



AMDECK®

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TECHNICAL
CRANES
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Company Overview

Hidden behind the façade of all buildings lie their critical foundations. Often invisible, a complex network of concrete and steel form the vital backbone that supports the entire fabric. Procuring the best quality materials is therefore a great responsibility for construction firms – they need to choose a name they can trust.

AMDECK® design and manufacture premium-grade composite steel decking which provides the strongest bond and performance with the concrete slab in the composition form. Produced on the UK's fastest steel press technology, our products are uniquely embossed to provide greater stiffness, resulting in unmatched structural performance.

Our unique, patented design properties mean that savings are often achievable against comparable deck profiles, and for assured quality on arrival, they are also designed to interlock to provide greater stability during transportation.

Combined with high volume production technology and our fast order turnaround service, there is no better name in composite steel decking than AMDECK®.



Group Strength

Much like our products are deeply embedded in the structural framework of buildings, our heritage forms the basis of our culture of excellence.

AMDECK® is part of an international group of steel companies with significant heritage:

Founded in 1960, **Canam Group Inc**, is one of the world's leading structural steel enterprises, designing and fabricating metal components. They employ around 2,700 people across eight plants in Canada, the United States, Romania and India.

MLB Steel Ltd, (formerly Metsec Lattice Beams), has a heritage spanning 70 years. The company is highly regarded across the UK construction industry for the design, manufacture and installation of high-quality structural steel beams.

COBI Solutions is a specialist buyer and supplier of prime and non-prime steel for customers all over the world including Europe, Africa, Middle East & South East Asia. With 30 years of experience within the international steel trading industry, they have earned the respect of some of the most highly regarded suppliers and customers alike.

What customers gain from working with AMDECK®

AMDECK® is a name that is synonymous with quality and strength. There's no doubt that our products are exceptional, however it's the high level of service that bonds us with our customers.

Working with us, our customers benefit from:



A choice of premium-grade metal decking – choose from our unique high-performance AMDECK® range; AMDECK®54, AMDECK®60, AMDECK®80



High-volume output – we can produce up to 26,000 tonnes of metal deck per annum



High-speed production – we have the fastest steel decking roll-former in the UK



Unrivalled lead times – we can manufacture for Just-in-time delivery or short notice orders



Unique patented design – our unique embossment and design provide greater stiffness for exceptional structural performance, even with a lighter gauge



Complementary design service – we can calculate your composite metal floor requirements and provide drawing mark-ups



Accredited design software – Access our free design software which was produced for us by The Steel Construction Institute (SCI) to meet BS 5950 or Eurocode UK standards.



Stud supply – we can supply any required shear studs



Accredited supplier – we are accredited to ISO 9001, certified for Conformity of Factory Production, and we are SCI Assessed and CE marked.



Manufacturing

To produce the high standard of our uniquely designed composite metal deck, we have invested heavily in the very latest processing machinery.

Our AMDECK® manufacturing plant houses a bespoke sophisticated cold roll forming mill, enabling us to produce high volumes of steel decking which can be quickly and safely expedited to construction sites throughout the UK.

Our plant machinery conforms and is certified to the harmonised European Standard BS EN 1090-1:2009+A1:2011 and CE marked, we deliver a quality product suitable for any UK construction project.

Our advanced, computer-controlled roll-forming machinery is capable of producing up to 26,000 tonnes per annum. This means we can manufacture for just-in-time delivery or short notice orders.

AMDECK® Composite Steel Deck

Our patented AMDECK® range of composite steel deck is designed for use with structural concrete. It is manufactured with unique embossments in the webs to create a strong mechanical and chemical bond between the deck and the concrete.

The composite action allows the deck to serve as the tensile reinforcement for positive bending in the slab, which significantly reduces or eliminates the need for rebar in the slab and lowers material and labour costs.

