

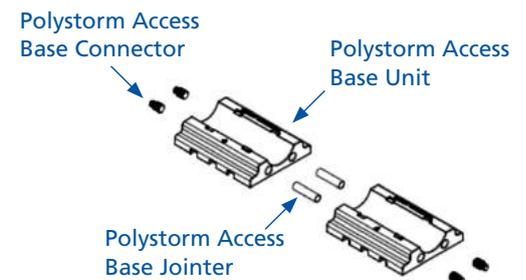
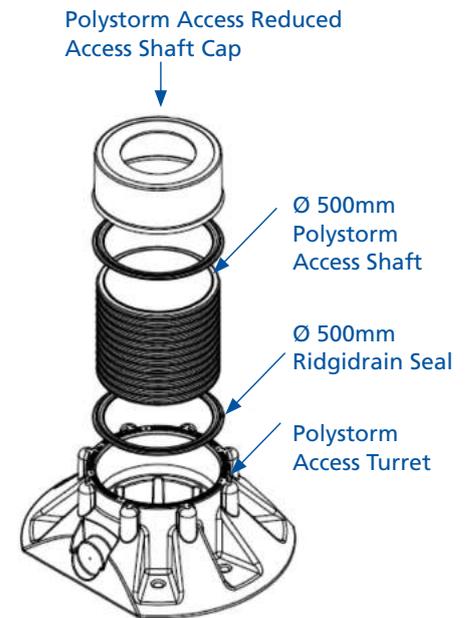
The Polystorm Access system has been designed to enable vertical access in to a Polystorm geocellular structure in the most cost effective and seamless way. The inspection chamber shaft can be used as a surface level point of access for inspection and maintenance activities, such as flushing and rodding.



The components within the Polystorm Access system consist of some compulsory elements and other optional items as follows:

#### Check List

Qty	
1	Polystorm Access Turret (PSMA-T)
1	Polystorm Access reduced access shaft cap with 350mmØ opening (PSMA-R)
1	Polystorm Access Base Assembly (PSMA-B2) which includes: 2 x Polystorm Access Base Unit (PSMA-B) 2 x Polystorm Access Base Joiner (PSMSC) 2 x Polystorm Access Base Connector (PSM3SC) 2 x 500mmØ Ridgidrain seal (SRD500)
1	Polystorm Access Shaft in either 1.5m, 3m or 6m in length (500mmØ Ridgidrain pipe RD500)
	<b>If the depth of the shaft is &lt;1.2m from the surface:</b>
1	Polystorm Access Shaft Slip Coupler (CRD500/1)

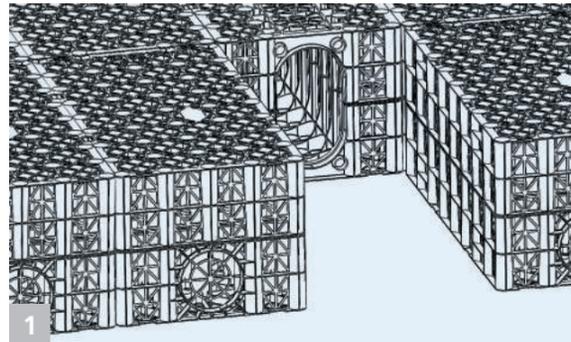


#### Technical Support

Detailed guidance and assistance is available.

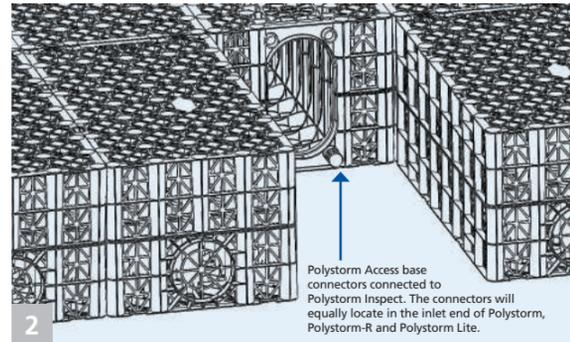
For further information, please contact our Technical Team on **+44 (0)1509 615100** or email [civils@polypipe.com](mailto:civils@polypipe.com)

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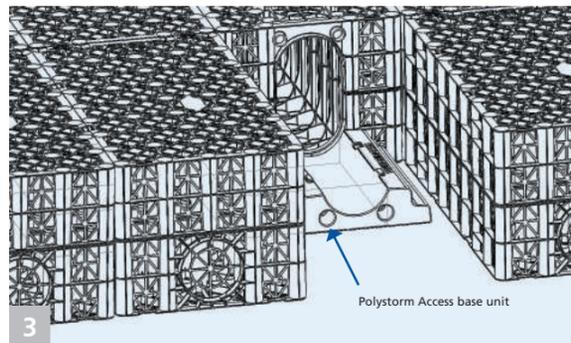
**Bottom layer**

During the construction of the bottom layer of the Polystorm structure, the area where Polystorm Access inspection chambers are going to be located, should be identified and the Polystorm unit which would normally occupy the internal area where the shaft will sit, should be left out.



