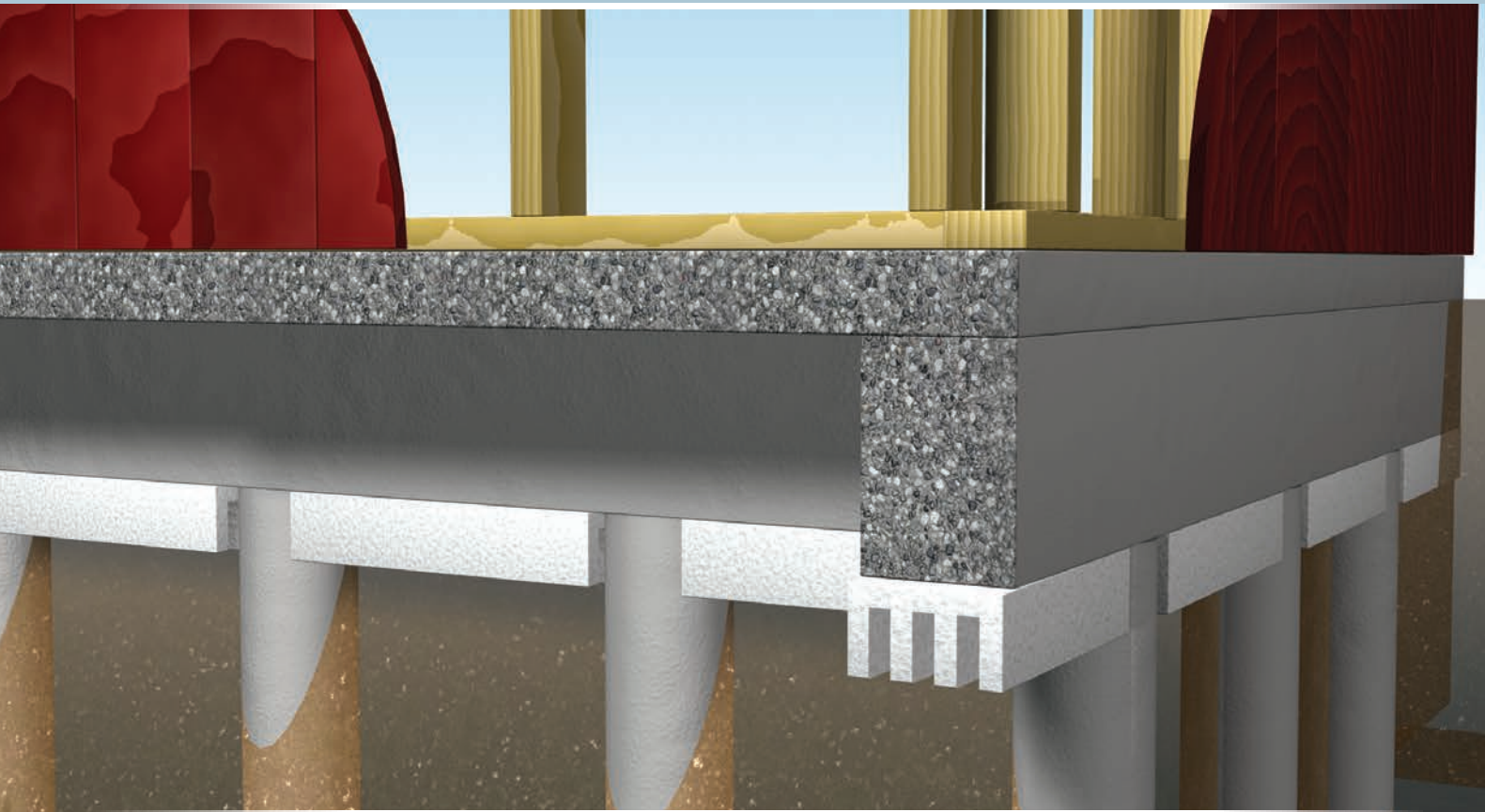




**Beaver Plastics**

# FROST CUSHION<sup>®</sup>

Grade Beam Void Form System



## PRODUCT DESCRIPTION

**FROST CUSHION** is manufactured from closed cell expanded polystyrene (EPS). It was designed specifically to be used under concrete grade beams to compensate for frost and moisture-induced swelling of underlying soils that might otherwise lift or fracture concrete foundations. Due to its closed cell structure, it will not collapse due to water absorption and resists soil movement into spaces below the concrete. **FROST CUSHION** has excellent resistance to freeze/thaw because of its low moisture absorption properties. It is not biodegradable and has no pest nutrient value.

