

Permavoid®

Water Source Control



Sports Fields



Parking Areas®



Lowest Cost Per Q

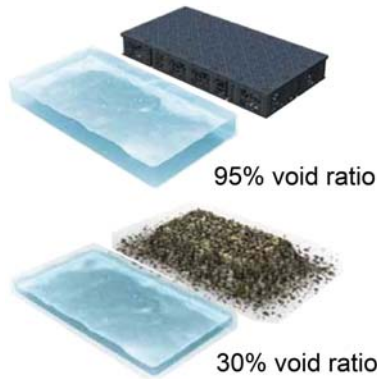


Permavoid®

ABT Permavoid® underground storage systems exceed today's "Clean Water Act" requirements through efficient and innovative products that manage storm water at its source rather than transporting it to a downstream solution. Source control in water management is the most cost effective means for the urban environment.

With ABT Permavoid® there is no need to pay to move water, haul soils, and clean stone. Further, the robust design utilizes proprietary engineered recycled plastics and patented mechanical keys that enable a direct paving course with minimal cover in an environmentally friendly manner.

Capabilities



Low Cost per Q

The geometric structure creates a 95% void for water storage, reuse or dissipation exceeding the volume and velocity requirements of the difficult urban environment. Flat pavement slopes can be used to reduce the cost of complex paving and unsightly ineffective basins necessary in moving the storm water.



Minimal excavation

The robust structure minimizes excavation and the transportation of poor soils and clean aggregate. One truckload of Permavoid is equivalent to 21 truckloads of spoil and stone. This reduces the negative environmental impact in a number of areas; from the fuel spent and excess emissions to the extra burden of traffic administration on busy streets and premature deterioration of pavement.

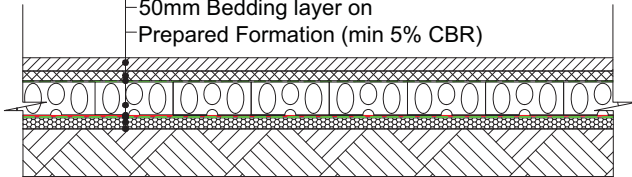


Mechanical Keys

The interlocking components create a monolithic structural slab that not only handles the most demanding vehicular loads but has the ability to mitigate buoyancy related to poor soils to include peat. This is a far superior solution to geo foam as it is more durable and is multifunctional. The product has been through the most rigorous lab and field tests and has an unmatched level of success in difficult applications.

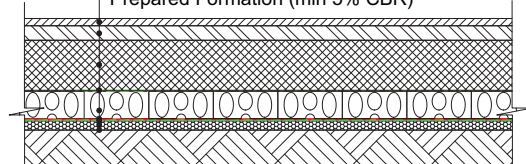
Applications

- 60mm Permeable Asphalt Surface Course on
- min 50mm Modified Granular Sub-Base material on
- Permatex Geotextile on
- 150mm Permavoid on
- Permafex robust impermeable Geomembrane on
- Permatex Geotextile on
- 50mm Bedding layer on
- Prepared Formation (min 5% CBR)



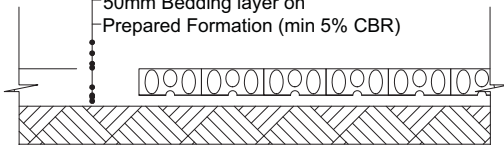
Typical Cross Section Through Permavoid Attenuation Tank Beneath Permeable Asphalt in Pedestrian Areas

- 40mm Permeable Asphalt Surface Course on
 - 80mm Permeable Asphalt Binder Course on
 - min 280mm Modified Granular Sub-Base material on
 - Permatex Geotextile on
 - 150mm Permavoid on
 - Permafex robust impermeable Geomembrane on
 - Permatex Geotextile on
 - 50mm Bedding layer on
 - Prepared Formation (min 5% CBR)
-) Min 400mm
) overall cover



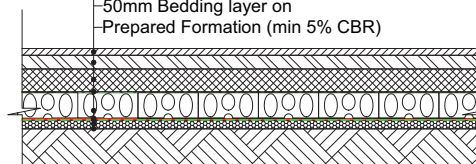
Typical Cross Section Through Permavoid Attenuation Tank Beneath Permeable Asphalt for Areas Regularly Trafficked by HGVs

