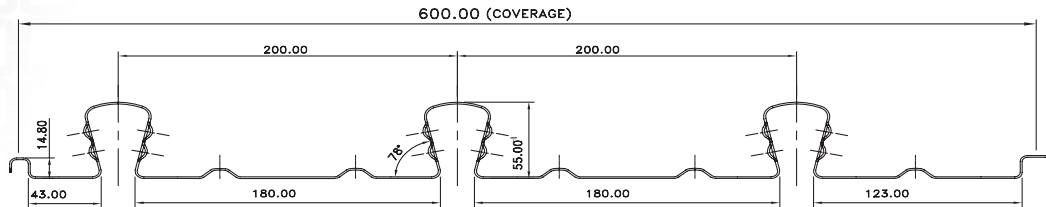
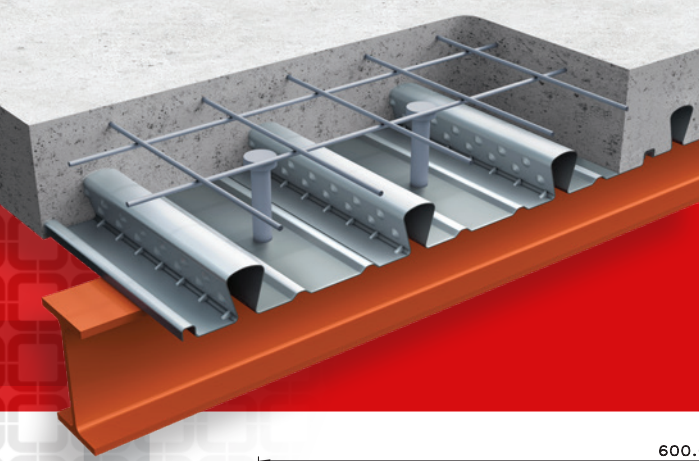


ComFlor SR

DESIGN INFORMATION



ComFlor SR SECTION PROPERTIES (PER METRE WIDTH)

NOMINAL THICKNESS (mm)	DESIGN THICKNESS (mm)	PROFILE WEIGHT (kN/m ²)	CROSS SECTIONAL AREA OF STEEL (mm ² /m)	HEIGHT TO NEUTRAL AXIS (mm)	MOMENT OF INERTIA		ULTIMATE MOMENT CAPACITY	
					SAGGING (cm ⁴ /m)	HOGGING (cm ⁴ /m)	SAGGING (kNm/m)	HOGGING (kNm/m)
0.75	0.75	0.10	1273	15.43	42.96	31.73	5.81	5.35
0.90	0.86	0.11	1459	15.43	50.09	38.01	7.61	6.89
1.00	1.00	0.13	1697	15.55	59.42	44.44	9.55	9.07
1.25	1.21	0.16	2053	15.66	68.98	58.29	11.63	11.14

• Section properties in table above conform to BS5950/ASNZS2327

ComFlor SR COMPOSITE SLAB - CONCRETE VOLUMES AND WEIGHT

SLAB THICKNESS (mm)	VOLUME/WEIGHT OF CONCRETE (kPa) NO PONDING ¹			VOLUME/WEIGHT OF CONCRETE (kPa) 15mm PONDING ²		
	VOLUME m ³ /m ²	WET (kPa) (2400kg/m ³)	DRY (kPa) (2350kg/m ³)	VOLUME m ³ /m ²	WET (kPa) (2400kg/m ³)	DRY (kPa) (2350kg/m ³)
110	0.101	2.38	2.33	0.112	2.63	2.57
120	0.111	2.61	2.56	0.122	2.86	2.80
130	0.121	2.85	2.79	0.132	3.10	3.03
140	0.131	3.08	3.02	0.142	3.33	3.26
150	0.141	3.32	3.25	0.152	3.57	3.49
160	0.151	3.56	3.48	0.162	3.80	3.72
170	0.161	3.79	3.71	0.172	4.04	3.95
180	0.171	4.03	3.94	0.182	4.27	4.18
190	0.181	4.26	4.17	0.192	4.51	4.41
210	0.201	4.73	4.63	0.212	4.98	4.88
220	0.211	4.97	4.86	0.222	5.21	5.11
230	0.221	5.20	5.09	0.232	5.45	5.34
240	0.231	5.44	5.33	0.242	5.69	5.57
250	0.241	5.67	5.56	0.252	5.92	5.80

1. Deck deflection (ie ponding) is not allowed for in the table

2. Deck deflection (ie ponding) is calculated at a nominal 15mm in the table

Notes

- Deck and mesh weight is not included in the weight of concrete figures
- Density of concrete (wet and dry) is taken at the values noted in the table
- The ComFlor SR profile takes the equivalent of 9mm out of the slab depth concrete volume

DESIGN NOTES

DECK MATERIAL

Zinc coated steel to AS 1397 G500/550, Z275/450, with a minimum yield stress of 500/550 N/mm². Minimum zinc coating mass is 275/450 g/m² total including both sides.

