

4.12 KF70® Temporary Propping Tables

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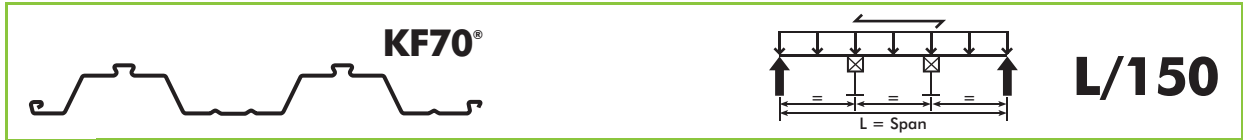
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Temporary Propping Tables Notes

- The tables on the following pages denote maximum allowable centreline to centreline span in millimetres between permanent supports after temporary propping is removed.
- 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.
- Allowance has been made for ponding of wet concrete due to decking deflection, density 2400kg/m³.
- 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.
- The requirements for Stages II & IV material stacking loads, in accordance with Appendix F of AS 2327.1:2003, are assumed to be zero.
- It is recommended that an experienced structural engineer design the composite slab to ensure sufficient capacity to meet strength and long term deflection requirements.
- 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.
- These tables are based upon effective section properties of the sheeting calculated in accordance to AS 4600:2005.
- Care must be exercised when placing concrete to avoid mounding.
- 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.
- When using the table for two or more spans the adjacent spans should not differ in length by more than 5%.
- A maximum sheet length of 12m has been considered.
- A minimum bearing width of the permanent support has been considered to be 50mm.
- 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.

KF70® Equally Spaced Props - Single Spans

Maximum Spans (mm) for Deflection L/150

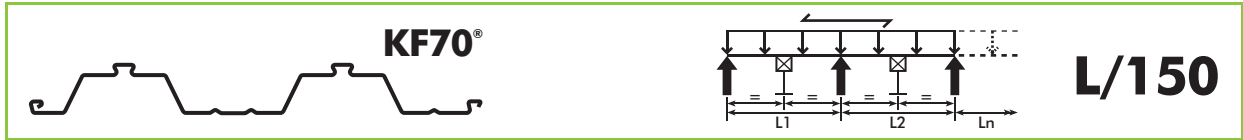


Dcs (mm)	Unropped		1 Row of Props		2 Rows of Props	
	0.75 BMT	1.00 BMT	0.75 BMT	1.00 BMT	0.75 BMT	1.00 BMT
120	2,850	3,100	[7,450]	[8,100]	[10,450]	[11,250]
130	2,800	3,000	[7,200]	[7,850]	[10,150]	[10,950]
140	2,700	2,900	[6,950]	[7,700]	[9,900]	[10,650]
150	2,650	2,850	[6,750]	[7,500]	[9,650]	[10,450]
160	2,600	2,800	[6,550]	[7,350]	[9,450]	[10,200]
170	2,550	2,750	[6,400]	[7,200]	[9,250]	[10,000]
180	2,500	2,700	[6,200]	[7,050]	[9,100]	[9,800]
190	2,450	2,650	[6,050]	[6,950]	[8,950]	[9,650]
200	2,400	2,600	5,900	[6,850]	[8,800]	[9,500]
210	2,350	2,550	5,750	[6,700]	[8,650]	[9,350]
220	2,300	2,500	5,650	[6,600]	[8,500]	[9,200]
230	2,300	2,450	5,500	6,500	[8,400]	[9,050]
240	2,250	2,450	5,400	6,350	[8,250]	[8,900]
250	2,250	2,400	5,300	6,250	[8,150]	[8,800]

