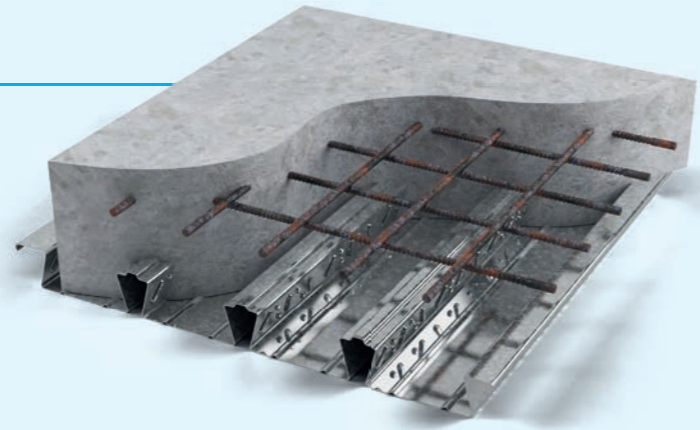


RMD54

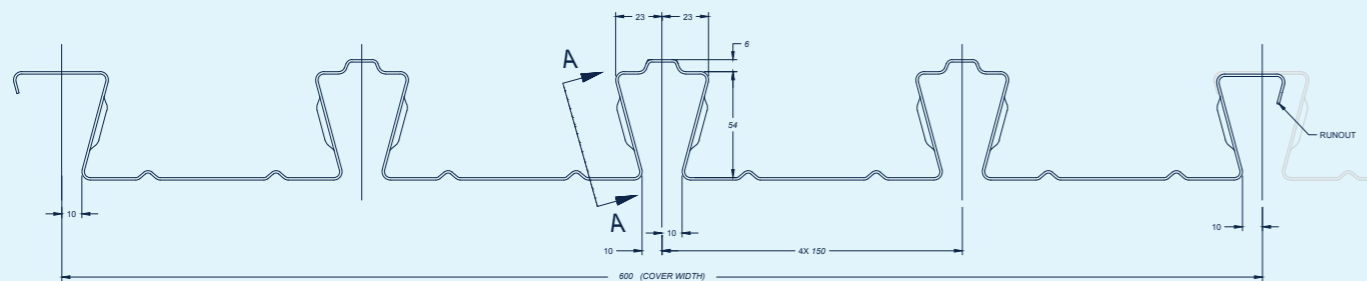
- Re-entrant profile.
- UK's most widely used profile.
- Simple to detail and install.
- Virtually continuous plain soffit finish.
- Excellent load carrying capacity on the finished slab.
- Use RMD54 for its great versatility and strength.



Section properties

Nominal Thickness (mm)	Design Thickness (bare steel (mm))	Weight of Profile (kN/m ²)	Area of Steel (mm ² /m)
0.9	0.86	0.136	1697.1
1.2	1.16	0.181	2277.5

Moment of Inertia (cm ⁴ /m)		Ultimate Moment Capacity (kNm/m)	
Sagging	Hogging	Sagging	Hogging
79.93	72.18	9.39	8.98
112.66	107.37	12.08	11.85



Grade of steel in accordance with BS EN 10346

Fabric Reference	Bar Size (mm)	Minimum lap length (mm) for concrete class		
		C25/30	LC28/35	C30/37 & LC30/33
A142	6	195	180	175
A193	7	230	210	200
A252	8	260	240	230
A393	10	360 (25 cover) 325 (30 cover)	335 (25 cover) 300 (30 cover)	320 (25 cover) 290 (30 cover)

