3.7 RF55® Composite Slab Properties Tables

RF55® Composite Slab Properties

RF55® **0.60**

Dcs (mm)	Slab Weight (kPa)	Equivalent Concrete Quantity (mm^3/mm^2)	Design Strength in Positive Bending $\phi M_{uo}+$ (kNm/m)	Gross Second Moment of Area - I ($x10^6$ mm^4/m)★	Cracked Section Second Moment of Area - I_{cr} ($x10^6$ mm^4/m)★
100	2.26	94	31.5	92.27	34.05
105	2.38	99	33.7	106.57	38.55
110	2.50	104	35.9	122.29	43.37
115	2.62	109	38.1	139.44	48.51
120	2.74	114	40.3	158.16	53.96
125	2.86	119	42.5	178.46	59.72
130	2.98	124	44.7	200.42	65.81
135	3.10	129	46.8	224.04	72.21
140	3.22	134	49.0	249.48	78.92
145	3.34	139	51.2	276.82	86.03
150	3.46	144	53.4	305.97	93.38
155	3.58	149	55.6	337.09	101.12
160	3.70	154	57.8	370.27	109.18
165	3.82	159	60.0	405.59	117.55
170	3.94	164	62.2	443.03	126.24
175	4.06	169	64.4	482.61	135.25
180	4.18	174	66.6	524.56	144.65
185	4.30	179	68.8	568.80	154.37
190	4.42	184	71.0	615.49	164.40
195	4.54	189	73.2	664.63	174.75
200	4.66	194	75.4	716.29	185.41
205	4.78	199	77.6	770.57	196.47
210	4.90	204	79.8	827.45	207.85
215	5.02	209	82.0	887.09	219.62
220	5.14	214	84.2	949.50	231.63
225	5.26	219	86.4	1014.76	244.03
230	5.38	224	88.6	1082.93	256.83
235	5.50	229	90.8	1154.03	269.86
240	5.62	234	93.0	1228.13	283.29
245	5.74	239	95.2	1305.40	297.12
250	5.86	244	97.3	1385.82	311.18

Table 3.7.A RF55® Composite Slab Properties - 0.60 BMT

Parameters

★ Values are given in transformed concrete sections, 25MPa.

Modular ratio 7.9.

RF55® Composite Slab Properties

RF55®

0.75

Dcs (mm)	Slab Weight (kPa)	Equivalent Concrete Quantity (mm^3/mm^2)	Design Strength in Positive Bending $\phi M_{uo}+$ (kNm/m)	Gross Second Moment of Area - I ($x10^6$ mm^4/m)★	Cracked Section Second Moment of Area - I_{cr} ($x10^6$ mm^4/m)★
100	2.26	94	34.3	94.72	40.13
105	2.38	99	38.5	109.34	45.47
110	2.50	104	42.9	125.37	52.06
115	2.62	109	45.8	142.91	57.35
120	2.74	114	48.6	162.03	63.91
125	2.86	119	51.3	182.73	70.78
130	2.98	124	54.1	205.08	78.05
135	3.10	129	56.8	229.26	85.79
140	3.22	134	59.6	255.17	93.85
145	3.34	139	62.3	282.98	102.31
150	3.46	144	65.0	312.68	111.15
155	3.58	149	67.8	344.36	120.48
160	3.70	154	70.5	378.17	130.11
165	3.82	159	73.3	414.04	140.23
170	3.94	164	76.0	452.12	150.65
175	4.06	169	78.8	492.41	161.56
180	4.18	174	81.5	535.07	172.85
185	4.30	179	84.3	580.02	184.54
190	4.42	184	87.0	627.42	196.71
195	4.54	189	89.8	677.27	209.19
200	4.66	194	92.5	729.72	222.15
205	4.78	199	95.2	784.79	235.50
210	4.90	204	98.0	842.54	249.25
215	5.02	209	100.7	903.05	263.47
220	5.14	214	103.5	966.33	278.08
225	5.26	219	106.2	1032.45	293.09
230	5.38	224	109.0	1101.58	308.50
235	5.50	229	111.7	1173.62	324.37
240	5.62	234	114.5	1248.75	340.65
245	5.74	239	117.2	1327.04	357.32
250	5.86	244	120.0	1408.41	374.46

Table 3.7.B RF55® Composite Slab Properties - 0.75 BMT

Parameters

★ Values are given in transformed concrete sections, 25MPa.

Modular ratio 7.9.

