



STRESSLITE PRECAST

BUILDING A SOLID FUTURE



TEE BEAMS

- Beam and Block Ground Floors comprise pre-stressed concrete beams laid at centres to accommodate flooring blocks.
- Prestressed Beams are manufactured with C45/55 (55N/mm² at 28 days for cubes) concrete, pre-stressed by means of 9.30mm indented steel wire to BS5896. Structural design is in accordance with BS8110.
- The concrete cover to the reinforcement is such that a moderate exposure condition as described inBS8110 is satisfied.....

BLOCKS

- The infill blocks should be 100mm thick and manufactured in accordance with BS6073.
- The blocks should be able to support a minimum transverse load of 3.5kN on a 420mm span.
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CAMBER

- The prestressed beams have inherent upward camber and due allowance should be made in the finishes to cater for this.
- Differential camber will occur where adjacent spans are of different lengths and where a change in direction of span occurs.
- The camber will generally comply with the recommendations of BS8110 and are predicted to be approximately 1/300th of the span.

GROUTING

- The floor should be thoroughly 'wetted' and a 3:1 sharp sand/cement grout brushed into all joints.

For further information on our floors please contact
00353 45891300 or sales@stresslite.ie
www.stresslite.ie





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Tee Beam Technical Information

Load / Span Charts for 180mm deep beams with 100mm thick blocks (max density = 2000 kg/m³)

		IL (Imposed Live loads & light weight partition allowance) kN/m ²						Manufactured length
	Floor Self Weight for only beams and infill blocks (kN/m ²)	2.0	2.5	3.0	3.5	4		
Beams @ 500mm Centres	2.60	4.5	4.25	3.5	2.5	2.10		
Beams @ 275mm Centres	2.94	9.50	8.50	7.0	5.0	4.25		

Weight of Beams 33kg per lm, maximum manufacturing length is 4.0m, & the min bearing is 100mm, i.e maximum clear span 3800mm.

Maximum allowed super imposed dead load for **(finishing allowance plus 50mm non-structural screed)** is 1.50 Kn/m²



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Hempstown,
Blessington,
Co. Wicklow