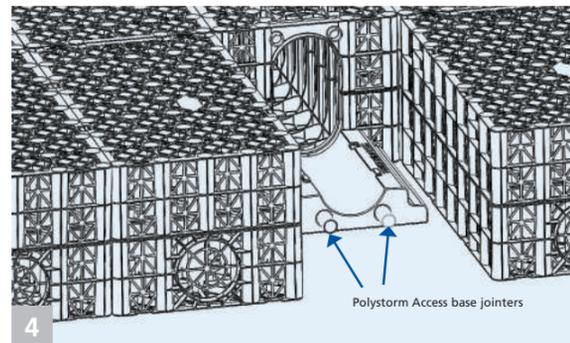
**Base connectors**

The small end of the Polystorm Access base connector should be placed in the end of the Polystorm Inspect unit. If Polystorm is being used, the base connectors should be pushed in to the Polystorm Access base sockets and the Polystorm Access base pushed up against the Polystorm unit, as per action 3.



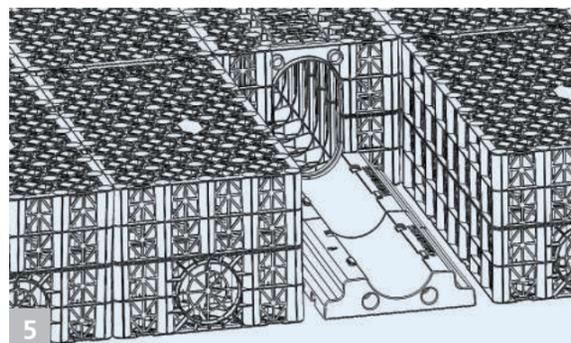
**Base unit position**

Once the Polystorm Access base connectors are in position, the first base unit can be butted up against the Polystorm cell. If Polystorm, Polystorm-R or Polystorm Lite is used, then the 160mmØ knock out must be at the bottom.



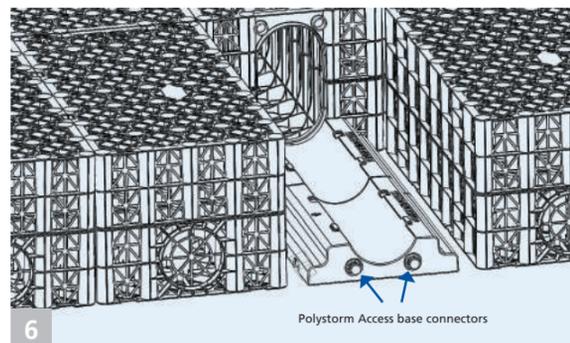
**Base jointers**

The two Polystorm Access base jointers should now be inserted in to the vacant base sockets.



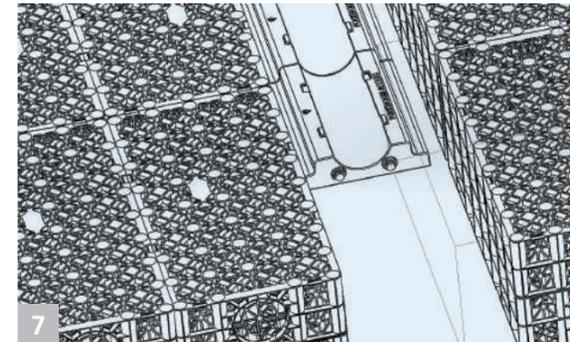
**2nd unit**

The second base unit can then be positioned on to the Polystorm Access base jointers.



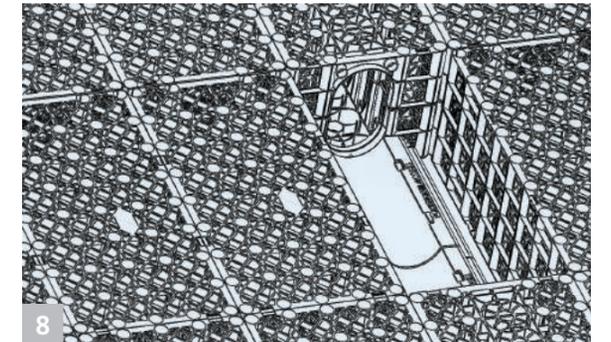
**2nd base connectors**

The second set of Polystorm Access base connectors can be inserted into the Polystorm Access base sockets ready for the Polystorm units to be built around it.