RF55® Composite Slab Properties

RF55®

0.90

Dcs (mm)	Slab Weight (kPa)	Equivalent Concrete Quantity (mm^3/mm^2)	Design Strength in Positive Bending $\phi M_{uo}+$ (kNm/m)	Gross Second Moment of Area - I ($x10^6$ mm^4/m)★	Cracked Section Second Moment of Area - I_{cr} ($x10^6$ mm^4/m)★
100	2.26	94	34.3	97.01	45.58
105	2.38	99	38.4	111.94	51.75
110	2.50	104	42.8	128.30	58.30
115	2.62	109	47.5	146.15	65.41
120	2.74	114	52.4	165.66	72.84
125	2.86	119	57.5	186.76	80.82
130	2.98	124	62.7	209.59	89.19
135	3.10	129	66.0	234.16	98.04
140	3.22	134	69.2	260.54	107.36
145	3.34	139	72.5	288.82	117.16
150	3.46	144	75.8	319.08	127.43
155	3.58	149	79.1	351.31	138.17
160	3.70	154	82.4	385.68	149.31
165	3.82	159	85.7	422.18	161.00
170	3.94	164	89.0	460.89	173.17
175	4.06	169	92.3	501.81	185.81
180	4.18	174	95.6	545.10	198.92
185	4.30	179	98.9	590.76	212.51
190	4.42	184	102.2	638.87	226.57
195	4.54	189	105.5	689.51	241.11
200	4.66	194	108.8	742.68	256.12
205	4.78	199	112.1	798.53	271.68
210	4.90	204	115.4	857.15	287.64
215	5.02	209	118.6	918.45	304.15
220	5.14	214	121.9	982.60	321.14
225	5.26	219	125.2	1049.67	338.67
230	5.38	224	128.5	1119.67	356.61
235	5.50	229	131.8	1192.66	375.09
240	5.62	234	135.1	1268.74	394.05
245	5.74	239	138.4	1347.98	413.57
250	5.86	244	141.7	1430.37	433.55

Table 3.7.C RF55® Composite Slab Properties - 0.90 BMT

Parameters

★ Values are given in transformed concrete sections, 25MPa.

Modular ratio 7.9.

RF55® Composite Slab Properties

RF55®

1.00

Dcs (mm)	Slab Weight (kPa)	Equivalent Concrete Quantity (mm^3/mm^2)	Design Strength in Positive Bending $\phi M_{uo}+$ (kNm/m)	Gross Second Moment of Area - I ($x10^6$ mm^4/m)★	Cracked Section Second Moment of Area - I_{cr} ($x10^6$ mm^4/m)★
100	2.26	94	34.3	98.51	49.06
105	2.38	99	38.4	113.60	55.70
110	2.50	104	42.8	130.27	62.88
115	2.62	109	47.5	148.36	70.47
120	2.74	114	52.4	168.11	78.61
125	2.86	119	57.5	189.44	87.22
130	2.98	124	62.9	212.59	96.30
135	3.10	129	68.5	237.40	105.94
140	3.22	134	74.4	264.18	116.05
145	3.34	139	79.0	292.77	126.72
150	3.46	144	82.7	323.35	137.86
155	3.58	149	86.4	355.97	149.47
160	3.70	154	90.0	390.73	161.71
165	3.82	159	93.7	427.63	174.35
170	3.94	164	97.4	466.73	187.63
175	4.06	169	101.0	508.05	201.37
180	4.18	174	104.7	551.82	215.59
185	4.30	179	108.3	597.95	230.44
190	4.42	184	112.0	646.54	245.77
195	4.54	189	115.7	697.65	261.65
200	4.66	194	119.3	751.37	278.00
205	4.78	199	123.0	807.78	294.91
210	4.90	204	126.6	866.87	312.45
215	5.02	209	130.3	928.72	330.38
220	5.14	214	134.0	993.50	348.94
225	5.26	219	137.6	1061.13	368.06
230	5.38	224	141.3	1131.75	387.65
235	5.50	229	144.9	1205.38	407.88
240	5.62	234	148.6	1282.09	428.58
245	5.74	239	152.3	1361.96	449.83
250	5.86	244	155.9	1445.07	471.63

Table 3.7.D RF55® Composite Slab Properties - 1.00 BMT

Parameters

★ Values are given in transformed concrete sections, 25MPa.

Modular ratio 7.9.

