

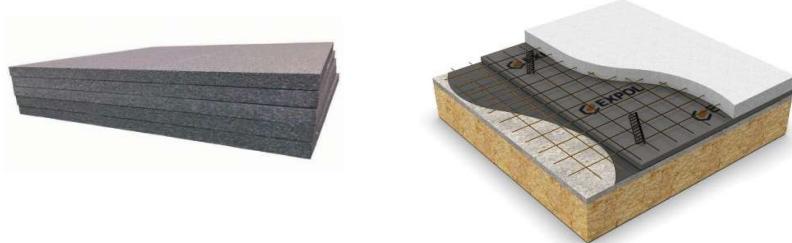
EXPOL PLATINUM BOARD – TECHNICAL DATA SHEET

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.

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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/

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.

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5.0 - Technical Data

| Properties | Test / Method / Standard | Test Results |
|---|---|--|
| Material | Expanded Polystyrene with Graphite | |
| Density | 18 kg / m3 | |
| 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 25mm 30mm 35mm 40mm 45mm 50mm 55mm 60mm 65mm 70mm 75mm 80mm 85mm 90mm 95mm 100mm 110mm 120mm | R 0.30 R 0.63 R 0.78 R 0.94 R 1.09 R 1.25 R 1.41 R 1.56 R 1.72 R 1.88 R 2.03 R 2.19 R 2.34 R 2.50 R 2.66 R 2.81 R 2.97 R 3.13 R 3.44 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/m2s |
| Permeability m/s | - | |
| Compressive Resistance KPA at 1% Compressive Resistance KPA at 2% Compressive Resistance KPA at 5% Compressive Resistance KPA at 10% | AS 2498.3 | - KPA - KPA - KPA 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. | |

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