

WAFFLE POD Pty Ltd

Introduction

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History of Waffle Pods

- (a) First design work was carried out by Koukourou Engineers in the late 70's in South Australia.
- (b) Three engineers were: Peter Bayatta, Peter Koukourou, John Goldsmith
- (c) Introduced to AS 2870 - Residential slab and footings-Construction.
- (d) First pod made from cardboard.
- (e) First polystyrene waffle pod was made in early 1990.

History and capabilities of Waffle Pod Pty. Ltd

- (a) PODFORM started in 1996 and changed to WAFFLE POD PTY LTD in September 2000.
- (b) Located at St. Marys on 2 acres
- (c) Employs 15 people on site.
- (d) Presently working 2 shifts
- (e) Running 3 mould machines with a capacity of 35000 pods per month
- (f) Stock levels are approximately 7000 pods.
- (g) 1 truck based in Sussex Inlet to service the South Coast.
- (h) 1 truck services the Central Coast and Newcastle areas.
- (i) 4 local trucks service the Metro area
- (j) Waffle Pod Pty. Ltd. is managed by Tony Samuels.

Material handling and accessory products

- (a) Pods are strapped in bundles of 6 (225mm pod)
- (b) Pods are wrapped in either shrink wrap or netting
- (c) Pods are manually unloaded on site
- (d) Pods can be staked down
- (e) Accessories – Spacers: 4 way, 2 ways, Edge beam, Interlock, Scrap Bags

Estimation of jobs

- (a) One 200 meters roll of plastic covers approximately 170 square meters with no drop edge beams.
- (b) Pod formula is: Total area of slab in square meters divided by 1.51; e.g. $200 \text{ m}^2 / 1.51 = 133$ (guide only)
- (c) Spacer formula is: Number of Pods multiplied by 1.4; e.g. $200 \text{ pods} \times 1.4 = 280$ spacers
- (d) Bar chair formula is: Number of Pods x 4; e.g. $200 \text{ pods} = 800$ bar chairs
- (e) Mesh formula is: Total area of slab in square meters divided by 12; e.g. $200 \text{ m}^2 / 12 = 17$ sheets
- (f) Bar formula is: Total area of slab in square meters multiplied by 0.64
(Assuming there are 4 bars in edge beam) e.g. $200\text{m}^2 \times 0.64 = 128$ bars
- (g) Extras: Internal pier top bars, Drop edge beams, Pier steel

Benefits of Waffle Pods over Conventional Slabs

- (a) Quicker process: Day 1 - piers and formwork; Day 2 – installation of plumbing, pods and steel
Day 3 – pouring the slab
- (b) This reduced construction by ONE DAY.
- (c) Waffle Pods are more flexible during installation.
- (d) Waffle Pods are not as effected by wet conditions as are conventional slabs.
- (e) Less soil is removed from site.
- (f) Less concrete overruns.
- (g) Waffle Pod slabs are able to be estimated and priced easily.