

4.13 KF40® Temporary Propping Tables

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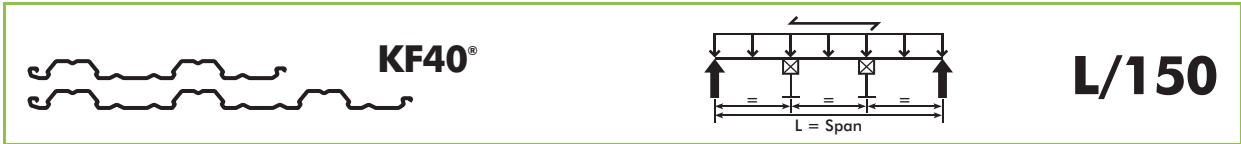
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Temporary Propping Tables Notes

1. The tables on the following pages denote maximum allowable centreline to centreline span in millimetres between permanent supports after temporary propping is removed.
2. The practical limit for span to slab depth ratio is considered to be 35 for single span slabs, or 40 for continuous slabs. Values above these limits have been listed in brackets "[]". The use of the results in brackets must be confirmed with the structural engineer or a Fielders representative as the long term serviceability and composite performance of the resulting concrete slab may not be suitable for the project application.
3. Allowance has been made for ponding of wet concrete due to decking deflection, density 2400kg/m³.
4. Loading is considered in accordance with AS 1170.0:2002, AS 2327.1:2003, AS 3610:1995 with a Stage III construction live load allowance of 1.0kPa in accordance with AS 2327.1:2003 Appendix F.
5. The requirements for Stages II & IV material stacking loads, in accordance with Appendix F of AS2327.1:2003, are assumed to be zero.
6. It is recommended that an experienced structural engineer design the composite slab to ensure sufficient capacity to meet strength and long term deflection requirements.
7. The temporary propping tables have been prepared for a span/150 & span/240 deflection criteria. A span/240 deflection is generally considered aesthetically satisfactory for exposed soffits.
8. These tables are based upon effective section properties of the sheeting calculated in accordance to AS 4600:2005.
9. Care must be exercised when placing concrete to avoid mounding.
10. Wide ply strips, of 300 mm wide, shall be provided to prevent any concentrated loads being applied to the sheeting, particularly for exposed soffits, to avoid direct point loading of the sheet overlap ribs and unsupported edges of the sheeting.
11. When using the table for two or more spans the adjacent spans should not differ in length by more than 5%.
12. A maximum sheet length of 12m has been considered.
13. A minimum bearing width of the permanent support has been considered to be 50mm.
14. Fielders recommend a gauge of 1.00 mm BMT for exposed soffits in propped applications to avoid creasing of steel decking. Please contact your local KingFlor representative for further information.

SPECIFYING FIELDERS

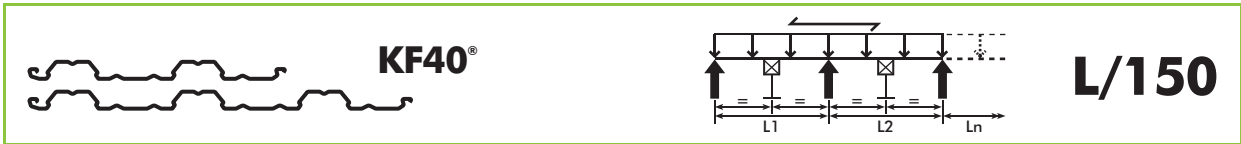
KF40® Equally Spaced Props - Single Spans Maximum Spans (mm) for Deflection L/150



