**Scope**
This specification designates the requirements for Prinsco HydroStor HS75 Chambers to be used for controlling stormwater runoff. The HydroStor chambers function as a subsurface retention system by storing water and allowing infiltration into the soil or as a subsurface detention system by temporarily storing stormwater runoff and releasing the water at a controlled rate through an outlet.

**Chamber Requirements**
Prinsco HydroStor HS75 chambers shall be curved to form a continuous arch shape with an open bottom. Chambers shall have 14 annular exterior corrugations. Chambers shall be equipped with lifting handles to facilitate the unloading and installation of the chambers.

End caps shall be curved and have adequate structural capacity to allow the end cap inlets to be cut at any invert elevation.

Chambers and end caps shall meet or exceed the following standards:

**Materials**
Prinsco HydroStor HS75 chambers shall be injection molded and constructed of polypropylene resin resistant to environmental stress cracking (ESCR) and with ability to maintain adequate stiffness through the construction and service life of the chamber. The end caps shall be thermoformed or injection molded from polyethylene resin.

The chamber material shall meet or exceed the requirements of designation PP0330B99945 as defined in ASTM D4101.

**Joint Performance**
Joining of chambers shall be accomplished by overlapping the corrugations of longitudinally adjacent chambers along long lengths of chambers. Chambers and joints shall be installed in the direction stamped in the valley of the corrugation.

End caps are designed to fit over top of a corrugation on either end of the chamber. End caps shall have guides to allow easy cutting of various diameters of pipe that may be used to inlet water in to the system.

**Installation**
Chambers and endcaps shall be installed in accordance with Prinsco’s published installation guidelines. Minimum cover heights for AASHTO H-20 loads shall be 18” (450 mm) as shown in the cross section detail. The minimum cover shall be measured from the top of the chamber to the bottom of flexible pavement or to the top of rigid pavement. Visit [www.prinsco.com](http://www.prinsco.com) or contact your local Prinsco representative for the latest installation guidelines.

**Reference Specifications**
This specification references the latest edition and revisions of the following standard specifications:
- ASTM D4101 – Standard Specification for Polypropylene Injection and Extrusion Materials
**Physical Chamber Dimensions**

<table>
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<th>Chamber Specifications</th>
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<td>Installed Length</td>
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<tr>
<td>Chamber Storage</td>
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<td>Min. Installed Storage*</td>
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<tr>
<td>Weight / Chamber</td>
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<tr>
<td>Chambers / Pallet</td>
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<tr>
<td>Approx. Weight / Pallet</td>
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*Assumes 6” (150 mm) stone above chambers/end caps, 6” (150 mm) of stone for foundation, 6” (150 mm) of stone between chambers/end caps, 12” (300 mm) of stone perimeter in front of end caps and 40% stone porosity.