

GRS Bond-Lok

# Global Roofing Solutions Bond-Lok™ Composite Deck 50/270mm

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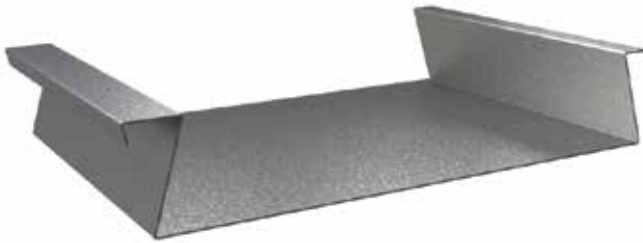


GRS Bond-Lok



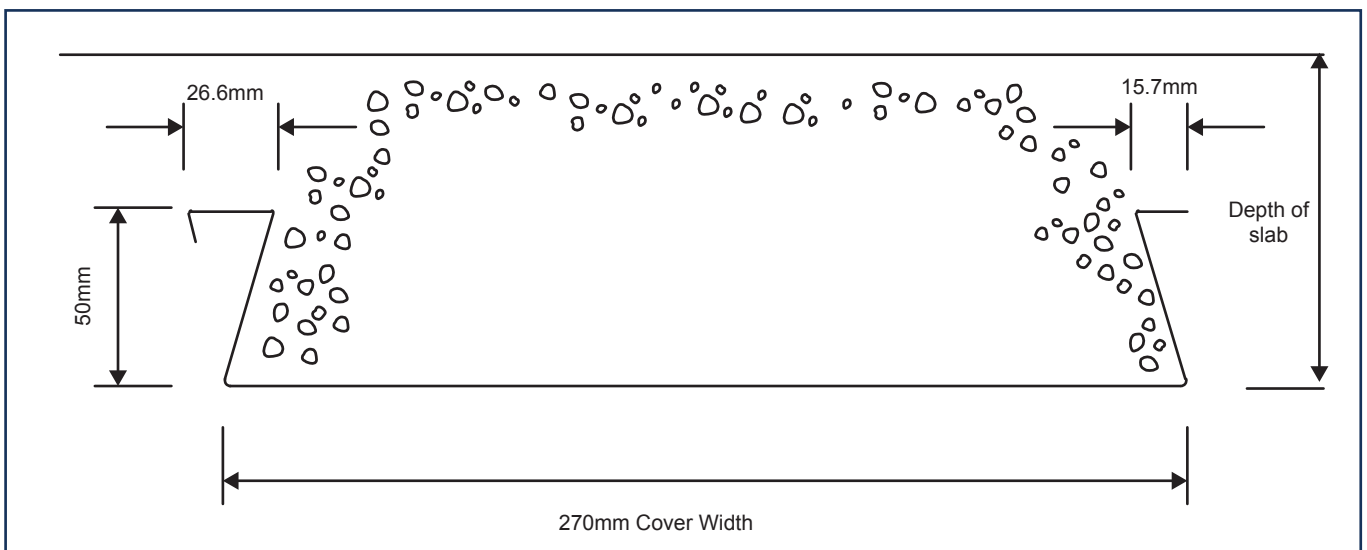
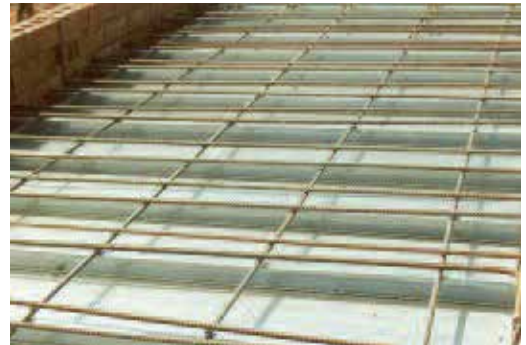
# Bond-Lok™ Composite Deck

- Bond-Lok's unique side lap inter-locking system provides for fast and simple construction.
- Bond-Lok's spanning capabilities allow for a reduction in the number of temporary supports required.
- Bond-Lok eliminates the need for temporary form-work and reinforcement.
- Bond-Lok will accept most floor service systems.
- Bond-Lok's soffit forms the finished ceiling without the need for plastering.
- Global Roofing Solutions has been assessed and certified as complying with ISO 9001:2015 Quality Management System.
- Bond-Lok has been fire-tested by the CSIR and has qualified for a fire rating of 120 minutes - results and further information are available on request.



