

UNISPAN FLOORING

Standard Unispan flooring is made up of a 75mm thick prestressed concrete slab which, when incorporated with an in-situ structural topping, can provide a flooring system capable of spanning up to 8m.

The completed floor provides a solid slab that reduces inter-storey noise and vibration; construction is very simple and units are manufactured to shop drawings to provide a unique, tailor made solution.

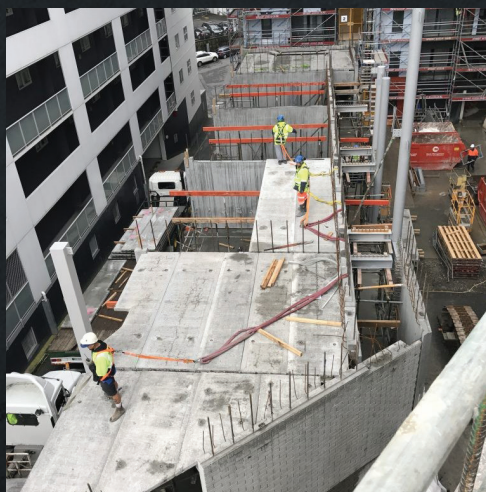
The soffits of the units are cast off steel moulds, therefore providing a flat surface which can be painted.

Unispan can also be provided in 100mm, 125mm and 150mm thick Flatslabs. They work on the same principle as the 75mm Unispan, but are capable of increased spans and/or loading.

Design tables are provided for pricing and sizing purposes but all projects are specifically designed to meet the project requirements, and these designs are available on request. If you have any design queries contact Ultimate Engineered Concrete for advice. Fire rating of 75 unispan is 60 minutes



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Unfactored maximum superimposed live load (Qb) in kilopascals (kPa), (assuming no superimposed dead load i.e. SDL = 0kPa).

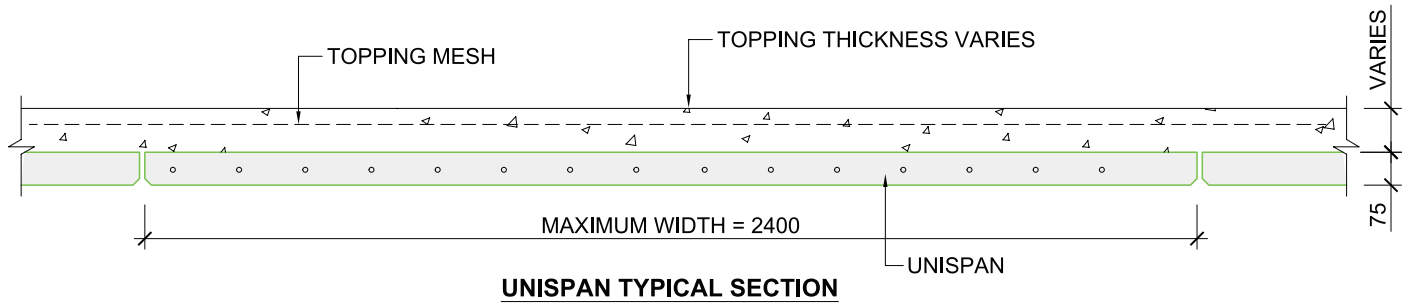
SIMPLY SUPPORTED SPAN (M)														
Unispan Depth (mm)	Self wt (kPa)	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
75	3.8	19.0	15.0	11.6	8.4	7.0	5.7	4.4						
100	4.4		20.0	15.5	12.0	9.7	7.6	6.0	4.7	3.7				
125	5.0				15.6	12.2	9.7	7.7	6.1	4.8	3.8	2.9		
150	5.6					14.8	11.7	9.4	7.5	6.0	4.8	3.7	2.9	2.1

Limit for normal deflection & vibration limits

* Shorter term live load factor = 0.7 for SLS.

NOTES

1. Spans can be increased with extra topping thickness
2. Contact Ultimate Engineered Concrete for guidance on high SDL loads.
3. The Load Span tables assume loads are uniformly distributed.
4. Max. camber span/400.
5. Contact Ultimate Engineered Concrete for more detailed information specific to your requirements.



END SEATING Ultimate Engineered Concrete recommend a minimum of the greater of, 75mm or L/180 seating onto unarmoured concrete beams and walls. The designer needs to allow for up to a 15mm tolerance and the use of bearing strips.

TEMPORARY PROPPING Spans 2.5 to 6m require 1 row, 6 to 9.0m require 2 rows.

HANDLING & STORAGE Ultimate Engineered Concrete Unispan will contain strand lifting eyes for site lifting, typically at 1/5 points, some units may have lifting at the ends. If dunnaging units on site for storage, dunnage should be placed directly under the lifting points, in-line when stacked and be placed on solid, level ground.

CAMBER Unispan cambers will vary for different loading and span requirements. The amount of pre-camber required will be specific to your project and will be confirmed with individual design. Unispan may arrive on site with a flat or negative camber due to the central prestress applied. This is usual for this product but will be rectified once placed on to the temporary props.