Table 4.12.A KF70® Equally Spaced Props - Single Spans - L/150

KF70® Equally Spaced Props - Two or More Spans


Maximum Spans (mm) for Deflection L/150

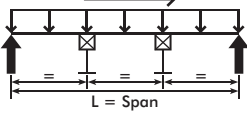


Dcs (mm)	Unropped		1 Row of Props		2 Rows of Props	
	0.75 BMT	1.00 BMT	0.75 BMT	1.00 BMT	0.75 BMT	1.00 BMT
120	3,450	3,750	[7,100]	[7,650]	[10,450]	[11,250]
130	3,350	3,650	[6,900]	[7,450]	[10,150]	[10,950]
140	3,300	3,550	[6,750]	[7,250]	[9,900]	[10,650]
150	3,200	3,450	[6,600]	[7,100]	[9,650]	[10,450]
160	3,150	3,400	[6,450]	[6,950]	[9,450]	[10,200]
170	3,050	3,300	6,300	[6,800]	[9,250]	[10,000]
180	3,000	3,250	6,200	6,700	[9,100]	[9,800]
190	2,950	3,200	6,100	6,550	[8,950]	[9,650]
200	2,900	3,150	5,950	6,450	[8,800]	[9,500]
210	2,850	3,100	5,900	6,350	[8,650]	[9,350]
220	2,800	3,050	5,800	6,250	8,500	[9,200]
230	2,800	3,000	5,650	6,150	8,400	9,050
240	2,750	3,950	5,550	6,050	8,250	8,900
250	2,700	2,900	5,450	6,000	8,150	8,800

Table 4.12.B KF70® Equally Spaced Props - Two or More Spans - L/150

KF70® Equally Spaced Props - Single Spans Maximum Spans (mm) for Deflection L/240






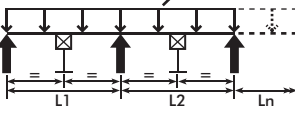
L/240

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

Table 4.12.C KF70® Equally Spaced Props - Single Spans - L/240

KF70® Equally Spaced Props - Two or More Spans Maximum Spans (mm) for Deflection L/240



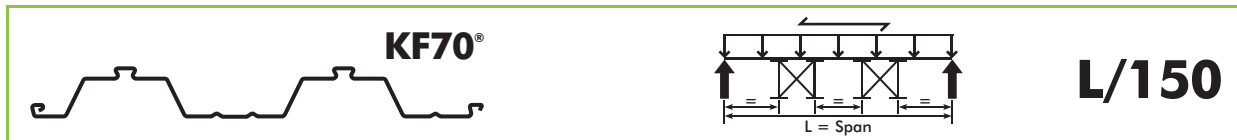


L/240

Dcs (mm)	Unropped		1 Row of Props		2 Rows of Props	
	0.75 BMT	1.00 BMT	0.75 BMT	1.00 BMT	0.75 BMT	1.00 BMT
120	3,000	3,250	[6,200]	[6,700]	[9,100]	[9,850]
130	2,950	3,150	[6,050]	[6,500]	[8,850]	[9,550]
140	2,850	3,100	[5,850]	[6,350]	[8,650]	[9,300]
150	2,800	3,000	5,750	[6,200]	[8,400]	[9,100]
160	2,750	2,950	5,600	6,050	[8,250]	[8,900]
170	2,650	2,900	5,500	5,900	[8,050]	[8,700]
180	2,600	2,800	5,350	5,800	[8,000]	[8,500]
190	2,550	2,750	5,250	5,700	[7,900]	[8,350]
200	2,500	2,700	5,150	5,600	7,750	[8,200]
210	2,500	2,650	5,100	5,500	7,650	[8,100]
220	2,450	2,650	5,000	5,400	7,500	[8,000]
230	2,400	2,600	4,950	5,350	7,400	8,000
240	2,350	2,550	4,850	5,250	7,300	7,900
250	2,350	2,500	4,800	5,200	7,200	7,800

Table 4.12.D KF70® Equally Spaced Props - Two or More Spans - L/240

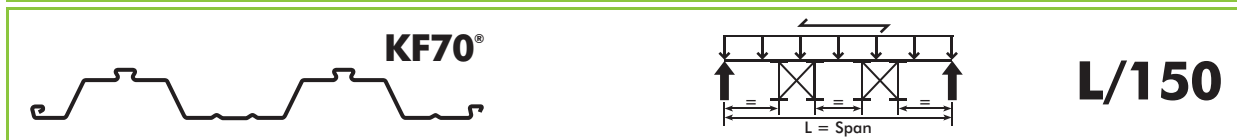
KF70® Frame Propping - 1200mm Frame Size Maximum Spans (mm) for Deflection L/150



