



Design Guidance - Site Works

Precast Concrete Wide Slab Flooring

Support

- The minimum support area for each end of the beam is 75mm over the continuous end of the beam.
- The support area must be designed to carry the full line load of the finished floor slab without bending and must be a smooth flat surface.
- Support may be mass concrete, steel frame or fully cured masonry.

Unit Joints

- Slabs have a structural key joint detail. Any foreign material should be removed from the joints prior to assembly.
- Variations in wideslab cross sectional dimension will produce small deviation of the joints.
- Joints are design to be filled C25 concrete.

Erection Systems

- Slabs are off loaded and installed using specialist lifting clutches located in case inserts
- Erection inserts may require cleaning prior to attaching lifting clutches.

Floor Openings

- It is usual to cut openings on site to allow for variations in unit cross sectional dimensions.
- Where openings are cast at production, these will conform with the dimension tolerances listed in BS8110.BS EN 1168.

Strand Ends

- Prestressing tendons or strands are visible at the unit ends.
- The density of the concrete means that no further treatment of the strand ends is required to ensure serviceability and durability of the units.

Progressive Collapse

- Additional reinforcement detail including preformed recesses may be included at the design stage.

Damage

- It is highly likely that precast units will suffer small chips and superficial damage to unit surface.
- This damage should not compromise the units structural integrity.
- Any areas should be repaired with a high strength mortar.
- Colour matching of suitable repair mortar to the precast unit is not possible due to high strength requirements of the repair.

DISCLAIMER:

Please note that any information provided is to be used as a guide only. Any lifting/handling operations should be carried out by trained and competent personnel only. ACP (Concrete) Limited will not be held responsible for any damage or injuries in connection with handling or installation not carried out by ACP (Concrete) Limited.