3.9 RF55® Composite Slab Span Tables

Composite Slab Span Tables Notes

The composite slab span tables are to be used to design KingFlor composite slabs that do not have a fire requirement and meet the assumptions below. For a fire rated slab refer to the fire resistance tables. For designs outside the parameters below and specified on the tables refer to the KingFlor Designer Suite or your local Fielders representative. For propping requirements refer to the temporary propping tables.

Notation

Dcs = depth of composite slab.
L = Span between permanent supports.
Bars - N12@200 indicates N12 bars at 200mm centres.

Loads

Construction Live Load 1.0kPa
Ceiling & Services Load 0.35kPa
Partitions Load 0.5kPa

Short & Long-Term Factors

Short-term factor $\psi = 0.7$
Long-term factor $\psi = 0.4$
Combination-term factor $\psi = 0.4$

Concrete Properties

Normal wet density of concrete 2400kg/m^3
Normal dry density of concrete 2350 kg/m^3
Concrete strength f'c = 25MPa
Exposure Classification A1 with moderate crack control
Cover to top reinforcement is 30mm

Reinforcing

Steel Yield Strength f_{sy} = 500MPa

Mesh

Mesh is to be located in the top of the slab. Where the mesh code ends with a 'T' (eg. RL918T), the larger bars are to be located perpendicular to the decking ribs with the smaller perpendicular bars on top. Laps in mesh are to occur midspan.

Bars

Bars where required, are to be placed over internal permanent supports, on top of mesh. Length of bars are to be 0.6 x larger span + width of support. The bars are to be located 0.3 x span from edge of support for internal supports.

Spans

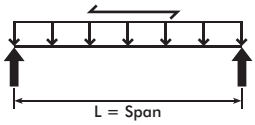
Spans L1, L2, L3 etc. cannot differ by more than 5% from both L1 and Ln.

Span is considered to be the larger of L1, L2...Ln.

Support width 50mm

The composite slab tables have been prepared with the assumptions stated above. More refined designs can be obtained from Fielders or by using the KingFlor Designer Suite. Contact your local Fielders representative for design assistance.

RF55® Composite Slab Spans
Single Spans 0.60 BMT



0.60

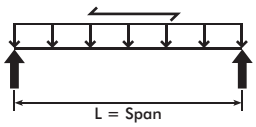
Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	100	SL72	-	100	SL72	-	100	SL72	-
1,250	100	SL72	-	100	SL72	-	100	SL72	-
1,500	100	SL72	-	100	SL72	-	100	SL72	-
1,750	100	SL72	-	100	SL72	-	100	SL72	-
2,000	100	SL72	-	100	SL72	-	100	SL72	-
2,250	100	SL72	-	100	SL72	-	100	SL72	-
2,500	100	SL72	-	100	SL72	-	100	SL72	-
2,750	100	SL72	-	100	SL72	-	100	SL72	-
3,000	100	SL72	-	100	SL72	-	110	SL82	-
3,250	100	SL72	-	105	SL72	-	120	SL92	-
3,500	100	SL72	-	115	SL82	-	130	SL92	-
3,750	110	SL82	-	125	SL92	-	140	SL102	-
4,000	120	SL92	-	135	SL92	-	155	SL102	-
4,250	135	SL92	-	150	SL102	-	165	SL81	-
4,500	140	SL102	-	155	SL81	-	175	SL81	-
4,750	155	SL102	-	170	SL81	-	195	RL918T	-
5,000	165	SL81	-	180	SL81	-	210	RL918T	-
5,250	175	SL81	-	210	RL918T	-	220	RL918T	-
5,500	195	RL918T	-	215	RL918T	-	235	RL1018T	-
5,750	210	RL918T	-	230	RL1018T	-	250	RL1018T	-
6,000	220	RL918T	-	245	RL1018T	-	265	RL118T	-
6,250	235	RL1018T	-	260	RL118T	-	285	RL118T	-
6,500	250	RL1018T	-	275	RL118T	-	305	RL118T	-
6,750	265	RL118T	-	290	RL118T	-	330	RL1218T	-
7,000	285	RL118T	-	305	RL118T	-	360	RL1218T	-

Table 3.9.A RF55® Composite Slab Spans - Single Spans 0.60 BMT

Deflection Criteria
Construction Deflection = L/240
Incremental Deflection = L/500
Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.

