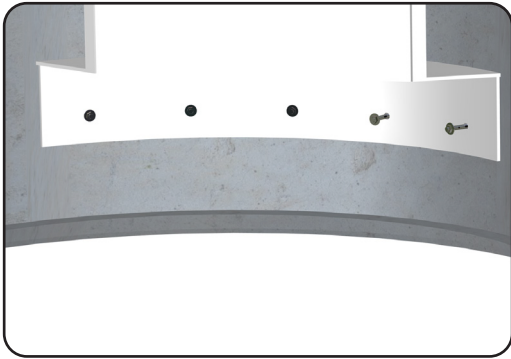


12. Drill Holes and Insert Anchor Bolts

Repeat the previous steps. Insert and fully attach two more 3/8" dia. x 2 3/8" long wedge anchor bolts on the left or right side.

INSTRUCTIONS

Piece 1 - Inlet Wall



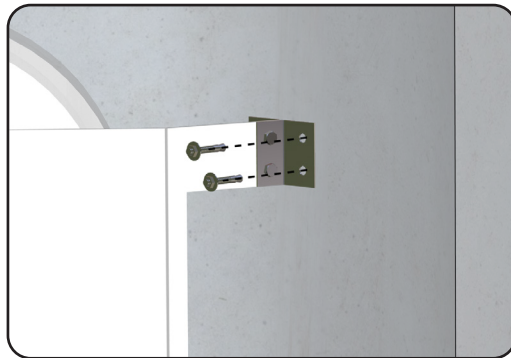
13. Secure the Additional Anchor Bolts

Repeat the same steps and place two more remaining wedge anchor bolts on the opposite side.



14. Drill Holes in outer section of the Bracket

Next, use a rotary hammer drill gun with a 3/8" drill bit and drill the holes located on the bracket. Do not drill more than the wall thickness.



15. Place Wedge Anchor Bolts in bracket holes

Place the 3/8" dia. wedge anchor bolts into the bracket drilled holes.



16. Secure the Additional Anchor Bolts

Use an impact wrench tool with a 9/16" socket to set the wedge anchor bolt into place. Make sure the wedge anchor bolts are secured tightly and be sure to hold the inlet wall as flat as possible. Repeat these steps on the opposite side.

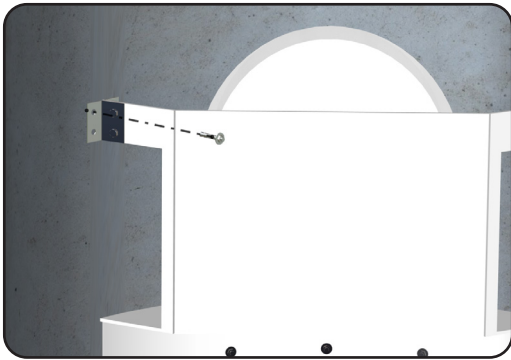
INSTRUCTIONS

Piece 1 - Inlet Wall



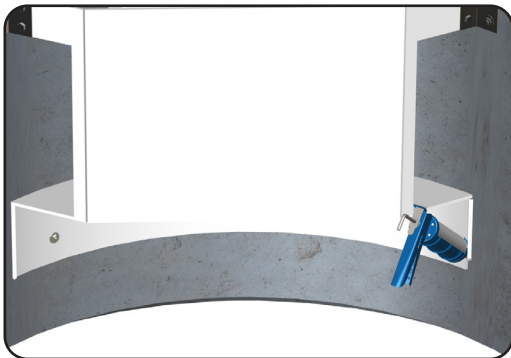
17. Drill Holes on the opposite side

Next, use a rotary hammer drill gun with a 3/8" drill bit and drill the holes located on the bracket. Do not drill more than the wall thickness.



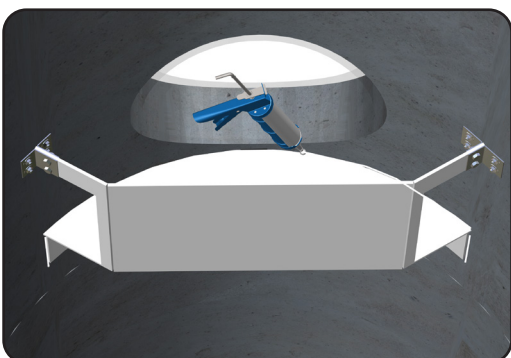
18. Place Wedge Anchor Bolts in bracket holes

Place the 3/8" dia. wedge anchor bolts into the bracket drilled holes.