Mesh laps in accordance with BS EN 1992-1-1, 8.7.5

RMD54 - Normal Weight Concrete with mesh - BS5950

Props	Span (Simply supported)	Fire Rating	Slab Depth (mm)	Mesh (25mm Cover)	MAXIMUM SPAN (m) with or without additional reinforcements Deck Thickness (mm)							
					0.9				1.2			
					Total Applied Load (kN/m ²) - Live Load + Dead Load (1.0kN/m ²) + Partition (1.0kN/m ²)							
3.5	4.5	7.0	9.5	3.5	4.5	7.0	9.5					
No Temporary props	Single Span	1	100	A142	3.35*	3.35*	3.35*	3.34*	3.70*	3.70*	3.70*	3.55*
		1	130	A142	3.10*	3.10*	3.10*	3.10*	3.44*	3.44*	3.44*	3.44*
		1	140	A142	3.04*	3.04*	3.04*	3.04*	3.37*	3.37*	3.37*	3.37*
		1	150	A142	2.98*	2.98*	2.98*	2.98*	3.30*	3.30*	3.30*	3.30*
	Double Span (Equal Span)	1	100	A142	4.00	4.00*	3.96*	3.55*	4.52	4.52*	4.03*	3.60*
		1	130	A142	3.78	3.78	3.77*	3.77*	4.25	4.25	4.23*	4.23*
		1	140	A142	3.70	3.70	3.69	3.69*	4.15	4.15	4.13*	4.13*
		1	150	A142	3.63	3.63	3.63	3.61*	4.05	4.05	4.05	4.03*
Temporary props at Mid-Span	Single Span	1	100	A142	4.33*	4.13*	3.68*	3.50*	4.47*	4.27*	3.88*	3.60*
		1	130	A142	5.10*	5.07*	4.67*	4.35*	5.34*	5.17*	4.80*	4.47*
		1	140	A142	5.34*	5.30*	4.96*	4.64*	5.57*	5.41*	5.07*	4.68*
		1	150	A142	5.50*	5.50*	5.19*	4.85*	5.80*	5.63*	5.29*	4.84*
	Double Span (Equal Span)	1	100	A142	4.41*	4.20*	3.81*	3.53*	4.55*	4.36*	3.93*	3.61*
		1	130	A142	5.15*	5.13*	4.73*	4.41*	5.41*	5.25*	4.87*	4.51*
		1	140	A142	5.40*	5.37*	5.03*	4.68*	5.61*	5.49*	5.13*	4.68*
		1	150	A142	5.57*	5.54*	5.25*	4.85*	5.80*	5.72*	5.36*	4.84*

*Additional Rebar required

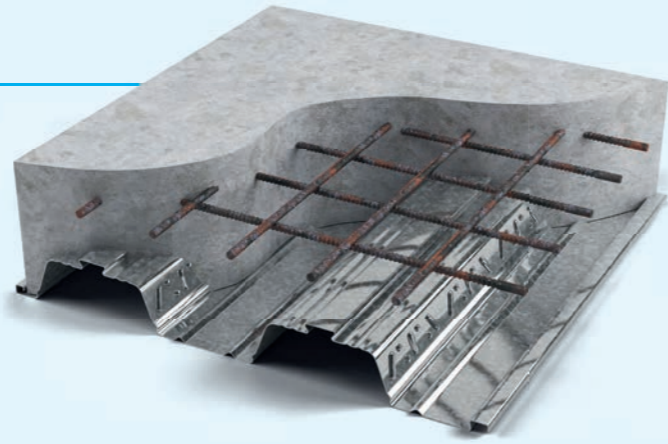


Span / load tables

- I. Spans shown assume clear span +100mm to the centerline of support.
- II. Designs are fully in with BS5950: Parts 4 & 6.
- III. Based upon concrete densities at wet stage: normal weight concrete 2400kg/m³.
- IV. A span to depth ratio limit of 35:1 for normal weight concrete is generally used. Where isolated single spans occur, these should be reduced to 30:1.
- V. Maximum deflection in the direction of span of the decking is limited to span/130 after taking account of ponding
- VI. Construction stage design includes an allowance of 1.5kN/m² for construction loading.
- VII. Composite slabs are designed as simply supported irrespective of the deck support configuration. A minimum crack control and distribution mesh is required in accordance with clause 6.7, 6.8 and 6.9 of BS5950: Part 4.
- VIII. S350 decking is manufactured from material meeting the specification: BS EN 10326-S350GD+Z275-N-A-C. It has guaranteed minimum yield strength of 350 N/mm²