Dcs (mm)	Unproped			1 Row of Props			2 Rows of Props		
	0.60 BMT	0.75 BMT	1.00 BMT	0.60 BMT	0.75 BMT	1.00 BMT	0.60 BMT	0.75 BMT	1.00 BMT
90	1,550	2,300	2,500	[3,600]	[5,150]	[5,950]	[5,400]	[7,750]	[8,950]
100	1,550	2,200	2,400	[3,600]	[5,000]	[5,750]	[5,400]	[7,500]	[8,650]
110	1,550	2,150	2,350	3,600	[4,850]	[5,600]	[5,400]	[7,300]	[8,400]
120	1,550	2,100	2,250	3,600	[4,750]	[5,450]	[5,400]	[7,150]	[8,200]
130	1,550	2,000	2,200	3,600	[4,650]	[5,300]	[5,400]	[7,000]	[7,950]
140	1,550	1,950	2,150	3,600	4,550	[5,200]	[5,400]	[6,850]	[7,800]
150	1,550	1,900	2,100	3,550	4,450	5,050	[5,350]	[6,700]	[7,600]
160	1,550	1,850	2,050	3,500	4,350	4,950	5,350	[6,550]	[7,450]
170	1,550	1,850	2,050	3,450	4,300	4,850	5,150	[6,450]	[7,300]
180	1,550	1,800	2,000	3,350	4,200	4,800	5,050	6,300	[7,200]
190	1,550	1,750	1,950	3,300	4,100	4,700	5,000	6,200	[7,050]
200	1,550	1,700	1,900	3,250	4,050	4,600	4,900	6,100	6,950
210	1,500	1,700	1,900	3,200	4,000	4,550	4,800	6,000	6,850
220	1,500	1,650	1,850	3,150	3,900	4,500	4,750	5,900	6,750
230	1,450	1,650	1,800	3,100	3,850	4,400	4,650	5,800	6,650
240	1,450	1,600	1,800	3,050	3,800	4,350	4,600	5,700	6,550
250	1,400	1,600	1,750	3,000	3,750	4,300	4,550	5,650	6,450

Table 4.13.A KF40® Equally Spaced Props - Single Spans - Maximum Spans (mm) for Deflection L/150

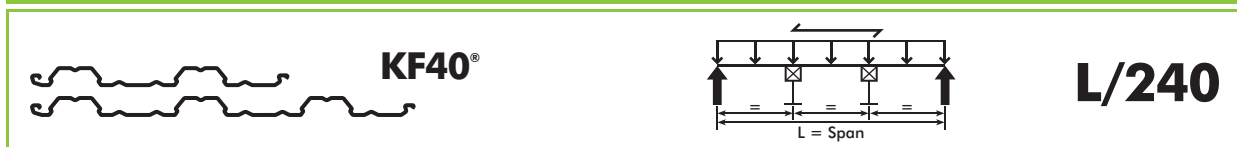
KF40® Equally Spaced Props - Two or More Spans Maximum Spans (mm) for Deflection L/150



Dcs (mm)	Unproped			1 Row of Props			2 Rows of Props		
	0.60 BMT	0.75 BMT	1.00 BMT	0.60 BMT	0.75 BMT	1.00 BMT	0.60 BMT	0.75 BMT	1.00 BMT
90	1,850	2,600	3,050	3,600	[5,150]	[5,950]	[5,400]	[7,750]	[8,950]
100	1,850	2,550	2,950	3,600	[5,000]	[5,750]	[5,400]	[7,500]	[8,650]
110	1,850	2,450	2,850	3,600	[4,850]	[5,600]	[5,400]	[7,300]	[8,400]
120	1,850	2,400	2,750	3,600	4,750	[5,450]	[5,400]	[7,150]	[8,200]
130	1,850	2,350	2,700	3,600	4,650	[5,300]	[5,400]	[7,000]	[7,950]
140	1,850	2,300	2,650	3,600	4,550	5,200	5,400	[6,850]	[7,800]
150	1,800	2,250	2,600	3,550	4,450	5,050	5,350	[6,700]	[7,600]
160	1,800	2,200	2,550	3,500	4,350	4,950	5,250	[6,550]	[7,450]
170	1,750	2,200	2,500	3,450	4,300	4,850	5,150	6,450	[7,300]
180	1,700	2,150	2,450	3,350	4,200	4,800	5,050	6,300	7,200
190	1,700	2,100	2,400	3,300	4,100	4,700	5,000	6,200	7,050
200	1,650	2,050	2,350	3,250	4,050	4,600	4,900	6,100	6,950
210	1,650	2,050	2,300	3,200	4,000	4,550	4,800	6,000	6,850
220	1,600	2,000	2,300	3,150	3,900	4,500	4,750	5,900	6,750
230	1,600	1,950	2,250	3,100	3,850	4,400	4,650	5,800	6,650
240	1,550	1,950	2,250	3,050	3,800	4,350	4,600	5,700	6,550
250	1,550	1,900	2,200	3,000	3,750	4,300	4,550	5,650	6,450

Table 4.13.B KF40® Equally Spaced Props - Two or More Spans - Maximum Spans (mm) for Deflection L/150

