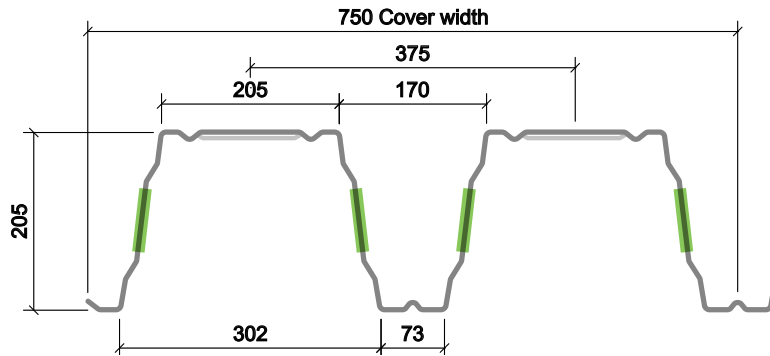


SR200™



Description

Deck profile typically used as the structural deck for single ply membrane, double skin built-up, standing seam, green roof and asphalt systems.

Benefits

- Provides uncluttered soffit when designed as part of a diaphragm roof
- Perforated option available for enhanced acoustic performance
- Bespoke lifting aid available for ease of installation
- In addition to the standard galvanized steel with interior liner, Aluminium option is also available where durability is a concern in aggressive environments.

Specification

- 750mm cover width
- 205mm deep
- Available with perforated webs providing 15 to 35% perforation, depending on pattern.

Gauge

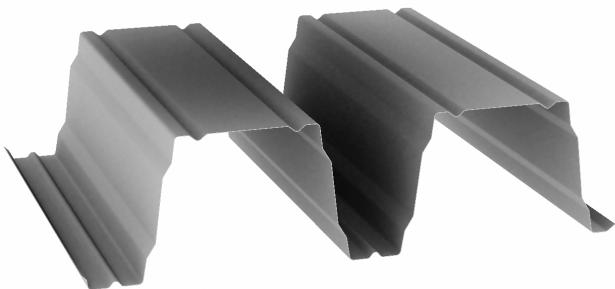
- 0.75mm (Steel)
- 0.88mm (Steel)
- 1.00mm (Steel / Aluminium)
- 1.25mm (Steel / Aluminium)
- 1.50mm (Steel / Aluminium)

Grade

- Steel S320
- Aluminium 180 MPa

Coatings and Finishes

- Galvanised Steel with interior liner coating
- Aluminium
- Perforated



Profile Properties

Product Specification and Options

	Product Code, Material & Option	Nominal Thickness mm	Weight kg/m ²	Weight kN/m ²	Top Flange in Compression		Bottom Flange in Compression	
					Moment Capacity kNm/m	Moment of Inertia cm ⁴ /m	Moment Capacity kNm/m	Moment of Inertia cm ⁴ /m
STEEL	SR200	0.75	11.78	0.116	18.49	710.00	18.35	799.00
		0.88	13.82	0.136	23.25	853.00	22.58	951.00
		1.00	15.71	0.154	27.58	987.00	26.42	1087.00
		1.25	19.63	0.193	36.93	1275.00	34.26	1369.00
		1.50	23.56	0.231	46.74	1571.00	42.00	1651.00
	SR200P PERFORATED	0.75	11.78	0.116	18.29	701.70	17.90	786.60
		0.88	13.82	0.136	23.04	842.50	21.97	934.70
		1.00	15.71	0.154	27.34	975.10	25.63	1066.60
		1.25	19.63	0.193	36.66	1259.00	33.38	1349.10
		1.50	23.56	0.231	46.41	1551.60	40.95	1627.20
ALUMINIUM	SR200A	1.00	5.66	0.056	11.12	969.15	10.27	1111.25
		1.25	7.08	0.069	15.40	1245.18	14.70	1413.66
		1.50	8.49	0.083	19.84	1518.37	19.36	1700.85
	SR200AP PERFORATED	1.00	5.66	0.056	10.92	957.76	10.07	1093.64
		1.25	7.08	0.069	15.22	1232.45	14.42	1394.36
		1.50	8.49	0.083	19.88	1505.56	19.08	1676.10

Load Tables Conditions

Tables consider deflection limits of:

Positive load (Gravity) - Span /200
Negative loads (Uplift) - Span /150

These tables do not consider loads applied during construction of the roof finish - additional load-distributing measures may be required in some situations.
All loads within table consider a partial factor of 1.5.

The deck self-weight has not been allowed for in the generation of these tables, so must be included in the applied loads referenced.