19. Apply Caulking

Apply caulking to the Inlet Wall and Concrete structure

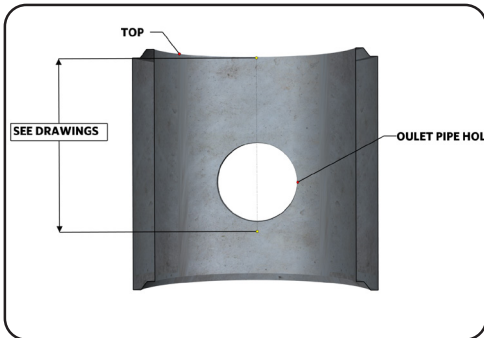


20. Finish Caulking

Finally, continue to apply the caulking to the edges between the inlet wall and the concrete structure all around for a watertight seal. Once caulking has been applied to all edges, Piece 1 is complete.

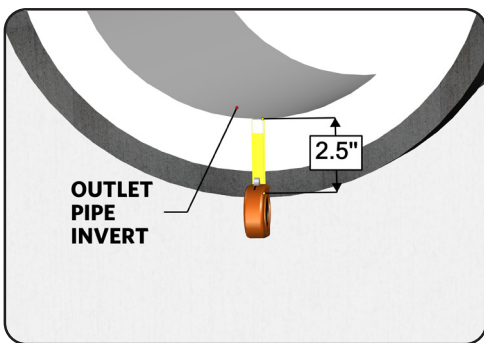
INSTRUCTIONS

Piece 2 - Outlet Wall



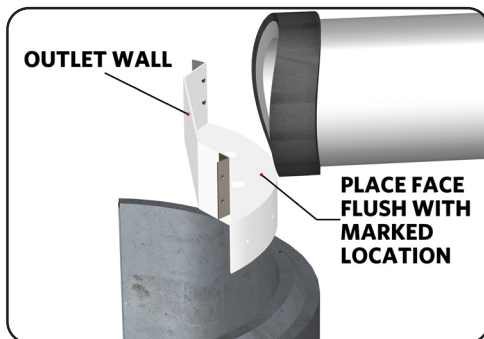
1. Measurement and Marking

Locate the outlet pipe. Refer to drawings for pipe invert, material, and thickness as well as where to mount the outlet wall. If you are installing the internals before the pipes are grouted, you will need to measure from the inside top of the unit and mark the locations that are shown in the drawings.



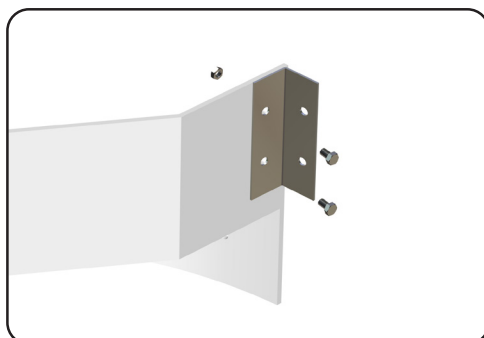
2. Continue Measurement and Marking

If you are installing the internals in the field, Measure 2 1/2 inches directly below the outlet pipe invert using a tape measure. Mark the location with a marker.



3. Outlet Wall Placement

Center and place the face of the outlet wall flush with the marked location. Use a tape measure or hand level to ensure the outlet wall is leveled properly. If the angle between inlet and outlet pipe is less than 180 degrees, the outlet wall may need to be rotated slightly so that all internal pieces fit. Refer to drawings for a visual reference.

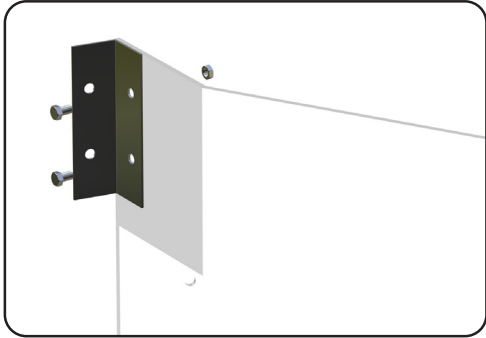


4. Locate and Attach Mounting Bracket

Next, locate the Mounting Bracket and attach them using the provided hardware to attach the top ends of the inlet wall. Using the two 3/8" dia. wedge anchor bolts, secure the outer bracket to them with a wrench.

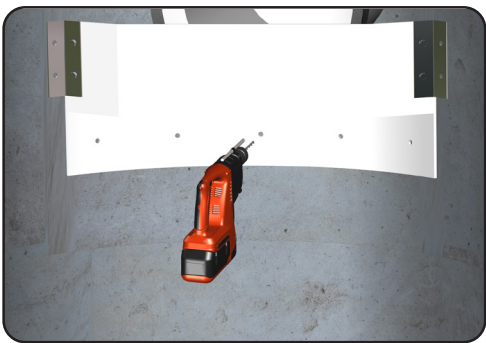
INSTRUCTIONS

Piece 2 - Outlet Wall



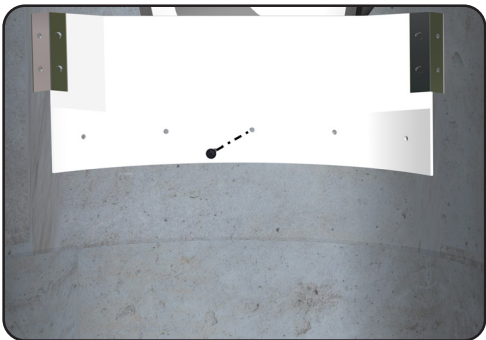
5. Secure the Additional Anchor Bolts

Repeat the same steps on the opposite side, and attach the second bracket.



