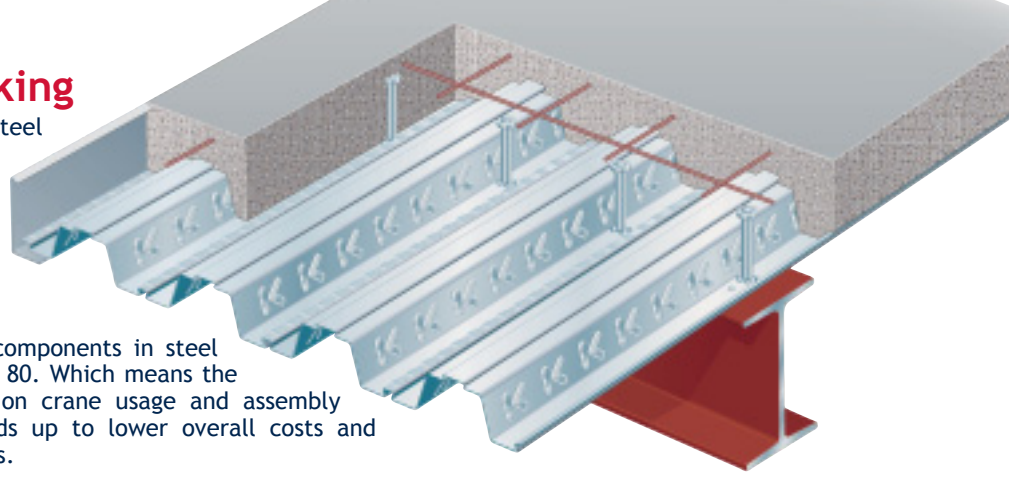


A Revolution in Steel Decking

Now there's an exciting breakthrough in steel decking that will save you time and money. Ribdeck 80 has all the classic strengths of traditional steel decking with a ground breaking difference - you can now have shallow floors and 4.5m* spans with no temporary propping.



Up to 20% less Steelwork

You can substantially reduce the number of components in steel framed buildings with design based on Ribdeck 80. Which means the frames go up quicker, with less time spent on crane usage and assembly work - on site and in the factory. It all adds up to lower overall costs and a potential faster release of capital investments.

Save Now with Ribdeck 80

If you're interested in saving time and money, now's the time to find out how Ribdeck 80 can work for you. Just contact us at the address overleaf today and benefit from our 50 years of innovation and experience.

Design, Supply, Install

The UK's leading decking company gives you all the technical support you need and backs it up with the most experienced installation service - including through deck welding of shear studs.

Full composite designs

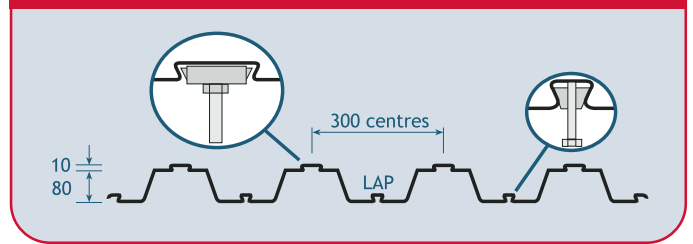
The Ribdeck 80 profile allows development of efficient, economical composite designs using shear studs.

Simple suspension systems

Ribdeck 80 takes standard soffit suspension fittings used with other profiles - simple, well known, effective and widely used for many years.

*For typical office building using dense concrete and no temporary propping. See span/load tables for details.

Ribdeck 80 Standard Soffit Fixings



Ribdeck 80 Section Properties (per Metre width)



Gauge mm	Self Weight		Area mm ²	Inertia cm ⁴	YNA mm
	kg/m ²	kN/m ²			
1.2	14.8	0.145	1,848	237.6	42.5

When estimating concrete usage we recommend that -42mm is allowed for voids and +span/250 allowed for ponding, e.g. for a 150mm slab over 4.5m unpropped, equivalent solid slab = 150 - 42 + 4500/250 = 126mm (approximation only)

Ribdeck 80 1.2mm Gauge

Span/Load Table

Support Condition	Slab Depth (mm)	Concrete Volume (m ³ /m ²)	Maximum Permissible Spans (m)							
			Normal Weight Concrete				Lightweight Concrete			
			IMPOSED LOAD (kN/m ²)							
			*	5.0	6.7	10.0	*	5.0	6.7	10.0
SINGLE	130	0.088	3.90	3.90	3.90	3.84	3.25	3.25	3.25	3.25
	140	0.098	4.20	4.20	4.20	4.10	3.50	3.50	3.50	3.50
	150	0.108	4.16	4.16	4.16	4.16	3.75	3.75	3.75	3.75
	160	0.118	4.09	4.09	4.09	4.09	4.00	4.00	4.00	4.00
	175	0.133	4.00	4.00	4.00	4.00	4.22	4.22	4.22	4.22
	200	0.158	3.84	3.84	3.84	3.84	4.08	4.08	4.08	4.08
MULTIPLE	130	0.088	4.55	4.55	4.38	3.84	3.90	3.90	3.90	3.84
	140	0.098	4.81	4.81	4.68	4.10	4.20	4.20	4.20	4.10
	150	0.108	4.73	4.73	4.73	4.36	4.50	4.50	4.50	4.36
	160	0.118	4.65	4.65	4.65	4.62	4.80	4.80	4.80	4.62
	175	0.133	4.55	4.55	4.55	4.55	4.79	4.79	4.79	4.79
	200	0.158	4.40	4.40	4.40	4.40	4.64	4.64	4.64	4.64
PROPPED	130	0.088	4.55	4.55	4.38	3.84	3.90	3.90	3.90	3.84
	140	0.098	4.90	4.90	4.68	4.10	4.20	4.20	4.20	4.10
	150	0.108	5.25	5.25	4.98	4.36	4.50	4.50	4.50	4.36
	160	0.118	5.60	5.58	5.23	4.62	4.80	4.80	4.80	4.62
	175	0.133	6.12	5.98	5.62	5.03	5.25	5.25	5.25	5.03
	200	0.158	7.02	6.63	6.26	5.50	6.00	6.00	6.00	5.67

Notes:

- The spans indicated assume clear span + 120mm to the centreline of supports.
- A span to depth ratio limit of 35:1 for normal weight concrete and 30:1 for light weight concrete is generally used. Where isolated single spans occur, these ratios are reduced to 30:1 and 25:1 respectively.
- Maximum deflections are limited to span/130 after taking account of ponding.
- Construction stage design includes an allowance of 1.5kN/m² for construction loading.
- Tables are based on grade C30 concrete of wet density 2,400kg/m³ for normal weight and 1,900kg/m³ for lightweight concrete.
- The dead weight of the slab has been included in the development of the spans shown. However, consideration should be given to finishes, partitions, walls, etc when reading from these tables.
- Composite slabs are designed as simply supported irrespective of the deck support configuration. A nominal crack control and distribution mesh is required over the supports in accordance with clause 6.7, 6.8 and 6.9 of BS5950: Part 4.
- Decking is manufactured from material meeting the following specification: BS EN 10147-S350GD+Z275-N-A-C, i.e: yield strength = 350N/mm²

* Denotes decking used as shuttering only.