

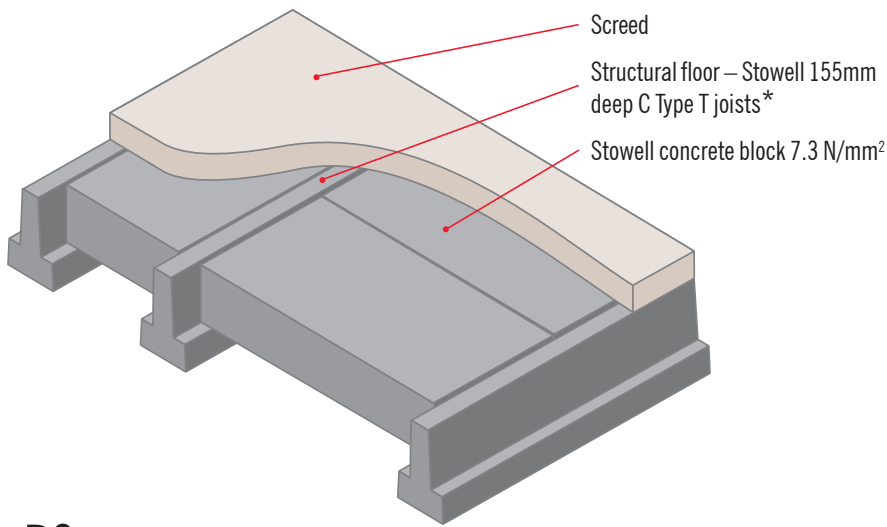
Stowell solutions for domestic floors

D1, D2 and D5

ceiling finish optional (not shown)

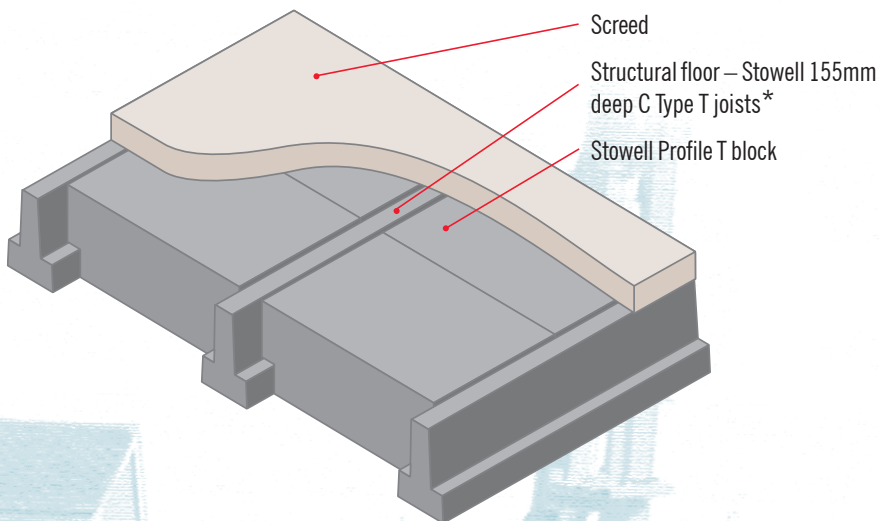
D1

• joist* & block floor



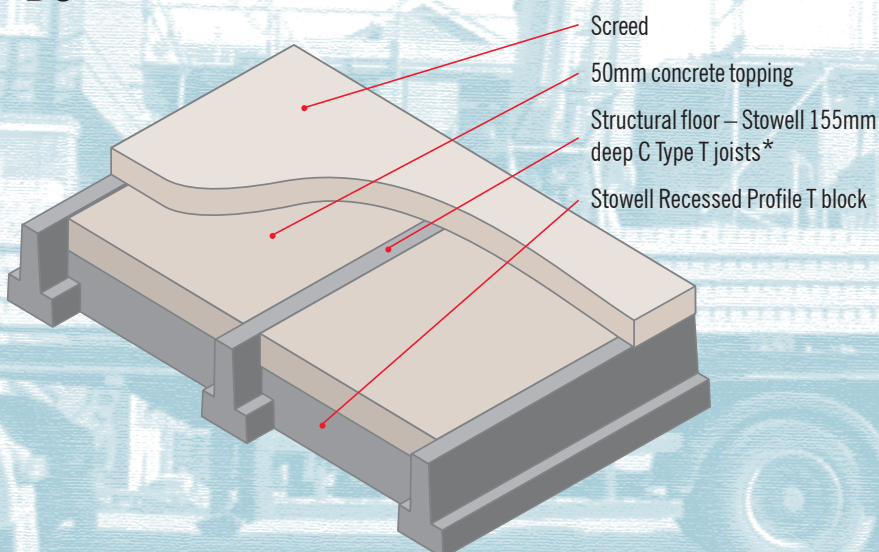
D2

• joist* & profile block floor



D5

• joist* & recessed profile block floor with 50mm concrete topping



Part E (resistance to passage of sound) of the Building Regulations (England and Wales) Section 5: Internal walls and floors for new buildings, requires a minimum floor mass per unit area. For joist* and block the floor mass is 220kg/m² and for hollowcore concrete planks the requirement is a minimum 180kg/m².

D1. A required minimum floor mass of 220 kg/m² can be exceeded by using Stowell 155mm deep C Type T joists and Stowell 1950 kg/m³ dense aggregate blocks. These give a floor mass of at least 230kg/m² before adding toppings, floors and ceilings.

D2. A required minimum floor mass of 220 kg/m² can be exceeded by using Stowell 155mm deep C Type T joists and Stowell Profile T blocks. These give a floor mass of at least 320kg/m² before adding toppings, floors and ceilings.

D5. A required minimum floor mass of 220 kg/m² can be exceeded by using Stowell 155mm deep C Type T joists and Stowell Recessed Profile T blocks with 50mm concrete topping. These give a floor mass of at least 325kg/m² before adding toppings, floors and ceilings.

* commonly known as beam

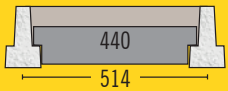

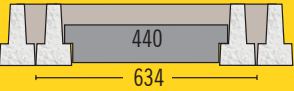
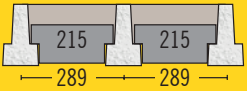
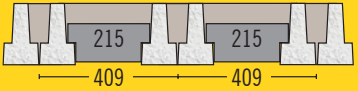
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CONCRETE LIMITED



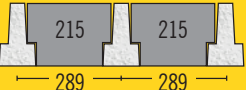

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Load span tables for D1, D2 and D5

...for guidance only

Imposed live load	D1 Loadings in kN/m ²			
	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	3.15	3.05	2.85
	5C	3.85	3.70	3.40
	3C	3.55	3.40	3.20
	5C	4.30	4.15	3.85
	3C	4.00	3.85	3.60
	5C	4.80	3.85	3.60
	3C	4.10	3.95	3.70
	5C	5.00	4.80	4.50
	3C	4.50	4.50	4.35
	5C	5.85	5.65	5.30

Imposed live load	D5 Loadings in kN/m ²			
	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

Imposed live load	D2 Loadings in kN/m ²			
	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	3.45	3.40	3.15
	5C	4.20	4.05	3.80
	3C	4.30	4.15	3.90
	5C	5.20	5.00	4.70
	3C	3.95	3.80	3.60
	5C	4.75	4.60	4.35
	3C	4.50	4.50	4.30
	5C	5.70	5.50	5.20

These tables refer to simple, uniformly distributed loads and are only a guide.

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