Material:

Galvanised steel to Z275.



# Bond-Lok™

## General

- Bond-Lok floor slabs are basically one-way slabs designed to carry uniformly distributed loads. The tables do not cater for heavy concentrated loads or moving loads. Where these occur, the design should be referred to a civil / structural engineer.
- Calculations are generally in accordance with BS5950 : Part 4 : 1984 (limit states design). Deflection during construction calculated at span/180m.
- For normal applications of Bond-Lok steel floors, no additional reinforcing other than a light mesh for shrinkage control is required, typically Ref. 193 mesh.
- For "Fire Applications" of Bond-Lok floors, welded steel mesh reinforcement of 8mm diameter steel bars at 200mm spacing in each direction is required, with minimum top cover along supports (typically on top of shear studs). This gives a fire rating of 90 minutes for a slab of 140mm or greater with a nominal superimposed load of 2,5kN/m<sup>2</sup> maximum, for spans up to 3,0m.

For further information on fire applications contact GRS. Material - minimum guaranteed yield stress = 200 Mpa. N.B. All tabulated values serve as a guide only for single span conditions, and should be certified and approved by a civil / structural engineer.

## Accessories

The following accessories are available for use with Bond-Lok: Self-tapping screws, pop rivets, hammer drive screws and kerb flashings made to order

SECTION PROPERTIES OF STEEL DECKING- SIMPLY SUPPORTED CONDITION							
Thickness (mm)		Area of steel per metre width of cross section (mm <sup>2</sup> )	Mass per square metre (kg/m <sup>2</sup> )	Minimum reduced "Z" per metre width (10 <sup>3</sup> mm <sup>3</sup> )	Reduced "I" per metre width (10 <sup>6</sup> mm <sup>4</sup> )	Effective depth of Bond-Lok™ (mm)	Neutral axis from bottom of Nominal Effective Bond-Lok™ (mm)
Nominal	Effective						
1.0	0.96	1417	11.52	10.74	0.415	49.52	10.85
1.2	1.16	1711	13.82	12.95	0.502	49.72	10.95
1.6	1.56	2301	18.42	17.33	0.675	50.12	11.15

# Bond-Lok™ Composite Deck: ALLOWABLE LOAD TABLES

Depth of slab (mm)	Nominal dead load of slab (Dn) (kN/m <sup>2</sup> )	COMPOSITE BOND-LOK™ SLAB																
		Nominal uniformly distributed superimposed load in kN/m <sup>2</sup> for simply supported conditions 20 Mpa concrete																
		Span in metres																
		1.0mm Thick																
		1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.3	5.7	6.0	6.3	6.7	7.0	7.3	7.7	8.0
100	2.48	25.0	18.8	12.8	7.6	4.3												
115	2.84	28.9	21.6	15.6	10.1	6.8	3.7											
125	3.07	31.6	23.7	17.4	11.3	7.6	5.0											
140	3.43	35.8	26.9	20.2	13.1	8.8	6.1	4.1										
150	3.66	38.6	28.9	22.0	14.3	9.6	6.6	4.6										
165	4.02		32.1	24.8	16.1	10.9	7.5	5.2	3.6	2.8								
175	4.25		34.1	26.6	17.3	11.8	8.1	5.6	3.8	3.0	2.1							
180	4.37		35.2	27.5	17.9	12.1	8.4	5.8	4.0	3.1	2.2							
190	4.61		37.3	29.3	19.1	13.0	9.0	6.3	4.3	3.4	2.4	1.8						
200	4.84		39.3	31.2	20.4	13.8	9.6	6.7	4.6	3.6	2.6	1.9	1.3					
215	5.19			33.9	22.2	15.1	10.5	7.3	5.1	4.0	2.9	2.1	1.5	0.8				
230	5.55			36.4	24.0	16.3	11.4	7.9	5.5	4.4	3.1	2.4	1.7	0.9	0.4			
240	5.78			38.1	25.2	17.2	11.9	8.4	5.8	4.6	3.3	2.5	1.8	1.0	0.5			
250	6.02			39.8	26.4	18.0	12.6	8.8	6.1	4.9	3.5	2.7	1.9	1.1	0.6	0.1		


\*Broken line indicates maximum modified span/20.

Spans to the right of the solid line require propping during construction.

