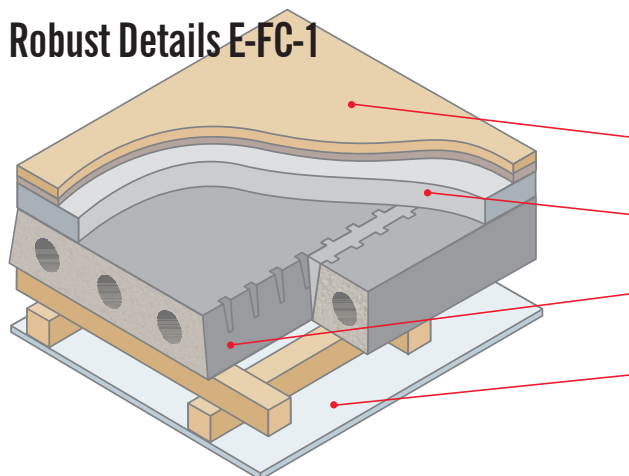


Stowell solutions for separating floors to help satisfy Robust Details part E

Robust Details E-FC-1

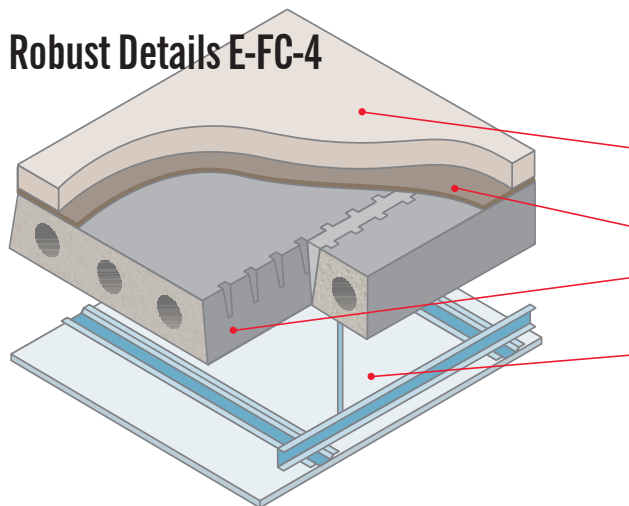


- precast concrete plank
- screed

Floating floor	See section 4 of E-FC-1 in the Robust Details Part E Handbook (FFT 1,2,3, 4 or 5)
Screed	40mm (min) screed applied directly to plank. Cement/sand or proprietary screed 80kg/m ² (min) mass per unit area
Structural floor	150mm (min) precast structural plank 300kg/m ² (min) mass per unit area (Stowell Hollowcore HC 300 – 155mm deep, 320kg/m ²)
Ceiling	See section 3 of E-FC-1 in the Robust Details Part E Handbook (CT 1,2 or 3).

Diagram shows FFT5 type floating floor treatment with CT2 type ceiling treatment.

Robust Details E-FC-4

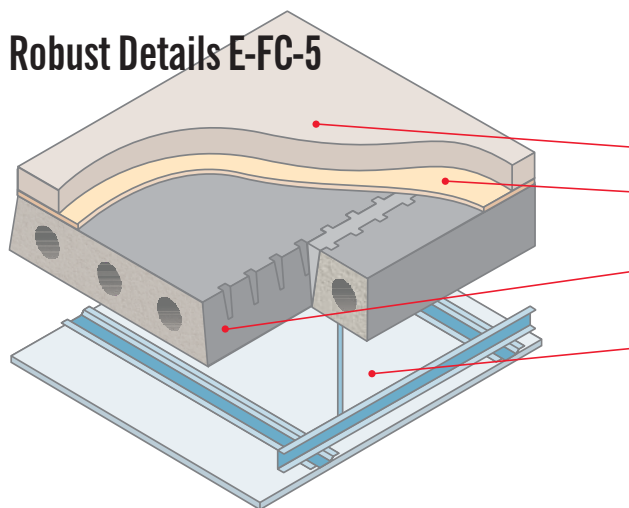


- precast concrete plank
- screed laid on Thermal Economics IsoRubber resilient layer

Screed	65mm (min) sand/cement screed, or 40mm (min) proprietary screed, nominal 80kg/m ² (min) mass per unit area
Resilient layer	6mm IsoRubber layer with IsoEdge flanking strips
Structural floor	150mm (min) precast structural plank 300kg/m ² (min) mass per unit area (Stowell hollowcore HC 300 – 155mm deep, 320kg/m ²)
Ceiling	CT0 metal ceiling system providing 150mm (min) ceiling void with one layer of nominal 8kg/m ² gypsum-based board.