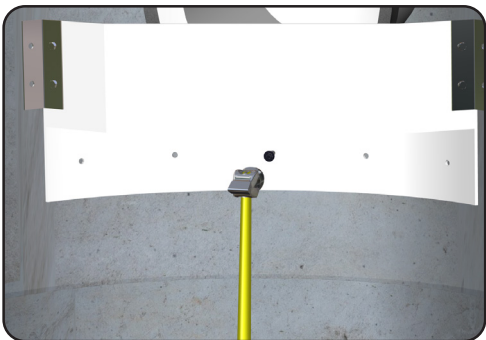
6. Drill Hole on the Bottom of the Outletlet

Next, use a rotary hammer drill gun with a 3/8" drill bit and drill the center hole located on the bottom of the outlet wall. Make sure to drill no more than half of the thickness of the concrete structure.



7. Place Wedge Anchor Bolt into center hole

Place a 3/8" dia. wedge anchor bolt into the center drilled hole and ensure that the bolt goes through the hole.



8. Insert and Secure Lower Anchor Bolt

Using a sledgehammer, push the 3/8" dia. wedge anchor bolt through the center hole.

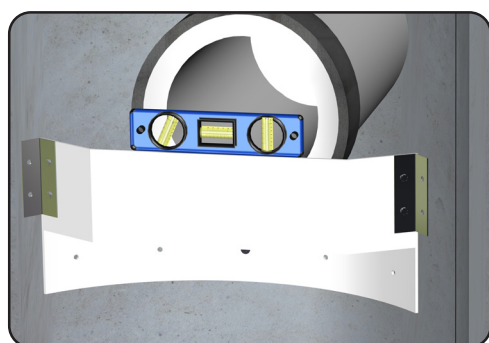
INSTRUCTIONS

Piece 2 - Outlet Wall



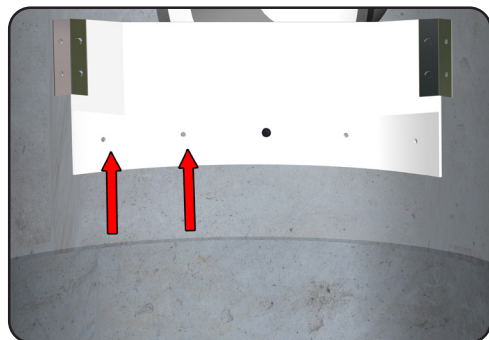
9. Secure the Additional Anchor Bolts

Use an impact wrench tool with a 9/16" socket to set the wedge anchor bolt into place. Make sure wedge anchor bolt is secured tightly and be sure to hold the inlet wall as flat as possible.



10. Level

Verify by using a hand level or a tape measure that the outlet wall is placed and leveled properly. Only use a hand level if the concrete structure is placed flat. If the concrete structure is at an angle, use the tape measure to check the distance from the floor of the vault or a joint line at two or more locations.



11. Drill Holes and Insert Anchor Bolts

Insert and fully attach two more 3/8" dia. x 2 3/8" long wedge anchor bolts on the left or right side.



12. Secure the Additional Anchor Bolts

Repeat the same steps and place two more remaining wedge anchor bolts on the opposite side.

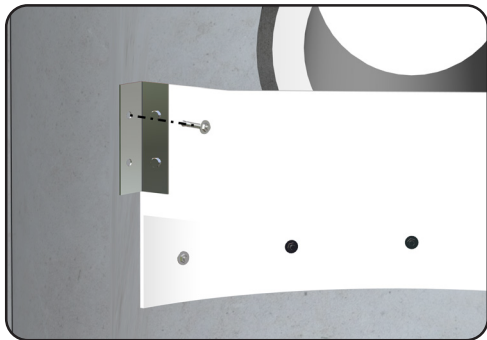
INSTRUCTIONS

Piece 2 - Outlet Wall



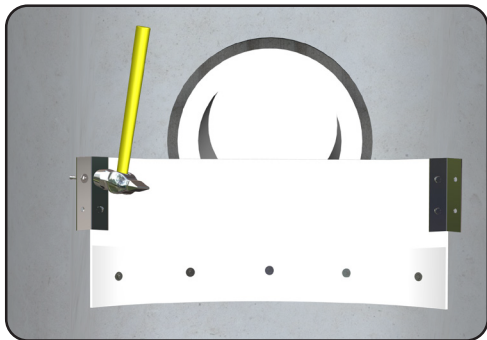
13. Drill Holes in Outer Section of Bracket

Next, use a rotary hammer drill gun with a 3/8" drill bit and drill the holes located on the bracket. Do not drill more than the wall thickness.