The SR deep deck range (>100mm) is supplied from various manufacturing facilities. Although all have similar product properties, specific designs must be checked at point of order/contract.

Fixing checks for uplift must be considered separately.

Tables based on bearing width of minimum 40mm at end supports and 160mm at internal supports.

Numbers shown **red** exceed maximum Health and Safety manual handling guidelines, additional lifting plant is recommended for these situations.

SR200 STEEL	Span Condition	Gauge	Span m Unfactored Applied Load (kN/m ²)																		
			5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	
Positive Imposed Load (Gravity) kN/m ²	Single	0.75	-	-	-	1.98	1.92	1.86	1.80	1.75	1.67	1.53	1.41	1.30	1.21	1.12	1.04	0.97	0.90	0.84	
		0.88	-	-	-	2.80	2.71	2.62	2.39	2.19	2.01	1.84	1.70	1.57	1.45	1.34	1.25	1.16	1.08	1.01	
		1.00	-	-	-	3.56	3.34	3.04	2.77	2.53	2.32	2.13	1.96	1.81	1.68	1.55	1.44	1.34	1.25	1.17	
		1.25	-	-	-	4.76	4.31	3.92	3.58	3.27	3.00	2.75	2.54	2.34	2.17	2.01	1.86	1.73	1.62	1.51	
		1.50	-	-	-	5.87	5.32	4.83	4.41	4.03	3.69	3.39	3.13	2.89	2.67	2.47	2.30	2.14	1.99	1.86	
	Double	0.75	-	-	-	1.82	1.74	1.66	1.59	1.53	1.47	1.41	1.35	1.30	1.26	1.21	1.17	1.13	1.09	1.05	
		0.88	-	-	-	2.43	2.32	2.21	2.12	2.03	1.95	1.87	1.79	1.72	1.66	1.59	1.54	1.48	1.43	1.38	
		1.00	-	-	-	3.02	2.88	2.75	2.63	2.51	2.41	2.31	2.21	2.12	2.04	1.96	1.89	1.82	1.75	1.69	
		1.25	-	-	-	4.31	4.10	3.91	3.73	3.56	3.40	3.25	3.11	2.98	2.86	2.74	2.64	2.53	2.44	2.35	
		1.50	-	-	-	5.66	5.37	5.11	4.86	4.63	4.42	4.22	4.04	3.86	3.68	3.50	3.33	3.17	3.03	2.89	
	Multi	0.75	-	-	-	2.13	2.04	1.96	1.88	1.80	1.73	1.66	1.60	1.54	1.49	1.43	1.38	1.34	1.29	1.25	
		0.88	-	-	-	2.86	2.74	2.62	2.51	2.40	2.31	2.22	2.13	2.05	1.97	1.90	1.83	1.77	1.71	1.65	
		1.00	-	-	-	3.57	3.41	3.26	3.12	2.99	2.86	2.75	2.64	2.53	2.44	2.35	2.26	2.18	2.10	2.03	
		1.25	-	-	-	5.14	4.89	4.67	4.45	4.26	4.07	3.90	3.74	3.58	3.44	3.30	3.18	3.06	2.94	2.84	
		1.50	-	-	-	6.78	6.44	6.13	5.85	5.58	5.33	5.09	4.87	4.67	4.47	4.29	4.12	3.96	3.77	3.52	
Positive Imposed Load (Gravity) kN/m ²	Single	0.75	-	-	-	2.72	2.55	2.39	2.25	2.12	2.00	1.89	1.79	1.69	1.61	1.53	1.46	1.39	1.32	1.26	
		0.88	-	-	-	3.35	3.13	2.94	2.76	2.60	2.46	2.32	2.20	2.08	1.98	1.88	1.79	1.71	1.61	1.50	
		1.00	-	-	-	3.91	3.67	3.44	3.23	3.05	2.88	2.72	2.57	2.44	2.32	2.20	2.10	1.97	1.84	1.72	
		1.25	-	-	-	5.08	4.75	4.46	4.19	3.95	3.73	3.52	3.34	3.16	3.00	2.86	2.67	2.48	2.31	2.16	
		1.50	-	-	-	6.22	5.83	5.47	5.14	4.84	4.57	4.32	4.09	3.88	3.68	3.47	3.22	3.00	2.79	2.60	
	Double	0.75	-	-	-	2.43	2.31	2.20	2.10	2.00	1.91	1.82	1.74	1.66	1.59	1.52	1.45	1.39	1.33	1.27	
		0.88	-	-	-	3.36	3.17	3.00	2.83	2.68	2.53	2.39	2.26	2.15	2.04	1.94	1.84	1.76	1.68	1.60	
		1.00	-	-	-	4.09	3.83	3.59	3.38	3.18	3.00	2.84	2.69	2.55	2.42	2.30	2.19	2.08	1.99	1.90	
		1.25	-	-	-	5.47	5.12	4.81	4.52	4.26	4.02	3.80	3.60	3.41	3.24	3.08	2.93	2.79	2.66	2.54	
		1.50	-	-	-	6.92	6.48	6.09	5.72	5.39	5.09	4.81	4.55	4.32	4.10	3.90	3.71	3.53	3.37	3.22	
	Multi	0.75	-	-	-	2.88	2.75	2.62	2.51	2.40	2.29	2.19	2.10	2.01	1.93	1.85	1.78	1.70	1.64	1.57	
