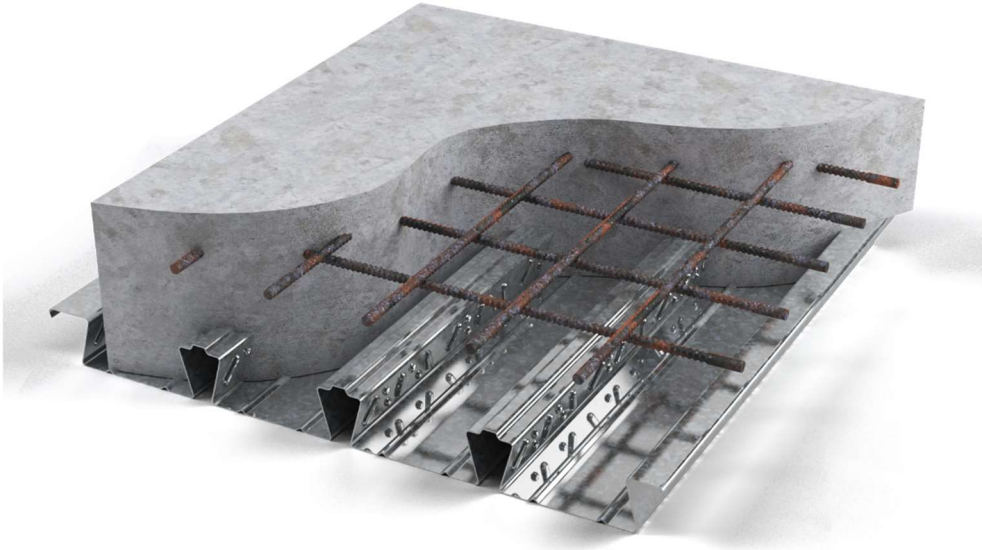




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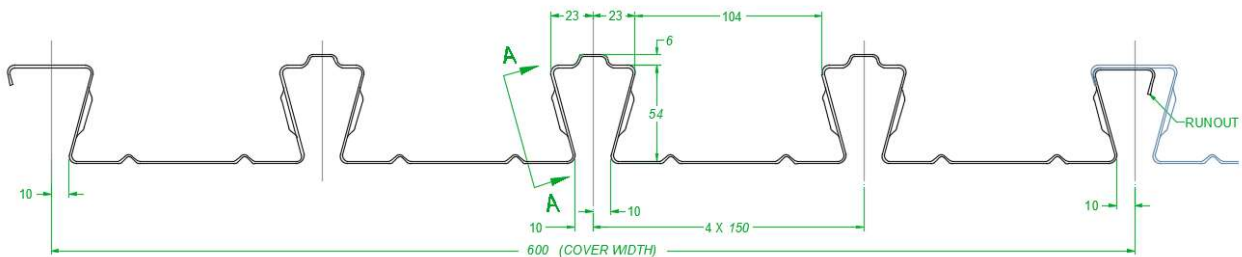
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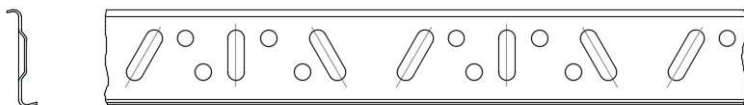
Profile properties - RSD54

Nominal Thickness (mm)	Design Thickness (bare steel (mm))	Available Grades (N/mm ²)	Depth of Profile (mm)	Weight of Profile (kN/m ²)	Height of Neutral axis (mm)	Area of Steel (mm ² /m)	Moment of Inertia (cm ⁴ /m)		Ultimate Moment Capacity (kNm/m)	
							Sagging	Hogging	Sagging	Hogging
0.9	0.86	S350 / S450	54	0.136	20.93	1697.1	79.93	72.18	9.39	8.98
1.2	1.16	S350 / S450	54	0.181	20.93	2277.5	112.66	107.37	12.08	11.85

Grade of steel in accordance with BS EN 10346



TOLERANCES ACCORDING TO DIN 508-1
APPLICABLE FOR MINIMUM 3M LONG PART
PROFILE TO BE MEASURED AT A MINIMUM 200MM FROM THE END
PART LENGTH TOLERANCE +/- 0.8MM



VIEW A-A

UNLESS OTHERWISE SPECIFIED PROFILE INSIDE RADII (R3)
MATERIAL: HOT DEEP GALVANIZED, THICKNESS 0.9 TO 1.2 MM
YIELD STRENGTH: 345 MPA MIN TO 550 MPA MAX (50 KSI TO 80 KSI)



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METAL DECK COMPARSION GUIDE

RSD Supply and Fix decking across the UK.

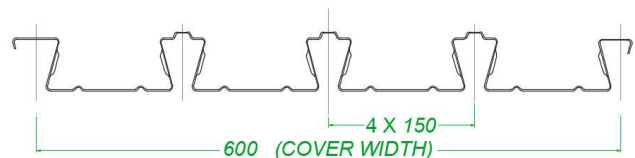
All RSD's profiles are 600mm wide, making them lightweight and easy to handle.

RSD's profiles are comparable to all other UK profiles and are a convenient / cost-effective choice.

If the specified profile is:

- ComFlor 51 (610mm wide)
- Holorib (600mm wide)
- R51 (600mm wide)
- Multideck 50-V2 (600mm wide)
- MetFloor 55 (600mm wide)

RSD equivalent profile is: RSD54



RSD54 - 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							
					0.9				1.2			
					Deck Thickness (mm)							
					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*
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.

On request RSD will design bespoke calculations to suit on site requirements.