14. Place Wedge Anchor Bolts in bracket holes

Place the 3/8" dia. wedge anchor bolts into the bracket drilled holes.



15. Set Wedge Anchor Bolts in place

Using a sledgehammer, push the 3/8" dia. wedge anchor bolt through the center hole.



16. Secure the Anchor Bolts

Use an impact wrench tool with a 9/16" socket to set the wedge anchor bolt into place. Make sure the wedge anchor bolts are secured tightly and be sure to hold the outlet wall as flat as possible. Repeat these steps on the opposite side.

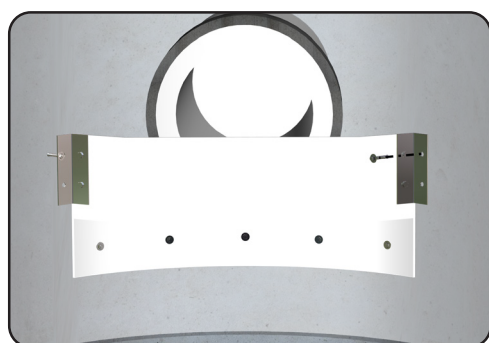
INSTRUCTIONS

Piece 2 - Outlet Wall



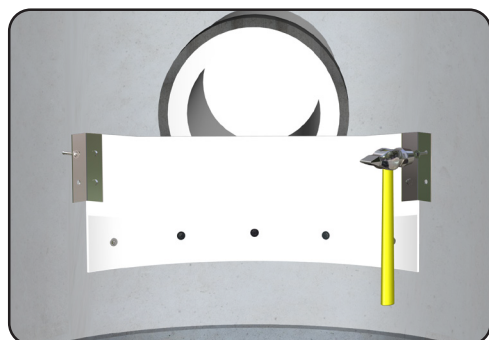
17. Drill Holes on Opposite Side

Next, use a rotary hammer drill gun with a 3/8" drill bit and drill the holes located on the bracket. Do not drill more than the wall thickness.



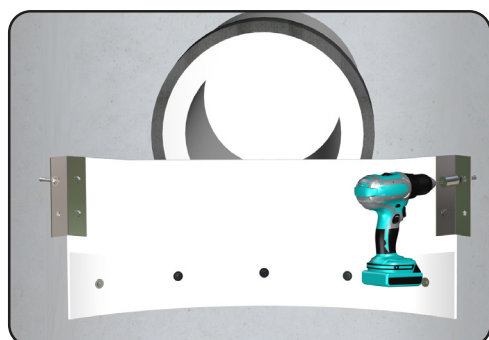
18. Place Wedge Anchor Bolts in bracket holes

Place the 3/8" dia. wedge anchor bolts into the bracket drilled holes.



19. Set Wedge Anchor Bolts in place

Using a sledgehammer, push the 3/8" dia. wedge anchor bolt through the center hole.

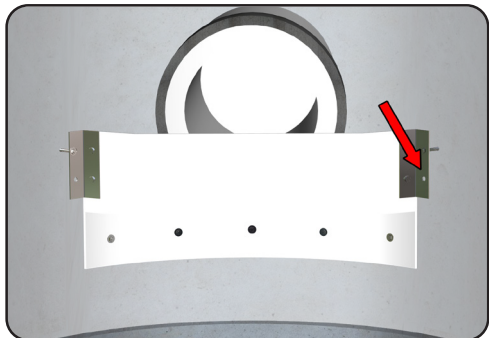


20. Secure the Anchor Bolts

Use an impact wrench tool with a 9/16" socket to set the wedge anchor bolt into place. Make sure the wedge anchor bolts are secured tightly and be sure to hold the outlet wall as flat as possible. Repeat these steps on the opposite side.

