



STYROBECK
BEST RANGE
FOR BUILDING
&
CONSTRUCTION

Styrosheets | GeoFoam | FormFlow | Custom Cut Parts



CATALOGUE 2017

STYRO

SHEETS

A RANGE OF SHEETS
FROM 10MM TO 520MM



// DESCRIPTION

STYROSHEETS are an excellent all round insulation panel, and is used in many other applications, such as forming voids in concrete work, in various shapes and sizes (Sheet sizes up to 1.2m x 5m). In fact our manufacturing team can cut most shapes. There is hardly an application without some form of EPS usage in the building industry.

STYROSHEETS are cut to the required thickness and the ordered sheet size from pre moulded kiln dried EPS blocks. Only virgin EPS bead is used in our production with no re grind added to the mix. The manufacturing process is based on the standard AS1366-Part 3, 1992.

// TECHNICAL DETAILS

PHYSICAL PROPERTY	UNIT						TEST METHOD
Grades	-	SL	S	M	H	VH	-
Density	kg/cu.m.	12.5	15.5	20	24	28	-
Compressive Stress at 10% deformation. (min.)	Kpa	70	85	105	135	165	AS 2498.3
Cross-breaking strength. (min.)	Kpa	135	165	200	260	320	AS 2498.4
Rate of water vapour transmission (max) measured to rise at 23° c.	mg/m²s	630	580	520	460	400	AS 2498.6
Dimensional stability of lgth, width, th.(max) at 70°c dry condition.7 days	%	1	1	1	1	1	AS 2464.5
Thermal Resistance at a mean temperature of 25°c. 'R value' @ 50mm thick.	m².K/w	1.25	1.32	1.35	1.39	1.42	AS 2122.1
Flame Propagation Characteristics:	s	2	2	2	2	2	-
Medium flame duration. (max.)	s	3	3	3	3	3	-
Eighth value. (max.)	%	18	22	30	40	50	-
Median volume retained.	%	15	19	27	37	47	-
Eighth value. (min.)	-	-	-	-	-	-	-

// APPLICATIONS

- Wall, roof and floor insulation
- Protective packaging
- Signage
- Movie sets & props
- Thermal breaks
- Void fillers
- Floatation

BEST RANGE FOR BUILDING & CONSTRUCTION



GEOFOAM EPS BLOCKS

EPS AS A BULK GROUND FILL PROVIDING STRENGTH

// DESCRIPTION

EPS BLOCKS used as a lightweight structural fill providing a cost effective solution. Supplied in a range of densities and sizes to suit the engineering design requirements. Choosing the correct density will depend on the compressive loading required. All blocks can be cut to suit specific design requirements, including penetrations, angles and two dimensional profiles. Geofoam blocks are made with fire retardant material.

// ADVANTAGES:

- Lightweight & easy to transport
- High compressive strength
- Cost effective
- Ease of placement especially in sites with limited access
- Durable long term (will not decompose)

// TECHNICAL DETAILS

STANDARD BLOCK SIZES 5.02 X 1.22 X 0.53 (3.25M³)

Note: Blocks can be cut to any size.

// APPLICATIONS

- Road embankments
- Bridge abutments
- Causeways
- Protection of underground services (Drain & sewer lines)
- Retaining wall fill

Compressive Stress at 10% deformation. (min.)	Kpa	70	85	105	135	165	AS 2498.3
Cross-breaking strength. (min.)	Kpa	135	165	200	260	320	AS 2498.4
Rate of water vapour transmission (max) measured to rise at 23° c.	mg/m²s	630	580	520	460	400	AS 2498.6
Dimensional stability of lgth, width, th.(max) at 70°c dry condition.7 days	%	1	1	1	1	1	AS 2464.5



FORM~FLOW

PROTECTING BLOCK WALL MEMBRANES

// DESCRIPTION

Styrobeck's Form-Flow board is made from 100% recycled EPS. Form-Flow is designed to protect waterproofing membranes which are applied to exterior block work, tilt slabs or concrete panel retaining walls.