1.0mm THICK BOND-LOK™ DECKING SPANS DURING CONSTRUCTION (UNPROPPED) Allowing for a construction load of 1,5 kN/m <sup>2</sup> plus wet concrete	
Slab depth (mm)	100 115 125 140 150 165 175 180 190 200 215 230 240 250
Unpropped span (m)	1.7 1.6 1.6 1.5 1.5 1.4 1.4 1.3 1.3 1.3 1.2 1.2 1.2 1.1


Depth of slab (mm)	Nominal dead load of slab (Dn) (kN/m <sup>2</sup> )	COMPOSITE BOND-LOK™ SLAB																
		Nominal uniformly distributed superimposed load in kN/m <sup>2</sup> for simply supported conditions 20 Mpa concrete																
		Span in metres																
		1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.3	5.7	6.0	6.3	6.7	7.0	7.3	7.7	8.0
100	2.51	25.0	18.8	14.5	8.4	5.3												
115	2.86	28.8	21.9	17.5	12.0	7.8	5.2											
125	3.10	31.9	23.8	18.8	13.5	9.2	6.4	4.5										
140	3.45	35.6	26.9	21.3	15.7	10.7	7.6	5.3										
150	3.69	38.8	28.8	23.1	17.3	11.8	8.2	5.9	4.1									
165	4.04		31.9	25.6	19.5	13.4	9.4	6.7	4.7	3.8								
175	4.27		34.4	27.5	21.0	14.4	10.2	7.2	5.2	4.2	3.1							
180	4.39		35.0	28.1	21.7	14.9	10.6	7.5	5.4	4.4	3.3	2.6						
190	4.63		37.5	30.0	23.3	16.0	11.3	8.1	5.7	4.7	3.5	2.8						
200	4.86		39.4	31.3	24.8	17.1	12.1	8.6	6.2	5.0	3.8	3.0	2.3					
215	5.22			33.8	27.1	18.6	13.2	9.4	6.8	5.6	4.2	3.3	2.6	1.7				
230	5.57			36.3	29.3	20.2	14.3	10.3	7.4	6.1	4.6	3.6	2.9	1.9				
240	5.81			38.1	30.8	21.3	15.1	10.9	7.8	6.4	4.8	3.9	3.0	2.1	1.5			
250	6.04				32.3	22.3	15.9	11.4	8.2	6.8	5.1	4.1	3.2	2.3	1.6	1.1		

\*Broken line indicates maximum modified span/20.  
Spans to the right of the solid line require propping during construction.

		1.2mm THICK BOND-LOK™ DECKING SPANS DURING CONSTRUCTION (UNPROPPED) Allowing for a construction load of 1,5 kN/m <sup>2</sup> plus wet concrete													
Slab depth (mm)		100	115	125	140	150	165	175	180	190	200	215	230	240	250
Unpropped span (m)		1.8	1.7	1.7	1.6	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.3	1.3

Depth of slab (mm)	Nominal dead load of slab (Dn) (kN/m <sup>2</sup> )	COMPOSITE BOND-LOK™ SLAB																
		Nominal uniformly distributed superimposed load in kN/m <sup>2</sup> for simply supported conditions 20 Mpa concrete																
		Span in metres																
		1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.3	5.7	6.0	6.3	6.7	7.0	7.3	7.7	8.0
100	2.55	25.0	18.8	15.0	9.3	5.6												
115	2.91	28.8	21.9	17.5	14.1	8.9	5.4											
125	3.14	31.9	23.8	18.8	15.6	11.3	7.4	4.3										
140	3.49	35.6	26.9	21.3	18.1	14.4	10.3	6.7										
150	3.73	38.8	28.8	23.1	19.4	15.9	11.4	8.4	5.2									
165	4.08		31.9	25.6	21.3	18.2	13.1	9.6	7.1	5.5								
175	4.32		34.4	27.5	22.5	19.4	14.2	10.4	7.7	6.4	4.6							
180	4.44		35.0	28.1	23.8	20.0	14.7	10.8	8.0	6.7	5.2	3.8						
190	4.67		37.5	30.0	25.0	21.3	15.8	11.6	8.6	7.2	5.7	4.7						
200	4.91		39.4	31.3	26.3	22.5	16.9	12.4	9.3	7.8	6.1	5.1	4.3					
215	5.26			33.8	28.1	24.4	18.5	13.6	10.2	8.6	6.8	5.6	4.7	3.6				
230	5.61			36.3	30.6	26.3	20.1	14.9	11.1	9.4	7.4	6.2	5.2	4.0				
240	5.85			38.1	31.9	27.5	21.3	15.7	11.8	9.9	7.9	6.6	5.5	4.3	3.4			
250	6.09				33.1	28.1	22.3	16.5	12.4	10.4	8.2	6.9	5.8	4.5	3.7	2.9		

\*Broken line indicates maximum modified span/20.  
Spans to the right of the solid line require propping during construction.

