



# GEOFOAM SPECIALIST







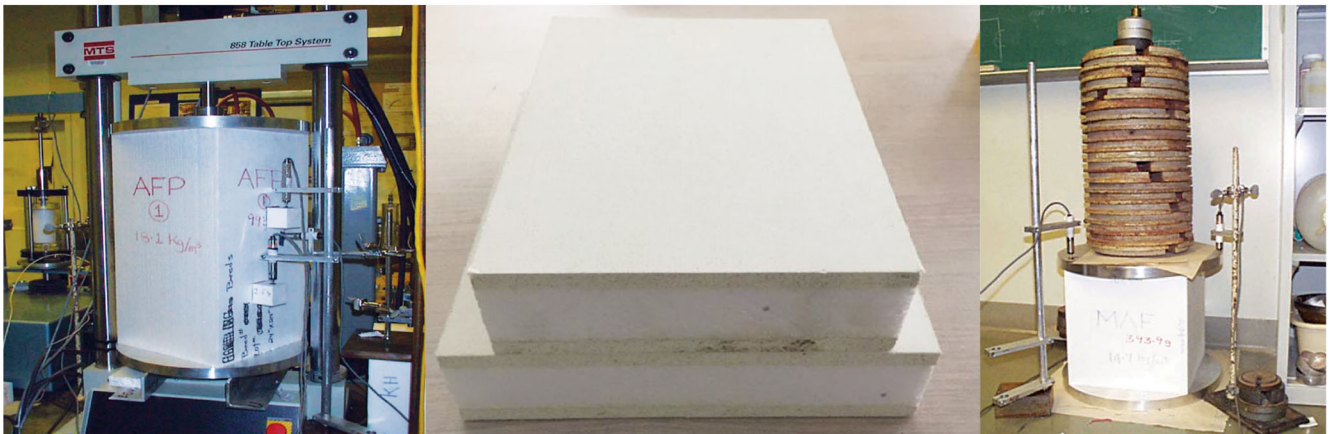
# Geofoam Specialist

Dinar Makmur was established in 1962. The first and the largest EPS producer in Indonesia. We produce a broad variety of protective packaging application through our two plants, in Karawang & Cikarang.



## What is it?

- Geofoam first application was more than 50 years ago, in Norway, to solve settlement problems. Since then, its popularity as an ultra-light ground-fill has spread worldwide. Despite its low density, geofoam is stiff enough for traffic operations. Due to its low density, embankment can be built with near-zero increment in net stress, allowing embankment to be constructed with negligible settlement. In addition, geofoam can be placed in any weather conditions, reducing construction duration multiple times in comparison to traditional fill.
- Geofoam is special type of EPS with engineered properties in compliance with ASTM D6817 that gives you control over your ground settlement.
- Geofoam has the outlook of styrofoam, but with higher stiffness to meet construction requirements within ASTM Standards.



## How is it manufactured?

- Geofoam raw material comes from polystyrene polymer beads.
- The beads are then expanded using expanding agent (pentane); fire retardant and termite protection can be added during this process.
- The expanded beads are then poured into block molding machine, where it is steamed and vaporized.
- Finally the geofoam is produced in blocks with length ranging from 2-8 m; width and height ranging from 0.5 to 1.5 m.



Polystyrene beads



Expanded beads



Geofoam blocks



Geofoam blocks being transported



## Expanded Polystyrene (EPS)

“Eco-friendly lightweight materials which provides excellent solutions to all types of Geotechnical problems”

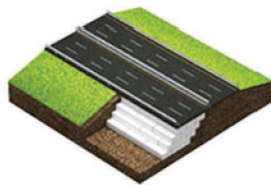
- Light-Weight
- Easy to Install
- Fire Retardant
- Fast Construction
- High Compressive Strength
- Anti Termite (Optional)
- No Heavy Equipment Needed



### Geofoam Applications



Road Construction Over Poor Soils



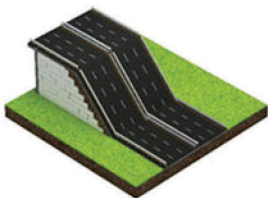
Road Widening



Airport Runway



Slope Stabilization



Bridge Underfill



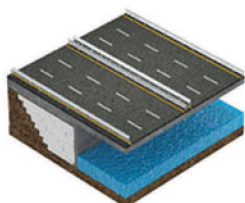
Rail Embankment



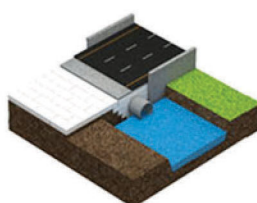
Retaining & Buried Wall Backfill



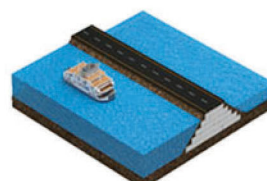
Landscaping & Vegetative Green Roofs



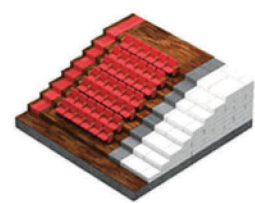
Bridge Abutment



Culverts, Pipelines & Buried Structures



Levees



Stadium & Theater Seating





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