

Bluebay Ground Heave & Polystyrene Products

Clayshield EPS Polystyrene Sheets

Clayshield is the proven solution to protecting foundations against the effects of clay heave and soil movement on the side of deep trench foundations or the side and underside of ground beams.

Clayshield boards are manufactured from expanded polystyrene (EPS), a lightweight, closed cell system with excellent compressibility. The cells in the board contain air, which compress under the pressure of expanding, wet clay soils, acting as a buffer between the ground and the foundation.



Application	Position	Clayshield Product
Deep trench foundations	Side	Clayshield
Ground beams	Side / Underside	Clayshield
Ground beams	Underside	Castellated Clayshield / Clayshield
Piles	Encasement	Pile Collars

Property	Clayshield
Board size (mm)	2400 x 1200
Thickness (mm)	50, 75, 100, 200, 300
Effective Depth	Deep trenches up to 3m, ground beams up to 600mm
Colour	Light blue

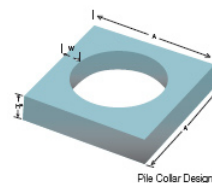
Castellated Clayshield

Castellated Clayshield is used to protect the underside of ground beams; Pile Collars and the innovative Clayshield Fixing Tool, which enables groundworkers to secure the protective boards in place while remaining outside the trench.

Property	Castellated Clayshield
Board size (mm)	1200 lengths, in widths to suit the trench
Thickness (mm)	100, 150, 200, 250
Colour	Light blue



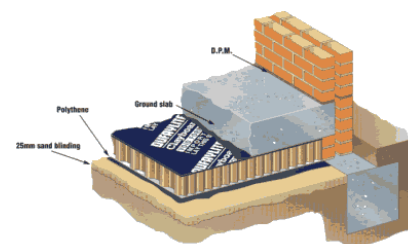
Pile Collars		
Diameter (mm)	W (mm)	A (mm)
300	50-150	400-600
400	50-150	500-700
500	50-150	600-800



Clayboard - Void Formation System

Clayboard® is unique, environmentally friendly void former and foundation stabiliser developed by Dufaylite. Clayboard® is a biodegradable honeycomb core set between lightweight polypropylene facings.

When dry, Clayboard® is strong enough to support the weight of wet concrete and steel reinforcement. Water is introduced to the Clayboard® core once the concrete is set, degrading the Clayboard® honeycomb centre which will ultimately lead to the creation of a void. This space will accommodate clay expansion without exerting undue pressure on the structure below. The resulting void continues to accommodate natural soil shrinkage & expansion.



Panel Size (mm)	Thickness (mm)
2440 x 1000	60 / 85 / 110 / 160

Polystyrene Void Formers

Polystyrene Void formers utilise the low weight/high strength characteristics of expanded polystyrene to provide the designer and contractor with a cost effective method of reducing the deadweight of a variety of structures:

Motorway Bridges, Basement Slabs, Pre-cast beams and Water Treatment Works

The voidformers are either cylindrical and generally moulded, or profiled and cut from expanded polystyrene block. The moulded cylinders are available in diameters ranging from 250 to 1050mm and the standard length is 2.4m. By glueing and cutting the profiles can be manufactured to suit engineers' requirements.

Polystyrene Sheets

Expanded Polystyrene sheets for thermal insulation of wall and ground floor slabs. Easily cut with fine tooth saw to the required size. Conforms to BS 3837: Part 1; and is BBA approved. Standard grade SD supplied from stock. Other grades readily available.

Sheet Size	Thickness
2.44 x 1.22m	25mm
2.44 x 1.22m	50mm
2.44 x 1.22m	75mm
2.44 x 1.22m	100mm
2.44 x 1.22m	150mm
Polystyrene Adhesive	310ml / 5 Litre