RMD60

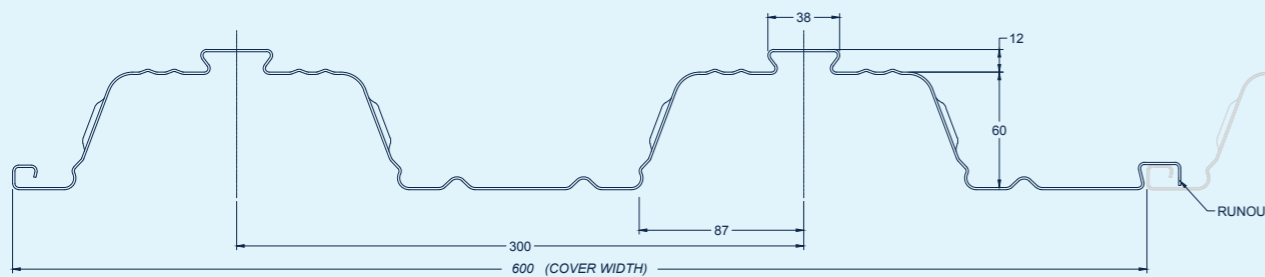
- Trapezoidal profile.
- Designed to minimize concrete volume.
- Use RMD60 to reduce the overall cost of a floor slab.



Section properties

Nominal Thickness (mm)	Design Thickness (bare steel (mm))	Weight of Profile (kN/m ²)	Area of Steel (mm ² /m)
0.9	0.86	0.100	1241.3
1.2	1.16	0.132	1656.9

Moment of Inertia (cm ⁴ /m)		Ultimate Moment Capacity (kNm/m)	
Sagging	Hogging	Sagging	Hogging
100.95	93.93	10.76	8.78
133.5	135.73	12.84	11.45



Grade of steel in accordance with BS EN 10346

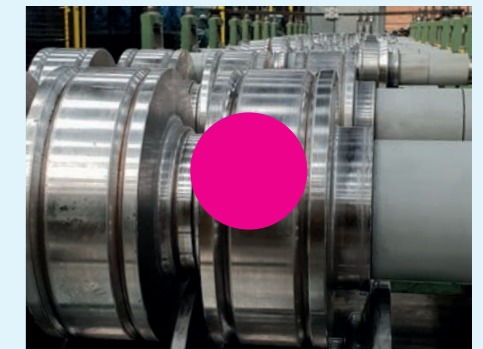
Fabric Reference	Bar Size (mm)	Minimum lap length (mm) for concrete class		
		C25/30	LC28/35	C30/37 & LC30/33
A142	6	195	180	175
A193	7	230	210	200
A252	8	260	240	230
A393	10	360 (25 cover) 325 (30 cover)	335 (25 cover) 300 (30 cover)	320 (25 cover) 290 (30 cover)

Mesh laps in accordance with BS EN 1992-1-1, 8.7.5

RMD60 - Normal Weight Concrete with mesh - BS5950

Props	Span (Simply supported)	Fire Rating	Slab Depth (mm)	Mesh (25mm Cover)	MAXIMUM SPAN (m) with or without additional reinforcements Deck Thickness (mm)							
					0.9				1.2			
					Total Applied Load (kN/m ²) - Live Load + Dead Load (1.0kN/m ²) + Partition (1.0kN/m ²)							
		3.5	4.5	7.0	9.5	3.5	4.5	7.0	9.5			
No Temporary props	Single Span	1	130	A142	3.53*	3.52*	3.52*	3.52*	3.83*	3.83*	3.83*	3.57*
		1	140	A142	3.43*	3.43*	3.43*	3.43*	3.74*	3.74*	3.74*	3.74*
		1	150	A142	3.35*	3.35*	3.35*	3.35*	3.65*	3.65*	3.65*	3.65*
		1	180	A193	3.15*	3.15*	3.15*	3.15*	3.43*	3.43*	3.43*	3.43*
	Double Span (Equal Span)	1	130	A142	4.14*	4.14*	3.93*	3.41*	4.59*	4.59*	3.83*	3.37*
		1	140	A142	4.03*	4.03*	4.03*	3.55*	4.47*	4.47*	3.98*	3.53*
		1	150	A142	3.92*	3.92*	3.92*	3.70*	4.36*	4.36*	4.19*	3.65*
		1	180	A193	3.75	3.75	3.75	3.74*	4.05*	4.05*	4.05*	4.04*
Temporary props at Mid-Span	Single Span	1	130	A142	4.63*	4.29*	3.69*	3.30*	4.62*	4.28*	3.69*	3.29*
		1	140	A142	4.76*	4.43*	3.83*	3.42*	4.75*	4.42*	3.82*	3.41*
		1	150	A142	4.88*	4.55*	3.95*	3.54*	4.87*	4.54*	3.95*	3.54*
		1	180	A193	5.17*	4.85*	4.26*	3.84*	5.16*	4.85*	4.25*	3.84*
	Double Span (Equal Span)	1	130	A142	4.62*	4.29*	3.69*	3.40*	4.62*	4.28*	3.69*	3.29*
		1	140	A142	4.75*	4.42*	3.83*	3.42*	4.75*	4.42*	3.82*	3.41*
		1	150	A142	4.87*	4.54*	3.95*	3.54*	4.87*	4.42*	3.95*	3.54*
		1	180	A193	5.16*	4.85*	4.26*	3.84*	5.16*	4.85*	4.25*	3.84*