RF55® Composite Slab Spans
Single Span 0.75 BMT



0.75

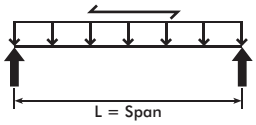
Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	100	SL72	-	100	SL72	-	100	SL72	-
1,250	100	SL72	-	100	SL72	-	100	SL72	-
1,500	100	SL72	-	100	SL72	-	100	SL72	-
1,750	100	SL72	-	100	SL72	-	100	SL72	-
2,000	100	SL72	-	100	SL72	-	100	SL72	-
2,250	100	SL72	-	100	SL72	-	100	SL72	-
2,500	100	SL72	-	100	SL72	-	100	SL72	-
2,750	100	SL72	-	100	SL72	-	100	SL72	-
3,000	100	SL72	-	100	SL72	-	105	SL72	-
3,250	100	SL72	-	105	SL72	-	115	SL92	-
3,500	100	SL72	-	115	SL82	-	130	SL92	-
3,750	110	SL82	-	125	SL92	-	140	SL102	-
4,000	120	SL92	-	135	SL92	-	150	SL102	-
4,250	130	SL102	-	145	SL102	-	160	SL81	-
4,500	140	SL102	-	155	SL81	-	175	SL81	-
4,750	155	SL102	-	170	SL81	-	190	RL918T	-
5,000	165	SL81	-	180	SL81	-	205	RL918T	-
5,250	175	SL81	-	200	RL918T	-	220	RL918T	-
5,500	195	RL918T	-	215	RL918T	-	235	RL1018T	-
5,750	205	RL918T	-	225	RL1018T	-	250	RL1018T	-
6,000	220	RL918T	-	240	RL1018T	-	265	RL118T	-
6,250	235	RL1018T	-	255	RL1018T	-	280	RL118T	-
6,500	250	RL1018T	-	270	RL118T	-	295	RL118T	-
6,750	265	RL118T	-	285	RL118T	-	315	RL1218T	-
7,000	280	RL118T	-	300	RL118T	-	330	RL1218T	-

Table 3.9.B RF55® Composite Slab Spans - Single Span 0.75 BMT

Deflection Criteria
Construction Deflection = L/240
Incremental Deflection = L/500
Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.

RF55® Composite Slab Spans
Single Span 0.90 BMT



0.90

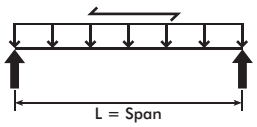
Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	100	SL72	-	100	SL72	-	100	SL72	-
1,250	100	SL72	-	100	SL72	-	100	SL72	-
1,500	100	SL72	-	100	SL72	-	100	SL72	-
1,750	100	SL72	-	100	SL72	-	100	SL72	-
2,000	100	SL72	-	100	SL72	-	100	SL72	-
2,250	100	SL72	-	100	SL72	-	100	SL72	-
2,500	100	SL72	-	100	SL72	-	100	SL72	-
2,750	100	SL72	-	100	SL72	-	100	SL72	-
3,000	100	SL72	-	100	SL72	-	105	SL72	-
3,250	100	SL72	-	105	SL72	-	115	SL82	-
3,500	100	SL72	-	110	SL82	-	125	SL92	-
3,750	110	SL82	-	120	SL92	-	135	SL102	-
4,000	120	SL92	-	135	SL92	-	150	SL102	-
4,250	130	SL92	-	145	SL102	-	160	SL81	-
4,500	140	SL102	-	155	SL102	-	175	SL81	-
4,750	150	SL102	-	165	SL81	-	190	RL918T	-
5,000	160	SL81	-	180	SL81	-	205	RL918T	-
5,250	175	SL81	-	195	RL918T	-	215	RL918T	-
5,500	190	RL918T	-	210	RL918T	-	230	RL1018T	-
5,750	205	RL918T	-	225	RL1018T	-	245	RL1018T	-
6,000	220	RL918T	-	240	RL1018T	-	260	RL118T	-
6,250	235	RL1018T	-	250	RL1018T	-	275	RL118T	-
6,500	245	RL1018T	-	270	RL118T	-	295	RL118T	-
6,750	260	RL118T	-	285	RL118T	-	310	RL118T	-
7,000	275	RL118T	-	300	RL118T	-	325	RL1218T	-

Table 3.9.C RF55® Composite Slab Spans - Single Span 0.90 BMT

Deflection Criteria
Construction Deflection = L/240
Incremental Deflection = L/500
Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.