Form-Flow is installed against the membrane so as to protect the waterproofing seal from the back filling process of scoria, soil, stone and rock, which could penetrate and break the membrane seal. It is a light weight easy to handle board in a standard size of 2400x1150x90mm with 5 Sheets/pack.

Because Form-Flow is porous it allows water to pass through the board thus assisting drainage around the waterproofing membrane via the installed drain coil at the base of the application.

Back filling behind the Form-Flow should start with a granular drainage metal such as scoria or sand for a portion of correct thickness prior to the general backfill being put in place.

// GEOTECHNICAL APPRAISAL

	TEST STANDARD	TEST RESULT
Property Density	ASTM D 1622-93: Standard Test Method for Apparent Density of Rigid Cellular Plastics	12.2kg/m³
Comprehensive Strength	ASTIM D 1621-94: Standard test Strength Method for Compressive Properties of Rigid Cellular Plastics	26.8kPa
Permeability	10.21/M2 at 240mm constant head Equivalent to sand (uncompressed) 7.41/ M2 at 290mm and sand-gravel constant head (compressed)	Equivalent to sand and sandgravel mixtures
Creep	Creep Refer to full Opus appraisal no.2002/01	-

// APPLICATIONS

- Drainage board
- In ground fill
- Void fill
- Barrier layer

TEST DATA: Constant Head Test Data (150mm diameter test specimens)		
Parameter	Specimen Condition	
	Uncompressed	Compressed
Head (mm)	240	290
Thickness (mm)	100	60
Flow rate (litres/ second per m2)	10.2	7.4
Permittivity (second-1)	0.04	0.03

LOOKING FOR CUSTOM CUT EPS PARTS?

WE'VE GOT YOU COVERED

With Styrobeck's five [others available on request] different density grades of EPS, Styrobeck can ensure the best material and best grade is used for your application. Our large well equipped machine shops in Auckland and Wellington can expertly cut and shape EPS materials in any quantity - from 1 off to 1000's off, in most cases delivery can be within a few days.

// APPLICATIONS

- Round, Square, Rectangle, Triangle, Heart, Octagonal Shapes
- Cake Dummies
- Sheet cut with special shaped sides or ends
- Packaging shapes for carton exports
- Wine Bottle packs
- Tile packers
- Voids for concrete formwork
- Alphabetical and Numerical lettering
- Logos
- Columns for residential housing
- Surfboard blanks
- Pipe Insulation
- Shapes for Concrete Formwork
- Sheet for under Roof Profiles



// ABOUT US

Styrobeck Ltd is a well respected NZ manufacturer of cut, shaped or moulded EPS (expanded polystyrene) products. These products offer solutions to the Packaging, Infrastructure, Manufacturing, Residential, & Commercial Building Markets. Horticultural and Fishing Industries are also supplied with our EPS. Our factories are located in Auckland and Wellington, with modern plant, our goal is to manufacture quality EPS products to meet our customer's requirements. Standard and custom designs are manufactured to support many applications.

Our staff, are dedicated to meeting the needs of customers and we work hard to produce quality on time solutions in EPS products.

We manufacture EPS packaging products for the food industry and are proud to be helping customers deliver fresh products to local and export markets. Whether our EPS is for large infrastructure projects or small one off display or packaging items, our goal is to gain full respect and satisfy all who deal with us.

Styrobeck recycles waste polystyrene from our manufacturing offcuts, and we provide a service to our customers (only in Auckland region) to take back their waste and recycle it also.



Auckland

139 Roscommon Road
Manukau City
PO Box 76-894
Manukau City 2241

Ph. +64-9-278-7175
Fax. +64-9-278-7193

Wellington

64 Pharazyn St
Lower Hutt
5010 Wellington

Ph. +64-4-586-0254
Fax. +64-4-586-0031