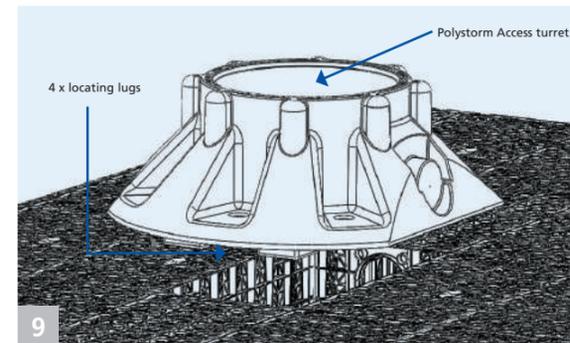
**Polystorm Clips**

The Polystorm structure can then be built around the Polystorm Access shaft using the Polystorm Clips to connect the units in place. It is recommend that the units around the shaft are clipped top and bottom.



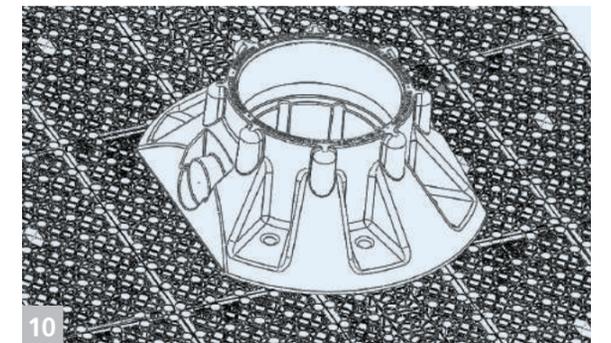
**Importance of Clips**

It is essential that all Clips are used on all layers of the Polystorm structure and all Shear Connectors are used between layers. The Polystorm structure can then be built up to the required height and then wrapped.



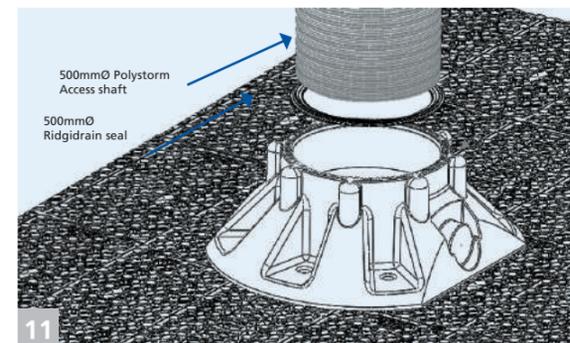
**Polystorm Access turret**

Once the Polystorm structure has been built up to the required level, the Polystorm Access turret can be located above the Polystorm Access shaft. There are four locators on the turret base to aid this.



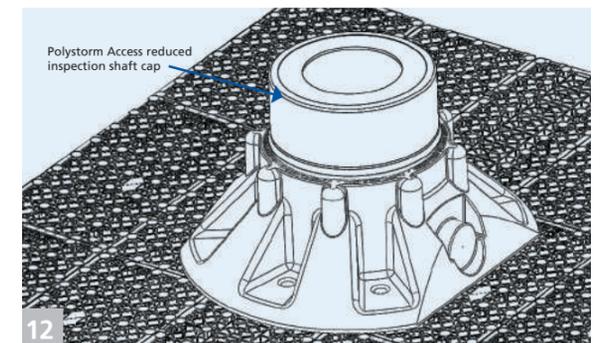
**When Polystorm Access turret is in position**

Once the turret is in place, and if being used as an attenuation structure wrapped with geomembrane, the Polystorm Access turret can be welded to the geomembrane. If, for infiltration however, the Polystorm system is intended to be unsealed, then the turret does not need to be welded.



**Increasing turret levels**

Once the Polystorm Access turret is in position, then the turret can be brought up to the required level by using a length of 500mmØ Ridgidrain, cut to the required length. Lubricant should be used to help the jointing process. The shaft can be sealed with a 500mmØ Ridgidrain seal (SRD500), which should be placed into the first corrugation of the pipe.



**Reduced Access opening**

If a reduced access opening (max 350mmØ) is required, then the PSMA-R and SRD500 should be installed. Alternatively a 500mmØ slip coupler and seal should be installed. Both caps must be installed with a minimum of 50mm movement in the joint.

## Polystorm Access System



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