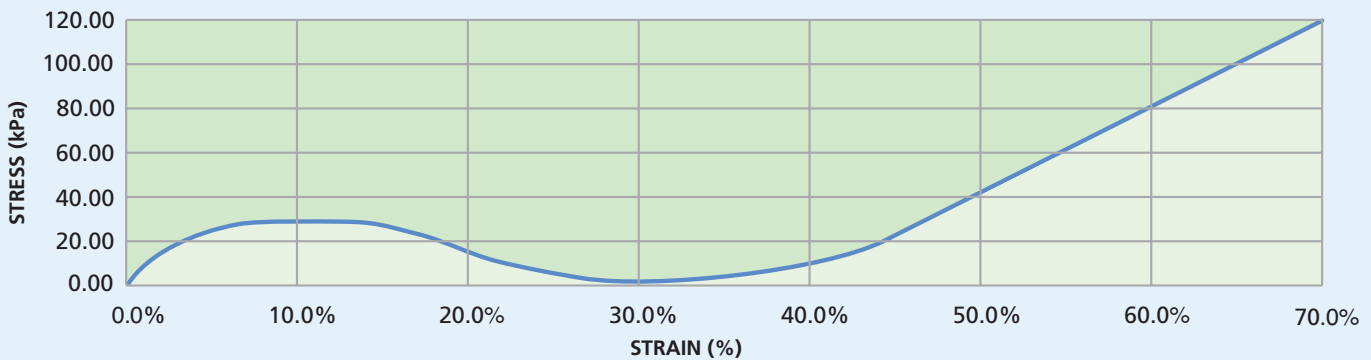
## PRODUCT PERFORMANCE

**Frost Cushion** will support up to 1 meter (39") of fresh concrete. However, because of its engineered folding-action design using alternating and slightly curved legs, it will react to subgrade uplift by deforming and collapsing at a much lower stress than "solid" void form products. It is therefore an excellent choice for protecting grade beams under lighter wood frame or metal structures. It is more easily compressed when soil swell occurs under buildings and other structures, reducing uplift stress and protecting foundations, slabs and buildings from damage.

**CHART 1: COMPARING FROST CUSHION TO SOLID VOID FORM UPLIFT FORCES**



**CHART 2: FROST CUSHION COMPRESSIVE STRESS/STRAIN TEST (ASTM D-1621)**



**CONTROLLING THE DESTRUCTIVE FORCES OF FROST AND SOIL SWELL**

Chart 1 compares the uplift forces of Frost Cushion to standard 'solid' void form as the products are being compressed by soil swell. At 50% compression, Frost Cushion's uplift force is less than 30 kPa, approximately 1/2 that of solid void uplift pressures, thus protecting structures from damage due to frost and soil swell.

**HEALTH, SAFETY AND OUR ENVIRONMENT**

Frost Cushion is one of the few foam plastic materials available that contain absolutely no CFCs, HCFCs, or other complex chemical gases. It does not contribute to climate change or atmospheric ozone depletion.

**STANDARD SIZES AVAILABLE**

THICKNESS	NOMINAL WIDTHS*	LENGTHS
100 mm (4")	200 mm (8")	2440 mm (8')
	250 mm (10")	
	300 mm (12")	
	1220 mm (48")	
150 mm (6")	200 mm (8")	2440 mm (8')
	250 mm (10")	
	300 mm (12")	
	1220 mm (48")	

\* Unless otherwise specified at time of purchase, FROST CUSHION is supplied 5 mm (1/4") narrower than stated width, in order to facilitate placement inside standard formwork.



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