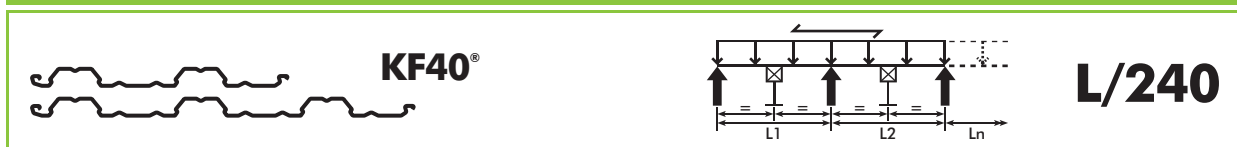
KF40® Equally Spaced Props - Single Spans Maximum Spans (mm) for Deflection L/240



Dcs (mm)	Unpropped			1 Row of Props			2 Rows of Props		
	0.60 BMT	0.75 BMT	1.00 BMT	0.60 BMT	0.75 BMT	1.00 BMT	0.60 BMT	0.75 BMT	1.00 BMT
90	1,550	2,000	2,200	[3,600]	[4,800]	[5,200]	[5,400]	[7,200]	[7,850]
100	1,550	1,900	2,100	[3,600]	[4,600]	[5,050]	[5,400]	[6,900]	[7,550]
110	1,550	1,850	2,050	3,600	[4,450]	[4,850]	[5,400]	[6,700]	[7,300]
120	1,550	1,800	1,950	3,600	[4,350]	[4,650]	[5,400]	[6,500]	[7,100]
130	1,550	1,700	1,900	3,600	4,200	[4,600]	[5,400]	[6,350]	[6,950]
140	1,550	1,650	1,850	3,600	4,100	4,500	[5,400]	[6,200]	[6,750]
150	1,500	1,650	1,800	3,550	4,000	4,400	[5,350]	[6,000]	[6,600]
160	1,450	1,600	1,750	3,500	3,900	4,300	5,250	[5,850]	[6,450]
170	1,450	1,550	1,700	3,450	3,800	4,200	5,150	5,750	[6,350]
180	1,400	1,500	1,700	3,350	3,750	4,150	5,050	5,600	6,200
190	1,350	1,500	1,650	3,300	3,650	4,050	5,000	5,500	6,100
200	1,350	1,450	1,600	3,250	3,600	4,000	4,900	5,400	6,000
210	1,300	1,450	1,600	3,200	3,500	3,900	4,800	5,300	5,850
220	1,300	1,400	1,550	3,150	3,450	3,850	4,750	5,200	5,750
230	1,250	1,400	1,550	3,100	3,400	3,750	4,650	5,100	5,650
240	1,250	1,350	1,500	3,050	3,350	3,700	4,600	5,000	5,600
250	1,250	1,350	1,500	3,000	3,300	3,650	4,550	4,950	5,500

Table 4.13.C KF40® Equally Spaced Props - Single Spans - Maximum Spans (mm) for Deflection L/240


KF40® Equally Spaced Props - Two or More Spans Maximum Spans (mm) for Deflection L/240



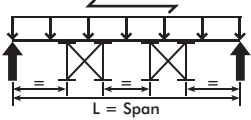
Dcs (mm)	Unpropped			1 Row of Props			2 Rows of Props		
	0.60 BMT	0.75 BMT	1.00 BMT	0.60 BMT	0.75 BMT	1.00 BMT	0.60 BMT	0.75 BMT	1.00 BMT
90	1,850	2,450	2,650	3,600	[4,800]	[5,200]	[5,400]	[7,200]	[7,850]
100	1,850	2,350	2,550	3,600	[4,600]	[5,050]	[5,400]	[6,900]	[7,550]
110	1,850	2,300	2,500	3,600	[4,450]	[4,850]	[5,400]	[6,700]	[7,300]
120	1,850	2,200	2,400	3,600	4,350	4,750	[5,400]	[6,500]	[7,100]
130	1,850	2,150	2,350	3,600	4,200	4,600	[5,400]	[6,350]	[6,950]
140	1,850	2,100	2,300	3,600	4,100	4,500	5,400	[6,200]	[6,750]
150	1,800	2,050	2,250	3,550	4,000	4,400	5,350	6,000	[6,600]
160	1,800	2,000	2,200	3,500	3,900	4,300	5,250	5,850	[6,450]
170	1,750	1,950	2,150	3,450	3,800	4,200	5,150	5,750	6,350
180	1,700	1,900	2,100	3,350	3,750	4,150	5,050	5,600	6,200
190	1,700	1,900	2,000	3,300	3,650	4,050	5,000	5,500	6,100
200	1,650	1,850	2,050	3,250	3,600	4,000	4,900	5,400	6,000
210	1,650	1,800	2,000	3,200	3,500	3,900	4,800	5,300	5,850
220	1,600	1,800	1,950	3,150	3,450	3,850	4,750	5,200	5,750
230	1,600	1,750	1,950	3,100	3,400	3,750	4,650	5,100	5,650
240	1,550	1,700	1,900	3,050	3,350	3,700	4,600	5,000	5,600
250	1,550	1,700	1,900	3,000	3,300	3,650	4,550	4,950	5,500