		1.6mm THICK BOND-LOK™ DECKING SPANS DURING CONSTRUCTION (UNPROPPED) Allowing for a construction load of 1,5 kN/m <sup>2</sup> plus wet concrete													
Slab depth (mm)		100	115	125	140	150	165	175	180	190	200	215	230	240	250
Unpropped span (m)		2.0	2.0	1.9	1.9	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.5	1.5

Depth of slab (mm)	Nominal dead load of slab (Dn) (kN/m <sup>2</sup> )	COMPOSITE BOND-LOK™ SLAB																
		Nominal uniformly distributed superimposed load in kN/m <sup>2</sup> for simply supported conditions 20 Mpa concrete																
		Span in metres																
		1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.3	5.7	6.0	6.3	6.7	7.0	7.3	7.7	8.0
100	2.60	25.0	18.7	15.0	9.4	5.6	2.9											
115	3.00	28.7	21.9	17.5	14.4	9.4	5.9	3.2										
125	3.19	31.9	23.8	18.8	15.7	12.2	8.2	4.8										
140	3.54	35.7	26.9	21.3	18.2	15.7	11.4	7.7										
150	3.78	38.8	28.8	23.1	19.4	16.3	13.9	9.8	6.2									
165	4.13		31.9	25.6	21.3	18.1	16.3	12.1	8.8	6.7								
175	4.37		34.4	27.5	22.5	19.4	16.9	13.1	9.9	8.3	5.8							
180	4.48		35.0	28.1	23.8	20.0	17.5	13.7	10.3	8.8	6.5	5.0						
190	4.72		37.5	30.0	25.0	21.2	18.7	14.7	11.2	9.5	7.6	6.1						
200	4.95		39.4	31.2	26.2	22.5	19.4	15.8	12.0	10.2	8.2	7.0	5.7					
215	5.31			33.7	28.1	24.4	21.2	17.4	13.2	11.2	9.1	7.7	6.6	5.3				
230	5.66			36.2	30.6	26.2	22.5	19.1	14.5	12.4	10.0	8.6	7.3	5.9				
240	5.90			38.2	31.9	27.5	23.8	20.2	15.3	13.1	10.7	9.1	7.8	6.3	5.3			
250	6.13				33.1	28.1	25.0	21.3	16.2	13.8	11.2	9.6	8.2	6.6	5.6	4.8		

\*Broken line indicates maximum modified span/20.  
Spans to the right of the solid line require propping during construction.

2.0mm THICK BOND-LOK™ DECKING SPANS DURING CONSTRUCTION (UNPROPPED) Allowing for a construction load of 1,5 kN/m <sup>2</sup> plus wet concrete	
Slab depth (mm)	100 115 125 140 150 165 175 180 190 200 215 230 240 250
Unpropped span (m)	2.2 2.1 2.0 2.0 1.9 1.9 1.8 1.8 1.8 1.7 1.7 1.6 1.6 1.6

