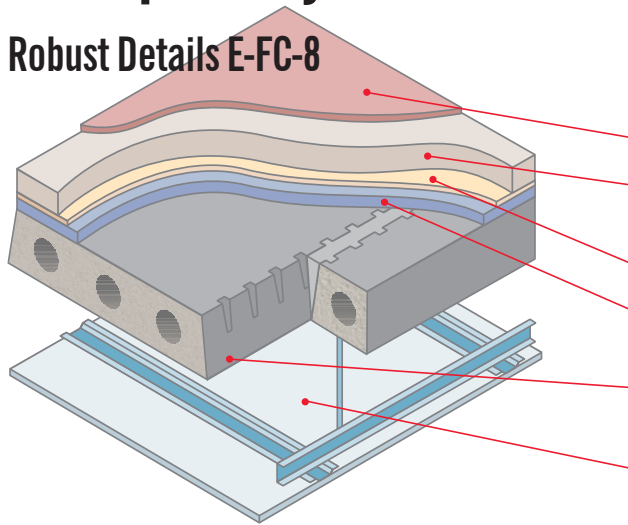


Stowell solutions for separating floors to help satisfy Robust Details part E

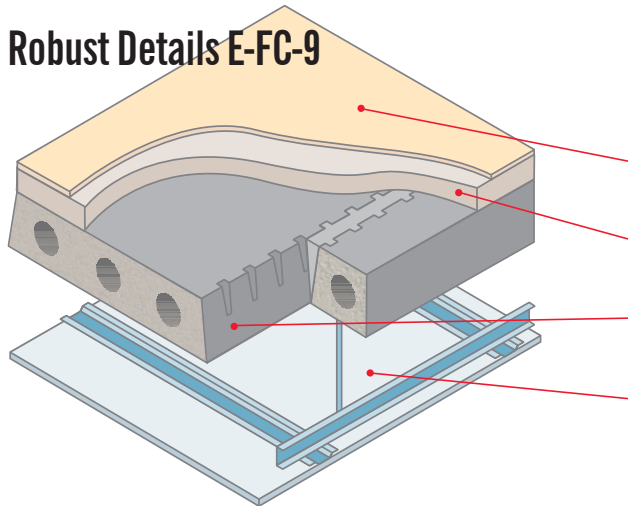
Robust Details E-FC-8



- precast concrete plank
 - screed laid on isolating layers
 - bonded resilient floor cover
- | | |
|-------------------|--|
| Floor covering | 4.5mm (min) bonded resilient covering |
| Screed | 65mm (min) sand/cement screed, or 40mm (min) proprietary screed, nominal 80kg/m ² (min) mass per unit area |
| Isolating layer 1 | 5mm formed polythene layer 30-36kg/m ³ |
| Isolating layer 2 | 25mm mineral wool batt 140kg/m ² (min), 25mm EPS (flooring grade SD) or extruded polystyrene insulation |
| 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 | CTO metal ceiling system providing 150mm (min) ceiling void with one layer of nominal 8kg/m ² gypsum-based board. |

Diagram shows CTO type ceiling treatment.

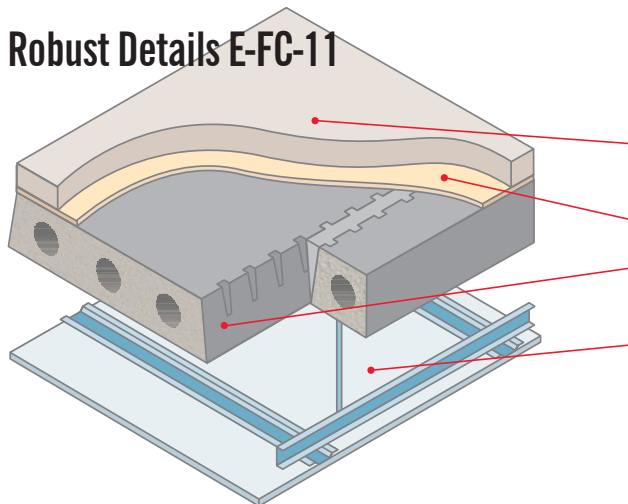
Robust Details E-FC-9



- precast concrete plank
 - screed
 - 3mm Thermal Economics IsoRubber top
- | | |
|------------------|--|
| Floor covering | 3mm Thermal Economics IsoRubber top (bonded with isobond adhesive) |
| Screed | 65mm (min) sand/cement screed, or 40mm (min) proprietary screed, nominal 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 | CTO metal ceiling system providing 150mm (min) ceiling void with one layer of nominal 8kg/m ² gypsum-based board. |

Diagram shows CTO type ceiling treatment.

Robust Details E-FC-11



- precast concrete plank
 - screed laid on Tranquilt® resilient layer
- | | |
|------------------|--|
| Screed | 65mm (min) sand/cement screed, or 40mm (min) proprietary screed, nominal 80kg/m ² (min) mass per unit area |
| Resilient layer | 10mm Icopal-Monarfloor Tranquilt® |
| 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 | CTO metal ceiling system providing 150mm (min) ceiling void with one layer of nominal 8kg/m ² gypsum-based board. |

Diagram shows CTO 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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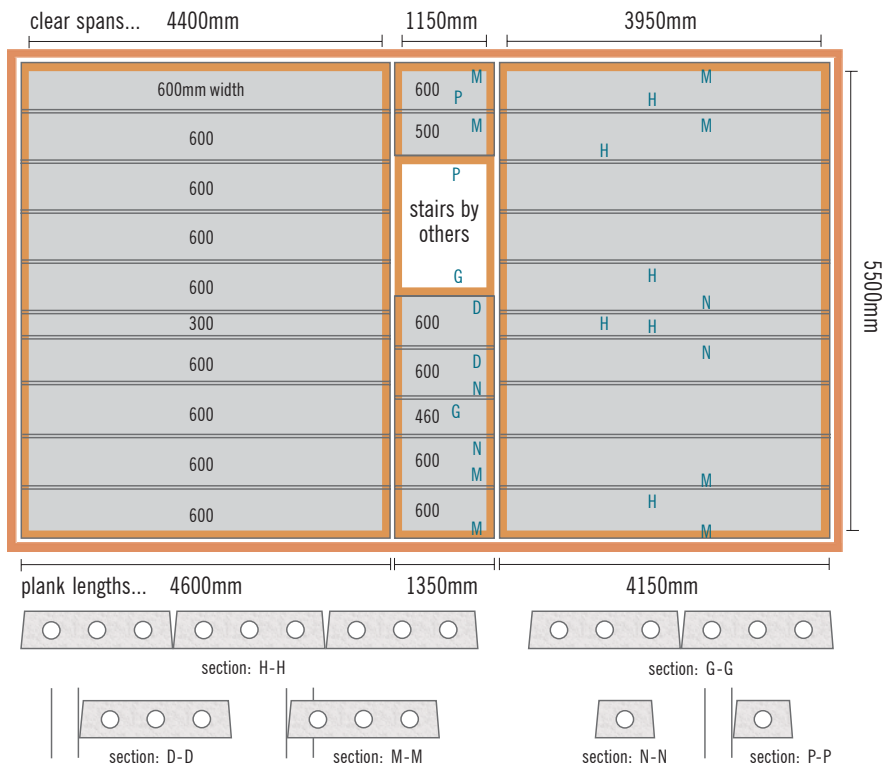
www.stowellconcrete.co.uk

Hollowcore layout and load tables

...for guidance only

To satisfy Robust Details E-FC-8, E-FC-9, and E-FC-11

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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