

E-layer

GCC Sport Surfaces has installed E-layers for different sporting and non-sporting organisations operating worldwide. An E-layer, also known as an elastic layer, is the foundation of a variety of artificial sport-playing surfaces, such as hockey pitches, korfbal courts and football pitches. The E-layer actually contributes to the pitch's cushioning capability and increases the players' comfort by absorbing shocks. Partly as a result of this, the chance of injuries is reduced.

An E-layer is constructed of rubber mixed with a percentage of polyurethane. The mixture ratios are specifically adjusted to the wishes, requirements and usage of the customer. It is possible to add gravel to the mixture, in which case we call it an ET-layer. An ET-layer can be applied as an alternative substructure/asphalt or as a sport-technical foundation for sports surfaces on roofs.

System properties

Water permeability	EN 12616	Open, 29540 mm/h
Layer thickness	EN 1969	15 mm to 35 mm
Compression strength	N/S1.1	$> 4 \text{ N/mm}^2 > 4 \text{ MPa}$
Tensile strength	DIN 54455	$0.1 \text{ N/mm}^2 \text{ to } 0.3 \text{ N/mm}^2$
Elongation at break	DIN 54455	$> 70\%$
Environmental requirements	DIN 18035-6	Satisfactory



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