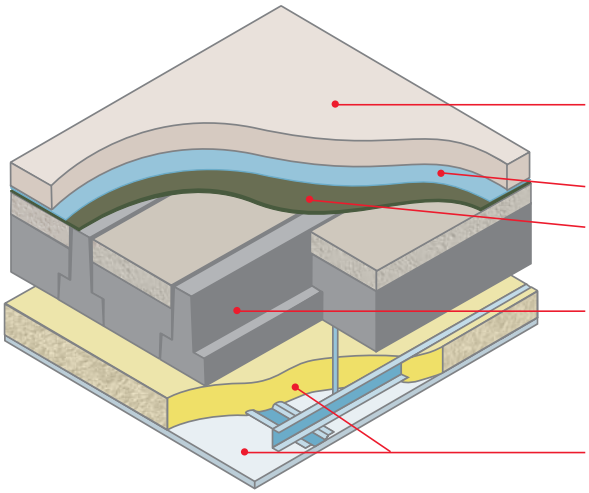
Stowell solutions for separating floors to help satisfy Robust Details part E

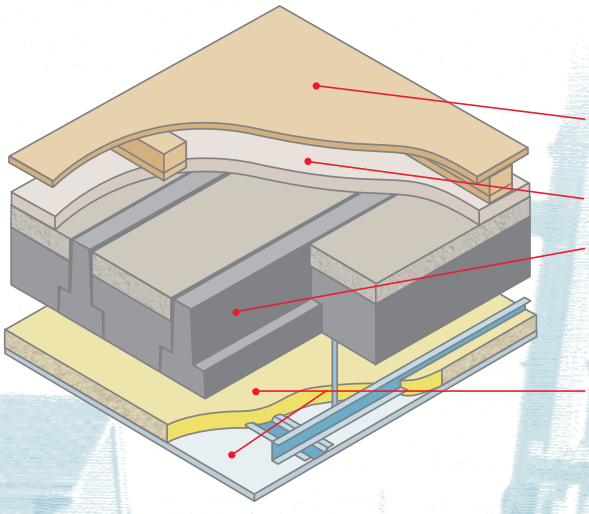
Robust Details E-FC-6



- joist* and block floor with precast or insitu edge joists
- screed laid on Regupol E48 resilient layer system
- for use with dense aggregate block flanking walls only

Screed	65mm (min) sand/cement screed, or 40mm (min) proprietary screed, nominal 80kg/m^2 (min) mass per unit area
DPM	0.2mm (min) waterproof membrane
Resilient layer	8mm Regupol E48, dimple side down, fully lapped up walls and Regupo tape jointing
Structural floor	Stowell joist and block, min 100mm thick Stowell dense aggregate infill blocks, with min 50mm concrete topping (C16/20 10mm max. aggregate S3) min 300kg/m^2 mass per unit area – for cut rows, see section 5 of Robust Details Part F
Ceiling	min 300mm from top of joist to ceiling board (one layer of nominal 10kg/m^2 gypsum-based board), min 50mm mineral fibre quilt in void to cover whole ceiling board area.

Robust Details E-FC-7



- joist* and block floor with precast or insitu edge joists
- using floating floor treatments
- for use with dense aggregate block flanking walls only

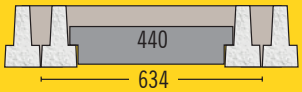
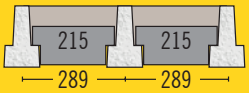
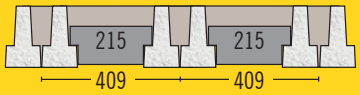
Floating floor	see section 7 of E-FC-7 Robust Details Part E for suitable floating floor treatment
Screed	20mm (min) sand/cement screed
Structural floor	Stowell joist and block, min 100mm thick Stowell dense aggregate infill blocks, with min 50mm concrete topping (C16/20 10mm max. aggregate S3) min 300kg/m^2 mass per unit area – for cut rows, see section 5 of Robust Details Part F
Ceiling	min 300mm from top of joist to ceiling board (one layer of nominal 10kg/m^2 gypsum-based board), min 25mm mineral fibre quilt (min 10kg/m^3) in void to cover whole ceiling board area.

*commonly known as beam

Robust Details are construction solutions which provide an alternative to pre-completion sound testing as a method of complying with Part E (resistance to the passage of sound) of the Building Regulations (England and Wales). Stowell concrete products enable builders to meet these regulations – provided the correct treatments are followed – when constructing new-build attached dwellings, flats and apartments. A synopsis of the construction treatments is provided above, with full details available from Robust Details Ltd (telephone 0870 240 8209 or www.robustdetails.com).

STOWELL CONCRETE LIMITED

Load span table for E-FC-6 and 7

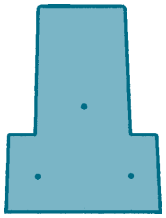
		Loadings in kN/m²		
Imposed live load		1.5	2.0	2.5
Partition allowance		0.5	0.5	1.0
Finishes and ceilings		0.3	0.3	0.3
65mm screed		1.56	1.56	1.56
		Max clear span in metres		
	3C	2.95	2.85	2.70
	5C	3.60	3.45	3.20
	3C	3.35	3.25	3.10
	5C	4.05	3.90	3.75
	3C	3.75	3.65	3.45
	5C	4.55	4.40	4.20
	3C	3.90	3.80	3.60
	5C	4.75	4.60	4.40
	3C	4.50	4.50	4.30
	5C	5.65	5.45	5.20

This table refers to simple, uniformly distributed loads only and is only a guide

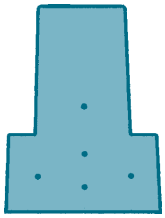
...for guidance only

Stowell 155mm deep C type T joists are available in two different wire formats:

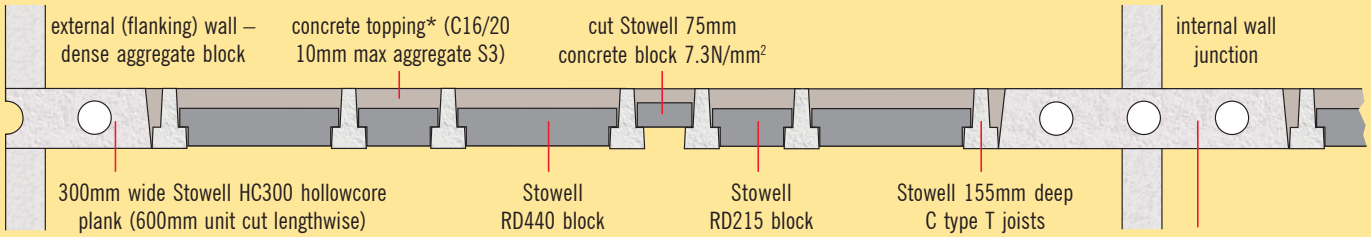
- Type 3C 4500mm max clear span
- Type 5C 6000mm max clear span



TYPE 3C



TYPE 5C



* please ensure all voids are fully filled

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