

FASTFLOOR

RAPID

The bigger block system for a faster build



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RAPID

Combining our inverted T-beams with Durox aircrete large format blocks this system will deliver more flexibility in the design of the floor whilst reducing build times and the number of beams required on site.

Ideal for use in both suspended ground and internal floors.

BIGGER BLOCKS

Large format blocks means that fewer beams are required on site and benefits from reduced overall design load.

VERSATILE

FASTFLOOR RAPID can be installed in inclement weather and is maintenance, rot and damp free.

EASY TO USE

This system is easy to handle and fit on site using standard tools.

FIRE CLASSIFICATION

All our products conform to a fire rating of Class A1 to BS EN 13501.

SOUND INSULATION

(INTERNAL FLOORS ONLY)

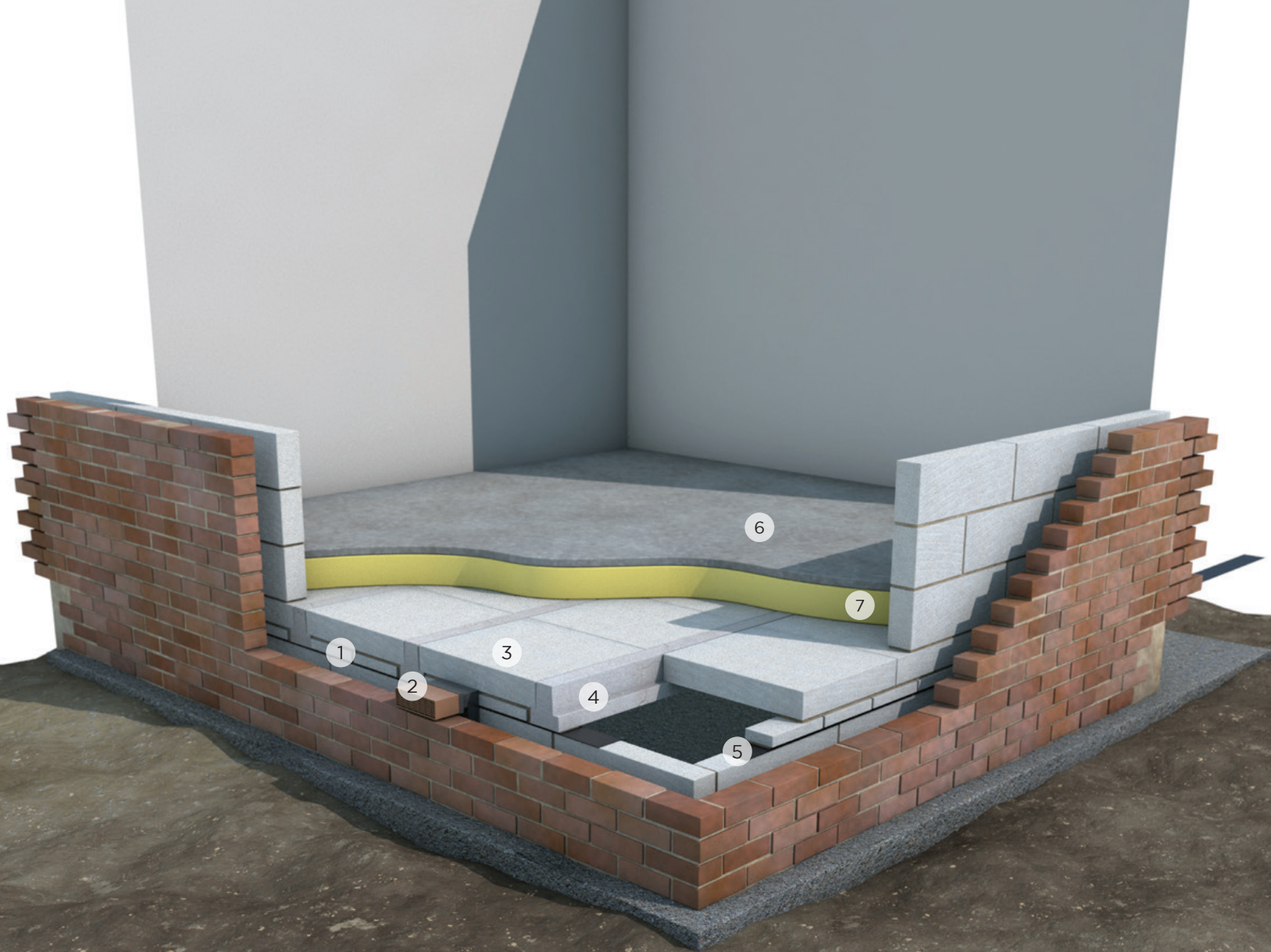
The Building Regulations Approved Document E requires that internal floors in dwellings provide the minimum sound insulation of 40R_w dB. This can easily be met using a FASTFLOOR RAPID beam and block floor system with 50mm of screed and a plasterboard ceiling.

Note - This construction would not be suitable for separating floors..

THERMAL PERFORMANCE

FASTFLOOR RAPID delivers excellent U-values and thermal bridging values and these are detailed in the information to the right.