*Additional Rebar required

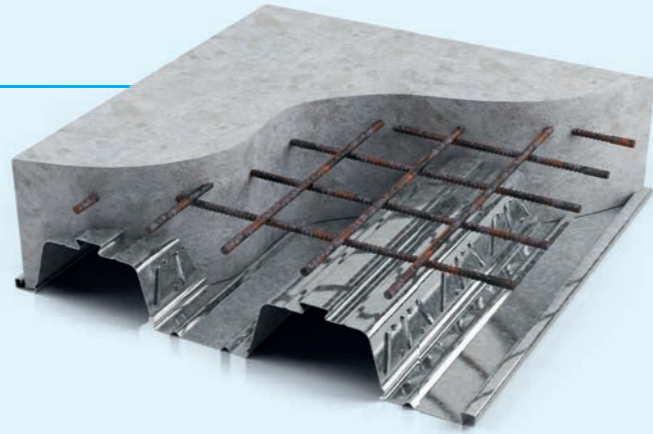


Span / load tables

- I. Spans shown assume clear span +100mm to the centerline of support.
- II. Designs are fully in with BS5950: Parts 4 & 6.
- III. Based upon concrete densities at wet stage: normal weight concrete 2400kg/m³.
- IV. A span to depth ratio limit of 35:1 for normal weight concrete is generally used. Where isolated single spans occur, these should be reduced to 30:1.
- V. Maximum deflection in the direction of span of the decking is limited to span/130 after taking account of ponding.
- VI. Construction stage design includes an allowance of 1.5kN/m² for construction loading.
- VII. Composite slabs are designed as simply supported irrespective of the deck support configuration. A minimum crack control and distribution mesh is required in accordance with clause 6.7, 6.8 and 6.9 of BS5950: Part 4.
- VIII. S350 decking is manufactured from material meeting the specification: BS EN 10326-S350GD+Z275-N-A-C. It has guaranteed minimum yield strength of 350 N/mm².

RMD80

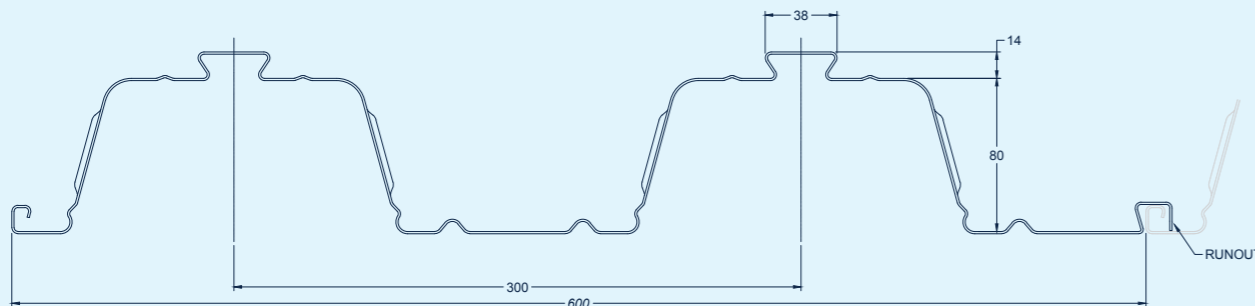
- Trapezoidal profile.
- Longer unpropped spans
- Excellent bond to the concrete for greater load carrying capacity.
- Use RMD80 to reduce the number of steel members in a frame.



