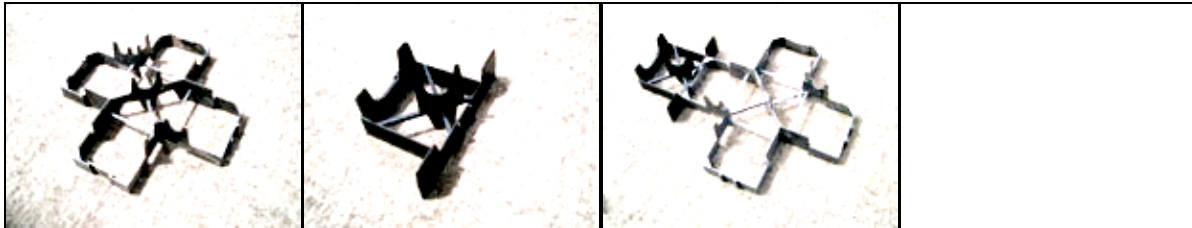


Wilton Joubert

WJ 100 & 101 - Raft Spacer System



WJ 100 Centre Spacer
Fig. 1

WJ 101 Clip-on Spacer
Fig. 2

Clip-on spacer added
Fig. 3

2 Clip-on spacers added
Fig. 4

Spacer specs and combinations.

- There are two spacers in this series, the WJ 100 Centre spacer and the WJ 101 Clip-on spacer. They can be clipped together to form a variety of combinations.
- The WJ100 Centre spacer is designed to form 100mm wide internal ribs.
- Slab thickenings or internal beams can be formed in multiples of 100mm by adding WJ 101 Clip-on spacers to the Centre spacers.
- The Centre spacer naturally creates a 200mm edge beam. The edge beam can be increased in multiples of 100mm by adding WJ 101 Clip-on spacers.

Reinforcing placement:

- A single reinforcing bar can be placed in a 100mm internal rib and two bars can be placed in a 200mm edge beam. An extra reinforcing bar can be added for each WJ 101 Clip-on spacer that is added.
- The WJ 100 and WJ 101 spacers have been designed to allow for the following concrete cover: 50mm bottom cover, 45mm internal cover to polystyrene and 75mm cover to external surfaces.

Quantity calculations:

For the basic system with 100mm internal ribs and 200mm edge beams, calculate as follows:

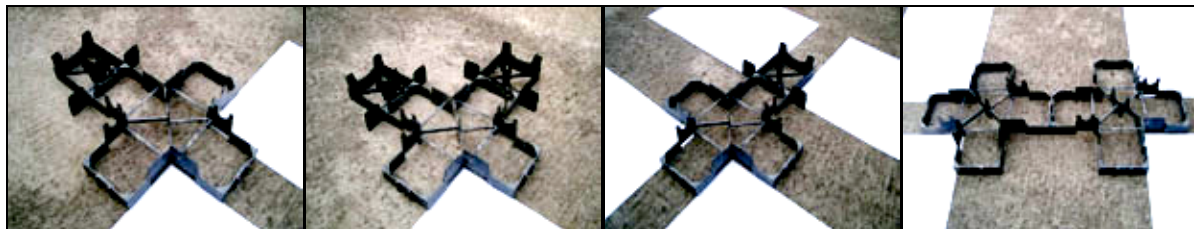
WJ 100 Centre Spacers required: (On average you will require 1.4 spacers/pod or 0.9 spacers/m² of floor area)

- One (1), Centre spacer per internal pod,
- Plus, one and a half (1.5), Centre spacers for every pod around the edges,
- Plus, one (1), extra Centre spacer for each pod on an external corner. (Fig. 6)

WJ 101 Clip-on Spacers required: (For 300mm edge beams you will require on average 1 spacer/m of boxing)

- To increase the edge beam detail from 200mm to 300mm you will require a WJ 101 Clip-on spacer for every Centre spacer where the edge beam needs to be wider. Each Clip-on spacer will increase the beam width an additional 100mm. (Fig. 5)
- The same calculation is required when increasing the width of internal ribs. (Fig 7)
- Plus, on external corners, two extra Clip-on spacers will be required for 300mm edge beams. (Fig. 6)

Notes: 1) In some cases it will be easier to join two WJ 100 Centre spacers together rather than using several Clip-on spacers. (Fig. 8)



300mm edge beam

Fig. 5

300mm ext. Corner

Fig. 6

200mm int. beam

Fig. 7

400mm int. beam

Fig. 8