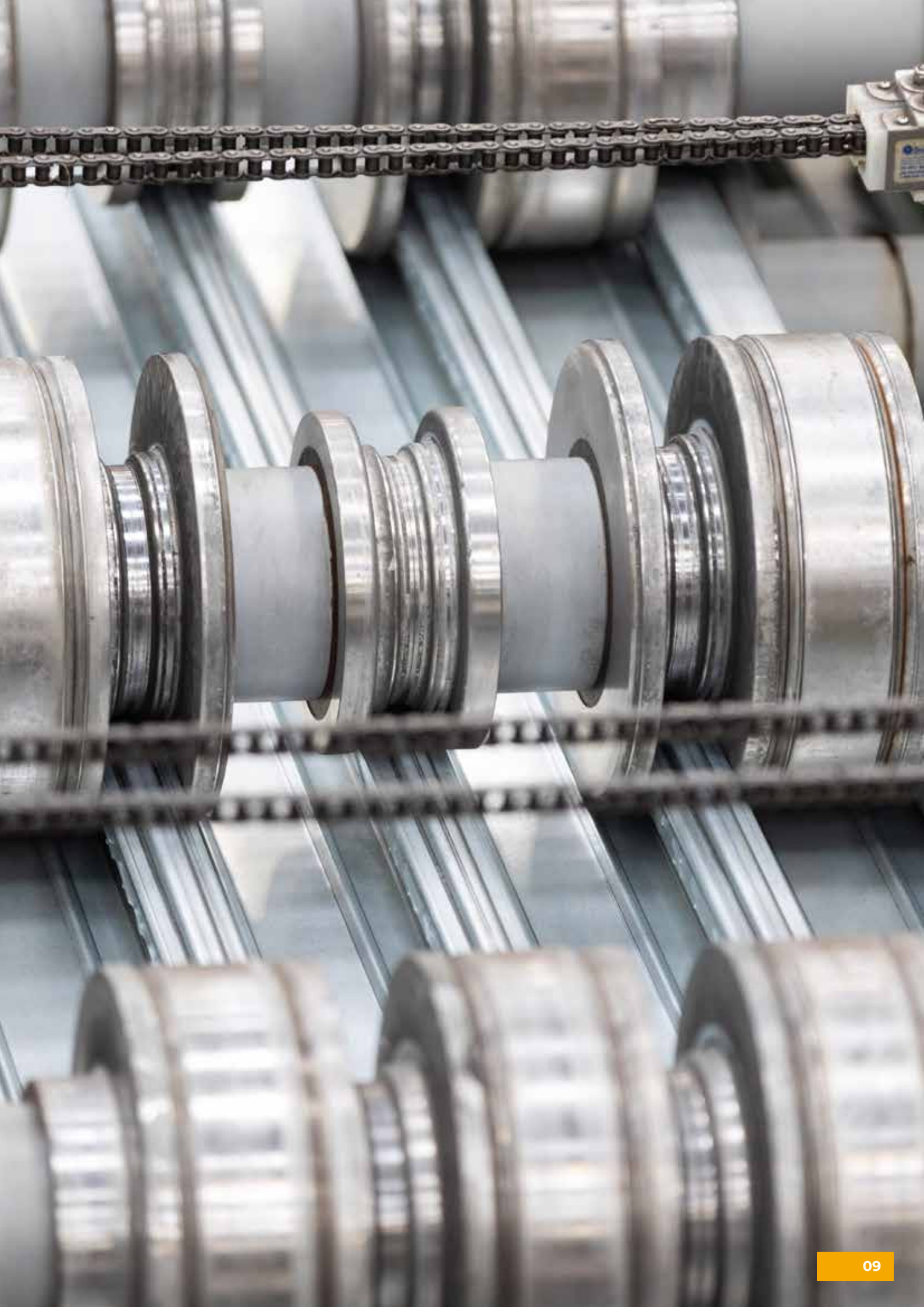
The strength and durability of the steel provides a solid platform for construction on top of open web joists, structural steel, light gauge framing, or masonry walls. The deck therefore acts as a form for the concrete and is typically designed so that shoring is not required.

The AMDECK® Range

Our range of AMDECK® steel deck is available in three decking ranges to suit the majority of metal deck designed structures in the UK. We have two trapezoidal decks, AMDECK®60 and AMDECK®80, and one re-entrant deck, AMDECK®54. Each of our profiles is available in 0.9mm or 1.2mm gauge.

AMDECK® profiles are all 600mm wide, making them lightweight and easy to handle.

Our unique AMDECK® embossments and other design properties, deliver exceptional structural performance. This often means that a thinner gauge deck can sometimes be used (compared to other equivalent decks types) leading to material savings and lower project costs.



