Flood

Flood Precast
Building with Confidence

Flood Supervoidslab®

Flood Supervoidslab® is Flood Superwideslab® with attached EPS void formers that allows the slab to span further and reduces the unit self weight. This product innovation evolved due to the requirement of our customers to achieve greater structural spans whilst reducing the overall building mass and maintaining the benefits of our Flood Superwideslab®.

On steel frame project with a flat soffit requirement for flexibility of services, the overall slab thickness may be driven by the overall beam thickness which supports the floor planks by the bottom flange.

Additional projecting lattice girder is cast into the precast plank, during production, between the polystyrene void formers to anchor the plank to the structural screed and cater for the interface sheer requirements.

Flood Supervoidslab® Benefits:

- Longer spans.
- Faster installation.
- High quality soffit finish.
- Spans in two directions.
- Thermal mass and natural ventilation.
- Can be used to construct a flat slab with no down stand beams.
- Openings can be easily accommodated.
- Better sound insulation.
- Awkward shapes are easily accommodated.
- Solid slab with no cores.
- Heavy loads.
- Immediate working platform for other trades.
- Reduced beam depth.
- Less soffit joints.
- Cast in Lifting system.
- Excellent vibration characteristics.

ENVIRONMENT ISO 14001:2004 NSAI Certified

QUALITY ISO 9001:2008 NSAI Certified

OVER 75 Years in Business

Irish Concrete Federation – Set for life

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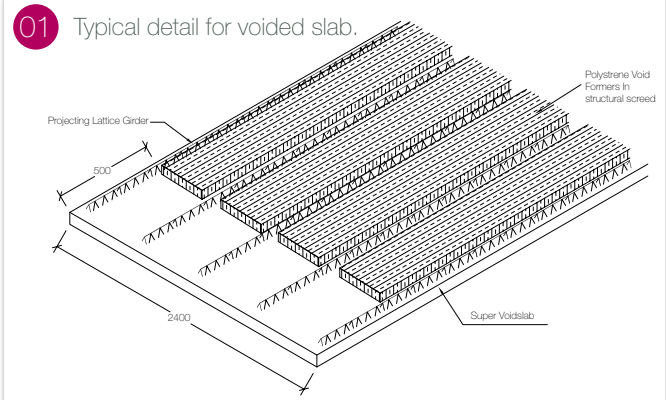
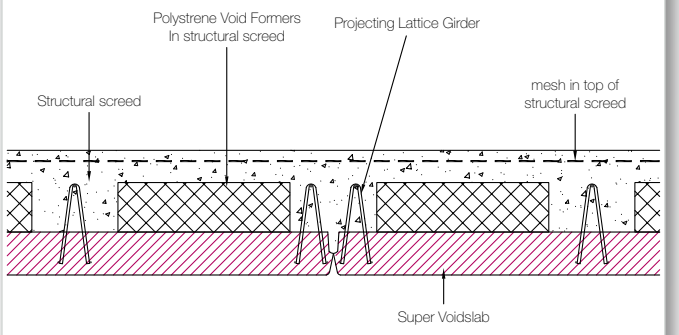
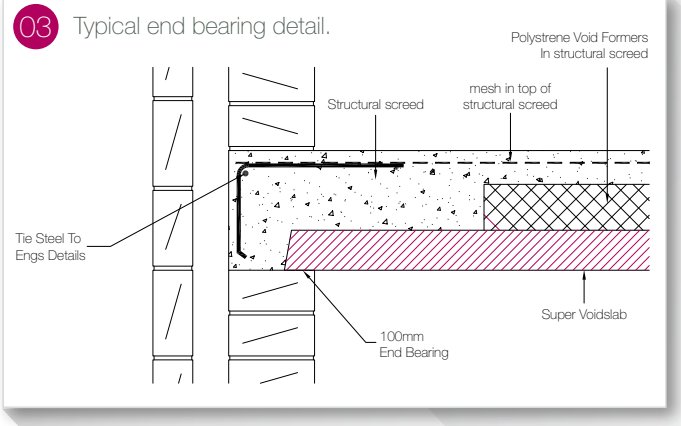
01 Typical detail for voided slab.



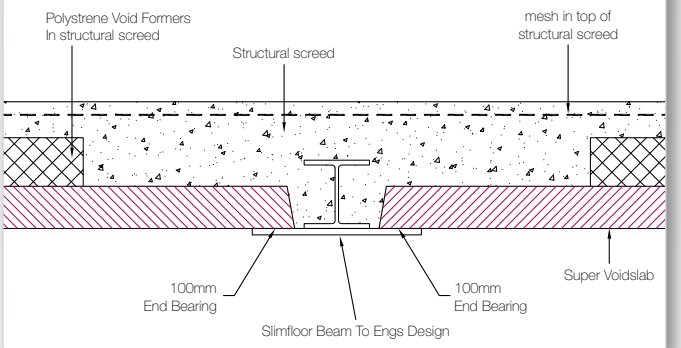
02 Typical joint at adjoining slabs.



03 Typical end bearing detail.



04 Typical end bearing detail. Slimfloor Beam.



SAFE LOAD TABLE FOR PROPPED Flood Supervoidslab®

Precast Slab Depth (mm)	Screed Depth (mm)	Total Depth (mm)	Super-Imposed Unfactored Live Load kN/m²								
			1.5kN/m²	2kN/m²	2.5kN/m²	3kN/m²	3.5kN/m²	4kN/m²	5kN/m²	6kN/m²	7kN/m²
			Effective Spans (m)								
100	150	250	9.00	8.80	8.50	8.30	8.10	7.80	7.50	7.20	7.00
100	175	275	9.50	9.20	9.00	8.80	8.60	8.40	8.00	7.70	7.40
100	200	300	9.80	9.60	9.30	9.10	8.90	8.70	8.40	8.10	7.80
100	225	325	10.10	9.80	9.60	9.40	9.20	9.00	8.70	8.40	8.20
100	250	350	10.30	10.00	9.80	9.60	9.50	9.30	9.00	8.70	8.50

Notes

1. Values are obtained from using a maximum 23 No. 9.3mm Strands in our 2.40m wide slab and based on 25mm cover to the prestressing strands.
2. Limitations of span/depth = 38 for occupancy comfort.
3. The Table shows typically supported effective spans in metres. Where continuity is available over the supports the effective span can be increased from the values shown (Consult the Flood Flooring Technical Office)
4. These values are based on a Flood wideslab system which requires structural propping in the temporary condition.
5. Area of void formers is based on 4no rows of void formers 400mm wide on a 2.4m wide slab. The depth of void former is based on overall
   slab depth minus 100mm plate at bottom and minum 75mm on concrete over top of void former.
6. Spans in excess of 7.5m will a single propline in place prior to erecting slab. Spans in excess of 8m will require 2 lines of propping in place prior to erecting slab. These props should be set to form minimum camber of 1mm per 1m length of span.
7. Values shown are for guidence. Consult Flood Flooring Technical office regarding specific design queries.