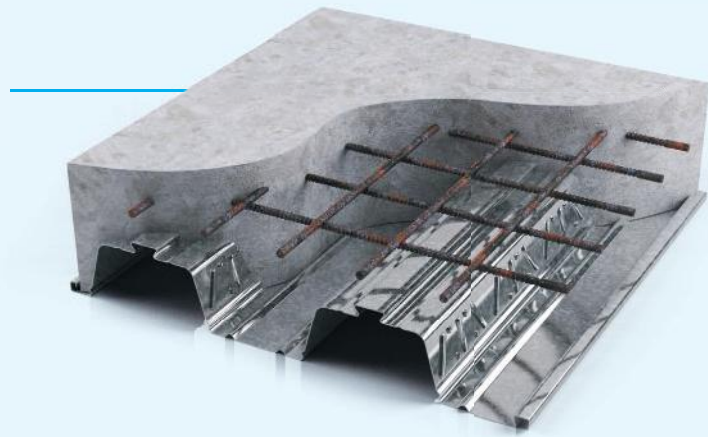


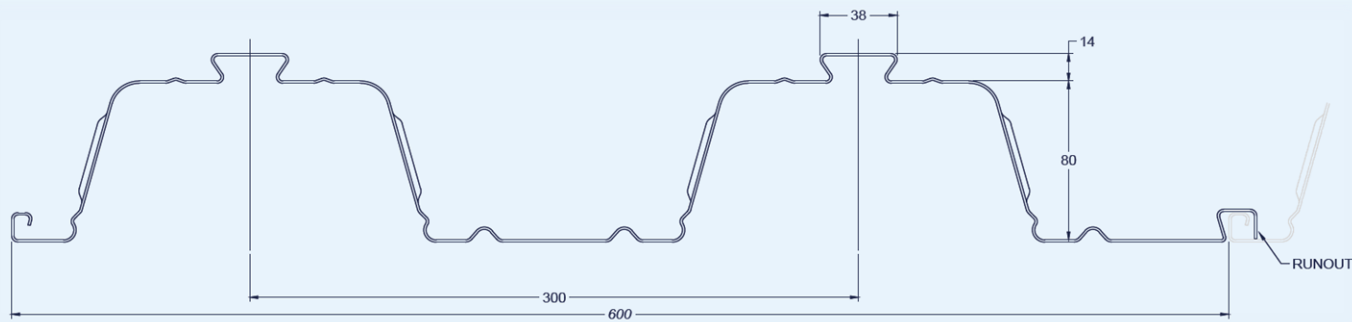
AMDECK80

- Trapezoidal profile.
- Longer unpropped spans
- Excellent bond to the concrete for greater load carrying capacity.
- Use AMDECK80 to reduce the number of steel members in a frame.
- Equivalent to ComFlor 80, Ribdeck 80, TR80+, Multideck 80-V2 & MetFloor 80



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



AMDECK80 - 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*
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*
	Double Span (Equal Span)	1	200	A193	5.40*	5.09*	4.48*	4.05*	5.40*	5.09*	4.48*	4.05*
		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

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



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: BSEN 10326-S350GD+Z275-N-A-C. It has guaranteed minimum yield strength of 350 N/mm².