

GEOBLOCK® - PERMEABLE PAVING SYSTEM

Stormwater system infrastructure is under increasing demand, and one of the most effective methods of reducing the demand is to retain stormwater on-site. It makes for an easy win for both sustainable and cost-saving purposes.

Permeable paving systems not only reduce stormwater runoff on sites but can absorb precipitation and allow it to infiltrate into the soil and recharge the local aquifer. Layfield's line of permeable paving systems offers design options for a wide range of permeable vehicular and pedestrian traffic areas – from fire lanes, utility lanes, parking areas, and trails.

With topsoil infill and an engineered base, GeoBlock® has high stormwater infiltration rates and is an excellent growing medium – allowing grass to grow faster and stay healthier.

April 2023

GeoBlock® - Permeable Paving System

| Style | GeoBlock® | GeoBlock® 5150 |
|--------------------------------------|--|--|
| Material | Up to 97% Recycled Polyethylene ¹ | Up to 97% Recycled Polyethylene ¹ |
| Chemical Resistance | Superior | Superior |
| Carbon Black | 1.5% to 2% | 1.5% to 2% |
| Minimum Crush Strength (Empty) | 420 psi 2,900 kPa | 420 psi 2,900 kPa |
| Minimum Crush Strength (Sand-Filled) | 5,980 psi 41,285 kPa | 7,058 psi 48,734 kPa |
| Flexural Modulus | 35,000 psi 240,000 kPa | 35,000 psi 240,000 kPa |
| Nominal Dimensions | 1.64 ft x 3.28 ft 0.5 m x 1.0 m | 1.64 ft x 3.28 ft 0.5 m x 1.0 m |
| Nominal Unit Depth | 1.2 inches 30 mm | 2 inches 50 mm |
| Nominal Coverage Area per unit | 5.38 ft ² 0.50 m ² | 5.38 ft ² 0.50 m ² |
| Nominal Weight per Unit | 4.7 lbs 2.1 kg | 9.0 lbs 4.0 kg |
| Runoff Coefficient @ 2.5in Rainfall | 0.15 | 0.15 |

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INSTALLATION

Excavate the area making allowance for the Geoblock® and the engineered base. The natural sub base should be relatively dry and free of standing water. Level and clear the required area of large objects. If a geosynthetic separation layer is specified roll it out such that it is taut and free of wrinkles and overlap as per the specifications. An engineered fill is required under a Geoblock® installation that contains both support gravel and a quantity of topsoil to support vegetation growth. Place and compact the fill according to the Geoblock® specifications. Place Geoblock® on the engineered fill and stagger the placement to produce a "bricklayer" pattern. Slide units together so that the interlocking tabs are fully engaged and secure with screws. Fill blocks 2/3 full with uncompacted topsoil and apply a locally suitable grass seed mixture. Water the seed mixture until grass is established. Mow grass normally after establishment. A detailed installation manual is available from Layfield.

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