## Bond-Lok™ Composite Deck: FACTORED LOAD TABLES

Depth of slab (mm)	Nominal dead load of slab (Dn) (kN/m <sup>2</sup> )	COMPOSITE BOND-LOK™ SLAB																
		Total FACTORED uniformly distributed superimposed load in kN/m <sup>2</sup> for simply supported conditions (1,4 Dn + 1,6 Ln) 20 Mpa concrete																
		Span in metres																
		1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.3	5.7	6.0	6.3	6.7	7.0	7.3	7.7	8.0
100	2.48	43.5	33.5	24.0	15.7	10.3												
115	2.84	50.2	38.6	28.9	20.1	14.8	9.9											
125	3.07	54.9	42.2	32.2	22.3	16.4	12.3											
140	3.43	62.1	47.8	37.1	25.7	18.9	14.5	11.3										
150	3.66	66.8	51.4	40.3	28.0	20.5	15.7	12.5										
165	4.02		56.9	45.2	31.4	23.0	17.6	13.9	11.3	10.0								
175	4.25		60.6	48.5	33.7	24.8	19.0	15.0	12.1	10.8	9.3							
180	4.37		62.4	50.1	34.8	25.5	19.5	15.4	12.5	11.1	9.6							
190	4.61		66.1	53.4	37.1	27.3	20.9	16.5	13.4	11.9	10.3	9.3						
200	4.84		69.7	56.7	39.4	28.9	22.1	17.5	14.2	12.6	10.9	9.8	8.9					
215	5.19			61.6	42.8	31.4	24.1	19.0	15.4	13.7	11.8	10.7	9.7	8.6				
230	5.55			66.1	46.2	33.9	26.0	20.5	16.6	14.8	12.8	11.5	10.5	9.3	8.5			
240	5.78			69.1	48.4	35.6	27.2	21.5	17.4	15.5	13.4	12.1	11.0	9.7	8.9			
250	6.02				50.6	37.2	28.5	22.5	18.2	16.2	14.0	12.7	11.5	10.2	9.3	8.6		


\*Broken line indicates maximum modified span/20.  
Spans to the right of the solid line require propping during construction.

1.0mm THICK BOND-LOK™ DECKING SPANS DURING CONSTRUCTION (UNPROPPED) Allowing for a construction load of 1,5 kN/m <sup>2</sup> plus wet concrete	
Slab depth (mm)	100 115 125 140 150 165 175 180 190 200 215 230 240 250
Unpropped span (m)	1.7 1.6 1.6 1.5 1.5 1.4 1.4 1.3 1.3 1.3 1.2 1.2 1.2 1.1

# Bond-Lok™ Composite Deck: FACTORED LOAD TABLES


Depth of slab (mm)	Nominal dead load of slab (Dn) (kN/m²)	COMPOSITE BOND-LOK™ SLAB																	
		Total FACTORED uniformly distributed superimposed load in kN/m² for simply supported conditions (1,4 Dn + 1,6 Ln)																	
		20 Mpa concrete																	
		Span in metres																	
		1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.3	5.7	6.0	6.3	6.7	7.0	7.3	7.7	8.0	
100	2.51	43.5	33.5	26.7	16.9	11.9													
115	2.86	50.0	39.0	32.0	23.2	16.4	12.3												
125	3.10	55.3	42.3	34.3	25.9	19.0	14.5	11.5											
140	3.45	61.8	47.8	38.8	30.0	22.0	16.9	13.3											
150	3.69	67.2	51.2	42.2	32.8	24.1	18.4	14.6	11.8										
165	4.04		56.7	46.7	36.9	27.1	20.8	16.4	13.3	11.8									
175	4.27		61.0	50.0	39.6	29.1	22.3	17.6	14.3	12.7	11.0								
180	4.39		62.1	51.1	40.9	30.0	23.0	18.1	14.7	13.1	11.3	10.2							
190	4.63		66.5	54.5	43.7	32.1	24.6	19.4	15.7	14.0	12.1	10.9							
200	4.86		69.8	56.8	46.4	34.1	26.1	20.6	16.7	14.8	12.8	11.6	10.5						
215	5.22			61.3	50.6	37.1	28.4	22.4	18.2	16.2	14.0	12.6	11.4	10.1					
230	5.57			65.8	54.7	40.2	30.7	24.3	19.7	17.5	15.1	13.6	12.4	10.9					
240	5.81			69.1	57.4	42.1	32.2	25.5	20.6	18.3	15.8	14.3	12.9	11.4	10.5				
250	6.04				60.2	44.2	33.9	26.8	21.7	19.3	16.7	15.0	13.6	12.1	11.1	10.2			

\*Broken line indicates maximum modified span/20.  
Spans to the right of the solid line require propping during construction.

		1.2mm THICK BOND-LOK™ DECKING SPANS DURING CONSTRUCTION (UNPROPPED)													
		Allowing for a construction load of 1,5 kN/m² plus wet concrete													
Slab depth (mm)		100	115	125	140	150	165	175	180	190	200	215	230	240	250
Unpropped span (m)		1.8	1.7	1.7	1.6	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.3	1.3