Dcs (mm)	1 Frame		2 Frame	
	0.75 BMT	1.00 BMT	0.75 BMT	1.00 BMT
120	[7,300]	[7,800]	[11,700]	[12,450]
130	[7,200]	[7,700]	[11,400]	[12,150]
140	[7,100]	[7,500]	[11,250]	[12,000]
150	[6,900]	[7,400]	[11,100]	[11,850]
160	[6,800]	[7,300]	[10,950]	[11,550]
170	[6,700]	[7,200]	[10,800]	[11,400]
180	[6,600]	[7,100]	[10,650]	[11,250]
190	6,500	[7,000]	[10,500]	[11,100]
200	6,400	6,900	[10,350]	[10,950]
210	6,400	6,800	[10,200]	[10,800]
220	6,300	6,700	[10,050]	[10,800]
230	6,200	6,600	[10,050]	[10,650]
240	6,100	6,600	[9,900]	[10,500]
250	6,100	6,500	[9,750]	[10,350]

Table 4.12.E KF70® Frame Propping - 1200mm Frame Size - Maximum Spans (mm) for Deflection L/150

KF70® Frame Propping - 1500mm Frame Size Maximum Spans (mm) for Deflection L/150



Dcs (mm)	1 Frame		2 Frame	
	0.75 BMT	1.00 BMT	0.75 BMT	1.00 BMT
120	[7,600]	[8,100]	[12,150]	[12,900]
130	[7,400]	[7,900]	[12,000]	[12,750]
140	[7,300]	[7,800]	[11,850]	[12,450]
150	[7,200]	[7,700]	[11,550]	[12,300]
160	[7,100]	[7,600]	[11,400]	[12,150]
170	[7,000]	[7,400]	[11,250]	[12,000]
180	[6,900]	[7,300]	[11,100]	[11,850]
190	[6,800]	[7,200]	[11,100]	[11,700]
200	6,700	[7,200]	[10,950]	[11,550]
210	6,600	7,100	[10,800]	[11,400]
220	6,600	7,000	[10,650]	[11,250]
230	6,500	6,900	[10,500]	[11,250]
240	6,400	6,800	[10,500]	[11,100]
250	6,400	6,800	[10,350]	[10,950]

Table 4.12.F KF70® Frame Propping - 1500mm Frame Size - Maximum Spans (mm) for Deflection L/150

KF70® Frame Propping - 1200mm Frame Size Maximum Spans (mm) for Deflection L/240

Dcs (mm)	1 Frame		2 Frame	
	0.75 BMT	1.00 BMT	0.75 BMT	1.00 BMT
	120	[6,500]	[6,900]	[10,350]
130	[6,400]	[6,800]	[10,200]	[10,800]
140	[6,200]	[6,700]	[10,050]	[10,650]
150	[6,100]	[6,500]	[9,900]	[10,500]
160	[6,000]	[6,400]	[9,750]	[10,350]
170	5,900	[6,300]	[9,600]	[10,200]
180	5,900	6,200	[9,450]	[10,050]
190	5,800	6,200	[9,300]	[9,900]
200	5,700	6,100	[9,150]	[9,750]
210	5,600	6,000	[9,150]	[9,600]
220	5,600	5,900	[9,000]	[9,600]
230	5,500	5,900	[8,850]	[9,450]
240	5,400	5,800	[8,850]	[9,300]
250	5,400	5,700	8,700	[9,300]

Table 4.12.G KF70® Frame Propping - 1200mm Frame Size - Maximum Spans (mm) for Deflection L/240

KF70® Frame Propping - 1500mm Frame Size Maximum Spans (mm) for Deflection L/240

Dcs (mm)	1 Frame		2 Frame	
	0.75 BMT	1.00 BMT	0.75 BMT	1.00 BMT
	120	[6,800]	[7,200]	[10,950]
130	[6,600]	[7,100]	[10,800]	[11,400]
140	[6,500]	[6,900]	[10,650]	[11,250]
150	[6,400]	[6,800]	[10,500]	[11,100]
160	[6,300]	[6,700]	[10,350]	[10,950]
170	[6,200]	[6,600]	[10,200]	[10,800]
180	6,200	[6,500]	[10,050]	[10,650]
190	6,100	6,400	[9,900]	[10,500]
200	6,000	6,400	[9,750]	[10,350]
210	5,900	6,300	[9,750]	[10,200]
220	5,900	6,200	[9,600]	[10,200]
230	5,800	6,200	[9,600]	[10,050]
240	5,800	6,100	[9,450]	[9,900]
250	5,700	6,000	[9,300]	[9,900]

Table 4.12.H KF70® Frame Propping - 1500mm Frame Size - Maximum Spans (mm) for Deflection L/240