AMDECK®54

PRODUCT DATA SHEET

PROFILE PROPERTIES

Nominal Thickness (mm)	Available Grades (Nmm 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	S350 / S450	54	0.136	20.93	1697.1	79.93	72.18	9.39	8.98
1.2	S350 / S450	54	0.181	20.93	2277.5	112.33	107.37	12.08	11.85

Grade of steel in accordance with BS EN

Nominal Thickness (mm)	Available Grades (Nmm 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	S350 / S450	60	0.100	32.78	1241.3	100.95	93.93	10.76	8.78
1.2	S350 / S450	60	0.132	32.78	1656.9	133.5	135.73	12.84	11.45

Grade of steel in accordance with BS EN




Nominal Thickness (mm)	Available Grades (Nmm 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	S350 / S450	80	0.110	43.16	1376	177.4	176	15.1	12.16
1.2	S350 / S450	80	0.146	43.16	1840.5	238.21	250.1	20.61	17.17

Grade of steel in accordance with BS EN

Fabric Reference	Minimum lap length (mm) for concrete class		
	C25/30	LC28/35	C30/37 & LC30/33
0.9	S350 / S450	80	0.110
1.2	S350 / S450	80	0.146

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

AMD60 LOAD SPAN TABLE (Eurocode) - Steel Grade S350 - Normal Weight Concrete

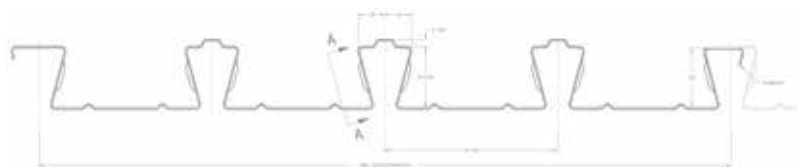
SpanType	Fire Rating (Hours)	Slab Depth (mm)	Mesh	Maximum Permissible Span (m)				Mesh	Maximum Permissible Span (m)			
				0.9mm Gauge					0.9mm Gauge			
				Total Unfactored Applied Load (kN/m ²)					Total Unfactored Applied Load (kN/m ²)			
				3.5	4.5	7.0	9.5		3.5	4.5	7.0	9.5
 <p>Single Span</p>	1	100	A142	3.31	3.31	3.31	3.31	A193	3.65	3.65	3.65	3.65
	1	130	A193	3.07	3.07	3.07	3.07	A193	3.41	3.41	3.41	3.41
	1	150	A193	2.94	2.94	2.94	2.94	A193	3.27	3.27	3.27	3.27
	1.5	110	A142	3.22	3.22	3.22	3.22	A193	3.57	3.57	3.57	3.57
	1.5	130	A193	3.07	3.07	3.07	3.07	A193	3.41	3.41	3.41	3.41
	1.5	150	A193	2.94	2.94	2.94	2.94	A193	3.27	3.27	3.27	3.27
 <p>Double Span</p>	1	100	A142	3.96	3.96	3.96	3.52	A142	3.68	3.68	3.68	3.65
	1	130	A193	3.64	3.64	3.64	3.64	A193	4.13	4.13	4.13	4.13
	1	150	A193	3.43	3.43	3.43	3.43	A193	3.95	3.95	3.95	3.95
	1.5	110	A142	3.85	3.85	3.85	3.84	A142	4.35	4.35	4.35	3.97
	1.5	130	A193	3.64	3.64	3.64	3.64	A193	4.13	4.13	4.13	4.13
	1.5	150	A193	3.43	3.43	3.43	3.43	A193	3.94	3.94	3.94	3.94
 <p>Double Span (propped)</p>	1	110	A252	4.65	4.62	4.18	3.78	A252	4.85	4.83	4.34	3.97
	1	130	A393	5.00	5.00	4.82	4.25	A393	5.25	5.23	4.97	4.58
	1	150	A393	5.35	5.35	5.28	4.70	A393	5.64	5.61	5.45	5.05
	1.5	110	A252	4.65	4.62	4.18	3.78	A252	4.85	4.83	4.34	3.97
	1.5	130	A393	5.00	5.00	4.82	4.25	A393	5.25	5.23	4.97	4.58
	1.5	150	A393	5.35	5.35	5.28	4.70	A393	5.64	5.61	5.45	5.05

DESIGN TABLE LIMITS

GREY = SERVICEABILITY STAGE GREEN = CONSTRUCTION STAGE BLUE = NORMAL STAGE ▲ Permanent Support ↑ Temporary Propping

AMD54 SECTION PROPERTIES

Nominal Thickness (mm)	Design Thickness (bare steel (mm))	Available Grades (Nmm 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	54	0.136	20.93	1697.1	79.93	72.18	9.39	8.98
1.2	1.16	S350	54	0.181	20.93	2277.5	112.33	107.37	12.08	11.85



AMD54 - 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.

