

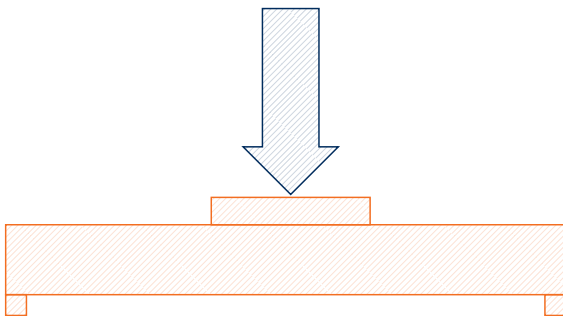
Beam and Block Flooring

Data Sheet 20
November 2017

Uniclass
L3221 :A4
EPIC
F611 :X221
CI/SfB
Ff2 (A)iv

Specification for blocks

Blocks for beam and block flooring systems are standard walling blocks to BS EN 771-3 of nominal dimensions 440mm x 100mm x 215mm.



Blocks can be either solid or cellular (Group 1 to BS EN 1996-1-1) and should meet one of the following 2 criteria:

- Have a compressive strength of 7.3N/mm² (when tested in normal blocklaying aspect for walling)
- Be able to sustain a transverse load of 3.5kN applied at a rate of 7kN/minute for 30 seconds applied through a 100mm square by 25mm thick steel plate located centrally on a 440mm x 215mm face when the block is supported on square section bearers with a 420mm clear span between them.

Note 1: It has been demonstrated that blocks having a compressive strength of 7.3N/mm² will meet the 3.5kN transverse strength requirement

Note 2: Prior to transverse testing blocks should be allowed to condition to an air dry state at 20°C ± 5°C and < 65 RH

Use guidance

Beam and block floor systems are suitable for low-rise housing and similar applications.

It should be noted that the full working strength of a beam and block floor will not be achieved until it is grouted and the specified finish is applied.

Beam and block floor systems can be used in their partially finished state as working platforms during the construction process provided they are not subjected to heavy or point loads or to sharp impacts.

Units containing voids should not be cut to length. Solid units should be used instead.

Note: it should be established from the beam manufacturer the maximum/minimum block density applicable for the relevant intended use.

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