Polystorm Access provides a 1m x 0.5m shaft within a Polystorm geocellular structure to enable surface access for remote camera inspection and maintenance activities, such as flushing and rodding.

The system consists of a 500mm diameter shaft which extends from surface level to the top of a Polystorm structure, at which point a turret provides an interface between the shaft and the inspection chamber within the Polystorm structure. At the bottom of the chamber, a base unit interlocks with the surrounding layer of Polystorm cells whilst supporting the geomembrane. A 350mm reduced access shaft cap is provided to comply with inspection chamber regulations.

Polystorm Access is suitable for use with Polystorm, Polystorm-R, Polystorm Lite and Polystorm Xtra and may be combined with Polystorm Inspect for full length remote inspection and maintenance.

Key Benefits

- Meets minimum 450mm width requirement for inspection chamber access, with 350mm reduced access where regulations dictate
- Integrated solution; can be used with Polystorm Inspect to monitor internal volume of geocellular structure
- Base unit provides smooth transition between Polystorm Inspect units
- Multiple inspection configurations can be achieved when used in conjunction with Polystorm Inspect
- Manufactured from polyethylene for light weight, ease of handling and high strength
- Sustainability: All components 100% recyclable after use

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Polystorm Access

Typical Elevation

25mm Class 1 mortar haunching to MH cover and frame

Precast concrete cover slab to BS 5911-3 and BS EN 1917. Bedded on mortar or proprietary bitumen or resin mastic sealant mortar pointing to internal face

500mm Ø slip coupler

Polystorm Access shaft

Polystorm Access turret unit

Polystorm structure

Polystorm Access base units

Manhole cover & frame bedded on mortar; BS EN 124 load class and min opening to suit proposed installation location and adopting organisation

2-4 courses of Class 8 engineering clay brick to BS 6073. Alternatively precast concrete masonry brick and block units to BS 6073 or precast concrete seating rings to BS EN 1917 and BS 5911-3

Cast in-situ concrete strip footing. Min 300 x 150mm thick ST4 standardised prescribed concrete to BS EN 206-1 and BS EN 8500-2

Min 300mm granular material surround to Polypipe Access shaft

Single Polystorm unit (per layer) omitted from Polystorm structure construction

Typical Elevation

The Polystorm Access shaft is variable in length depending on the depth you require.

Features

- 1m x 0.5m inspection chamber within Polystorm structure
- 500mm riser shaft from surface to top of Polystorm structure
- Riser shaft may be extended as required using 500mm Ridgidrain pipe and seals
- It is recommended that the 500mm Ridgidrain pipe access shaft is within the limits of 250-1050mm for a standard installation
- Reduced Access shaft cap (350mm) available where required by regulations
- Utilises existing Polystorm Clips and Shear Connections
- Base unit manufactured from recyclable polyethylene
- Choice of standard shaft lengths

Technical Support

Detailed guidance and assistance is available. For further information, please contact our Technical Team on +44 (0) 1509 615100 or email civils@polypipe.com

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Polypipe Plastics Expertise

Polystorm Access is manufactured from sustainable polyethylene using the proven rotational moulding technique.

Reliability and Performance

All components in the Polystorm Access system have a design life of up to 50 years where ground conditions allow.

Easy Handling and Installation

Components are light and easy to handle, reducing health and safety risks and speeding up installation. The Polystorm Access shaft can be quickly and accurately cut to the right depth from 500mm Ridgidrain pipe, adding to the ease and flexibility on-site.

Nominal Weights

<table>
<thead>
<tr>
<th>PSMA-B2</th>
<th>PSMA-T</th>
<th>PSMA-R</th>
</tr>
</thead>
<tbody>
<tr>
<td>8kg</td>
<td>19kg</td>
<td>4kg</td>
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</table>

Flexible Positioning

The Polystorm Access turret can be positioned anywhere on a Polystorm structure, providing there are two or more Polystorm cells between the access turret and the structure edge.

Please note: Above is a typical installation detail for a Polystorm tank with groundwater below the base of the unit. For installation with groundwater above the structure invert please contact our Technical Team on +44 (0) 1509 615100 or email civils@polypipe.com