



**A trusted lightweight structural fill,  
ready for your next project.**

# Geofoam

# Koolfoam Geofoam

**Less Weight.  
More Possibility.**

A trusted lightweight structural fill, ready for your next project.

When your project demands strength without the weight, precision without the hassle and reliability without compromise, Koolfoam Geofoam rises to the challenge.

***Contact us today on (09) 279 9611***



## Going big?

Got a big project? We've got the big blocks. Koolfoam Geofoam is an ultra-lightweight engineered fill material that gives architects, engineers and builders a smart way to solve structural fill problems.

Manufactured in accurate custom blocks and designed to perform for decades, Koolfoam Geofoam transforms the way you build - reducing loads, accelerating timelines, and removing the guesswork from complex ground conditions. It's innovation you can literally build on.



## Why choose Koof foam Geofoam?

- ✓ Ultra lightweight up to 98% lighter than traditional fills
- ✓ Multiple densities available for performance across a wide range of load and design requirements
- ✓ Ideal for road constructions and bridge abutments reduces settlement, speeds installation
- ✓ Custom cut precision blocks manufactured straight, true and to your exact specifications
- ✓ Easy to handle and install no specialised equipment required
- ✓ Consistent block density and strength you can rely on
- ✓ Long life performance engineered to last 50+ years
- ✓ Inert and non-toxic environmentally safe and stable in situ
- ✓ Pest and microorganism resistant won't rot decay or attract unwanted guests
- ✓ Predictable behaviour minimises differential settlement and load on underlying soils

## Block Sizes

Koof foam Standard Block	SL Grade EPS	S Grade EPS	H Grade EPS	VH Grade EPS
2.48 x 1.22 x 820 mm	14 kg/m <sup>3</sup>	16 kg/m <sup>3</sup>	24 kg/m <sup>3</sup>	28 kg/m <sup>3</sup>
2.70 x 1.22 x 820 mm	14 kg/m <sup>3</sup>	16 kg/m <sup>3</sup>	24 kg/m <sup>3</sup>	28 kg/m <sup>3</sup>
3.70 x 1.22 x 820 mm	14 kg/m <sup>3</sup>	16 kg/m <sup>3</sup>	24 kg/m <sup>3</sup>	28 kg/m <sup>3</sup>

## Where can I use Koolfoam Geofoam?

- ✓ Road and highway construction
- ✓ Bridge abutments
- ✓ Retaining wall lightweight backfill
- ✓ Building platforms (structural lightweight fill)
- ✓ Lightweight fill over sensitive underground services



**Want to see Koolfoam Geofoam in action?**

**See how Koolfoam Geofoam is being used to cut weight, control settlement and keep projects moving - no matter the conditions.**



## **Tauranga Eastern Link - Bay of Plenty**

**A lightweight fill on one of New Zealand's largest transport upgrades.**

The Tauranga Eastern Link needed a fill material that could perform on soft ground, reduce settlement and keep construction moving on tight timelines.

Koolfoam Geofoam was used extensively to support long motorway embankments and bridge approaches across this major 21+ kilometre corridor.



## Benefits of using Koolfoam Geofoam in this project

- Ultra-lightweight fill reduced pressure on weak subsoils
- Faster installation compared to staged traditional embankments
- Predictable long term performance ideal for high-traffic highways
- Precision-cut block streamlined construction on complex embankments
- Reduced settlement risk across a multi bridge, coastal motorway route.

# Lambie Drive State Highway 20 – Manukau

## Delivering stability in speed in a constrained motorway environment.

The Lambie Drive section of SH20 sits within a busy industrial and motorway interchange zone where construction space is tight and underground services are extensive. Lightweight, easy handled Koolfoam Geofoam is well suited for projects like this where load reduction and fast staging are essential.



## Benefits of using Koolfoam Geofoam in this project

- Ideal for reducing load on buried utilities and existing pavements
- Lightweight blocks make placement simple in restricted work zones
- Custom sizing helps shape complex embankments and approach ramps
- Minimises differential settlement at bridge interfaces
- Speeds construction in high traffic, limited access environments.

# Esmond Road Bridge - North Shore

## A smart solution for coastal embankments and bridge approaches.

The Esmond Road corridor connects key parts of Auckland's North Shore and sits in a coastal, space-restricted environment. Projects in this area demand a fill material that is lightweight, durable and easy to shape around existing structures - making Koolfoam Geofoam a highly effective choice.