Depth of slab (mm)	Nominal dead load of slab (Dn) (kN/m²)	COMPOSITE BOND-LOK™ SLAB																	
		Total FACTORED uniformly distributed superimposed load in kN/m² for simply supported conditions (1,4 Dn + 1,6 Ln)																	
		20 Mpa concrete																	
		Span in metres																	
		1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.3	5.7	6.0	6.3	6.7	7.0	7.3	7.7	8.0	
100	2.55	43.6	33.6	27.6	18.4	12.6													
115	2.91	50.2	39.1	32.1	26.7	18.3	12.8												
125	3.14	55.4	42.4	34.4	29.4	22.5	16.3	11.3											
140	3.49	61.9	47.9	38.9	33.9	28.0	21.4	15.6											
150	3.73	67.2	51.2	42.2	36.2	30.7	23.5	18.6	13.5										
165	4.08		56.7	46.7	39.7	34.8	26.6	21.0	17.0	14.5									
175	4.32		61.0	50.0	42.0	37.0	28.7	22.7	18.3	16.3	13.4								
180	4.44		62.2	51.2	44.2	38.2	29.7	23.5	19.0	16.9	14.5	12.3							
190	4.67		66.5	54.5	46.5	40.5	31.8	25.1	20.3	18.1	15.6	14.1							
200	4.91		69.9	56.9	48.9	42.9	33.9	26.8	21.7	19.3	16.7	15.1	13.7						
215	5.26			61.4	52.4	46.4	37.0	29.2	23.7	21.1	18.2	16.4	14.9	13.2					
230	5.61			65.9	56.9	49.9	40.1	31.7	25.7	22.9	19.8	17.8	16.2	14.3					
240	5.85			69.2	59.2	52.2	42.2	33.3	27.0	24.0	20.8	18.7	17.0	15.0	13.7				
250	6.09				61.5	53.5	44.2	34.9	28.3	25.2	21.7	19.6	17.8	15.7	14.4	13.2			

\*Broken line indicates maximum modified span/20.  
Spans to the right of the solid line require propping during construction.

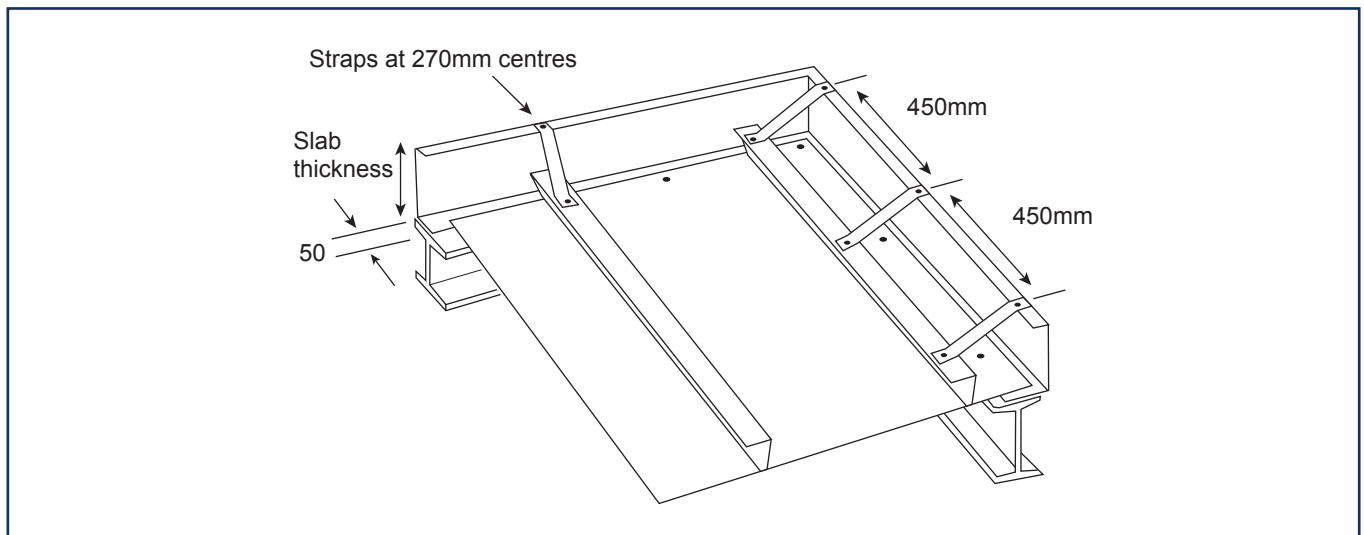
		1.6mm THICK BOND-LOK™ DECKING SPANS DURING CONSTRUCTION (UNPROPPED)													
		Allowing for a construction load of 1,5 kN/m² plus wet concrete													
Slab depth (mm)		100	115	125	140	150	165	175	180	190	200	215	230	240	250
Unpropped span (m)		2.0	2.0	1.9	1.9	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.5	1.5

