Hollowcore Pre-stressed Flooring

hanlon CONCRETE

Fire Resistance
Hanlon Concrete floors are manufactured to the new EC2 [Euro code standard] this requires 30mm cover [35mm axle cover using 9.3mm strand] which will give 90 minutes fire protection instead of the BS8110 standard of 20mm cover [25mm axle cover using 9.3mm strand] which only gives 60 minutes of fire protection.

Thermal Insulation
The need for energy efficiency in new buildings and the relevant Building Regulations give prestressed concrete floors a clear advantage over other flooring systems.

Sound Insulation
The mass of prestressed concrete floors and the design of our hollowcore units having a minimum of 100mm solid mass concrete at both ends allows for a much superior sound insulation which is a particular advantage for domestic housing / apartments. By having the flooring unit solid concrete at the ends creates a buffer zone to prevent the sound travelling up the cavity walls and transferring the sound into individual rooms.

Flexibility of Design
Prestressed concrete floors can readily accommodate service pipes, electrical wiring etc.

Soffit Finishes
All prestressed concrete floor systems can accommodate suspended ceilings or direct plastering or painting of the soffit

Speed of Erection
Propping, shuttering and concrete pouring on site are virtually eliminated, saving time and money.

Immediate Working Platform
Once erected a prestressed concrete floor provides a safe working platform for site operatives

Superior Building Products
As structural elements these floors slabs are superior building products. They are better by design, simplicity in use and precision quality.

Solid Slab Ends
Solid slab ends on bearing walls, along the slab sides and across the slab width at any pre-planned location

Reinforced Steel
Reinforced steel can be incorporated or projected from the slab allowing for positive structural continuity on final location.

Stop Ends
Pre-planned stop ends are accurately located during production of the flooring.
At present our stressing bed will produce 1.2 meter wide prestresses slab with a varying depth from 150mm, 200mm to 250mm.

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