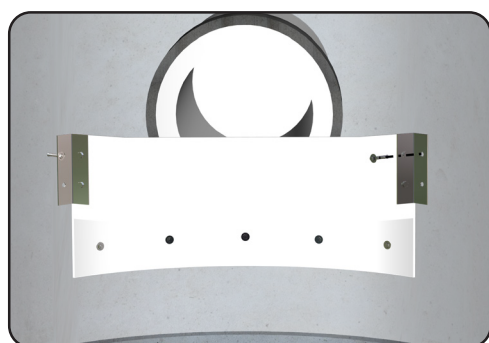
INSTRUCTIONS

Piece 2 - Outlet Wall



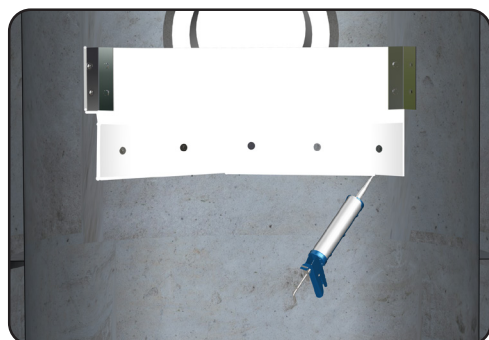
21. Drill Holes on Opposite Side

Next, use a rotary hammer drill gun with a 3/8" drill bit and drill the holes located on the bracket. Do not drill more than the wall thickness.



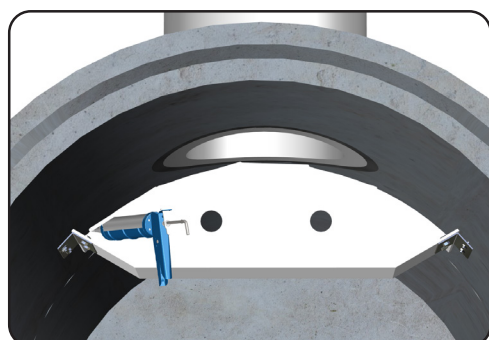
22. Insert Remaining Anchor Bolts

Place the 3/8" dia. wedge anchor bolts into the bracket drilled holes.



23. Apply Caulking

Apply caulking to the Inlet Wall and Concrete structure

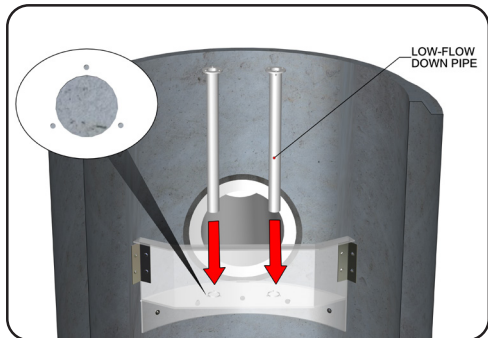


24. Finish Caulking

Finally, continue to apply the caulking to the edges between the inlet wall and the concrete structure all around for a watertight seal. Once caulking has been applied to all edges, Piece 1 is complete.

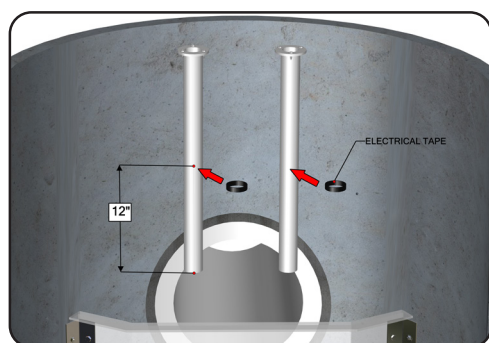
INSTRUCTIONS

Piece 2 - Outlet Wall



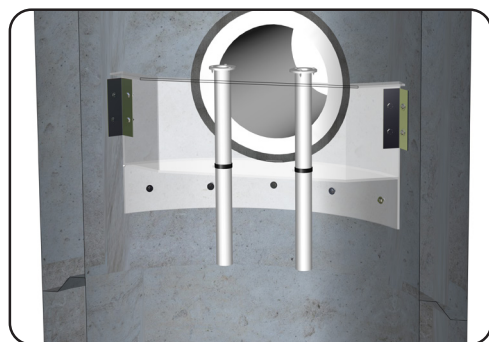
25. Locate the Low-Flow Down Pipes

Locate, and insert two Low-Flow Down Pipes into the two inner holes of the Outlet Wall.



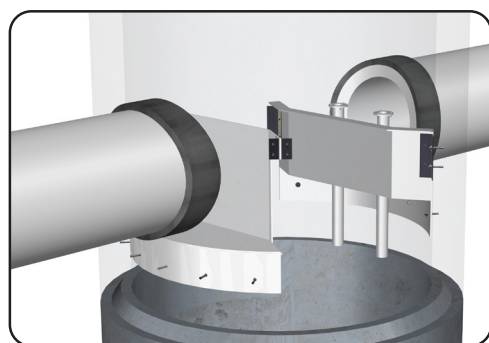
26. Apply Tape to Both Pipes

Place Electrical Tape around the Pipes about 12 inches from the bottom, before installing them in place. Wrap the tape 5-6 times to ensure they remain in place.



27. Slowly Insert both Pipes

With the tape around both pipes, insert the pipes into the Outlet Wall Holes. The tape should prevent the pipes from sliding down or sliding off.

