

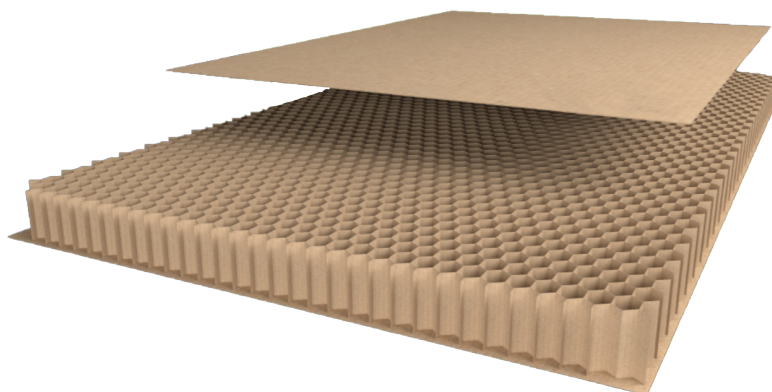
## TECHNICAL DATA SHEET

- Jointing Systems
- Polythene Builders Film
- Formwork
- Formworking Accessories
- Nails
- Tie Wire
- Loop Ties
- Waterproofing

## Form-a-Void

### DESCRIPTION

Form-a-void is a Cardboard void former consisting of a honeycomb cardboard sheet designed support the weight of wet concrete and then break down over time to form a void under the concrete. The void created reduces the risk of reactive soils from impacting on the slab or causing damage to the structure in future.



### FEATURES

- Prevents costly damage to slabs and structures built on reactive soils
- Large sheet size makes it quick and easy to install
- Can be supplied bagged (recommended) to protect from moisture before and during installation
- Available in a range of thicknesses
- Environmentally friendly - 100% recyclable cardboard
- Australian Made

### WHY VOIDFORMER?

Reactive soils occur extensively across Australia, especially along the eastern sea board. These soils typically contain a higher proportion of clay and can expand or contract when impacted by moisture. The potential damage caused to a building by ground movement can be costly and the impact is often not seen for years into the future.

### ESTIMATING & SIZES

Cardboard Void Former is available in the following sizes

Code	Height	Width	Height
VFL2412-50	50mm	1200mm	2400mm
VFL2412-75	75mm	1200mm	2400mm
VFL2412-100	100mm	1200mm	2400mm
VFL2412-125	125mm	1200mm	2400mm
VFL2412-150	150mm	1200mm	2400mm
VFL2412-175	175mm	1200mm	2400mm
VFL2412-200	200mm	1200mm	2400mm

Other sizes and thicknesses available on request.

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## SPECIFICATION INFORMATION

The level of soil reactivity on a piece of land can have a huge influence on a dwelling's structure for many years. An engineer can test the soil and grade it.

Soil is graded according to the Australian Standard AS 2870-2011, ranging from stable to problematic. Based on this classification, the below table can be used as a guide. All void former must be specified by a qualified engineer.

Site Class	Foundation	Characteristic Surface Movement Annually	Recommended Void Former Thickness
A	Little or no ground movement from moisture changes		
S	Slight ground movement from moisture changes	0-20mm	50mm
M	Moderate Ground movement from moisture changes	20-40mm	75mm
H1	High ground movement from moisture changes	40-60mm	100mm
H2	Very high ground movement from moisture changes	60-75mm	125mm
E	Extreme ground movement from moisture changes	>75mm	>150mm
P	Other (Soft soils; landslip; mine subsidence; reactive sites subject to abnormal moisture conditions)		

## WORKING LOADINGS

Form-a-void has been load tested by NATA accredited testing agency to the following loads. It should be noted, these tests are area loads, not point load, and were tested using fully dry material.

Specimen	Average Peak Load (kN)	Average Peak Load (kg/m <sup>2</sup> )
50mm	40.3	11,400
75mm	52.3	14,818
100mm	46.0	12,028
150mm	38.5	10,908
200mm	37.4	10,591

## BAGGED or UNBAGGED?

Due to the degradability of void former, we highly recommend purchasing bagged void former. If void former is exposed to moisture during transport and site storage, it will begin to degrade. In areas of high humidity, void former can break down if not adequately protected. Whilst bagging does add additional cost, it great insurance against product damage or failure.

# set-up

## TECHNICAL DATA SHEET

### UNBAGGED & UNPROTECTED



### BAGGED & PROTECTED



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## TECHNICAL DATA SHEET

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### INSTALLATION GUIDELINES

**Preventing Premature Collapse:** Cardboard void formers must be dry before use as contact with moisture can lead to degradation. They should not be affected by dampness while storing or transportation. They should be kept away from moisture until the concrete is strong enough to support itself.

**Safe Delivery:** Cardboard void formers should be used as soon as they are delivered to minimise exposure to the elements of nature. Care should be taken when handling and transporting cardboard void formers to keep them off the ground, allowing air to circulate and to keep them dry.

**Usage:** Installation and concrete pouring should preferably be done straight away, preferably on the delivery day. Any delay in time can jeopardise the effective use of the void formers.

**Bar chair Positioning:** To avoid puncturing the face sheet, concentrated loading from bar chairs should be spread. Flat based chairs can be used directly on the surface. Wire leg bar chairs will need bar chair plates under them to prevent puncturing of the surface sheets.

**Installation:** Use polythene sheeting on the top side of boxes to protect the void former from moisture and the wet concrete.

The boxes shall be placed close together to prevent concrete from falling between them. Lap the polythene sheets 150mm at joins and tape them.

The polythene sheet should be pulled down the sides and then across the bottom of beam trenches. Before placing the polythene overlay, slash the poly-wrap around the boxes.

Bar chair plates with a minimum diameter of 200 mm should be under bar chairs. This is required to distribute the reinforcement load before placement of the concrete.

When pouring concrete, the concrete must be evenly placed over boxes and not heaped in one place to minimise excess loads. Concrete should not be poured from a height exceeding 400-450 mm.

**Applying Construction Loads:** Form-a-void has been tested to an area load of over 10 Tonne per square meter however when applying construction loads, care should be taken not to damage the boxes by excessive point load, distortion and dislodging of the internal partitions and external covers.

If any boxes get damaged or wet, either during or after installation, they should be replaced straight away. Concrete should never be poured over void formers which are damaged or have become affected by moisture.

Set-Up products are manufactured to the highest quality, and if used in the correct applications and in accordance with all directions, will produce quality and consistent results. However Allcon Group Pty Ltd accepts no responsibility for inappropriate usage or faulty workmanship by the end user.

Product: Set-Up Form-a-Void  
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