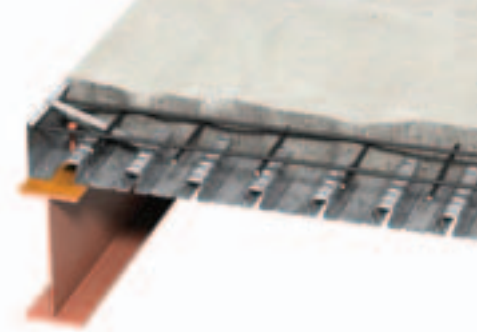



# Multideck 50-V2 Load Tables (Notes)

When using load tables for Multideck 50-V2 please take into consideration the following notes:

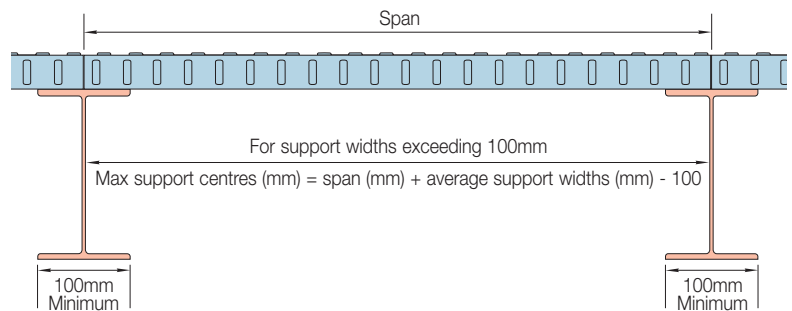
- 1 All tabulated figures include the self weight of the slab.
- 2 All tabulated figures include a construction allowance of 1.5kN/m<sup>2</sup> and for spans less than 3m construction allowance is 4.5/span.
- 3 The suggested maximum ratios of slab span to slab depth are 30 for LWC and 35 for NWC to control deflections. Deflection under construction loading (wet concrete etc.) has been limited to that stipulated in BS 5950: Part 4 1994.
- 4 Minimum reinforcement mesh sizes provide 0.1% of the gross cross-sectional area of the concrete at the support.
- 5 The composite slabs should meet the requirements of BS 5950: Part 4 1994 with regard to their composite behaviour under normal imposed loads.
- 6 Total applied load referred to in the load tables is a working load based on factored combinations of live loads, finishes, ceilings, services and partitions, divided by a load factor of 1.60 (excluding slab self weight).
- 7 Temporary supports should remain in place until the concrete has achieved its 75% of its 28 day cube strength often available after 7 days.
- 8 Where ★ appears the addition of props gives no further benefit in these cases.
- 9 Propped loads assume props are equally spaced.
- 10 Deck must lie flat on all support beams. Point only contact will affect design loading.
- 11 Where figures in **red** appear this shows the maximum permissible spans in situations where there is one stud per trough.
- 12 Span values are based on 100mm minimum support widths.
- 13 Construction stage spans are generally noted under the 4.0 kN/m<sup>2</sup> loads and shaded. For confirmation of maximum unpropped spans see page 65.



Multideck 50-V2

 **Tip:** Use the Kingspan Toolkit CD with Word output to save time on your structural calculations.

## Definition of Span (Construction Stage) When Using Kingspan Load Tables



### Support widths greater than 100mm?

The span capacities shown on the following pages can be increased by the difference between the actual support widths and 100mm.

### Example

Support widths 140mm and 200mm.

Span values can be increased by  $(140 + 200)/2 - 100 = 70$ mm.

MD50-V2 1.2mm double span deck (no props).

150mm thick slab- normal weight concrete.

Construction stage span from page 43,

4.0kN/m<sup>2</sup> load column = 3420mm.

with support widths of 140 and 200 the increased span capacity is  $3420 + 70 = 3490$ mm.