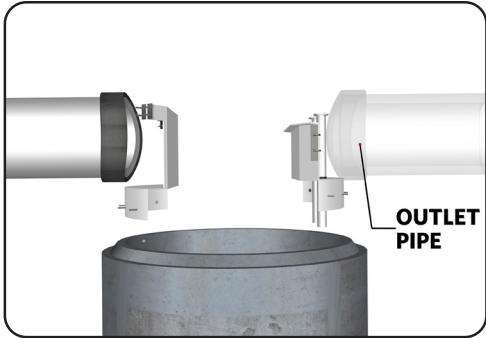


28. Verify Caulking & Hardware

Finally, verify both Walls are fully secured, have caulking applied, and all hardware/Anchors are in place.

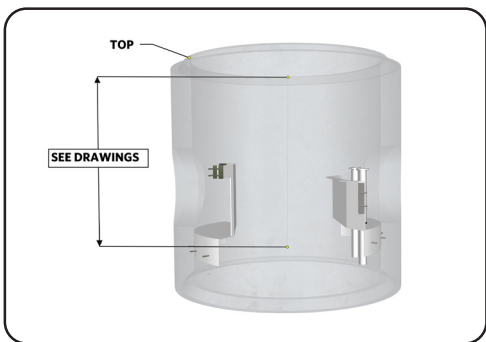
INSTRUCTIONS

Piece 3 - Baffle Wall



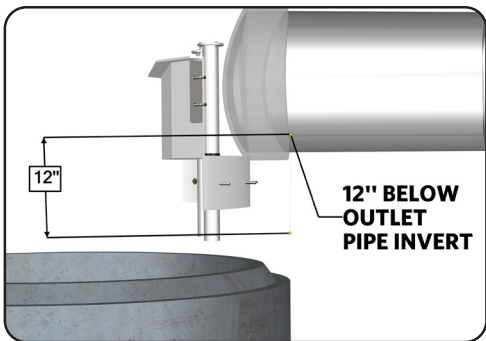
1. Locate the Outlet Pipe Invert

If you are installing the internals in the field, Mark the location 12" below the outlet pipe invert with a marker. If the inlet and outlet pipes are installed, proceed to the next steps. Check project drawings to see where to mount the baffle wall.



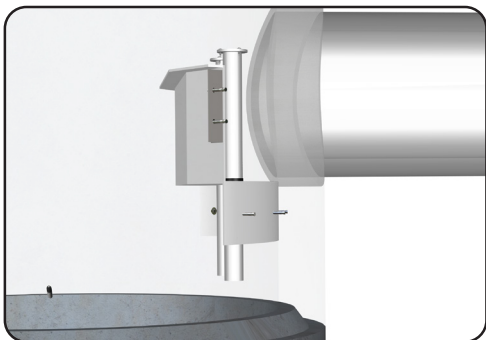
2. Measure from the inside of the top.

If you are installing the internals before the pipes are grouted, you will need to measure from the inside top of the unit and mark the locations that are shown in the drawings. Begin by locating the outlet pipe.



3. Measure Distance

Mark the location 12" below the outlet pipe invert with a marker if installing in the field.

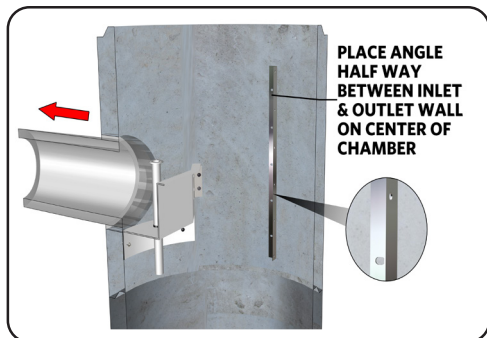


4. Mark Location

Using a Marker, mark the location of the area where you are going to install the baffle wall. Check the project drawings where to mark the location.

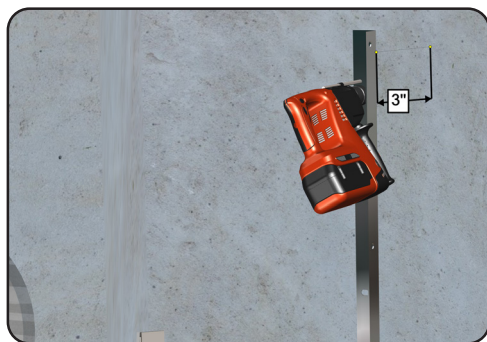
INSTRUCTIONS

Piece 3 - Baffle Wall



5. Install Channel

Install the 2 in. x 3 in long L-Channel facing against the concrete wall, as shown. Center the L-Channel between the inlet and outlet wall. Place the slots against the wall as you will need to drill holes to mount and install the channel. The flat face of the angle should face towards the Inlet Wall.



