

## EXPOL PLATINUM BOARD – TECHNICAL DATA SHEET

### 1.0 - Product Overview

**EXPOL Platinum Board** (Graphite Infused – Premium Expanded Polystyrene Sheet) is the ideal product for timber and steel framed buildings and under concrete floor (slab) insulation. The addition of graphite to Expanded Polystyrene (EPS) creates a product that offers one of the most effective forms of interior insulation available.

Resistant to moisture, **EXPOL Platinum Board** is an excellent choice for wall cavities as it does not allow moisture to transfer from the exterior cladding to interior wall linings.

Where superior R value, moisture resistance and flexible sizing is required, **EXPOL Platinum Board** is your best choice.



---

### 2.0 - Installation

2.1 There are no special requirements for PPE when handling or installing EPS. It is an inert, non-toxic material.

2.2 When transporting, storing or installing, ensure the EPS is not exposed to:

- Petroleum based solvents, or
- Fire, or
- Sustained direct sunlight.

2.3 PVC sheathed electrical cables should not be allowed direct contact with EPS.

2.4 EPS is compatible with all common construction products.

---

### 3.0 – Maintenance

3.1 No maintenance required

For further technical information please contact us.

P: +64 9 634 3449 F: +64 9 634 0756 T: 0800 86 33 73 E: [tech@expol.co.nz](mailto:tech@expol.co.nz) W: [www.expol.co.nz](http://www.expol.co.nz)



## EXPOL PLATINUM BOARD – TECHNICAL DATA SHEET

### 4.0 - Warranty

We believe we manufacture and supply the highest quality UnderFloor, EPS and XPS Foam Insulation products and that is why we stand behind them with some of the best warranties in the industry.

4.1 We provide a 20-year warranty on our EPS Foam Insulation Products – for full warranty details visit [www.expol.co.nz/expol-eps-warranty/](http://www.expol.co.nz/expol-eps-warranty/)

---

### 5.0 – Compliance with the New Zealand Building Code

EXPOL Platinum Board (EPS) is not subject to a warning or ban under the Building Act 2004.

For further technical information please contact us.

P: [+64 9 634 3449](tel:+6496343449) F: [+64 9 634 0756](tel:+6496340756) T: [0800 86 33 73](tel:0800863373) E: [tech@expol.co.nz](mailto:tech@expol.co.nz) W: [www.expol.co.nz](http://www.expol.co.nz)

EXPOL PLATINUM BOARD – TECHNICAL DATA SHEET

5.0 - Technical Data

Properties	Test / Method / Standard	Test Results
Material	Expanded Polystyrene with Graphite	
Density	18 kg / m <sup>3</sup>	
Sheet Size	2400 mm x 1200 mm   2700 mm x 1200 mm   3600 mm x 1200 mm   4800 mm x 1200 mm   1200 mm x 355 mm   1200 mm x 555 mm   2450 mm x 1200 mm	
Thickness / R Value	10mm	-
	20mm	R 0.63
	25mm	R 0.78
	30mm	R 0.94
	35mm	R 1.09
	40mm	R 1.25
	45mm	R 1.41
	50mm	R 1.56
	55mm	R 1.72
	60mm	R 1.88
	65mm	R 2.03
	70mm	R 2.19
	75mm	R 2.34
	80mm	R 2.50
	85mm	R 2.66
	90mm	R 2.81
	95mm	R 2.97
	100mm	R 3.13
	110mm	R 3.44
	120mm	R 3.75
Thermal Conductivity	ATSM 168	K – Value 0.032
Rate of water vapour transmission (max) measured parallel to rise at 23 deg C	AS 2498.5	- mg/m <sup>2</sup> s
Permeability m/s	-	
Compressive Resistance KPA at 1%	AS 2498.3	- KPA
Compressive Resistance KPA at 2%		- KPA
Compressive Resistance KPA at 5%		- KPA
Compressive Resistance KPA at 10%		105 KPA
Youngs Modulus	-	- MPA
Cross breaking strength KPA	AS 2498.4	200 KPA
Dimensional stability of length, width & thickness (max) at 70 deg C for 7 days	AS2498.6	1%
Long term water absorption by immersion	ASTM C72	- %v / v
Determination of flame propagation surface ignition Medium flame duration (max) Eighth vale	AS2122.1-1993	2 sec 3 sec
Fire behavior Spread of flame index (0 – 10) Smoke developed index (0 – 10)	AS/NZS 1530.3:1999	0 5
Recycled Content	0%	
Recyclability	EPS is 100% recyclable	
Environmental Statement	EPS is inert and non-toxic. There are no chemicals or gases harmful to the environment emitted from EPS either during manufacture or within use.	
Ozone Depleting Potential	EPS does not contain ozone-depleting CFC or HCFC gases, nor use them in its manufacture. As a result, EPS has zero ozone depletion potential.	
Vermin Resistance	EPS does not offer any nutritive value.	

For further technical information please contact us.

P: +64 9 634 3449 F: +64 9 634 0756 T: 0800 86 33 73 E: [tech@expol.co.nz](mailto:tech@expol.co.nz) W: [www.expol.co.nz](http://www.expol.co.nz)