RF55® Composite Slab Spans
Single Span 1.00 BMT



1.00

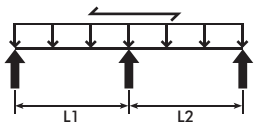
Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	100	SL72	-	100	SL72	-	100	SL72	-
1,250	100	SL72	-	100	SL72	-	100	SL72	-
1,500	100	SL72	-	100	SL72	-	100	SL72	-
1,750	100	SL72	-	100	SL72	-	100	SL72	-
2,000	100	SL72	-	100	SL72	-	100	SL72	-
2,250	100	SL72	-	100	SL72	-	100	SL72	-
2,500	100	SL72	-	100	SL72	-	100	SL72	-
2,750	100	SL72	-	100	SL72	-	100	SL72	-
3,000	100	SL72	-	100	SL72	-	105	SL72	-
3,250	100	SL72	-	100	SL72	-	115	SL82	-
3,500	100	SL72	-	110	SL82	-	125	SL92	-
3,750	110	SL82	-	120	SL92	-	135	SL92	-
4,000	115	SL92	-	135	SL92	-	150	SL102	-
4,250	130	SL92	-	145	SL102	-	160	SL81	-
4,500	140	SL102	-	155	SL102	-	170	SL81	-
4,750	150	SL102	-	165	SL81	-	190	RL918T	-
5,000	160	SL81	-	180	SL81	-	200	RL918T	-
5,250	175	SL81	-	195	RL918T	-	210	RL918T	-
5,500	190	RL918T	-	210	RL918T	-	230	RL1018T	-
5,750	200	RL918T	-	220	RL918T	-	245	RL1018T	-
6,000	215	RL918T	-	235	RL1018T	-	260	RL118T	-
6,250	230	RL1018T	-	250	RL1018T	-	275	RL118T	-
6,500	245	RL1018T	-	265	RL118T	-	290	RL118T	-
6,750	260	RL118T	-	280	RL118T	-	305	RL118T	-
7,000	275	RL118T	-	295	RL118T	-	325	RL1218T	-

Table 3.9.D RF55® Composite Slab Spans - Single Span 1.00 BMT

Deflection Criteria
Construction Deflection = L/240
Incremental Deflection = L/500
Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.

RF55® Composite Slab Spans
Double Span 0.60 BMT



0.60

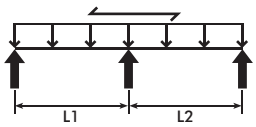
Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,500	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,750	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,500	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,750	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
3,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@350
3,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@275
3,500	105	SL72	N12@400	105	SL72	N12@350	110	SL82	N12@250
3,750	105	SL72	N12@400	105	SL72	N12@275	120	SL92	N12@275
4,000	105	SL72	N12@350	105	SL72	N12@225	130	SL92	N12@250
4,250	105	SL72	N12@300	110	SL82	N12@200	140	SL102	N12@275
4,500	105	SL72	N12@225	120	SL92	N12@225	145	SL102	N12@225
4,750	110	SL82	N12@250	130	SL92	N12@225	145	SL102	N12@200
5,000	115	SL82	N12@225	135	SL92	N12@200	160	SL81	N12@250
5,250	125	SL92	N12@225	140	SL102	N12@200	170	SL81	N12@225
5,500	135	SL92	N12@225	150	SL102	N12@200	180	SL81	N12@200
5,750	140	SL102	N12@225	155	SL102	N12@175	200	RL918T	N12@150
6,000	150	SL102	N12@200	165	SL81	N12@200	210	RL918T	N12@250
6,250	155	SL81	N12@250	175	SL81	N12@200	210	RL918T	N12@225
6,500	165	SL81	N12@250	180	SL81	N16@300	215	RL918T	N12@200
6,750	175	SL81	N12@225	195	RL918T	N16@225	220	RL918T	N12@200
7,000	185	RL918T	N16@250	210	RL918T	N16@225	240	RL1018T	N12@200

Table 3.9.E RF55® Composite Slab Spans - Double Span 0.60 BMT

Deflection Criteria
Construction Deflection = L/240
Incremental Deflection = L/500
Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.