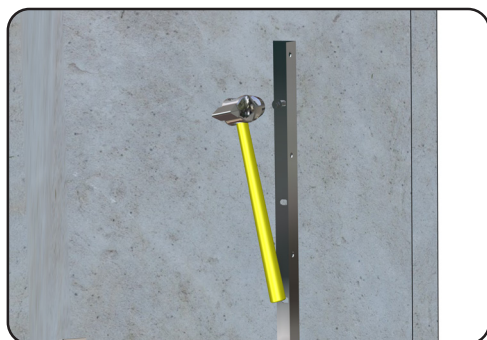
6. Use a Rotary Hammer

Next, use a rotary hammer drill gun with a 3/8" drill bit and drill the topmost hole of the L-Channel. Do not drill more than the wall thickness.



7. Place Wedge Anchor Bolts in bracket holes

Place a 3/8" dia. wedge anchor bolt into the drilled hole and ensure that the bolt goes through the hole.



8. Insert and Secure Anchor Bolt

Using a sledgehammer, push the 3/8" dia. wedge anchor bolt through the center hole.

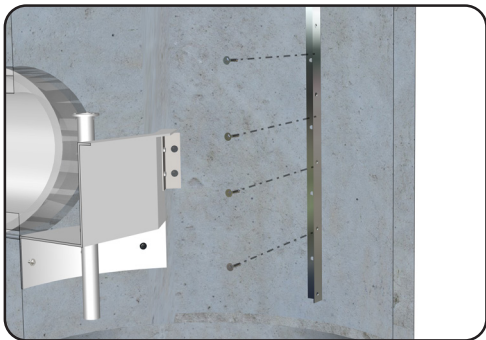
INSTRUCTIONS

Piece 3 - Baffle Wall



9. Secure the Anchor Bolt

Use an impact wrench tool with a 9/16" socket to set the wedge anchor bolt into place. Make sure the wedge anchor bolts are secured tightly and be sure to hold the outlet wall as flat as possible. Repeat these steps on the opposite side.



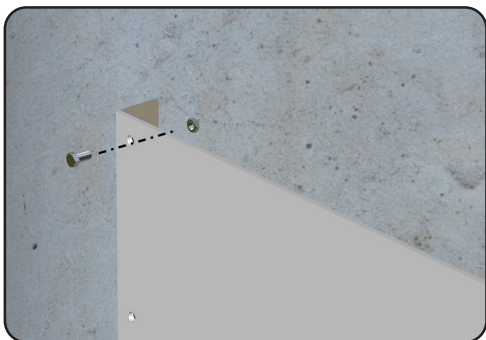
10. Repeat steps for Additional Anchor Bolts

Keeping the L-Channel vertically aligned, repeat these steps to secure the L-Channel with the additional bolts. Repeat these same steps for the opposite side.



11. Place Baffle Wall on L-Channels

Locate the Baffle Wall and place it on the L-Channels, as shown, matching the holes. The front face of the wall should face the inlet pipe.

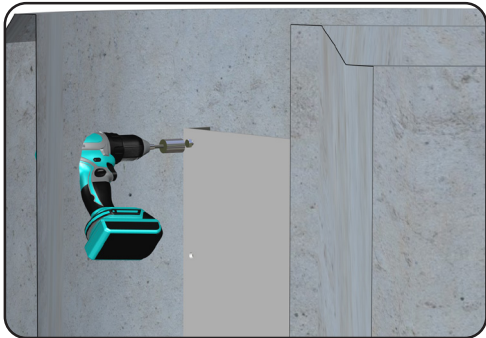


12. Place Bolt in Channel Hole

Make sure to drill holes through the baffle wall, as the baffle wall doesn't come pre-drilled. Place a 3/8" dia. wedge anchor bolt into the drilled hole and ensure that the bolt goes through the hole.

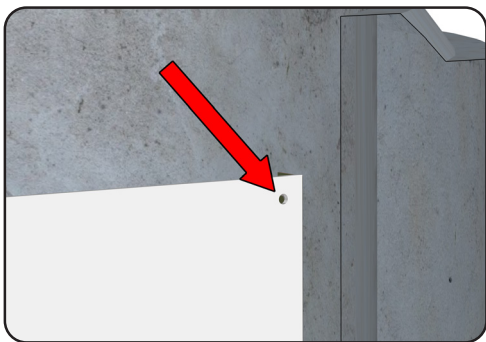
INSTRUCTIONS

Piece 3 - Baffle Wall



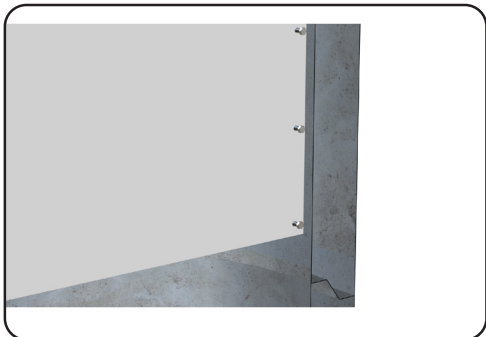
13. Secure the Anchor Bolt

Use an impact wrench tool with a 9/16" socket to set the wedge anchor bolt into place. Make sure the wedge anchor bolts are secured tightly and be sure to hold the outlet wall as flat as possible. Repeat these steps on the opposite side.



