HydroStor™ Endcap Field Fabricated Stub Connection Guide

Introduction

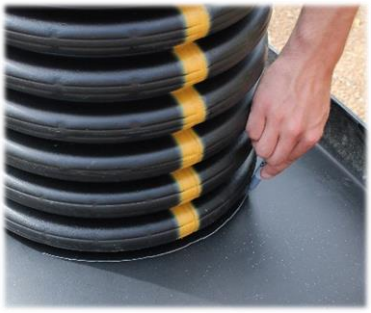
HydroStor Endcaps are available with a prefabricated stub for ready connections to the inlet pipe. However, field fabrication of endcaps may be desired in certain situations for connecting a pipe stub to an inlet/outlet manifold. This can be done by hand using a reciprocating saw and does not require welding the stub to the endcap. With proper installation procedure, field fabricated stubs will perform similarly to prefabricated, welded stubs. The steps below show the requirements for a field fabricated stub connection.

Step 1:

Hold the pipe stub up to the endcap at the desired location, such that the stub will be parallel to the ground after installation.

Step 2:

If necessary, cut the end of the stub at an angle, such that the stub is flush with the face of the endcap. *If this step is unnecessary, proceed to step 3.*



Step 3:

Carefully trace the stub's outline onto the endcap, keeping the line as close to the pipe outside diameter as possible.

Step 4:

Carefully cut along the traced outline. The difference between the outside diameter of the pipe and the hole must be less than ½" (13 mm).

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Step 5:

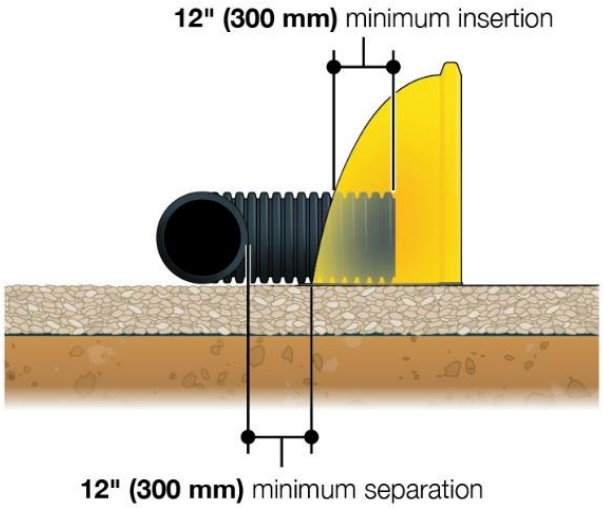
Insert the pipe stub a minimum of 12” (300 mm) into the endcap. Any voids greater than ¾” (19 mm) should be covered with a non-woven geotextile to keep the crushed rock from infiltrating the connection.

Important Notes

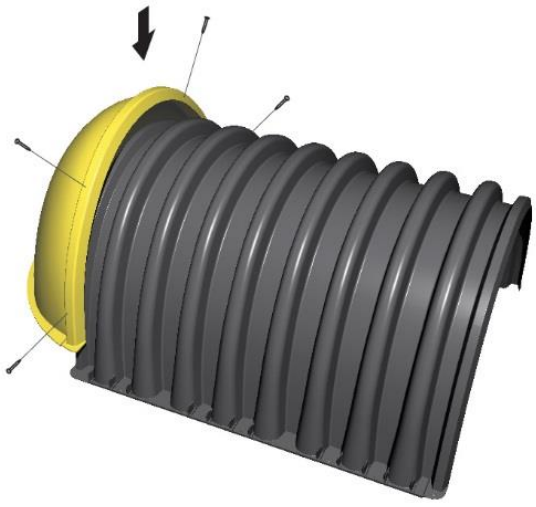
To ensure the desired field performance, the following conditions must be met:

- Fabricated endcap are properly secured to the chamber with a minimum of 4 evenly spaced screws
- Pipe stub penetrates the endcap a minimum of 12” (300 mm)
- Adequate backfill support is placed under and around the stub connection
- No more than a ½” (13 mm) gap is between the cut hole and stub outside diameter
- The stub connection is covered with a non-woven geotextile for any voids greater than ¾” (19 mm)
- Maximum pipe stub diameters:
  - 36” (900 mm) for HS180 End Caps
  - 18” (450 mm) for HS75 End Caps (24” (600 mm) with a fabricated adapter)

Proper Stub Insertion



Screw Locations



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