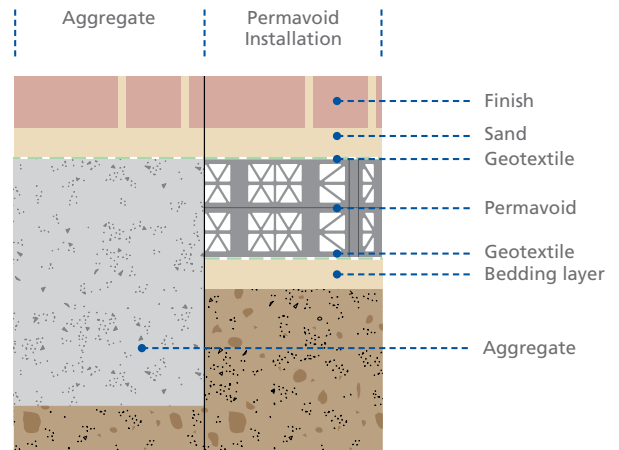


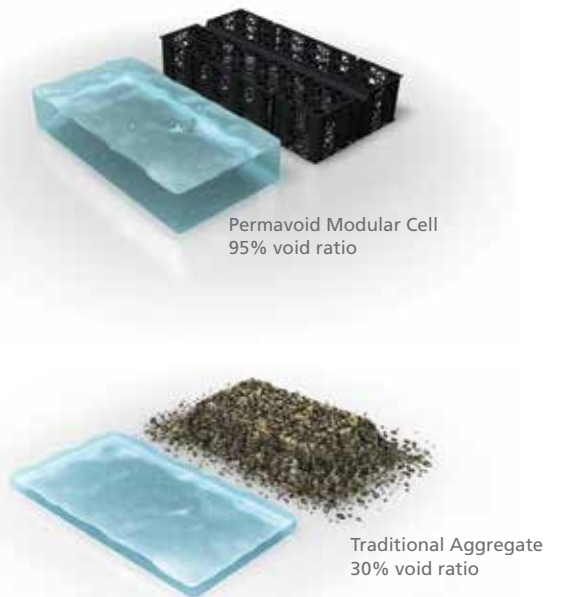
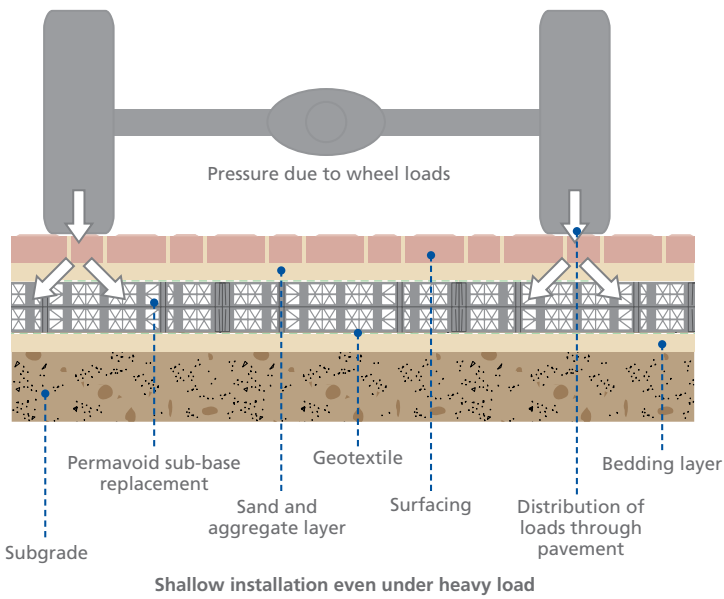
## Permavoid Sub-Base Replacement System

The Permavoid geocellular system is designed to be used in place of, or in conjunction with, a traditional aggregate sub-base, providing a **unique high strength, consistent structural raft** with all the benefits of a high voided modular geocellular structure.

The Permavoid system can be incorporated into the full range of traffic conditions, from domestic driveways to HGV applications, and is suitable below pervious and impervious asphaltic, block paved or concrete paved areas. The system complies with the requirements of **BS 7533-13** and incorporates a high vertical compressive strength of 715 KN/m<sup>2</sup> and lateral compressive strength of 156 KN/m<sup>2</sup>.