14. Repeat steps

Repeat these steps on the opposite side. Drill additional holes and install remaining hardware to secure the baffle wall.



15. Continue securing the Baffle Wall

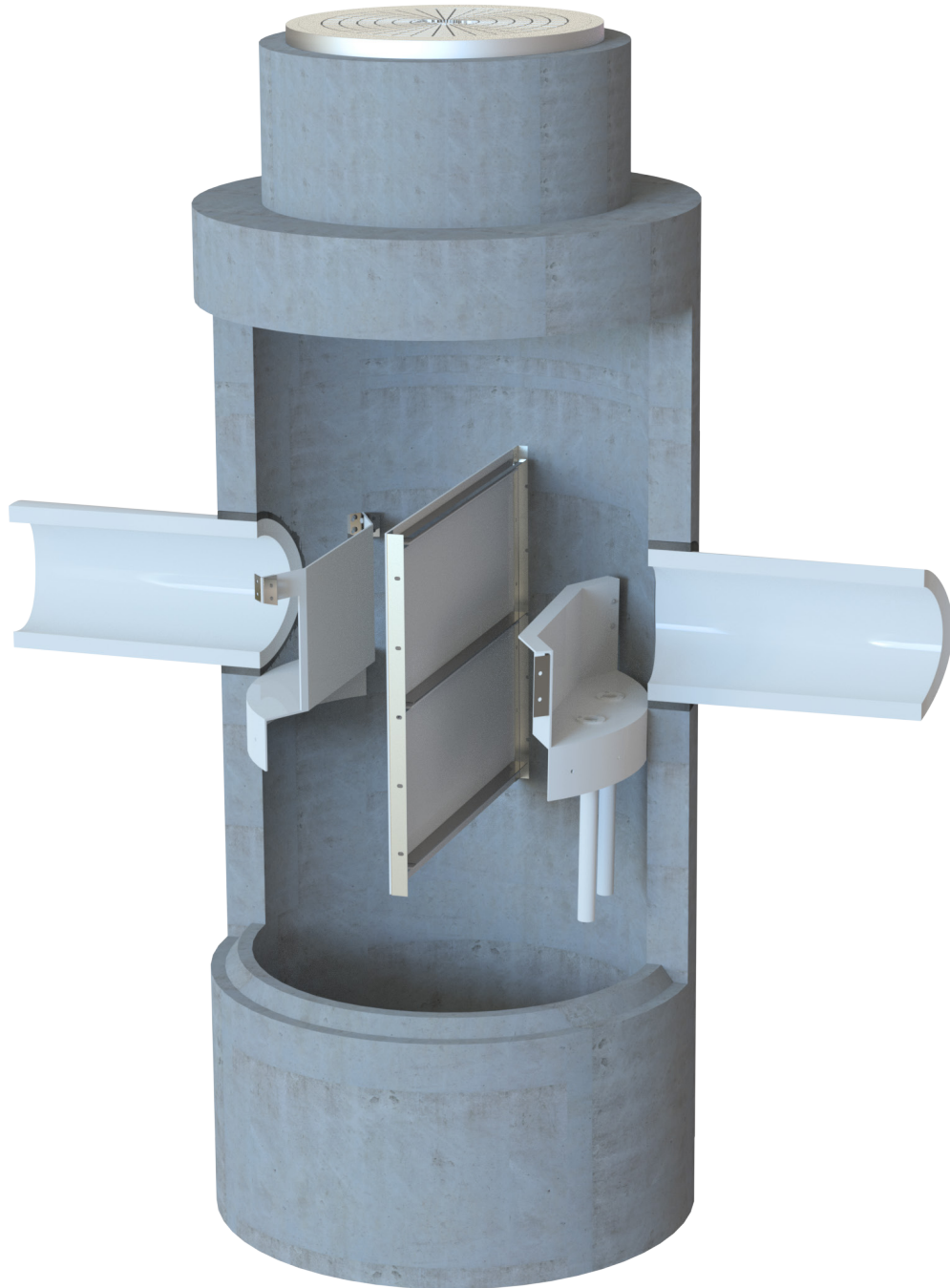
Continue with the Baffle wall until all holes are covered and secured with the hardware. The number of bolts varies per project.



16. Apply Caulking

Apply caulking to the Baffle Wall and Structure. Apply caulking all around, top and bottom.

Technical support



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