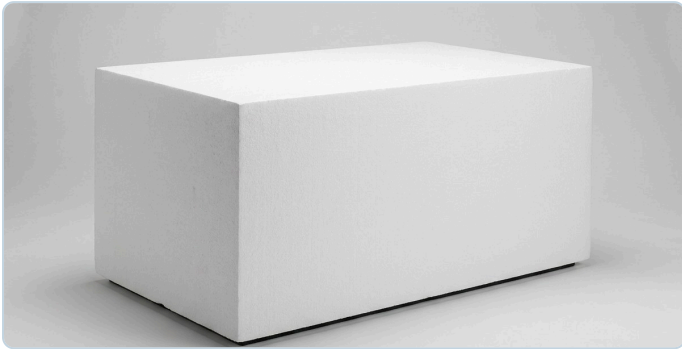


# EPS Lightweight Fill

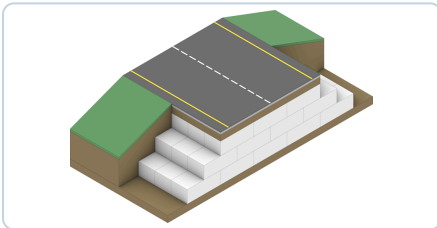
Engineered EPS block fill & void formers · geofoam for geotechnical works



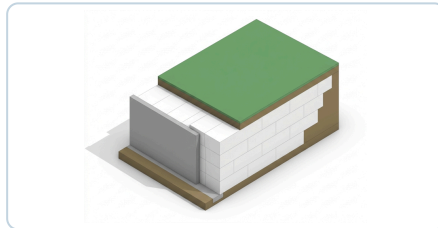
## Overview

EPS lightweight fill is engineered expanded polystyrene supplied as large closed-cell blocks weighing about one-hundredth of soil — used as void formers and lightweight fill beneath slabs, podiums and roads. It removes almost all of the load reaching soft subsoils and structures, preventing settlement and letting construction proceed without compaction or consolidation delays. In geotechnical works the same blocks are known internationally as **geofoam**, specified to **ASTM D6817 / D7180**. Placed dry and field-cut to shape on site.

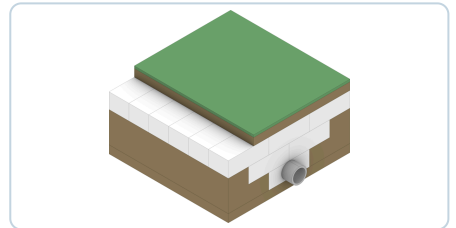
## Applications



Roads, pavements & embankments



Retaining walls & abutments



Protection of buried structures

Also: bridge approaches · slope stabilisation · void fill & compensating foundations · green roofs & podium decks.

## Benefits

- ≈ 1% the weight of soil — dramatic load reduction
- Prevents settlement on soft ground
- Placed dry — no compaction or consolidation wait
- One block lifted by 1–2 people; no heavy plant
- Field-cut to shape with hot-wire or saw
- Durable, closed-cell, hydrophobic; incidental insulation

## Specifications

Density	10–30 kg/m <sup>3</sup> (EPS12–EPS30 grades)
Compressive resistance @1% strain	15–100 kPa (grade-dependent design limit)
Typical block size	2550 × 1250 × 960 mm (other sizes to order)
Weight	≈ 1% of soil
Water absorption	< 4% — closed-cell, hydrophobic
Thermal conductivity (λ)	0.030–0.038 W/m·K
Specified to	ASTM D6817 / D7180 (geotechnical)

**Compliance.** EPS specified to **ASTM D6817 / D7180**. Fire-retardant grade EPS classified **Class B-s1,d0** to SANS 53501-1 (reaction-to-fire; combustible material — normally covered in service). Geofoam is not an Agrément-certified product line; grades and design values are to the ASTM specifications above.

Request grades, block sizes & a project quote — [info@technopol.co.za](mailto:info@technopol.co.za) · +27 11 363 2780 · [technopol.co.za](http://technopol.co.za)