



Design Guidance - Site Works

Prestressed Concrete Block and Beam Flooring

Site Access

- Full site access free of any obstructions or trenches to all site areas is assumed unless otherwise agreed.
- Access is required to all areas of the perimeter of the building unless previously arranged at pricing stage.
- Delivery vehicles are to be unloaded onto the hardstanding area agreed as the method statement.
- A suitable hardstanding surface must be provided to enable safe lifting operations for a crane as the method statement.
- Any doubt over the suitability of the hardstanding will result in halted operations whilst investigations take place. Any delay and disruption costs due to inadequate hardstanding will be borne by the employer.
- An uninterrupted wall line must be provided, any excavations required to install units must be carried out prior to delivery.
- A minimum of 8m clear headroom is required for all installation.
- It is assumed precast installation will be the sole site activity at the time of construction.

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.

Erection Systems

- Beams are off loaded and installed using choke hitched chains.

Unit Ends

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

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 and 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.