		0.88	-	-	-	4.07	3.86	3.66	3.47	3.29	3.13	2.97	2.82	2.68	2.55	2.42	2.31	2.20	2.10	2.00	
		1.00	-	-	-	5.09	4.78	4.49	4.22	3.98	3.75	3.55	3.36	3.18	3.02	2.87	2.73	2.61	2.49	2.37	
		1.25	-	-	-	6.84	6.40	6.01	5.65	5.32	5.02	4.75	4.50	4.26	4.05	3.85	3.66	3.49	3.33	3.18	
		1.50	-	-	-	8.66	8.11	7.61	7.15	6.74	6.36	6.01	5.69	5.39	5.12	4.87	4.63	4.42	4.21	4.02	
Positive Imposed Load (Gravity) kN/m ²	Single	0.75	-	-	-	1.21	1.17	1.14	1.10	-	-	-	-	-	-	-	-	-	-	-	
		0.88	-	-	-	1.73	1.67	1.62	1.57	1.53	1.48	1.44	1.40	1.36	1.33	1.30	1.23	1.15	-	-	
		1.00	-	-	-	2.27	2.20	2.13	2.07	2.01	1.95	1.89	1.84	1.79	1.66	1.54	1.43	1.33	1.24	1.15	
		1.25	-	-	-	3.62	3.50	3.39	3.29	3.19	2.96	2.72	2.51	2.31	2.14	1.98	1.84	1.71	1.60	1.49	
		1.50	-	-	-	5.23	5.06	4.77	4.35	3.98	3.65	3.35	3.09	2.85	2.64	2.44	2.27	2.11	1.97	1.84	
	Double	0.75	-	-	-	1.38	1.32	1.26	1.20	1.15	1.11	-	-	-	-	-	-	-	-	-	-
		0.88	-	-	-	1.84	1.75	1.67	1.60	1.53	1.48	1.44	1.40	1.36	1.33	1.30	1.27	1.23	1.21	1.18	
		1.00	-	-	-	2.28	2.20	2.13	2.07	2.01	1.95	1.89	1.84	1.79	1.75	1.70	1.66	1.62	1.59	1.55	
		1.25	-	-	-	3.62	3.50	3.39	3.29	3.19	3.10	3.01	2.93	2.85	2.78	2.71	2.65	2.58	2.51	2.42	
		1.50	-	-	-	5.23	5.06	4.90	4.75	4.61	4.48	4.36	4.18	4.00	3.84	3.68	3.54	3.40	3.27	3.15	
	Multi	0.75	-	-	-	1.52	1.47	1.42	1.38	1.34	1.30	1.25	1.21	1.16	1.12	-	-	-	-	-	-
		0.88	-	-	-	2.16	2.07	1.98	1.89	1.81	1.74	1.67	1.60	1.54	1.48	1.43	1.37	1.32	1.28	1.23	
		1.00	-	-	-	2.70	2.58	2.46	2.35	2.25	2.15	2.06	1.98	1.90	1.83	1.76	1.69	1.63	1.59	1.55	
		1.25	-	-	-	3.90	3.71	3.53	3.37	3.22	3.10	3.01	2.93	2.85	2.78	2.71	2.65	2.58	2.52	2.47	
		1.50	-	-	-	5.23	5.06	4.90	4.75	4.61	4.48	4.36	4.24	4.13	4.02	3.87	3.68	3.51	3.35	3.20	
Negative Imposed Load (Uplift) kN/m ²	Single	0.75	-	-	-	2.65	2.48	2.33	2.19	-	-	-	-	-	-	-	-	-	-	-	
		0.88	-	-	-	3.25	3.05	2.86	2.69	2.53	2.39	2.26	2.14	2.03	1.93	1.83	1.74	1.66	-	-	
		1.00	-	-	-	3.80	3.56	3.34	3.14	2.96	2.79	2.64	2.50	2.37	2.25	2.14	2.03	1.93	1.80	1.68	
		1.25	-	-	-	4.95	4.63	4.35	4.09	3.85	3.63	3.43	3.25	3.08	2.93	2.78	2.63	2.45	2.28	2.13	
		1.50	-	-	-	6.07	5.68	5.33	5.01	4.72	4.46	4.21	3.99	3.78	3.59	3.41	3.17	2.95	2.75	2.57	
	Double	0.75	-	-	-	1.96	1.87	1.80	1.72	1.65	1.59	-	-	-	-	-	-	-	-	-	-
		0.88	-	-	-	2.87	2.74	2.61	2.50	2.39	2.28	2.18	2.09	2.01	1.92	1.84	1.77	1.70	1.63	1.56	
		1.00	-	-	-	3.77	3.57	3.39	3.22	3.07	2.92	2.77	2.64	2.51	2.39	2.28	2.17	2.07	1.97	1.88	
		1.25	-	-	-	5.43	5.09	4.77	4.49	4.23	3.99	3.77	3.57	3.39	3.21	3.06	2.91	2.77	2.64	2.52	
		1.50	-	-	-	6.88	6.44	6.04	5.68	5.35	5.05	4.77	4.52	4.29	4.07	3.87	3.68	3.51	3.35	3.20	
	Multi	0.75	-	-	-	2.14	2.06	1.98	1.90	1.83	1.76	1.70	1.64	1.58	1.53	-	-	-	-	-	-
		0.88	-	-	-	3.20	3.06	2.93	2.81	2.70	2.59	2.49	2.39	2.30	2.22	2.13	2.06	1.98	1.91	1.84	
		1.00	-	-	-	4.30	4.10	3.92	3.74	3.57	3.42	3.27	3.13	3.00	2.87	2.75	2.64	2.53	2.43	2.33	
		1.25	-	-	-	6.67	6.29	5.93	5.60	5.28	4.99	4.71	4.46	4.23	4.02	3.82	3.63	3.46	3.30	3.16	
		1.50	-	-	-	8.59	8.05	7.55	7.10	6.69	6.31	5.97	5.65	5.36	5.09	4.83	4.60	4.38	4.18	4.00	