AMDECK®60

PRODUCT DATA SHEET

PROFILE PROPERTIES

Nominal Thickness (mm)	Available Grades (Nmm2)	Depth of Profile (mm)	Weight of Profile (kN/m2)	Height of Neutral axis (mm)	Area of Steel (mm2/m)	Moment of Inertia (cm4/m)		Ultimate Moment Capacity (kNm/m)	
						Sagging	Hogging	Sagging	Hogging
0.9	S350 / S450	54	0.136	20.93	1697.1	79.93	72.18	9.39	8.98
1.2	S350 / S450	54	0.181	20.93	2277.5	112.33	107.37	12.08	11.85

Grade of steel in accordance with BS EN

Nominal Thickness (mm)	Available Grades (Nmm2)	Depth of Profile (mm)	Weight of Profile (kN/m2)	Height of Neutral axis (mm)	Area of Steel (mm2/m)	Moment of Inertia (cm4/m)		Ultimate Moment Capacity (kNm/m)	
						Sagging	Hogging	Sagging	Hogging
0.9	S350 / S450	60	0.100	32.78	1241.3	100.95	93.93	10.76	8.78
1.2	S350 / S450	60	0.132	32.78	1656.9	133.5	135.73	12.84	11.45

Grade of steel in accordance with BS EN



Nominal Thickness (mm)	Available Grades (Nmm2)	Depth of Profile (mm)	Weight of Profile (kN/m2)	Height of Neutral axis (mm)	Area of Steel (mm2/m)	Moment of Inertia (cm4/m)		Ultimate Moment Capacity (kNm/m)	
						Sagging	Hogging	Sagging	Hogging
0.9	S350 / S450	80	0.110	43.16	1376	177.4	176	15.1	12.16
1.2	S350 / S450	80	0.146	43.16	1840.5	238.21	250.1	20.61	17.17

Grade of steel in accordance with BS EN

Fabric Reference	Minimum lap length (mm) for concrete class		
	C25/30	LC28/35	C30/37 & LC30/33
A142	195	180	175
A193	230	210	200
A252	260	240	230
A393	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

AMD60 LOAD SPAN TABLE (Eurocode) - Steel Grade S350 - Normal Weight Concrete

Span Type	Fire Rating (Hours)	Slab Depth (mm)	Mesh	Maximum Permissible Span (m)				Mesh	Maximum Permissible Span (m)			
				0.9mm Gauge					0.9mm Gauge			
				Total Unfactored Applied Load (kN/m²)					Total Unfactored Applied Load (kN/m²)			
				3.5	4.5	7.0	9.5		3.5	4.5	7.0	9.5
 Single Span	1	130	A193	3.49	3.49	3.49	3.49	A193	3.79	3.79	3.79	3.61
	1	150	A193	3.32	3.32	3.32	3.32	A193	3.62	3.62	3.62	3.62
	1	200	A393	3.00	3.00	3.00	3.00	A193	3.28	3.28	3.28	3.28
	1.5	130	A193	3.49	3.49	3.49	3.11	A193	3.79	3.79	3.79	3.61
	1.5	150	A193	3.32	3.32	3.32	3.32	A193	3.61	3.61	3.61	3.61
	1.5	200	A393	3.00	3.00	3.00	3.00	A193	3.27	3.27	3.27	3.27
 Double Span	1	130	A193	3.51	3.51	3.51	3.12	A142	4.16	4.16	4.16	3.63
	1	150	A193	3.23	3.23	3.23	3.23	A193	4.00	4.00	4.00	3.95
	1	200	A393	2.69	2.69	2.69	2.69	A193	3.41	3.41	3.41	3.41
	1.5	130	A193	3.51	3.51	3.51	3.12	A142	4.16	4.16	4.16	3.63
	1.5	150	A193	3.23	3.23	3.23	3.23	A193	4.00	4.00	4.00	3.95
	1.5	200	A393	2.69	2.69	2.69	2.69	A193	3.41	3.41	3.41	3.41
 Double Span (propped)	1	130	A393	4.13	3.25	3.25	2.88	A252	4.80	4.42	3.78	3.36
	1	150	A393	4.36	3.48	3.48	3.10	A393	5.08	4.71	4.06	3.62
	1	200	A393 x2	4.50	3.92	3.92	3.54	A393 x2	5.57	5.22	4.58	4.12
	1.5	130	A393	4.13	3.25	3.25	2.88	A252	4.80	4.42	3.78	3.36
	1.5	150	A393	4.36	3.48	3.48	3.10	A393	5.08	4.71	4.06	3.62
	1.5	200	A393 x2	4.50	3.92	3.92	3.54	A393 x2	5.57	5.22	4.58	4.12