Building with Durox aircrete blocks and fewer beams means faster build times



- 1 DUROX Coursing Slips
- 2 Telescope Ventilator
- 3 DUROX Floor Block
- 4 FASTFLOOR Beam
- 5 DPC
- 6 Screed
- 7 Insulation

PRODUCT PROPERTIES

PRODUCT	COMPRESSIVE STRENGTH N/mm ² *	BLOCK THICKNESS mm	BLOCK SPAN mm	BLOCK WIDTH mm	THERMAL CONDUCTIVITY λ (W/mK)	DRY DENSITY kg/m ³	BLOCK WEIGHT kg*	LAI D WEIGHT OF FLOOR kg/m ² *	COURSING SLIP SIZE mm
DUROX FLOOR	3.6	100	620	530	0.11	460	15.6	92	215 x 100 x 40

* Block weight based on 3% moisture content

U-VALUE PERFORMANCE EXAMPLES

PRODUCT	P/A RATIO	U-VALUE (W/m ² K)	INSULATION TYPE (K=W/mK)	INSULATION THICKNESS (mm)	
				WITHOUT FOUNDATION BLOCKS	WITH FOUNDATION BLOCKS **
DUROX FLOOR BLOCKS*	0.50	0.13	POLYSTYRENE (0.038)	210	200
			EXTRUDED POLYSTYRENE (0.031)	175	165
			PIR (0.023)	130	130
DUROX FLOOR BLOCKS*	0.60	0.13	POLYSTYRENE (0.038)	215	205
			EXTRUDED POLYSTYRENE (0.031)	175	170
			PIR (0.023)	130	125
DUROX FLOOR BLOCKS*	0.70	0.13	POLYSTYRENE (0.038)	220	210
			EXTRUDED POLYSTYRENE (0.031)	180	175
			PIR (0.023)	135	130

* Spanning the 620mm dimension ** Depth of Tarmac's Durox Foundation Blocks = 900mm

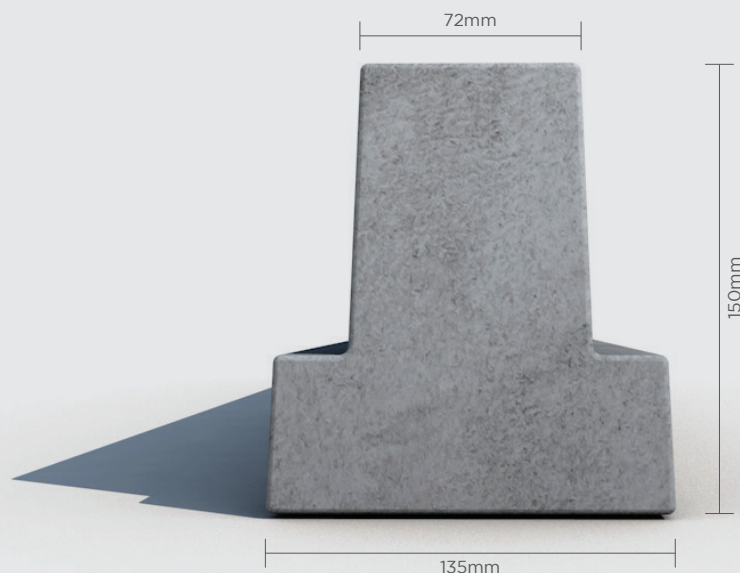
THERMAL BRIDGING

In addition to the heat loss through the floor, expressed by the U-value of the floor, considerable heat is also lost at the junction with the external wall. This is described as thermal bridging.

Dealing effectively with thermal bridging can benefit the SAP energy calculations up to 12% for a typical semi-detached house. Up to 2% of this can be attributed to the ground floor junction with the external wall. The construction industry has developed a number of schemes that provide simple, cost-effective detailing. Further information is available via the following web links:

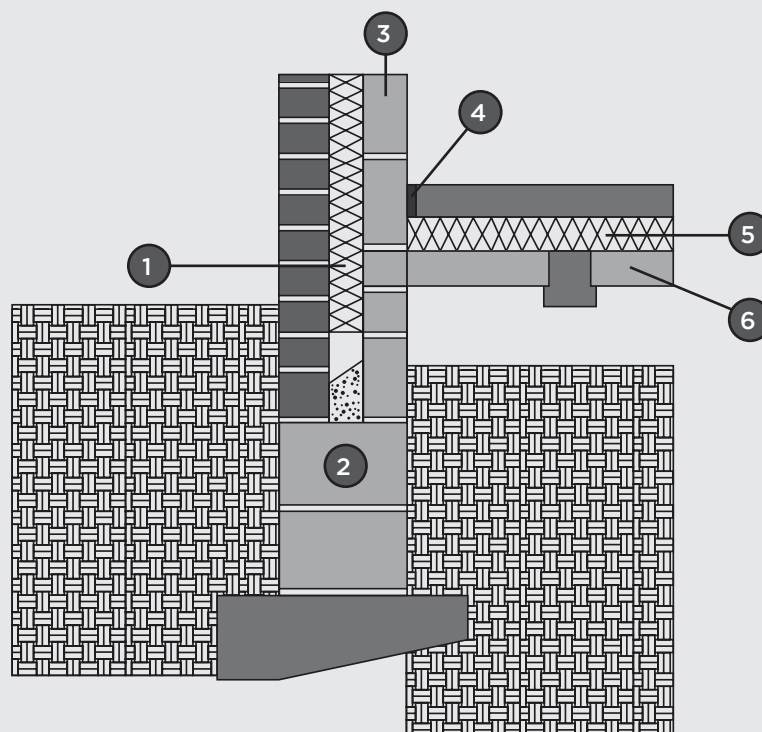
www.constructivedetails.co.uk/resources

www.labc.co.uk/registration-schemes/construction-details



TYPICAL FASTFLOOR RAPID DETAIL

- 1 Wall cavity insulation to continue at least 215mm from the top of the beam
- 2 Aircrete foundation blocks
- 3 Aircrete blocks to inner leaf, above and below DPC
- 4 Perimeter insulation to provide minimum resistance of $0.8\text{m}^2\text{K/W}$
- 5 Floor insulation to tightly abut wall blockwork
- 6 Precast beam and block floor with aircrete infill blocks



To find out more about FASTFLOOR and the best solution for your project
call **0333 003 4701** or email fastfloor@tarmacbp.co.uk

TARMAC.COM