Section properties

Nominal Thickness (mm)	Design Thickness (bare steel (mm))	Weight of Profile (kN/m ²)	Area of Steel (mm ² /m)
0.9	0.86	0.110	1376
1.2	1.16	0.146	1840.5

Moment of Inertia (cm ⁴ /m)		Ultimate Moment Capacity (kNm/m)	
Sagging	Hogging	Sagging	Hogging
177.4	176	15.1	12.16
238.21	250.1	20.61	17.17



Grade of steel in accordance with BS EN 10346

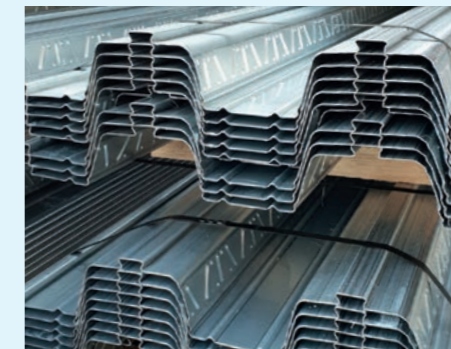
Fabric Reference	Bar Size (mm)	Minimum lap length (mm) for concrete class		
		C25/30	LC28/35	C30/37 & LC30/33
A142	6	195	180	175
A193	7	230	210	200
A252	8	260	240	230
A393	10	360 (25 cover) 325 (30 cover)	335 (25 cover) 300 (30 cover)	320 (25 cover) 290 (30 cover)

Mesh laps in accordance with BS EN 1992-1-1, 8.7.5

RMD80 - Normal Weight Concrete with mesh - BS5950

Props	Span (Simply supported)	Fire Rating	Slab Depth (mm)	Mesh (25mm Cover)	MAXIMUM SPAN (m) with or without additional reinforcements Deck Thickness (mm)							
					0.9				1.2			
					Total Applied Load (kN/m ²) - Live Load + Dead Load (1.0kN/m ²) + Partition (1.0kN/m ²)							
		3.5	4.5	7.0	9.5	3.5	4.5	7.0	9.5			
No Temporary props	Single Span	1	140	A142	4.12*	4.12*	4.12*	3.67*	4.42*	4.42*	4.16*	3.58*
		1	150	A142	4.04*	4.04*	4.04*	3.85*	4.34*	4.34*	4.34*	3.71*
		1	160	A142	3.97*	3.97*	3.97*	3.97*	4.26*	4.26*	4.26*	3.89*
		1	200	A193	3.68*	3.68*	3.68*	3.68*	4.01*	4.01*	4.01*	4.01*
	Double Span (Equal Span)	1	140	A142	4.68*	4.68*	3.98*	3.52*	5.13*	4.67*	3.96*	3.50*
		1	150	A142	4.53*	4.53*	4.14*	3.65*	5.27*	4.85*	4.08*	3.63*
		1	160	A142	4.39*	4.39*	4.27*	3.78*	5.31*	5.00*	4.22*	3.75*
		1	200	A193	3.96*	3.96*	3.96*	3.96*	4.88*	4.88*	4.68*	4.16*
Temporary props at Mid-Span	Single Span	1	140	A142	4.86*	4.50*	3.86*	3.45*	4.83*	4.49*	3.86*	3.45*
		1	150	A142	4.97*	4.62*	4.00*	3.56*	4.96*	4.61*	3.99*	3.56*
		1	160	A142	5.08*	4.73*	4.11*	3.68*	5.07*	4.72*	4.10*	3.68*
		1	200	A193	5.40*	5.09*	4.48*	4.05*	5.40*	5.09*	4.48*	4.05*
	Double Span (Equal Span)	1	140	A142	4.85*	4.50*	3.86*	3.45*	4.83*	4.49*	3.86*	3.45*
		1	150	A142	4.97*	4.62*	4.00*	3.56*	4.96*	4.61*	3.99*	3.56*
		1	160	A142	5.08*	4.73*	4.11*	3.68*	5.07*	4.72*	4.10*	3.68*
		1	200	A193	5.40*	5.09*	4.48*	4.05*	5.40*	5.09*	4.48*	4.05*

*Additional Rebar required



Span / load tables

- I. Spans shown assume clear span +100mm to the centerline of support.
- II. Designs are fully in with BS5950: Parts 4 & 6.
- III. Based upon concrete densities at wet stage: normal weight concrete 2400kg/m³.
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- VI. Construction stage design includes an allowance of 1.5kN/m² for construction loading.
- VII. Composite slabs are designed as simply supported irrespective of the deck support configuration. A minimum crack control and distribution mesh is required in accordance with clause 6.7, 6.8 and 6.9 of BS5950: Part 4.
- VIII. S350 decking is manufactured from material meeting the specification: BS EN 10326-S350GD+Z275-N-A-C. It has guaranteed minimum yield strength of 350 N/mm².