

The Lockbar

The lockbars support the temporary plywood formwork between the joists during construction. They are spaced approximately 300mm apart and engage in the slotted holes punched in the top section of the joist. They also maintain the exact spacing of the joists.

The standard lockbars when installed will position the joists 1230mm, 930mm or 630mm apart. There are also special adjustable lockbars that will position the joists in increments of 50mm from 330mm up to 1530mm. Other types of lockbars provide for special situations such as cantilevers or lowered soffits.

Temporary Plywood Formwork

High-density paper overlaid 12mm plywood is used as formwork to produce a first class finish to the underside of the slab.

The rigid plywood sheets are used in conjunction with the lockbars and when locked in place, provide lateral stability to the entire Speedfloor system during the construction phase.

Reinforcing Mesh

The mesh is laid out and tied into place. No chairs are required as it is held off the plywood forms by the top section of the joist, which becomes embedded in the concrete.

Concrete

The standard concrete must have a minimum 28 day strength of 25mPa. It should be batched at 60mm and superplasticized to 110mm slump to provide good placement and shrinkage characteristics. A curing compound should be used and an expanding agent can be introduced at

the engineer's request to further control shrinkage during the curing period.

The concrete should initially be placed evenly and continuously over the area to be formed. Special attention should be given to ensure the concrete is screeded and finished to the specified thickness so that designed deflections are achieved in the Speedfloor joists and the supporting structure.

ACCESSORIES

Edge Angles

A standard edge form is available in two heights (90mm & 75mm). Special heights and specially shaped edge angles can be manufactured but require longer lead times.

Jointers

Precut sections of galvanized sheet steel can be supplied to overlay joints in the ply to ensure they are flush and remain well supported while the concrete is poured.

Lockbar Hanger Angles

A galvanized steel angle with pre-punched lockbar holes is available for situations where the lockbars need support on slab edges parallel to the joists.

DURABILITY & MAINTENANCE

Compliance

When supplied and installed in accordance with the manufacturer's specifications and design parameters, the SPEEDFLOOR suspended concrete flooring system can reasonably be expected to meet the performance criteria set out in clause B2, Durability of the New Zealand Building Code for a period of 50 years.



SPEEDFLOOR