## Benefits of using Koolfoam Geofoam in this project

- Reduces load on older bridge foundations and coastal soils
- Custom-cut blocks allow precise shaping under approach ramps
- Lightweight material simplifies work where access is limited
- Minimises long-term settlement in soft or reclaimed ground
- Durable, inert and unaffected by moisture in coastal climates.

# Koolfoam Geofoam Properties

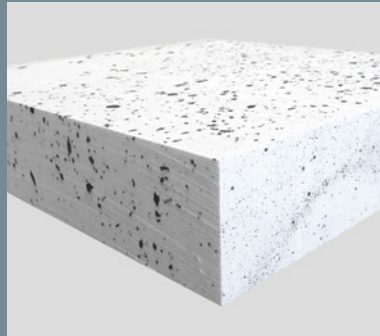
Property (test)		SL Grade EPS	S Grade EPS	H Grade EPS	VH Grade EPS
Density		14 kg/m <sup>3</sup>	16 kg/m <sup>3</sup>	24 kg/m <sup>3</sup>	28 kg/m <sup>3</sup>
Recycled content		50%	0	0	0
Compressive strength	AS 2498.3				
1%		34kPa	46kPa	62kPa	90kPa
2%		57kPa	73kPa	119kPa	177kPa
5%		76kPa	89kPa	149kPa	214kPa
10%		85kPa	98kPa	162kPa	237kPa
Young modulus		2	3.8	6.2	8
Cross breaking	AS2498.4- 1993		165kPa	260kPa	320kPa
Dimensional stability of length, width and thickness (max) at 70 deg C for 7 days	AS2498.6- 1993		1%	1%	1%
Determination of flame propagation surface ignition	AS2122.1- 1993				
Medium flame duration (max) Eighth value	AS2122.1- 1993		2	2	2
Fire behavior Spread of flame Index (0 – 10)	AS/NZ 1530		0	0	0
Smoke developed Index (0 – 10)	AS/NZ 1530		5	5	5



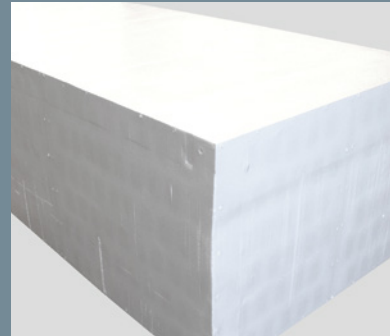
# The leading manufacturer of polystyrene products



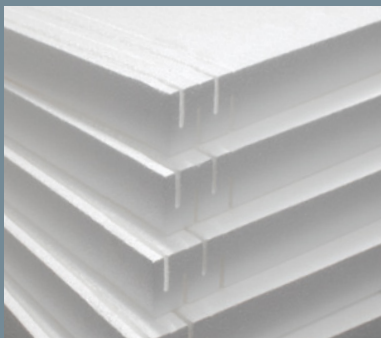
Under Slab Insulation



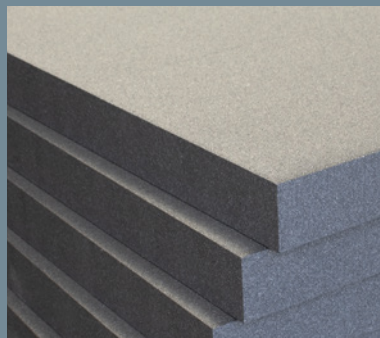
Solid Eco Pods



Geofoam / Polyrock Block



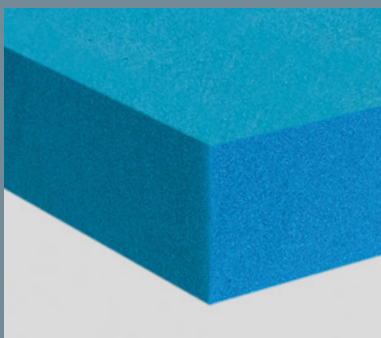
Under Floor Insulation



Black Pearl



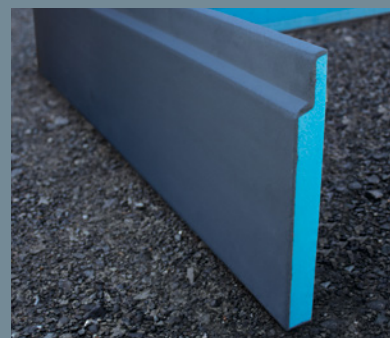
Waffle Pod



Koolfoam XPS



SlabEdge



SlabEdge Postpour/Retrofit

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