Table 4.13.D KF40® Equally Spaced Props - Two or More Spans - Maximum Spans (mm) for Deflection L/240

KF40® Frame Propping - 1200mm Frame Size Maximum Spans (mm) for Deflection L/150



KF40®




L/150

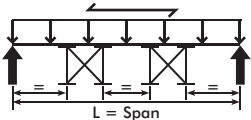
Dcs (mm)	1 Frame			2 Frame		
	0.60 BMT	0.75 BMT	1.00 BMT	0.60 BMT	0.75 BMT	1.00 BMT
100	[4,300]	[5,300]	[5,700]	[7,050]	[8,700]	[9,150]
110	[4,100]	[5,200]	[5,600]	[6,750]	[8,400]	[9,000]
120	3,800	[5,100]	[5,500]	[6,300]	[8,250]	[8,850]
130	3,600	[5,000]	[5,400]	[6,000]	[8,100]	[8,700]
140	3,400	4,900	[5,300]	[5,700]	[7,950]	[8,550]
150	3,200	4,800	5,200	[5,400]	[7,950]	[8,400]
160	3,000	4,700	5,100	5,100	[7,800]	[8,400]
170	2,900	4,700	5,000	4,950	[7,650]	[8,250]
180	2,800	4,600	5,000	4,800	[7,500]	[8,100]
190	2,700	4,500	4,900	4,650	[7,500]	[7,950]
200	2,500	4,500	4,800	4,350	[7,350]	[7,950]
210	2,400	4,400	4,800	4,200	7,350	[7,800]
220	2,300	4,400	4,700	4,050	7,200	7,650
230	2,200	4,300	4,700	3,900	7,200	7,650
240	2,100	4,200	4,600	-	6,900	7,650
250	-	4,100	4,600	-	6,750	7,500

Table 4.13.G KF40® Frame Propping - 1200mm Frame Size - Maximum Spans (mm) for Deflection L/150

KF40® Frame Propping - 1500mm Frame Size Maximum Spans (mm) for Deflection L/150



KF40®

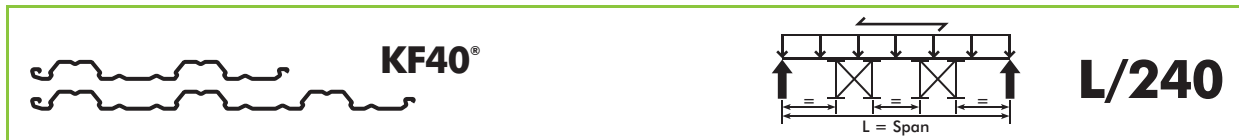


L/150

Dcs (mm)	1 Frame			2 Frame		
	0.60 BMT	0.75 BMT	1.00 BMT	0.60 BMT	0.75 BMT	1.00 BMT
100	[4,100]	[5,600]	[6,100]	[6,900]	[9,300]	[9,900]
110	3,800	[5,500]	[5,900]	[6,450]	[9,150]	[9,750]
120	3,600	[5,500]	[5,800]	[6,000]	[9,000]	[9,600]
130	3,400	[5,400]	[5,700]	[5,700]	[8,850]	[9,450]
140	3,200	[5,300]	[5,600]	[5,400]	[8,700]	[9,300]
150	3,000	5,200	[5,600]	5,250	[8,550]	[9,150]
160	-	5,100	5,500	-	[8,550]	[9,000]
170	-	5,100	5,400	-	[8,400]	[9,000]
180	-	5,000	5,300	-	[8,250]	[8,850]
190	-	4,900	5,300	-	[8,100]	[8,700]
200	-	4,700	5,200	-	[7,800]	[8,700]
210	-	4,500	5,100	-	[7,500]	[8,550]
220	-	4,300	5,100	-	7,200	[8,400]
230	-	4,100	5,100	-	6,900	[8,400]
240	-	3,900	5,000	-	6,600	8,400
250	-	3,700	5,000	-	6,300	8,250