Diagram shows CT0 type ceiling treatment.

Robust Details E-FC-5



- precast concrete plank
- screed laid on Collecta YELOfon HD10+ resilient layer

Screed	65mm (min) sand/cement screed
Resilient layer	YELOfon HD10+ with E-strip perimeter edging and J-strip tape for jointing
Structural floor	150mm (min) precast structural plank 300kg/m ² (min) mass per unit area (Stowell hollowcore HC 300 – 155mm deep, 320kg/m ²)
Ceiling	CT0 metal ceiling system providing 150mm (min) ceiling void with one layer of nominal 8kg/m ² gypsum-based board.

Diagram shows CT0 type ceiling treatment.

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).

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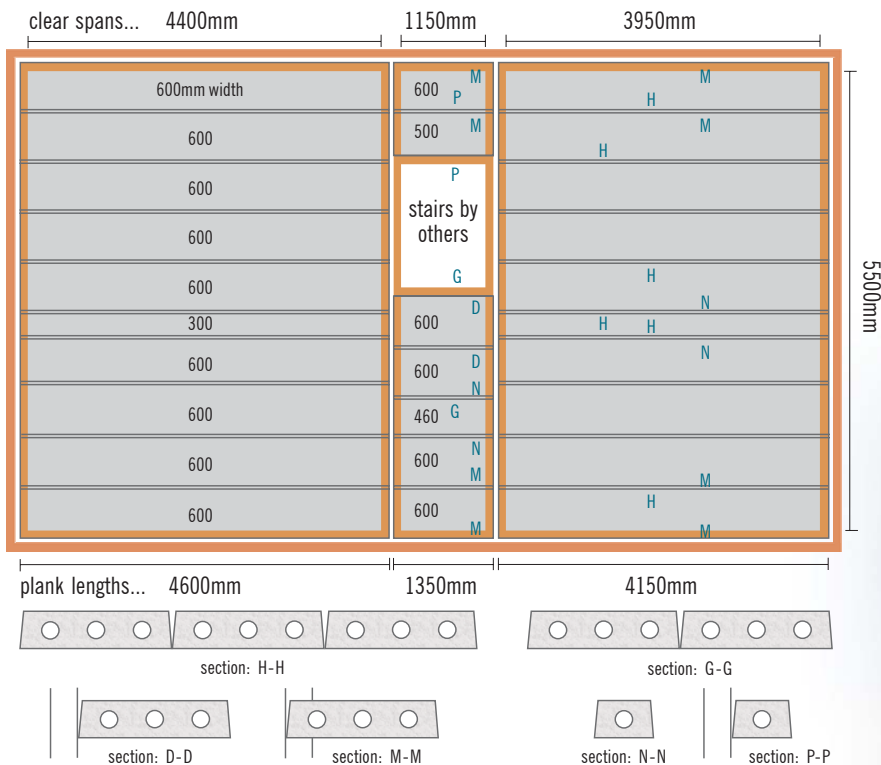
www.stowellconcrete.co.uk

Hollowcore layout and load tables

...for guidance only

To satisfy Robust Details E-FC-1, E-FC-4, and E-FC-5

A floor layout arrangement using Stowell HC300 planks



Stowell hollowcore flooring units are produced in the standard 155mm×600mm section to a selection of lengths ranging from 1.2 metres to a usefully long 7.0 metres – available in increasing increments of 50mm.

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

HC 300 three core	Loadings in kN/m ²							
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	7.5
Imposed live load	1.5	2.0	2.5	3.0	3.5	4.0	5.0	7.5
Partition allowance	0.5	0.5	1.0	1.0	1.0	—	—	—
Finishes & ceilings	0.3	0.3	0.3	0.3	0.3	0.15	0.15	0.15
	Max clear span in metres							
8mm reinforcement type A	3.80	3.75	3.55	3.50	3.45	3.50	3.35	3.10
10mm reinforcement type B	4.10	4.00	3.80	3.75	3.70	3.75	3.60	3.35
12mm reinforcement type C	4.25	4.15	4.00	3.90	3.85	3.90	3.80	3.50
16mm reinforcement type D	4.40	4.30	4.15	4.05	4.00	4.10	3.95	3.65

All products are available ex works.

Prices on application.

Telephone our sales office for further information and quotations.

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