

Declaration of Performance



Coltman Precast Concrete, London Road, Canwell, Sutton Coldfield, West Midlands B75 SSX

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0086 - CPD- 592493

BS EN 1168 : 2005+A3:2011

Hollow core slabs for floors

PRESTRESSED HOLLOW CORE SLAB (for floors)

75, 100, 150 & 200 * 1200mm solid

150 * 1200mm Hollow core (High density- 302kg/m²)

150 * 1200mm Hollow core (Normal density- 240kg/m²)

200 & 250 *1200mm Hollow Core

ESSENTIAL CHARACTERISTICS:

Concrete:

Compressive strength (cylinder) fck = 45MPa

Prestressing steel:

Ultimate tensile strength 5mm wire f_{pk} = 1770 N/mm²
Tensile 0.1% proof stress 5mm wire f_{p0,1} = 1593 N/mm²

Ultimate tensile strength 7mm wire f_{pk} = 1670 N/mm²
Tensile 0,1% proof stress 7mm wire f_{p0,1} = 1503 N/mm²

Mechanical resistance (design values):

Bending capacity (kNm) and shear capacity (kN) for a specific unit type is given in technical documentation.

Material safety factors applied in strength calculation:

Concrete $\gamma_c = 1.5$

Steel $\gamma_s = 1.15$

Resistance to fire (REI) for specific units given in technical documentation

Geometric data. Detailing, durability, acoustic properties and NDPs given in technical documentation

Technical information can be obtained by contacting Coltman Technical Department

I hereby confirm that our prestressed flooring products comply with BS EN 1168:2005+A3:2011 and are in accordance with the stated essential characteristic listed above.

Signature: 
(As Authorised by Managing Director)

Position: Coltman Design Engineer