RF55® Composite Slab Spans
Double Span 0.75 BMT



0.75

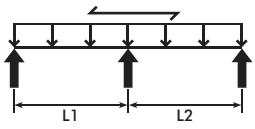
Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,500	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,750	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,500	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,750	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
3,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@350
3,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@275
3,500	105	SL72	N12@400	105	SL72	N12@350	110	SL82	N12@250
3,750	105	SL72	N12@400	105	SL72	N12@275	115	SL82	N12@225
4,000	105	SL72	N12@350	110	SL82	N12@250	125	SL92	N12@225
4,250	105	SL72	N12@300	120	SL92	N12@300	135	SL92	N12@225
4,500	105	SL72	N12@225	130	SL92	N12@275	145	SL102	N12@225
4,750	110	SL82	N12@225	135	SL92	N12@250	155	SL102	N12@225
5,000	115	SL82	N12@225	135	SL92	N12@200	165	SL81	N12@250
5,250	125	SL92	N12@225	140	SL102	N12@200	175	SL81	N12@250
5,500	130	SL92	N12@200	150	SL102	N12@200	185	RL918T	N16@275
5,750	140	SL102	N12@200	155	SL81	N12@225	195	RL918T	N16@250
6,000	150	SL102	N12@200	165	SL81	N12@200	205	RL918T	N16@250
6,250	155	SL102	N12@200	175	SL81	N12@200	205	RL918T	N16@225
6,500	165	SL81	N12@200	180	SL81	N16@300	205	RL918T	N16@200
6,750	175	SL81	N12@200	195	RL918T	N16@225	220	RL918T	N16@200
7,000	180	SL81	N12@200	210	RL918T	N16@200	225	RL1018T	N16@175

Table 3.9.F RF55® Composite Slab Spans - Double Span 0.75 BMT

Deflection Criteria
Construction Deflection = L/240
Incremental Deflection = L/500
Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.

RF55® Composite Slab Spans
Double Span 0.90 BMT



0.90

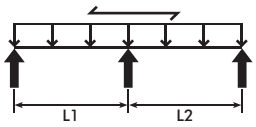
Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,500	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,750	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,500	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,750	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
3,000	105	SL72	N12@400	105	SL72	N12@400	110	SL82	N12@400
3,250	105	SL72	N12@400	105	SL72	N12@400	110	SL82	N12@325
3,500	105	SL72	N12@400	110	SL82	N12@400	110	SL82	N12@250
3,750	105	SL72	N12@400	115	SL82	N12@375	115	SL82	N12@225
4,000	110	SL82	N12@400	120	SL92	N12@375	120	SL92	N12@200
4,250	115	SL82	N12@400	120	SL92	N12@300	130	SL92	N12@200
4,500	115	SL82	N12@325	120	SL92	N12@200	130	SL92	N16@325
4,750	120	SL92	N12@325	125	SL92	N12@200	135	SL92	N16@275
5,000	120	SL92	N12@250	135	SL92	N12@200	145	SL102	N16@250
5,250	130	SL92	N12@250	140	SL102	N12@200	150	SL102	N16@250
5,500	130	SL92	N12@200	150	SL102	N12@200	160	SL81	N16@300
5,750	135	SL102	N12@200	155	SL81	N12@200	170	SL81	N16@300
6,000	145	SL102	N12@200	160	SL81	N12@200	180	SL81	N16@250
6,250	155	SL102	N12@200	175	SL81	N12@200	190	RL918T	N16@200
6,500	160	SL81	N12@200	180	SL81	N16@300	205	RL918T	N16@200
6,750	170	SL81	N12@200	195	RL918T	N16@225	220	RL918T	N16@200
7,000	180	SL81	N12@200	205	RL918T	N16@200	230	RL1018T	N16@175

Table 3.9.G RF55® Composite Slab Spans - Double Span 0.90 BMT

Deflection Criteria
Construction Deflection = L/240
Incremental Deflection = L/500
Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.