- 80mm Permeable Asphalt Binder Course on
 - min 50mm Modified Granular Sub-Base material on
 - Permatex Geotextile on
 - 150mm Permavoid on
 - Permafex robust impermeable Geomembrane on
 - Permatex Geotextile on
 - 50mm Bedding layer on
 - Prepared Formation (min 5% CBR)
-) Min 130mm
) overall cover



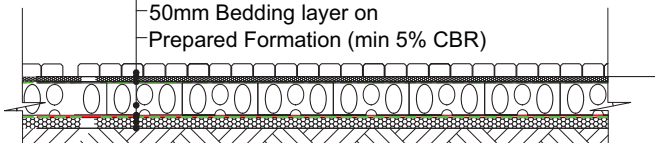
Typical Cross Section Through Permavoid Attenuation Tank Beneath Permeable Asphalt for Parking Areas (Cars-Only)

- 40mm Permeable Asphalt Surface Course on
 - 80mm Permeable Asphalt Binder Course on
 - min 140mm Modified Granular Sub-Base material on
 - Permatex Geotextile on
 - 150mm Permavoid on
 - Permafex robust impermeable Geomembrane on
 - Permatex Geotextile on
 - 50mm Bedding layer on
 - Prepared Formation (min 5% CBR)
-) Min 260mm
) overall cover



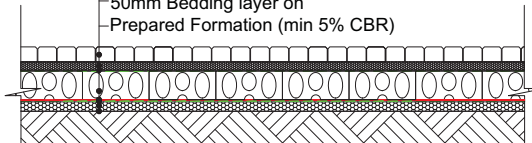
Typical Cross Section Through Permavoid Attenuation Tank Beneath Permeable Asphalt for Areas Occasionally Trafficked by HGVs (1 per week)

- 60mm Permeable Concrete Block on
- min 30mm Modified Granular Sub-Base material on
- Permatex Geotextile on
- 150mm Permavoid on
- Permafex robust impermeable Geomembrane on
- Permatex Geotextile on
- 50mm Bedding layer on
- Prepared Formation (min 5% CBR)



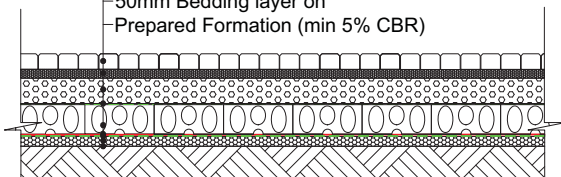
Typical Cross Section Through Permavoid Attenuation Tank Beneath Permeable Concrete Block Paving in Pedestrian Areas

- 80mm Permeable Concrete Block on
 - 50mm 5-6mm single sized bedding layer on
 - Permatex Geotextile on
 - 150mm Permavoid on
 - Permafex robust impermeable Geomembrane on
 - Permatex Geotextile on
 - 50mm Bedding layer on
 - Prepared Formation (min 5% CBR)
-) Min 130mm
) overall cover



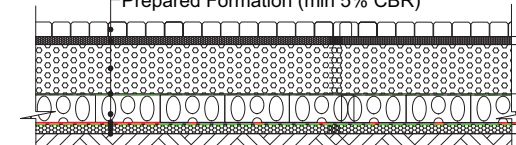
Typical Cross Section Through Permavoid Attenuation Tank Beneath Permeable Block Paving for Parking Areas (Cars-Only)

- 80mm Permeable Concrete Blocks on
 - 50mm 5-6mm single sized bedding layer on
 - 130mm Modified Granular Sub-Base Material on
 - Permatex Geotextile on
 - 150mm Permavoid on
 - Permafex robust impermeable Geomembrane on
 - Permatex Geotextile on
 - 50mm Bedding layer on
 - Prepared Formation (min 5% CBR)
-) Min 260mm
) overall cover



Typical Cross Section Through Permavoid Attenuation Tank Beneath Permeable Block Paving for Areas Occasionally Trafficked by HGVs (1 per week)

- 80mm Permeable Concrete Blocks on
 - 50mm 5-6mm single sized bedding layer on
 - 270mm Modified Granular Sub-Base Material on
 - Permatex Geotextile on
 - 150mm Permavoid on
 - Permafex robust impermeable Geomembrane on
 - Permatex Geotextile on
 - 50mm Bedding layer on
 - Prepared Formation (min 5% CBR)
-) Min 400mm
) overall cover



Typical Cross Section Through Permavoid Attenuation Tank Beneath Permeable Block Paving for Areas Regularly Trafficked by HGVs

Permavoid®

Water Source Control

Visit our website www.sportsedge.com for the latest details, specifications and catalog Updates



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