# Bond-Lok™ Composite Deck: FACTORED LOAD TABLES

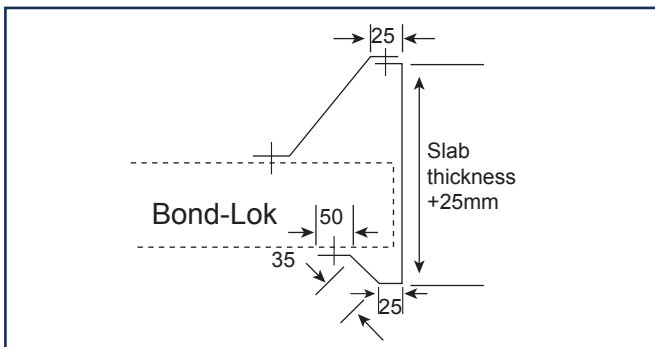
Depth of slab (mm)	Nominal dead load of slab (Dn) (kN/m <sup>2</sup> )	COMPOSITE BOND-LOK™ SLAB																
		Total FACTORED uniformly distributed superimposed load in kN/m <sup>2</sup> for simply supported conditions																
		20 Mpa concrete																
		Span in metres																
		1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.3	5.7	6.0	6.3	6.7	7.0	7.3	7.7	8.0
100	2.60	43.6	33.6	27.6	18.6	12.6	8.3											
115	3.00	50.1	39.1	32.1	27.1	19.1	13.5	9.3										
125	3.19	55.5	42.5	34.5	29.5	24.0	17.5	12.2										
140	3.54	62.0	48.0	39.0	34.0	30.0	23.2	17.3										
150	3.78	67.3	51.3	42.3	36.3	31.3	27.5	20.9	15.2									
165	4.13		56.8	46.8	39.8	34.8	31.8	25.1	19.9	16.5								
175	4.37		61.1	50.1	42.1	37.1	33.1	27.1	22.0	19.4	15.4							
180	4.48		62.3	51.3	44.3	38.3	34.3	28.2	22.8	20.3	16.7	14.2						
190	4.72		66.6	54.6	46.6	40.6	36.6	30.2	24.5	21.8	18.8	16.4						
200	4.95		69.9	56.9	48.9	42.9	37.9	32.2	26.1	23.2	20.1	18.1	16.1					
215	5.31			61.4	52.4	46.4	41.4	35.3	28.6	25.4	22.0	19.8	18.0	15.9				
230	5.66			65.9	56.9	49.9	43.9	38.4	31.1	27.7	23.9	21.6	19.6	17.3				
240	5.90			69.3	59.3	52.3	46.3	40.5	32.8	29.2	25.3	22.8	20.7	18.3	16.8			
250	6.13				61.6	63.6	48.6	42.6	34.5	30.7	26.5	23.9	21.7	19.2	17.6	16.2		

\*Broken line indicates maximum modified span/20.  
Spans to the right of the solid line require propping during construction.

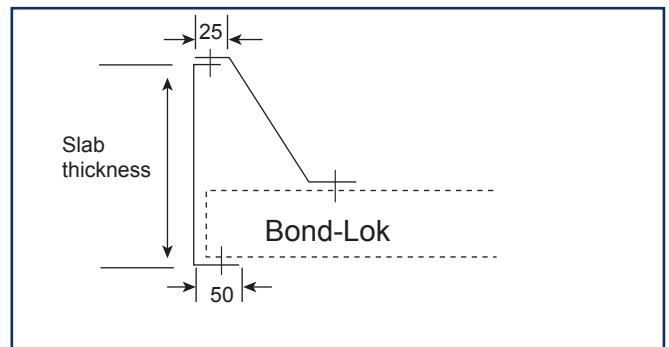
	2.0mm THICK BOND-LOK™ DECKING SPANS DURING CONSTRUCTION (UNPROPPED)														
	Allowing for a construction load of 1,5 kN/m <sup>2</sup> plus wet concrete														
Slab depth (mm)	100	115	125	140	150	165	175	180	190	200	215	230	240	250	
Unpropped span (m)	2.2	2.1	2.0	2.0	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.6	1.6	1.6	



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