RF55® Composite Slab Spans
Double Span 1.00 BMT



1.00

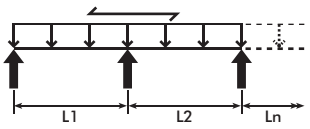
Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,500	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,750	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,500	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,750	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
3,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@325
3,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@250
3,500	105	SL72	N12@400	105	SL72	N12@350	105	SL72	N12@200
3,750	105	SL72	N12@400	105	SL72	N12@275	110	SL82	N12@200
4,000	105	SL72	N12@350	110	SL82	N12@250	120	SL92	N12@200
4,250	105	SL72	N12@300	115	SL82	N12@225	130	SL92	N12@200
4,500	105	SL72	N12@225	125	SL92	N12@250	140	SL102	N12@225
4,750	110	SL82	N12@225	135	SL92	N12@250	150	SL102	N12@200
5,000	115	SL82	N12@200	135	SL92	N12@200	160	SL81	N12@225
5,250	120	SL92	N12@225	135	SL92	N12@150	170	SL81	N12@225
5,500	130	SL92	N12@200	145	SL102	N12@175	180	SL81	N12@200
5,750	135	SL92	N12@200	155	SL102	N12@175	190	RL918T	N16@250
6,000	145	SL102	N12@200	160	SL81	N12@200	195	RL918T	N16@225
6,250	155	SL102	N12@200	175	SL81	N12@200	195	RL918T	N16@200
6,500	160	SL81	N12@225	180	SL81	N16@300	205	RL918T	N16@200
6,750	170	SL81	N12@225	190	RL918T	N16@225	220	RL918T	N16@200
7,000	180	SL81	N12@200	200	RL918T	N16@200	225	RL1018T	N16@175

Table 3.9.H RF55® Composite Slab Spans - Double Span 1.00 BMT

Deflection Criteria
Construction Deflection = L/240
Incremental Deflection = L/500
Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.

RF55® Composite Slab Spans
Continuous Span 0.60 BMT



0.60

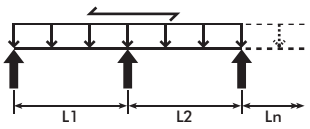
Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,500	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,750	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,500	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,750	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
3,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
3,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@350
3,500	105	SL72	N12@400	105	SL72	N12@400	110	SL82	N12@325
3,750	105	SL72	N12@400	110	SL82	N12@400	120	SL92	N12@375
4,000	105	SL72	N12@400	115	SL82	N12@400	130	SL92	N12@350
4,250	105	SL72	N12@375	120	SL92	N12@400	135	SL92	N12@300
4,500	115	SL82	N12@400	125	SL92	N12@350	140	SL102	N12@300
4,750	120	SL92	N12@400	135	SL92	N12@325	155	SL102	N12@300
5,000	130	SL92	N12@400	145	SL102	N12@375	160	SL81	N12@375
5,250	135	SL92	N12@400	155	SL102	N12@350	170	SL81	N12@325
5,500	145	SL102	N12@400	160	SL81	N12@400	180	SL81	N12@300
5,750	155	SL102	N12@400	170	SL81	N12@400	195	RL918T	N16@300
6,000	165	SL81	N12@400	180	SL81	N12@350	205	RL918T	N16@300
6,250	170	SL81	N12@400	195	RL918T	N12@200	215	RL918T	N16@300
6,500	180	SL81	N12@400	205	RL918T	N16@300	225	RL1018T	N16@275
6,750	195	RL918T	N12@225	215	RL918T	N16@300	240	RL1018T	N16@275
7,000	205	RL918T	N12@200	235	RL1018T	N16@300	250	RL1018T	N16@250

Table 3.9.I RF55® Composite Slab Spans - Continuous Span 0.60 BMT

Deflection Criteria
Construction Deflection = L/240
Incremental Deflection = L/500
Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.

RF55® Composite Slab Spans
Continuous Span 0.75 BMT



0.75

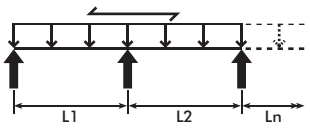
Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,500	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,750	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,500	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,750	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
3,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
3,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@350
3,500	105	SL72	N12@400	105	SL72	N12@400	110	SL82	N12@325
3,750	105	SL72	N12@400	105	SL72	N12@350	120	SL92	N12@375
4,000	105	SL72	N12@400	110	SL82	N12@350	125	SL92	N12@325
4,250	105	SL72	N12@375	115	SL82	N12@300	135	SL92	N12@300
4,500	110	SL82	N12@400	125	SL92	N12@350	140	SL102	N12@300
4,750	120	SL92	N12@400	135	SL92	N12@325	155	SL102	N12@300
5,000	125	SL92	N12@400	140	SL102	N12@350	160	SL81	N12@350
5,250	135	SL92	N12@400	155	SL102	N12@350	175	SL81	N12@350
5,500	145	SL102	N12@400	160	SL81	N12@400	180	SL81	N12@300
5,750	155	SL102	N12@400	170	SL81	N12@400	190	RL918T	N16@300
6,000	160	SL81	N12@400	180	SL81	N12@350	200	RL918T	N16@300
6,250	170	SL81	N12@400	195	RL918T	N12@200	215	RL918T	N16@300
6,500	180	SL81	N12@400	205	RL918T	N16@300	225	RL1018T	N16@275
6,750	195	RL918T	N12@225	215	RL918T	N16@300	240	RL1018T	N16@250
7,000	205	RL918T	N12@200	235	RL1018T	N16@300	250	RL1018T	N16@250

Table 3.9.J RF55® Composite Slab Spans - Continuous Span 0.75 BMT

Deflection Criteria
Construction Deflection = L/240
Incremental Deflection = L/500
Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.

