

**Product Name:**

EXPOL Expanded Polystyrene (EPS) Tuff Pods (**EXPOL Tuff Pods**)

This includes the following products:

- **EXPOL Tuff Pods** <https://www.expol.co.nz/expol-tuff-pods/>
- **EXPOL Centre Spacers** <https://www.expol.co.nz/pod-floor-systems/>
- **EXPOL 100mm Spacers** <https://www.expol.co.nz/pod-floor-systems/>
- **EXPOL 300mm Spacers** <https://www.expol.co.nz/pod-floor-systems/>
- **EXPOL Unimax Spacers** <https://www.expol.co.nz/pod-floor-systems/>
- **EXPOL Centre Spacers** <https://www.expol.co.nz/pod-floor-systems/>
- **EXPOL Clip on Spacers** <https://www.expol.co.nz/pod-floor-systems/>
- **EXPOL Podsticks** <https://www.expol.co.nz/pod-floor-systems/>

**Product Description and its intended use:**

- **EXPOL Tuff Pods** are suitable for any raft or floating pod floor system used throughout New Zealand. Made from expanded polystyrene, **EXPOL Tuff Pods** are exceptionally durable, retaining compressive strength, resistance to water and thermal insulation for the life of the building.

- **EXPOL Tuff Pods** are available in a range of sizes and materials, as follows:

	Length (mm)	Width (mm)	Thickness (mm)
<b>Expol Tuff Pods Moulded</b> 	1100	1100	220
	1100	1100	300
<b>Solid Pods made from Recycled Material - Non Structural</b> 	1200	1200	200
	1200	1200	300
	1800	1200	200

For further technical information please contact us.

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**EXPOL Centre Spacers, 100mm Spacers, 300mm Spacers, Unimax Spacers, Centre Spacers, Clip on Spacers and Podsticks** aid in the installation of **EXPOL Tuff Pods**.

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**Product Identifier:**

- **EXPOL Tuff Pods,**
  - **EXPOL Centre Spacers,**
  - **EXPOL 100mm Spacers,**
  - **EXPOL 300mm Spacers,**
  - **EXPOL Unimax Spacers,**
  - **EXPOL Centre Spacers,**
  - **EXPOL Clip on Spacers,**
  - **EXPOL Podsticks.**
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**Place of Manufacture:**

- New Zealand
- Overseas
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**Legal and trading name of the manufacturer (s):**

EXPOL Limited

**Address for Service:**

105 Captain Springs Road

Onehunga

AUCKLAND 1061

**Website:**

[www.expol.co.nz](http://www.expol.co.nz)

**Email address:**

[tech@expol.co.nz](mailto:tech@expol.co.nz)

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**Phone No.:**

0800 86 33 73

**NZBN:**

9429040411026

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**Relevant Building Code Clauses:**

- **Clause B2 Durability, performance B2.3.1 (a), B2.3.1(b),**
- **Clause E3 Internal moisture performance E3.3.1,**
- **Clause F2 Hazardous building materials performance F2.3.1,**
- **Clause H1 Energy Efficiency, Performance H1.3.1 (a) and H1.3.2 E.**

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**Statement on how the building product is expected to contribute to compliance:**

- **Clause B2 Durability, performance B2.3.1 (a), B2.3.1(b):** *EXPOL Tuff Pods* have a durability of at least 50 years where transported, stored and installed correctly.

Refer to the design and installation requirements for further information.

- **Clause E3 Internal moisture performance E3.3.1:** *EXPOL Tuff Pods* are moisture resistant and provides thermal resistance where transported, stored and installed correctly.

Refer to the design and installation requirements for further information.

Refer to <https://www.expol.co.nz/resource-centre/?wpdmdl=4221> for water vapor transmission rates by grade.

Refer to <https://www.expol.co.nz/resource-centre/?wpdmdl=4221> for product R-values by grade and thickness.

- **Clause F2 Hazardous building materials performance F2.3.1:** *EXPOL Tuff Pods* are manufactured from Expanded Polystyrene (EPS) - an inert, non-toxic material.

- **Clause H1 Energy Efficiency, Performance H1.3.1 (a) and H1.3.2 E.:** *EXPOL Tuff Pods* provide thermal resistance where transported, stored and installed correctly.

Refer to the design and installation requirements for further information.

Refer to <https://www.expol.co.nz/resource-centre/?wpdmdl=4221> for product R-values by grade and thickness (for solid *EXPOL Tuff Pods*).

