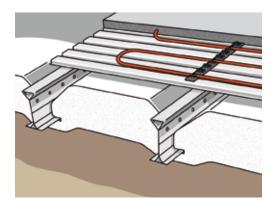
FASTSLAB FOUNDATION SYSTEM

The FastSlab Foundation System is a combination of the successful LEWIS[®] FastSlab ground floor system with the addition of a steel lattice ring beam and geoLOGIC steel helical screw piles.

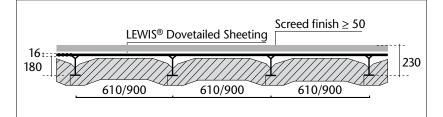
The FastSlab Foundation System is a fast track method to construct foundations and ground floors, ideal for sites with limited access, poor ground conditions, flood plain locations and areas with tree root issues. It also works equally well in all ground conditions whilst eliminating a sometimes difficult and expensive muck shift. A typical FastSlab house foundation system can be installed within one week and is ideal for all forms of timber, LGS frame, SIPS or modular building systems.

The geoLOGIC screw piles have a capability to carry significant loads at shallow depths to support a galvanised lattice beam ring beam, galvanised floor beams and large format EPS insulation and LEWIS[®] Deck composite floor slab. The ground floor is fully insulated and U Values of 0.16/0.17 are standard within the floor but can be improved to achieve 0.13 or better if required.

The galvanised lattice ring beams are all manufactured to specific dimensions to eliminate waste and the standard length FastSlab floor beams are easily cut to length on site. Floor insulation is taken care of by tightly fitting FastSlab EPS insu lation blocks that sit snugly between the floor beams creating a thermally efficient sub floor ready to accept the DPM, LEWIS[®] Deck and screed. The weight of the FastSlab floor system is only a fraction of alternative PCC Block and Beam systems and can be installed without any heavy lifting equipment.







A LEWIS[®] Deck and screed slab provides a relatively thin (from 50mm in most cases) but extremely strong and robust floor slab ready to accept final floor coverings.

If under floor heating is required, a LEWIS[®] Deck composite floor is probably the most efficient and cost effective way to introduce heating within a slab on the market today.

Advantages

- Suitable for all ground conditions
 - Cost effective
- No heavy lifting equipment
- Fast and easy to install, reducing construction time

Typical Applications

- Timber frame
- SIPS
- Light gauge steel framed systems

- High thermal performance
- Great for underfloor heating
- Minimal excavation no large and expensive Muck Shift!
- Sloping or restricted access sites
- Flood Plain conditions
- Sites with tree roots
- Any site that calls for a piled solution.







We have an experienced design team that can tailor your FastSlab Foundation System to suit specific site requirements. We can offer a complete turnkey service using one of our approved installers or we can provide on-site training for you or your builder on how to carry out the screw pile installation and assemble the FastSlab Foundation System.

Joist centre to centre dimensions	Depth of LEWIS [®] sub-floor	Dead weight of floor system excluding ring beam, etc.	Max joist length (2 support points)
610 mm	52 – 56 mm	106–118 kg/m ²	4,2 m
900 mm	52 – 56 mm	103–115 kg/m²	3,6 m

Table of load capacity of FS joists with the LEWIS [®] Deck sub-floor*				
	Loading (kN/m ²)	Point loading (kN)	Walls (kN/m ²)	Floor finish (kN/m ²)
Class A	$1,75$ $\Psi_{0,1}$ = 0,4	3	≤ 0,5**	≤1,0

Loading figures compliant with NEN-EN 1991-1:2002/NB:2007

attach the LEWIS® decking to the FS joists with self-drilling screws min diameter 4.2mm at centre to centre \leq 500mm

** line load ≤ 1 kN/m

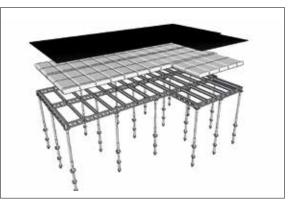
Technical	specifications	of	LEWIS®	Deck
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Sheet weight	:	5.8 kg/m ²
Nominal width	:	630 mm
Effective width	:	580 mm
Standard width	:	2500 mm
Length range	:	up to 6000 mm
FS joist		
Joist weight	:	6.5 kg/m
Standard lengths	:	3000 mm, 3300 mm, 3600 mm,
		3900 mm, 4200 mm
Insulation		
EPS filling blocks	: ce	ntre to centre 610 mm / 900 mm
Length of EPS blocks	:	1200 mm
Typical U values	:	0.13 / 0.16 / 0.17

Innovative solutions founded on logic

TED

Joists, EPS blocks and LEWIS[®] Decking easily cut to size on site







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