Load Tables - Aluminium

Span m Unfactored Applied Load (kN/m²)

Span Condition	Gauge	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	
Positive Imposed Load (Gravity) kN/m ²	Single	1.00	1.96	1.85	1.75	1.67	1.59	1.52	1.45	1.39	1.33	1.28	1.23	1.19	1.15	1.11	1.08	-	-	-
		1.25	3.06	2.89	2.74	2.60	2.48	2.37	2.26	2.17	2.08	2.00	1.93	1.86	1.72	1.55	1.40	-	-	-
		1.50	4.37	4.13	3.91	3.72	3.54	3.38	3.23	3.10	2.97	2.86	2.59	2.32	2.09	1.89	1.71	-	-	-
	Double	1.00	2.29	2.13	1.99	1.86	1.75	1.64	1.55	1.46	1.38	1.30	1.23	1.17	1.11	1.05	1.00	-	-	-
		1.25	3.47	3.22	3.00	2.81	2.63	2.47	2.32	2.18	2.06	1.94	1.84	1.74	1.65	1.57	1.49	-	-	-
		1.50	4.80	4.46	4.15	3.87	3.62	3.39	3.18	2.99	2.82	2.65	2.51	2.37	2.24	2.13	2.02	-	-	-
	Multi	1.00	2.45	2.31	2.19	2.08	1.98	1.89	1.81	1.72	1.63	1.54	1.46	1.39	1.32	1.26	1.20	-	-	-
		1.25	3.83	3.62	3.43	3.25	3.09	2.91	2.74	2.58	2.44	2.31	2.19	2.08	1.97	1.88	1.79	-	-	-
		1.50	5.46	5.16	4.88	4.56	4.27	4.01	3.77	3.56	3.35	3.17	3.00	2.84	2.70	2.56	2.43	-	-	-
Negative Imposed Load (Uplift) kN/m ²	Single	1.00	4.31	3.84	3.45	3.11	2.82	2.57	2.35	2.16	1.99	1.84	1.71	1.59	1.48	1.38	1.30	-	-	-
		1.25	6.17	5.50	4.94	4.45	4.04	3.68	3.37	3.09	2.85	2.64	2.44	2.27	2.12	1.98	1.85	-	-	-
		1.50	8.12	7.24	6.50	5.87	5.32	4.85	4.44	4.07	3.75	3.47	3.22	2.99	2.79	2.61	2.44	-	-	-
	Double	1.00	3.62	3.35	3.10	2.88	2.69	2.50	2.34	2.19	2.05	1.92	1.80	1.69	1.59	1.49	1.40	-	-	-
		1.25	5.94	5.42	4.96	4.55	4.18	3.84	3.53	3.24	2.98	2.74	2.56	2.38	2.22	2.07	1.94	-	-	-
		1.50	8.28	7.42	6.65	5.96	5.45	4.97	4.55	4.18	3.85	3.56	3.30	3.07	2.86	2.67	2.50	-	-	-
	Multi	1.00	4.00	3.71	3.46	3.23	3.02	2.83	2.66	2.50	2.36	2.22	2.10	1.99	1.88	1.78	1.68	-	-	-
		1.25	6.76	6.22	5.75	5.31	4.92	4.57	4.25	3.95	3.68	3.43	3.19	2.98	2.77	2.59	2.41	-	-	-
		1.50	9.88	8.98	8.18	7.46	6.80	6.21	5.67	5.17	4.81	4.45	4.12	3.83	3.57	3.34	3.13	-	-	-
