

# POLYPOD

Polystyrene Pod  
Floor System

Superior  
polystyrene  
raft flooring  
system

With Bondor's Support  
and PolyPod's Strength,  
It's a Solid Foundation  
to Build On

Reduces construction time

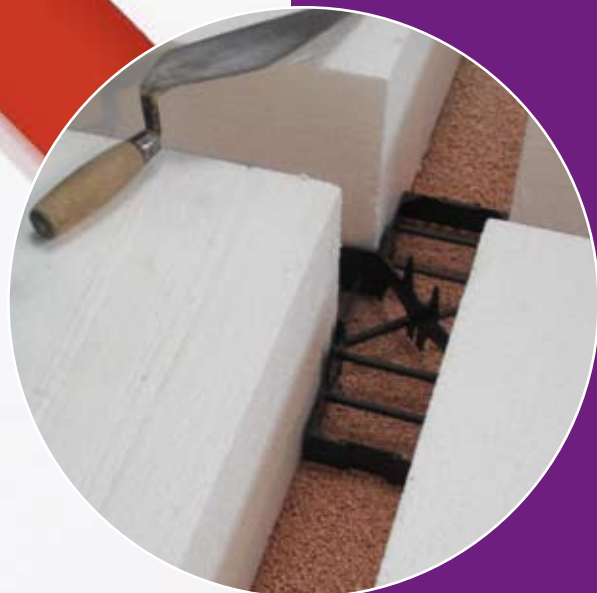
Reduces materials costs

Provides exceptional  
under-floor insulation

Solid, robust design

Made with recycled  
material

Manufactured by  
New Zealand's leading  
manufacturer of EPS  
construction products



Polystyrene raft flooring systems are fast becoming the preferred method of installing concrete floors on flat, levelled building platforms in New Zealand.

The Bondor PolyPod raft flooring system is one of the best available.

Manufactured from solid high strength polystyrene, the Bondor PolyPod system is ideal for all residential construction applications, especially where poor load-bearing soil conditions exist or water table levels are a problem.

Bondor PolyPod floor raises the internal floor level of the building above the outside ground, keeping the wall cladding out of contact with damp ground, and providing a natural barrier to water entering the building from minor external flood conditions.

PolyPods replace stone or pebble fill which is commonly quarried or dredged from natural resources creating environmental scars, and then transported by heavy transport producing carbon emissions. At one-hundredth the weight of natural fill, PolyPods have an exceptionally low carbon footprint.

### The benefits of the Bondor PolyPod system include:

#### Speed

The Bondor PolyPod system only requires a level site, and no excavation is needed for footings. One concrete pour (not two!) produces the finished floor.

#### Ease of installation

The accurate and consistent dimensions of each Bondor PolyPod helps to make installation easy. When used in conjunction with the X-Spacer and X-Plus Spacer, the accuracy and consistency of the finished floor slab is ensured.

#### Thermal efficiency

PolyPods insulate the floor from the cold ground. Without insulation, a concrete floor will be almost as cold as the ground underneath and require thick expensive floor coverings to improve the comfort of the occupants, reduce condensation and dampness.

#### Bondor's PolyPods are solid

Most other concrete raft floors are made from 'waffle' pods; pods containing holes or voids.

The solid manufacture of the Bondor PolyPod system ensures a more robust pod with better load-bearing capacity and greater resistance to damage during installation. The lack of voids assists installation of plumbing and electrical services by controlling precisely where the concrete is placed, and minimises the risk of pods 'floating off' during the concrete pour.

#### Bondor PolyPods incorporate recycled material

The incorporation of recycled EPS significantly contributes to conservation by reducing waste materials that might otherwise end up in landfills.

## Bondor PolyPod System in Detail

### PolyPod:



- Size: 1100mm x 1100mm x 200mm
- Material: Solid EPS manufactured from recycled material

### X-Spacer (WJ100 Centre Spacer):



- Designed to form 100mm wide internal ribs
- Naturally creates a 200mm edge beam

### X-Plus Spacer (WJ101 Clip-on Spacer):



- Designed to increase internal ribs by 100mm
- Clips onto X-Plus Spacer (WJ100 Centre Spacer)

### Installation Instructions

1. Clear and level the site. Set out dwelling configuration by erecting boxing and lay the damp proof membrane over compacted hard fill.
2. Configure and install plumbing and services.
3. Lay PolyPods as per engineers drawing. Use spacers to create specified perimeter edge and internal beams.
4. Lay reinforcing steel in perimeter trenches and between PolyPods if specified.
5. Lay mesh over the PolyPods using bar stools.
6. Install underfloor heating components if required.
7. Check all services are in place.
8. Pour concrete and finish as normal.

### Note:

All PolyPods floors require engineering and specific design. Contact Bondor or a qualified engineer for more information.

Disclaimer: Details and specifications in this leaflet are subject to change without notice. While every care has been taken to ensure the accuracy of all details and the validity of all statements, no responsibility will be accepted for any errors or omissions.