QUICK REFERENCE TABLES

The quick reference load/span tables are intended as a guide for initial design only. Full design can be carried out using the ComFlor software available free on request, or download at www.comflor.nz

TECHNICAL SERVICES

The ComFlor Technical Department offers a comprehensive advisory service for composite flooring to all specifiers and users.

Should queries arise which are not covered by this literature or by the ComFlor design software, please contact us: Ph (09) 271 1792, comflor@comflor.nz

QUICK REFERENCE CONSTRUCTION-STAGE TABLES

Spans have been calculated using ComFlor software. This information is indicative and for information purposes only. ComFlor software should always be used to determine the span, capacity and design requirements of the ComFlor slab.

ComFlor SR UNPROPPED DOUBLE SPANS

SLAB THICKNESS	0.75mm			0.90mm			1.00mm			1.25mm		
	BEAM CENTRES (m)	SOFFIT DEFLECTION (mm)	STRENGTH UTILISATION	BEAM CENTRES (m)	SOFFIT DEFLECTION (mm)	STRENGTH UTILISATION	BEAM CENTRES (m)	SOFFIT DEFLECTION (mm)	STRENGTH UTILISATION	BEAM CENTRES (m)	SOFFIT DEFLECTION (mm)	STRENGTH UTILISATION
110	2.90	13	99%	3.20	15	99%	3.65	21	98%	3.85	22	94%
120	2.75	10	97%	3.10	15	93%	3.55	21	98%	3.75	22	94%
130	2.65	10	97%	3.10	16	99%	3.45	20	97%	3.65	22	95%
140	2.55	9	97%	3.00	14	98%	3.35	19	97%	3.60	22	97%
150	2.50	9	99%	2.90	14	98%	3.30	19	99%	3.50	21	97%
160	2.40	8	97%	2.80	14	98%	3.20	18	92%	3.45	21	99%
170	2.35	9	99%	2.70	13	97%	3.15	18	94%	3.35	20	97%
180	2.25	8	96%	2.65	12	98%	3.10	18	95%	3.30	20	93%
190	2.20	8	97%	2.60	12	99%	3.05	18	96%	3.25	20	94%
200	2.15	8	97%	2.50	11	97%	3.00	18	97%	3.20	20	96%
210	2.10	7	97%	2.45	10	98%	2.95	17	99%	3.15	19	97%
220	2.05	7	97%	2.40	10	99%	2.85	16	97%	3.10	19	98%
230	2.00	6	97%	2.35	9	99%	2.80	16	98%	3.05	19	99%
240	1.95	6	96%	2.30	9	99%	2.75	15	98%	3.00	18	99%
250	1.90	6	96%	2.25	9	99%	2.70	15	98%	2.90	17	97%
260	1.85	6	95%	2.20	8	98%	2.65	15	99%	2.85	17	98%

Notes:

- Spans are measured from centre to centre, assuming a 150mm support width.
- Ponding has been taken into account.
- Refer to ComFlor software to complete a full design and to print out design values.

ComFlor SR UNPROPPED SINGLE SPANS

SLAB THICKNESS	0.75mm			0.90mm			1.00mm			1.25mm		
	CLEAR SPAN (m)	SOFFIT DEFLECTION (mm)	STRENGTH UTILISATION	CLEAR SPAN (m)	SOFFIT DEFLECTION (mm)	STRENGTH UTILISATION	CLEAR SPAN (m)	SOFFIT DEFLECTION (mm)	STRENGTH UTILISATION	CLEAR SPAN (m)	SOFFIT DEFLECTION (mm)	STRENGTH UTILISATION
110	2.55	20	98%	2.70	21	82%	2.85	22	72%	2.95	22	63%
120	2.45	19	95%	2.60	20	80%	2.75	21	71%	2.85	22	62%
130	2.40	19	96%	2.55	21	82%	2.70	21	72%	2.80	22	64%
140	2.35	19	97%	2.50	20	83%	2.65	21	73%	2.75	22	65%
150	2.30	18	98%	2.45	20	83%	2.60	21	74%	2.70	22	65%
160	2.25	18	98%	2.40	20	84%	2.50	20	72%	2.65	21	66%
170	2.20	18	98%	2.35	20	84%	2.50	20	75%	2.60	21	66%
180	2.15	18	98%	2.30	19	84%	2.40	19	72%	2.55	21	67%
190	2.10	17	97%	2.25	19	84%	2.35	18	72%	2.50	20	67%
200	2.05	17	96%	2.20	18	83%	2.35	19	75%	2.45	20	67%
210	2.00	16	96%	2.20	19	87%	2.30	18	75%	2.40	19	66%
220	1.95	15	95%	2.15	17	86%	2.25	18	74%	2.40	19	69%
230	1.90	14	94%	2.10	17	85%	2.20	17	74%	2.35	19	68%
240	1.90	15	97%	2.10	17	88%	2.20	18	76%	2.30	18	68%
250	1.85	14	95%	2.05	16	87%	2.15	17	75%	2.25	18	67%
260	1.80	14	93%	2.00	16	85%	2.10	17	74%	2.25	18	69%

Notes:

- Spans are measured on the clear span.
- Ponding has been taken into account.
- Refer to ComFlor software to complete a full design and to print out design values.

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