



A Case Study

Exterior Storage Areas



Project Details

EcoGrid used as outdoor warehouse surfacing suitable for large fork lift trucks

Client Details

Fichtel Mountains Bavaria Germany

Contractor Details

Local civil engineering company

The finished goods allowed outdoor warehousing even in harsh weather conditions and the customer wished to save the costs of building an enclosed warehouse. The customer also choose permeable paving in order to save the costs of storm water infrastructure, and additionally save yearly storm water taxes due to the low permeability coefficient, adding up to several thousand Euros every year.

The permeable surface needed to be concrete-like in performance to withstand forklift and transport truck traffic, this with minimal excavation due to high costs of disposal and gravel base.

The permeable surface means that there would be no pooling water to freeze, preventing pallets sticking to the ground, which normally requires some type of roofing. The driving surface needed to be snow ploughable due to heavy and regular snow fall, and frost resistant to prevent cracking.

Solution / Implementation

In order to meet all of the requirements, EcoGrid was used in the Sandwich method. Local construction codes for industrial asphalt had required a total depth of 32 inches. The EcoGrid in the “sandwich method” required a total depth of 16.5 inches. The calculation was made with the layering coefficient of EcoGrid in this method.

E30 EcoGrid was installed on the compacted graded ground and filled with 13 inches of clear crushed gravel. A thin layer of ¼” gravel was installed as a bedding and screeded, and the EcoGrid E50 was assembled and installed on this layer and backfilled with the same fine crushed gravel.

Testimonial

“The EcoGrid in sandwich method met all of our needs and remains flawless and the same performance even after 12 years in use. The cost of the installation was less than 50% of what it would have cost with traditional construction methods and we still save yearly storm water taxes.

Our asphalt and concrete surfaces do not stand up to the elements as well as the EcoGrid, and this permeable solution also saves salting and sanding.”
Products used: EcoGrid E30 at sub base and E50 as top layer with 10mm angular gravel base for drainage and 5mm clear chip as bedding and fill.



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