



FLOOD WIDE SLAB

PRESTRESSED PLATE

The Flood Wide Slab carries on our tradition of producing a composite flooring solution in 2400mm wide units. Our prestressed system of producing plate flooring allows spans of 9.50m to be achieved with ease.

A finished floor will comprise of Flood Wide Slab units, with shear key connectors across joints at mid span, a structural screed and normal mesh reinforcement.

Due to the 2400mm width of units and projecting lifting hooks from the top surface, it is possible to erect 1500 square metres of slab in a day.

This speed of erection ensures very significant on-site cost savings. Our manufacturing and casting systems allow great flexibility in forming awkward shapes and service openings.

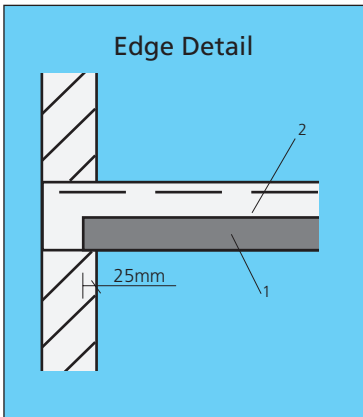


Safe Load Table for Propped Flood Wide Slab, Note: Tabular Values are Spans (m)

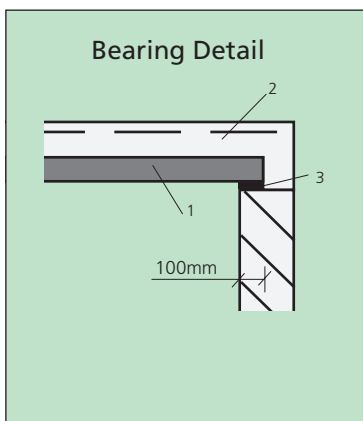
Precast Slab Depth (mm)	Screed Depth (mm)	Total Depth (mm)	Applied Load Kn/Sq.m								
			1.5	2	2.5	3	3.5	4	5	6	7
			Effective Spans								
80	75	155	5.89	5.82	5.75	5.69	5.60	5.50	5.40	5.10	4.85
100	75	175	6.65	6.60	6.50	6.39	6.28	6.15	5.98	5.66	5.39
100	100	200	7.60	7.49	7.38	7.25	7.10	6.88	6.50	6.17	5.89
125	100	225	8.50	8.37	8.08	7.81	7.57	7.35	6.96	6.63	6.34
150	100	250	9.10	8.78	8.49	8.23	7.99	7.77	7.38	7.05	6.75

Notes:

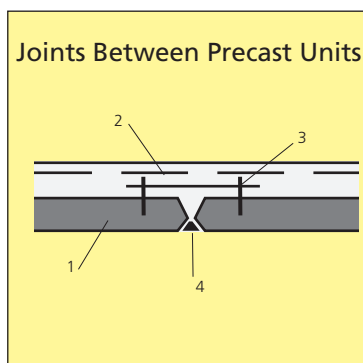
- 1 Values are 0.9 times value obtained from 18No. 9.3 strands, a maximum of 23 No 9.3 strands can be used.
- 2 Limitation of span/depth = 38 for occupancy comfort.
- 3 **The table shows typically supported effective spans in metres. Where continuity is available over supports the effective span can be increased from the values shown (Consult the Flood Technical Advice Office).**
- 4 Particular consideration of deflection and shear may reduce the span values shown above.
- 5 The Flood Wide Slab System requires structural propping in the temporary condition. This has the added advantage of eliminating any differential camber and the necessity for batten and slabbing.
- 6 Users of the brochure are advised to consult the Flood Technical Advice Office regarding sound and fire regulations for particular applications.



1. Precast Plate
2. Structural screed with top mesh



1. Precast plate
2. Structural screed with top mesh
3. Bedding mortar where necessary



1. Precast plate
2. Structural screed with top mesh
3. Shear key plus tie steel
4. Suitable joint filler

Advantages of Precast Wideslab Flooring

- 1) Savings on craneage costs. Due to the wideslab being 2.4m in width, half the amounts of lifts are required from a tower crane compared to the 1.2m-hollowcore units. On some projects a 2-man crew from Flood Flooring has fitted 1500 sq.m per visit.
- 2) Saving on construction programme. Due to the crane having fewer lifts, it is free to carry out other site works.
- 3) Once in place, the units provide an immediate working platform for other trades.
- 4) Wideslab can be designed to eliminate expensive formwork, especially around opes and cantilever balconies.
- 5) Wideslab can be designed to work compositely with steel or insitu concrete beams, reducing the beam depth.
- 6) Wideslab with projecting steel can be used with insitu beams to give a flat soffit eliminating down stand beams. This method of construction has proven popular in office and car park structures.
- 7) Due to the method of production any opes or splays can be easily formed. This is important due to the formation of service opes required with the use of bathroom and kitchen pods.
- 8) The Wideslab system provides better sound insulation properties than of Hollowcore.
- 9) The soffit of the wideslab is smooth as it is formed on a steel bed. Therefore, it can be left exposed for developments such as car parks and industrial buildings.
- 10) In apartment developments, a soffit finish called Alltek can be applied directly to the precast slab. This eliminates the expense of fixing battens; plaster slabs and skimming the ceilings. This is estimated to save approx €10 /sq. m
- 11) Reduction of on-site works due to the elimination of breaking out cores and filling with in-situ concrete to facilitate steel tie bars. This all leads to getting the screed poured earlier once the slabs are in place.
- 12) Reduction in the overall height of the structure.

The technical office of Flood Flooring should always be contacted in relation to technical data for each specific contract, before its commencement.

The specifications contained in this brochure are for information purposes only. Our products are continually updated and changes may be made to the specification from time to time. Specifications are subject to change without notice. Issue date March '07. This brochure supersedes all undated and predated copies.

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