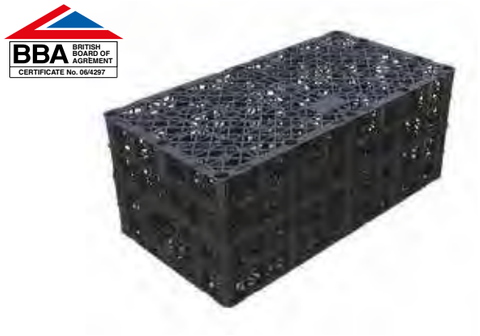
Polystorm Lite Product code: PSM2

Polystorm Lite has been specifically designed for non-trafficked applications such as landscaped areas, pedestrianised areas or public open spaces. With a compressive strength of up to 20 tonnes/m², it is able to support general maintenance vehicles such as grass cutters. Polystorm Lite can be used for retention, attenuation and infiltration applications.



Element	Value
TECHNICAL SPECIFICATION OVERVIEW	
Product code	PSM2*
Length	1m
Width	0.5m
Depth	0.4m
Total volume	0.2m³
Unit weight	7kg
Unit storage volume	0.19m³ (190 litres)
Void ratio	95%
Vertical compressive strength	Maximum 200kN/m² **
Lateral compressive strength	Maximum 40kN/m² **
Short-term vertical deflection	43kN/m² per mm
Short-term lateral deflection	6.4kN/m² per mm
Maximum burial depths: Non-trafficked	2.5m***

* Each unit includes 4 Clips and 2 Shear Connectors.

** Compressive strength at yield, maximum recommended value for design purposes.

*** Based on ground conditions being dense sand and gravel with no groundwater present, using the calculation methodology detailed within CIRIA C680 (2008). Where ground conditions differ, please consult our water management solutions Technical Department on +44 (0) 1509 615100.

For our full Polystorm Lite datasheet, please visit our Technical Hub: www.polypipe.com/civils-technical-hub

Polystorm Lite key benefits

- Compressive strength of 20 tonnes/m²
- Ideal for retention, attenuation or infiltration applications with a suitable geomembrane or geotextile
- Designed for landscaped, pedestrian or other non-loaded applications
- BBA approved
- Visual and maintenance access can be achieved when used in conjunction with Polystorm Access and Inspect
- Can be used as part of a value engineered hybrid system with Polystorm-R, Polystorm and Polystorm Xtra
- Integrated inlet and outlet
- 3D flow throughout the structure
- 95% void ratio
- 100% recyclable
- 50 years creep limited life expectancy



Polystorm-R Product code: PSM1A

Polystorm-R has been designed to provide retention, attenuation or infiltration in trafficked and loaded areas. It has a 61 tonnes/m² compressive strength and is manufactured from over 90% recycled material content.



Note: Exact colour may vary due to recycled material.

Element	Value
TECHNICAL SPECIFICATION OVERVIEW	
Product Code	PSM1A*
Length	1m
Width	0.5m
Depth	0.4m
Total volume	0.2m³
Unit weight	9kg (approx)
Unit storage volume	0.19m³ (190 litres)
Void ratio	95%
Vertical compressive strength	610kN/m² **
Lateral compressive strength	63kN/m² **
Short-term vertical deflection	60kN/m² per mm
Short-term lateral deflection	4.4kN/m² per mm
Estimated long term vertical deflection (creep)	0.2798 Ln (design life in hrs) +0.485 [Based on an applied test load = 162 kN/m²] Creep data limit 60 years
Estimated long term lateral deflection (creep)	1.0192 Ln (design life in hrs) -3.864 [Based on an applied test load = 30.8 kN/m²] Creep data limit 60 years

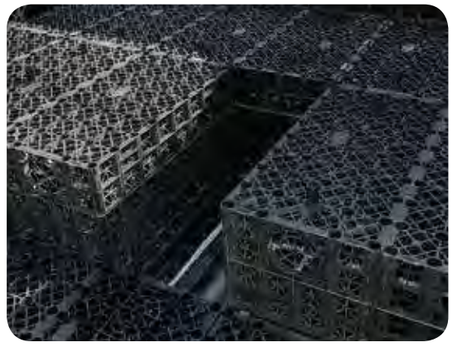
Note: Polystorm-R is ideal for use in trafficked and pedestrian applications subject to a structural design check and suitable installation conditions.

* Each unit includes 4 Clips and 2 Shear Connectors.

** Compressive strength at yield, maximum recommended value for design purposes.

Polystorm-R key benefits

- Made from specially selected and controlled recycled materials
- Environmentally friendly, sustainable solution
- Compressive strength of 61 tonnes/m²
- Ideal for retention, attenuation or infiltration applications/schemes with a suitable geomembrane or geotextile
- BBA approved
- Can be used as part of a value engineered hybrid system with Polystorm Lite, Polystorm and Polystorm Xtra
- Integrated inlet and outlet
- 3D flow throughout the structure
- 95% void ratio
- 60 years creep limited life expectancy



For our full Polystorm-R datasheet, please visit our Technical Hub: www.polypipe.com/civils-technical-hub