

# 1STFLOOR

## EXTRUDED HOLLOWCORE PRECAST FLOORS

STRUCTURAL DETAILS	
<b>Manufacturing method</b>	Prestressed / Slipformed
<b>Standard depths available:</b>	150mm, 200mm and 250mm
<b>Standard widths:</b>	1 200mm
<b>Non-standard widths:</b>	In 100mm increments
<b>Minimum recommended characteristic strength of concrete at 28 days</b> <i>* Clause 5.1.5.1 of SABS 0110-1 Ed 2.2 shall apply</i>	50Mpa for all slab depths
<b>Prestressing wire type:</b>	5mm dia. triple indented low relaxation wire
<b>Prestressing strand type:</b>	9,53mm dia. stabilized strand 12,5mm dia. stabilized strand
<b>Suggested bearings:</b>	On brickwork – 100mm On steel – 75mm On concrete – 75mm
<b>Weight saving</b>	30% lighter than a solid slab of the same depth
<b>Service holes</b>	Up to 90mm may be made in the panel on site
<b>Service holes larger than 90mm</b>	Should be referred to the 1stfloor Engineer and should be formed in the factory. These holes require more specific strengthening.
<b>Skylight and stair openings</b>	Are formed by specifically fabricated steel hangers which are supplied and erected by 1stfloor.
<b>Open cores</b>	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 <a href="#">composite section</a> )
<b>Angled cuts</b>	Angled /skew ends can be cut in the factory with a diamond tipped saw blade specifically manufactured to accurately cut an angle.
<b>Installation</b>	This service is provided by 1stfloor and is included in the price
<b>Grouting</b>	For 150mm panels approximately 1m <sup>3</sup> of grout material is required per 100m <sup>2</sup> of panels. For 200mm and 250mm panels 1.5m <sup>3</sup> of grouting material should be allowed for.
<b>Levelling screed / Structural Structural topping not included in the 1stfloor price</b>	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 <a href="#">screeding specifications</a> .
<b>Soffit / ceiling finishes</b>	Suggested PVA finish