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**Limitations on the use of the building product:**

**EXPOL Tuff Pods** comply with manufacturing standard AS 1366 Part 3 1992.

**Design requirements that would support the appropriate use of the building product:**

Standard **EXPOL Tuff Pod** Construction details:

Fig 6.1 **Masonry Wall**

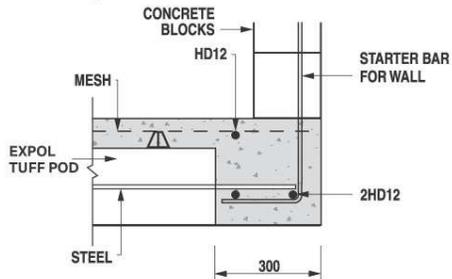


Fig 6.2 **Timber Frame**

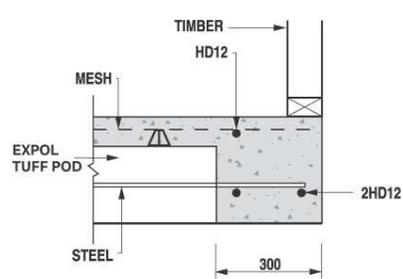


Fig 6.3 **Brick Veneer**

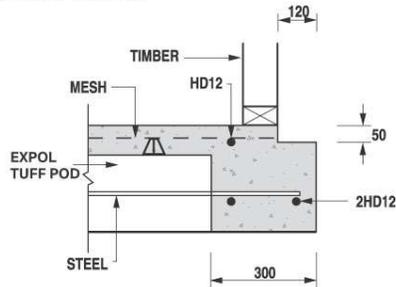


Fig 6.4 **300mm Rib**

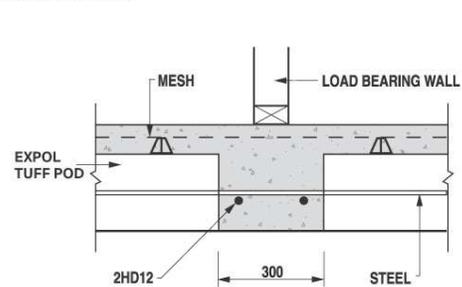
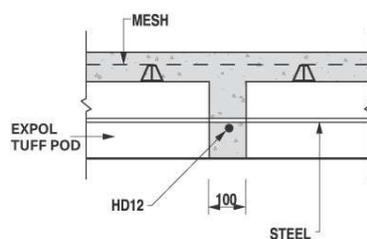


Fig 6.5 **100mm Rib**



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- When transporting, storing or installing, ensure the **EXPOL Tuff Pods are** not exposed to:
    - Petroleum based solvents, or
    - Fire, or
    - Sustained direct sunlight.
  - PVC sheathed electrical cables should not be allowed direct contact with **EXPOL Tuff Pods**.
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### Installation Requirements:

#### STAGE 1

Clear and level the site. A footprint of the building site can be outlined, and a layer of fines spread over the area. Construct and erect the boxing and lay the damp proof membrane over the fines. Plumbing and services go in at this stage.

#### STAGE 2

The site is now ready for placement of **EXPOL Tuff Pods**, in conjunction with the **EXPOL Unimax Spacer, Wilton Joubert Spacers** or the **EXPOL 100mm & 300mm Spacers**. The type of spacers will generally be determined by the engineer or specifier. Pods are placed 300mm in from the perimeter boxing and 100mm apart over the floor area, or as recommended in the engineer's schedule. Reinforcing steel is laid around the perimeter and between the pods. Steel mesh is then laid over the pods using bar chairs or pod sticks where necessary.

#### STAGE 3

The site is now ready for the pouring of concrete, which can be pumped or barrowed. The concrete should be vibrated and screeded as per normal practice and adequate curing time should be allowed. Remove the boxing after curing.

- There are no special requirements for PPE when handling or installing **EXPOL Tuff Pods**. It is an inert, non-toxic material.
- When transporting, storing or installing, ensure the **EXPOL Tuff Pods are** not exposed to:
  - Petroleum based solvents, or
  - Fire, or
  - Sustained direct sunlight.

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- PVC sheathed electrical cables should not be allowed direct contact with **EXPOL Tuff Pods**.
- **EXPOL Tuff Pods** are compatible with all common construction products.

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**Maintenance Requirements:**

- No maintenance required.

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**Is the building products/ building product line subject to a warning or ban under section 26 of the Building Act 2004:**

Yes

No

**If yes, description of the warning or ban under section 26:**

N/A

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**Date**

06 / 04 / 2023

Version	Date	Description of changes and person responsible for making changes
1.0	04/04/2023	First draft (Cameron Brooks)
1.1	06/04/2023	Reviewed and approved (Cameron Brooks)

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