Positive Imposed Load (Gravity) kN/m ²	Single	1.00	1.69	1.60	1.52	1.44	1.37	1.31	1.25	1.20	1.15	1.11	1.07	1.03	0.99	0.96	0.93	-	-	-
		1.25	2.65	2.50	2.37	2.25	2.14	2.04	1.96	1.87	1.80	1.73	1.67	1.61	1.55	1.50	1.39	-	-	-
		1.50	3.78	3.57	3.38	3.22	3.06	2.92	2.80	2.68	2.57	2.47	2.38	2.30	2.07	1.87	1.70	-	-	-
	Double	1.00	2.04	1.90	1.78	1.67	1.57	1.48	1.40	1.32	1.25	1.18	1.12	1.07	1.02	0.97	0.92	-	-	-
		1.25	3.09	2.88	2.69	2.52	2.37	2.23	2.10	1.98	1.87	1.77	1.68	1.60	1.52	1.44	1.37	-	-	-
		1.50	4.30	4.01	3.74	3.50	3.28	3.08	2.90	2.73	2.58	2.44	2.31	2.19	2.08	1.97	1.88	-	-	-
	Multi	1.00	2.12	2.00	1.89	1.80	1.71	1.64	1.56	1.50	1.44	1.38	1.33	1.26	1.20	1.15	1.10	-	-	-
		1.25	3.31	3.12	2.96	2.81	2.68	2.56	2.44	2.33	2.21	2.10	1.99	1.89	1.80	1.72	1.64	-	-	-
		1.50	4.73	4.47	4.23	4.02	3.83	3.62	3.42	3.23	3.05	2.89	2.74	2.61	2.48	2.36	2.25	-	-	-
Negative Imposed Load (Uplift) kN/m ²	Single	1.00	4.22	3.77	3.38	3.05	2.77	2.52	2.31	2.12	1.95	1.81	1.67	1.56	1.45	1.36	1.27	-	-	-
		1.25	6.05	5.39	4.84	4.37	3.96	3.61	3.30	3.03	2.80	2.59	2.40	2.23	2.08	1.94	1.82	-	-	-
		1.50	8.00	7.14	6.41	5.78	5.24	4.78	4.37	4.02	3.70	3.42	3.17	2.95	2.75	2.57	2.41	-	-	-
	Double	1.00	2.96	2.75	2.57	2.40	2.25	2.11	1.99	1.88	1.77	1.67	1.58	1.50	1.42	1.35	1.28	-	-	-
		1.25	5.07	4.68	4.33	4.02	3.74	3.48	3.25	3.03	2.84	2.65	2.49	2.33	2.18	2.05	1.92	-	-	-
		1.50	7.59	6.94	6.36	5.84	5.36	4.93	4.54	4.18	3.85	3.55	3.31	3.07	2.87	2.68	2.51	-	-	-
	Multi	1.00	3.21	2.99	2.80	2.63	2.47	2.33	2.20	2.08	1.97	1.87	1.78	1.69	1.61	1.54	1.47	-	-	-
		1.25	5.61	5.20	4.84	4.52	4.22	3.96	3.71	3.49	3.28	3.09	2.92	2.76	2.60	2.46	2.33	-	-	-
		1.50	8.61	7.94	7.33	6.79	6.30	5.85	5.44	5.07	4.72	4.40	4.11	3.84	3.58	3.34	3.12	-	-	-

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