DESIGN TABLE LIMITS

GREY = SERVICEABILITY STAGE GREEN = CONSTRUCTION STAGE BLUE = NORMAL STAGE ▲ Permanent Support ↑ Temporary Propping

AMD60 SECTION PROPERTIES

Nominal Thickness (mm)	Design Thickness (bare steel) (mm)	Available Grades (Nmm 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	60	0.100	32.78	1241.3	100.95	93.93	10.76	8.78
1.2	1.16	S350	60	0.132	32.78	1656.9	133.5	135.73	12.84	11.45



AMD60 - 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	3.35*	3.52*	3.52*	3.52*	3.83*	3.83*	3.83*	3.55*
		1	140	A142	3.43*	3.43*	3.43*	3.43*	3.74*	3.74*	3.74*	3.44*
		1	150	A142	3.35*	3.35*	3.35*	3.35*	3.65*	3.65*	3.65*	3.37*
		1	180	A193	3.15*	3.15*	3.15*	3.15*	3.43*	3.43*	3.43*	3.30*
	Double Span (Equal Span)	1	130	A142	4.14*	4.14*	3.93*	3.41*	4.59*	4.59*	3.83*	3.60*
		1	140	A142	4.03*	4.03*	4.03*	3.55*	4.47*	4.47*	3.98*	4.23*
		1	150	A142	3.92*	3.92*	3.92*	3.70*	4.36*	4.36*	4.19*	4.13*
		1	180	A193	3.75	3.75	3.75	3.74*	4.05*	4.05*	4.05*	4.03*
Temporary props at Mid- Span	Single Span	1	130	A142	4.63*	4.29*	3.69*	3.30*	4.62*	4.28*	3.69*	3.60*
		1	140	A142	4.76*	4.43*	3.83*	3.42*	4.75*	4.42*	3.82*	4.47*
		1	150	A142	4.88*	4.55*	3.95*	3.54*	4.87*	4.54*	3.95*	4.68*
		1	180	A193	5.17*	4.85*	4.26*	3.84*	5.16*	5.85*	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.

AMDECK®80

PRODUCT DATA SHEET

PROFILE PROPERTIES

Nominal Thickness (mm)	Available Grades (Nmm2)	Depth of Profile (mm)	Weight of Profile (kN/m2)	Height of Neutral axis (mm)	Area of Steel (mm2/m)	Moment of Inertia (cm4/m)		Ultimate Moment Capacity (kNm/m)	
						Sagging	Hogging	Sagging	Hogging
0.9	S350 / S450	54	0.136	20.93	1697.1	79.93	72.18	9.39	8.98
1.2	S350 / S450	54	0.181	20.93	2277.5	112.33	107.37	12.08	11.85

Grade of steel in accordance with BS EN

Nominal Thickness (mm)	Available Grades (Nmm2)	Depth of Profile (mm)	Weight of Profile (kN/m2)	Height of Neutral axis (mm)	Area of Steel (mm2/m)	Moment of Inertia (cm4/m)		Ultimate Moment Capacity (kNm/m)	
						Sagging	Hogging	Sagging	Hogging
0.9	S350 / S450	60	0.100	32.78	1241.3	100.95	93.93	10.76	8.78
1.2	S350 / S450	60	0.132	32.78	1656.9	133.5	135.73	12.84	11.45