Typical Permavoid Sub-Base Replacement System v Traditional Aggregate Sub-Base

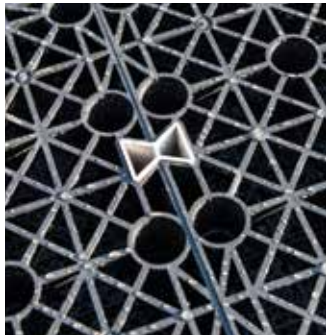


Permavoid units are light in weight, 3kg per unit, and can be easily handled and transported. One truck load of Permavoid is equivalent to 21 trucks (20 tonnes) of aggregate.

- Strong Interlocking Raft
- Beneath porous & non-porous surfaces
- Source Control
- Treatment
- Retention
- Attenuation
- Infiltration

Permavoid has a unique tapered jointing system that creates an interlocking raft. The raft transfers tensile stresses giving it exceptional strength that can support vertical loads in:

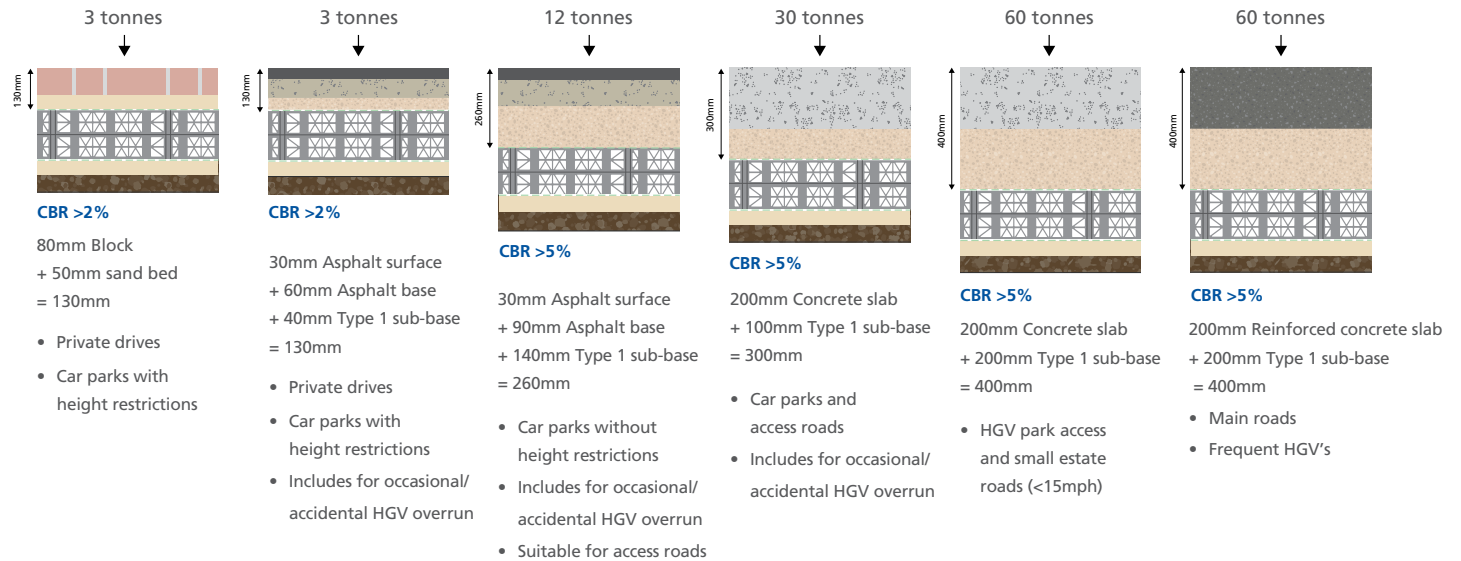
- Landscaped Areas
- Car Parks
- Service Yards
- HGV Areas
- Sport / Leisure Areas
- Green Roofs / Roof Gardens



## Permavoid Sub-Base Replacement System Benefits

- Discrete shallow storage tanks avoid deep excavation, thereby reducing 'cut and fill' works on-site
- Health, safety and Construction Design Management (CDM) benefits associated with shallow, non man-entry drainage (especially if contaminated ground conditions are present)
- Reduction in shoring requirements
- Reduction in construction time
- No need for trench supports

## Maximum Load for Structural Capacity Examples



Note: Site ground investigations are recommended in accordance with BS 7533:19:2009. If CBR is below 5% an additional capping layer or geo-grid ground reinforcement is required.



## Contact Us

to find out about our Technical Workshop

Look out for our Permavoid Technical Manual, available to download from our website