Table 4.13.G KF40® Frame Propping - 1500mm Frame Size - Maximum Spans (mm) for Deflection L/150

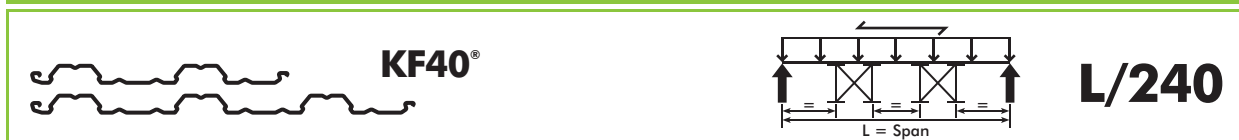
KF40® Frame Propping - 1200mm Frame Size Maximum Spans (mm) for Deflection L/240



Dcs (mm)	1 Frame			2 Frame		
	0.60 BMT	0.75 BMT	1.00 BMT	0.60 BMT	0.75 BMT	1.00 BMT
100	[4,300]	[4,700]	[5,100]	[7,050]	[7,650]	[8,250]
110	[4,100]	[4,600]	[5,000]	[6,750]	[7,500]	[8,100]
120	3,800	[4,500]	[4,900]	[6,300]	[7,500]	[7,950]
130	3,600	4,400	[4,800]	[6,000]	[7,350]	[7,800]
140	3,400	4,400	4,700	[5,700]	[7,200]	[7,650]
150	3,200	4,300	4,600	[5,400]	[7,050]	[7,500]
160	3,100	4,200	4,500	5,250	[6,900]	[7,500]
170	2,900	4,200	4,500	4,950	[6,900]	[7,350]
180	2,800	4,100	4,400	4,800	[6,750]	[7,200]
190	2,700	4,000	4,300	4,650	[6,750]	[7,200]
200	2,500	4,000	4,300	4,350	6,600	[7,050]
210	2,400	4,000	4,200	-	6,600	7,050
220	-	3,900	4,200	-	6,450	6,900
230	-	3,900	4,100	-	6,450	6,900
240	-	3,700	4,100	-	6,450	6,750
250	-	3,700	4,100	-	6,300	6,750

Table 4.13.G KF40® Frame Propping - 1200mm Frame Size - Maximum Spans (mm) for Deflection L/240

KF40® Frame Propping - 1500mm Frame Size Maximum Spans (mm) for Deflection L/240



Dcs (mm)	1 Frame			2 Frame		
	0.60 BMT	0.75 BMT	1.00 BMT	0.60 BMT	0.75 BMT	1.00 BMT
100	[4,100]	[5,100]	[5,500]	[6,900]	[8,550]	[9,000]
110	3,800	[5,000]	[5,400]	[6,450]	[8,400]	[8,850]
120	3,600	[4,900]	[5,300]	[6,150]	[8,250]	[8,700]
130	3,400	[4,800]	[5,200]	[5,700]	[8,100]	[8,550]
140	-	4,800	[5,100]	-	[7,950]	[8,400]
150	-	4,700	5,000	-	[7,800]	[8,250]
160	-	4,600	4,900	-	[7,800]	[8,250]
170	-	4,600	4,900	-	[7,650]	[8,100]
180	-	4,500	4,800	-	[7,650]	[7,950]
190	-	4,500	4,700	-	[7,500]	[7,950]
200	-	4,400	4,700	-	[7,500]	[7,800]
210	-	4,400	4,700	-	7,350	[7,800]
220	-	4,300	4,600	-	7,200	7,650
230	-	4,100	4,600	-	6,900	7,650
240	-	3,900	4,500	-	6,750	7,650
250	-	3,700	4,500	-	6,450	7,500

Table 4.13.G KF40® Frame Propping - 1500mm Frame Size - Maximum Spans (mm) for Deflection L/240