Grade of steel in accordance with BS EN




Nominal Thickness (mm)	Available Grades (Nmm2)	Depth of Profile (mm)	Weight of Profile (kN/m2)	Height of Neutral axis (mm)	Area of Steel (mm2/m)	Moment of Inertia (cm4/m)		Ultimate Moment Capacity (kNm/m)	
						Sagging	Hogging	Sagging	Hogging
0.9	S350 / S450	80	0.110	43.16	1376	177.4	176	15.1	12.16
1.2	S350 / S450	80	0.146	43.16	1840.5	238.21	250.1	20.61	17.17

Grade of steel in accordance with BS EN

Fabric Reference	Minimum lap length (mm) for concrete class					
	C25/30		LC28/35		C30/37 & LC30/33	
A142	195		180		175	
A193	230		210		200	
A252	260		240		230	
A393	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

AMD80 LOAD SPAN TABLE (Eurocode) - Steel Grade S350 - Normal Weight Concrete

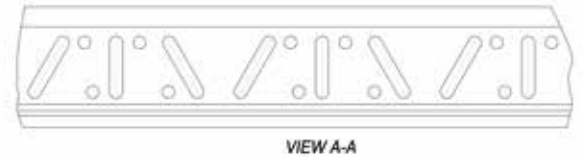
Span Type	Fire Rating (Hours)	Slab Depth (mm)	Mesh	Maximum Permissible Span (m)				Mesh	Maximum Permissible Span (m)						
				0.9mm Gauge					0.9mm Gauge						
				Total Unfactored Applied Load (kN/m²)					Total Unfactored Applied Load (kN/m²)						
				3.5	4.5	7.0	9.5					3.5	4.5	7.0	9.5
 Single Span	1	140	A142	4.10	4.10	3.93	3.40	A193	4.39	4.39	4.39	3.91			
	1	160	A193	3.94	3.94	3.94	3.71	A193	4.23	4.23	4.23	4.23			
	1	200	A252	3.64	3.64	3.64	3.64	A193	3.98	3.98	3.98	3.98			
	1.5	150	A142	4.00	4.00	4.00	3.55	A193	4.31	4.31	4.31	4.09			
	1.5	160	A193	3.94	3.94	3.94	3.70	A193	4.23	4.23	4.23	4.23			
	1.5	200	A252	3.64	3.64	3.64	3.64	A193	3.98	3.98	3.98	3.98			
 Double Span	1	140	A142	3.96	3.96	3.95	3.40	A142	4.88	4.88	4.55	3.92			
	1	160	A193	3.61	3.61	3.61	3.61	A193	4.69	4.69	4.69	4.29			
	1	200	A252	3.10	3.10	3.10	3.10	A193	4.12	4.12	4.12	4.12			
	1.5	150	A142	3.78	3.78	3.78	3.56	A142	4.72	4.72	4.72	4.11			
	1.5	160	A193	3.61	3.61	3.61	3.61	A193	4.69	4.69	4.69	4.29			
	1.5	200	A252	3.10	3.10	3.10	3.10	A193	4.12	4.12	4.12	4.12			
 Double Span (propped)	1	140	A252	4.58	4.20	3.55	3.13	A252	5.17	4.82	4.09	3.61			
	1	160	A393	4.85	4.47	3.81	3.38	A393	5.48	5.14	4.39	3.90			
	1	200	A252 x2	5.16	4.91	4.25	3.80	A393 x2	6.06	5.65	4.89	4.37			
	1.5	150	A252	4.58	4.20	3.55	3.13	A252	5.17	4.82	4.09	3.61			
	1.5	160	A393	4.85	4.47	3.81	3.38	A393	5.48	5.14	4.39	3.90			
	1.5	200	A252 x2	5.16	4.91	4.25	3.80	A393 x2	6.06	5.65	4.89	4.37			

DESIGN TABLE LIMITS

GREY = SERVICEABILITY STAGE GREEN = CONSTRUCTION STAGE BLUE = NORMAL STAGE ▲ Permanent Support ↑ Temporary Propping

AMD80 SECTION PROPERTIES

Nominal Thickness (mm)	Design Thickness (bare steel (mm))	Available Grades (Nmm 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	80	0.110	43.16	1376	177.4	176	15.1	12.16
1.2	1.16	S350	80	0.146	43.16	1840.5	238.21	250.1	20.61	17.17



AMD80 - 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*	3.56*	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.



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