

STRUCTURAL DETAILS	
Manufacturing method	Prestressed / Slipformed
Standard depths available:	150mm, 200mm and 250mm
Standard widths:	1 200mm
Non-standard widths:	In 100mm increments
Minimum recommended characteristic strength of concrete at 28 days <i>* Clause 5.1.5.1 of SABS 0110-1 Ed 2.2 shall apply</i>	50Mpa for all slab depths
Prestressing wire type:	5mm dia. triple indented low relaxation wire
Prestressing strand type:	9,53mm dia. stabilized strand 12,5mm dia. stabilized strand
Suggested bearings:	On brickwork – 100mm On steel – 75mm On concrete – 75mm
Weight saving	30% lighter than a solid slab of the same depth
Service holes	Up to 90mm may be made in the panel on site
Service holes larger than 90mm	Should be referred to the Topfloor Engineer and should be formed by Echo in the factory. these holes require more specific strengthening.
Skylight and stair openings	Are formed by specifically fabricated steel hangers which are supplied and erected by Echo
Open cores	The tops of the hollow cores can be opened to receive tie steel when slabs are used in composite action with steel or concrete beams. (See more detail in the composite section)
Angled cuts	Angled /skew ends can be cut in the factory with a diamond tipped saw blade specifically manufactured to accurately cut an angle.
Installation	This service is provided by Topfloor and is included in the price - refer to Services Offered
Grouting	To be done by the client – For 150mm panels approximately 1m ³ of grout material is required per 100m ² of panels. For 200mm and 250mm panels 1.5m ³ of grouting material should be allowed for.
Levelling screed / Structural Structural topping not included in the Topfloor price	Suggested 40 - 50mm deep note that in some areas additional screed may be necessary to level the positive camber in the units resulting in a thicker screed at the ends of the slab. See screeding specifications .
Soffit / ceiling finishes	Suggested PVA finish