RF55® Composite Slab Spans
Continuous Span 0.90 BMT



0.90

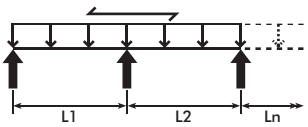
Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,500	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,750	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,500	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,750	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
3,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
3,250	105	SL72	N12@400	105	SL72	N12@400	110	SL82	N12@400
3,500	105	SL72	N12@400	105	SL72	N12@400	110	SL82	N12@325
3,750	105	SL72	N12@400	105	SL72	N12@350	115	SL82	N12@275
4,000	105	SL72	N12@400	110	SL82	N12@350	120	SL92	N12@275
4,250	105	SL72	N12@375	120	SL92	N12@400	130	SL92	N12@275
4,500	110	SL82	N12@400	125	SL92	N12@350	140	SL102	N12@300
4,750	120	SL92	N12@400	130	SL92	N12@300	155	SL102	N12@300
5,000	125	SL92	N12@400	140	SL102	N12@350	160	SL81	N12@350
5,250	135	SL92	N12@375	150	SL102	N12@325	165	SL81	N12@300
5,500	145	SL102	N12@400	160	SL81	N12@400	180	SL81	N12@300
5,750	155	SL102	N12@400	170	SL81	N12@400	190	RL918T	N16@300
6,000	160	SL81	N12@400	180	SL81	N12@350	200	RL918T	N16@300
6,250	170	SL81	N12@400	195	RL918T	N12@200	215	RL918T	N16@300
6,500	180	SL81	N12@400	200	RL918T	N16@300	220	RL918T	N16@275
6,750	195	RL918T	N12@200	210	RL918T	N16@300	245	RL1018T	N16@275
7,000	200	RL918T	N12@200	225	RL1018T	N16@275	245	RL1018T	N16@250

Table 3.9.K RF55® Composite Slab Spans - Continuous Span 0.90 BMT

Deflection Criteria
Construction Deflection = L/240
Incremental Deflection = L/500
Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.

RF55® Composite Slab Spans
Continuous Span 1.00 BMT



1.00

Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,500	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
1,750	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,500	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
2,750	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
3,000	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@400
3,250	105	SL72	N12@400	105	SL72	N12@400	105	SL72	N12@350
3,500	105	SL72	N12@400	105	SL72	N12@400	115	SL82	N12@375
3,750	105	SL72	N12@400	105	SL72	N12@350	125	SL92	N12@400
4,000	105	SL72	N12@400	110	SL82	N12@350	125	SL92	N12@325
4,250	105	SL72	N12@375	115	SL82	N12@300	135	SL92	N12@300
4,500	110	SL82	N12@400	125	SL92	N12@350	140	SL102	N12@300
4,750	115	SL82	N12@350	135	SL92	N12@325	145	SL102	N12@250
5,000	125	SL92	N12@400	140	SL102	N12@350	155	SL102	N12@250
5,250	135	SL92	N12@375	155	SL102	N12@350	165	SL81	N12@300
5,500	140	SL102	N12@400	160	SL81	N12@400	180	SL81	N12@325
5,750	155	SL102	N12@400	170	SL81	N12@400	190	RL918T	N16@300
6,000	160	SL81	N12@400	180	SL81	N12@350	200	RL918T	N16@300
6,250	165	SL81	N12@400	195	RL918T	N12@200	215	RL918T	N16@300
6,500	175	SL81	N12@400	200	RL918T	N16@300	220	RL918T	N16@275
6,750	190	RL918T	N12@200	210	RL918T	N16@300	235	RL1018T	N16@250
7,000	200	RL918T	N12@200	220	RL918T	N16@275	245	RL1018T	N16@250

Table 3.9.L RF55® Composite Slab Spans - Continuous Span 1.00 BMT

Deflection Criteria
Construction Deflection = L/240
Incremental Deflection = L/500
Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.