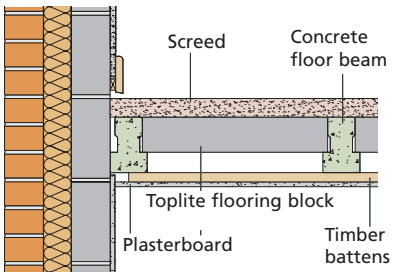
Toplite Applications

Beam and block floors

from Tarmac Topblock

Toplite Floor blocks are suitable for use in beam and block suspended ground and internal floors in single occupancy dwellings under domestic loading. Where high point loading is anticipated, such as in garages, a reinforced structural topping must be used. Where the floor loading dictates closer beam spacing, a 440 x 215 x 100mm Toplite Standard block may be used, spanning its 215mm dimension.

Coursing slips to in-fill between beam-ends are available in a 37mm bedding height. For 175mm deep beams Toplite Coursing bricks are available.



Typical beam and Toplite block intermediate floor

The requirements of Building Regulation E2 'Protection against sound within a dwelling house' can be easily met using a beam and block internal floor finished with a minimum 50mm sand and cement screed and plasterboard ceiling.

Tests commissioned by the Aircrete Products Association confirm that the airborne sound reduction (R_W) for a floor finished with a 50mm sand and cement screed and plasterboard ceiling is 51 R_W dB. This exceeds the minimum required value of 40 R_W dB.

Transverse load

The blocks have been tested at a 440mm and 535mm clear span to sustain a point load of 3.5KN. This load was transferred via a 100mm x 100mm steel plate.

Thermal Insulation

The use of Toplite Floor blocks will reduce the amount of ground floor insulation needed compared to the use of denser floor blocks. This will be further improved when used in combination with Toplite Foundation blocks.

Alternative suitable products:

Products from the Durox, Hemelite and Topcrete ranges may also be suitable for this application.

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