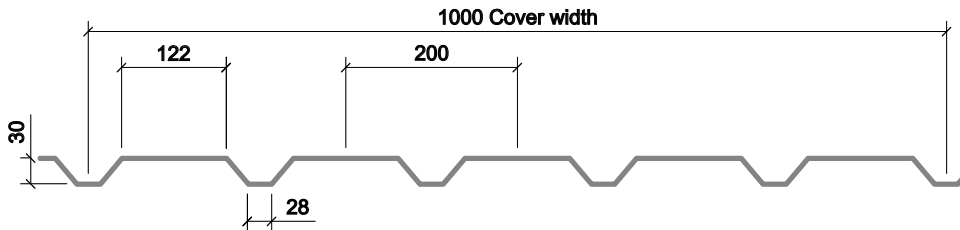


Product Data Sheet SMD Profile Details and Sectional Properties

SR30⁺™



Description

Deck profile typically used as the structural deck for single ply membrane, double skin built-up, standing seam, green roof and asphalt systems. Also available as part of the Protex Insulated System.

Benefits

- Can be manually installed with limited need for additional lifting plant
- Enhanced speed of installation due to 1m cover width
- Large upper flat for ease when fixing roof build-up

Gauges

- 0.7mm
- 0.9mm

Specification

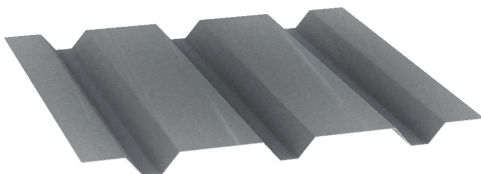
- 1000mm cover width
- 30mm deep

Steel Grade

- S350

Coatings and Finishes

- Galvanised
- Interior liner



Profile Properties

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
0.70	6.66	0.07	1.45	6.20	1.54	9.5
0.90	8.57	0.08	2.19	8.80	2.18	13.2

Section properties are calculated assisted by testing in accordance with Eurocode 3.

Load Tables

Positive Imposed Load (Gravity) kN/m²

Span m Unfactored Applied Load (kN/m²)

Span Condition	Gauge	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6
 Single	0.7	5.00	3.76	2.89	2.28	1.82	1.48	1.22	1.02	0.86	-	-	-	-	-	-	-	-
	0.9	7.10	5.33	4.11	3.23	2.59	2.10	1.73	1.44	1.22	1.03	0.89	-	-	-	-	-	-
 Double	0.7	4.50	3.92	3.45	3.06	2.73	2.46	2.03	1.70	1.43	1.21	1.04	0.90	-	-	-	-	-
	0.9	6.92	6.01	5.27	4.66	4.15	3.50	2.89	2.41	2.03	1.72	1.48	1.28	1.11	0.97	-	-	-
 Multi	0.7	5.32	4.65	4.10	3.64	3.04	2.47	2.03	1.70	1.43	1.21	1.04	0.90	-	-	-	-	-
	0.9	8.22	7.15	6.28	5.38	4.31	3.50	2.89	2.41	2.03	1.72	1.48	1.28	1.11	0.97	-	-	-

Load Tables

Negative Imposed Load (Uplift) kN/m²

Span m Unfactored Applied Load (kN/m²)

Span Condition	Gauge	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6
 Single	0.7	8.00	6.79	5.70	4.86	4.19	3.65	3.21	2.84	2.53	2.28	2.05	1.86	1.70	1.50	1.32	1.17	1.04
	0.9	11.63	9.61	8.07	6.88	5.93	5.17	4.54	4.02	3.59	3.22	2.91	2.57	2.24	1.96	1.72	1.53	1.36
 Double	0.7	4.38	3.81	3.35	2.97	2.65	2.38	2.15	1.96	1.79	1.64	1.51	1.39	1.29	1.20	1.12	1.04	0.98
	0.9	6.94	6.02	5.28	4.67	4.16	3.74	3.37	3.06	2.79	2.56	2.35	2.17	2.01	1.86	1.74	1.62	1.52
 Multi	0.7	5.19	4.52	3.98	3.54	3.16	2.85	2.58	2.35	2.15	1.97	1.82	1.68	1.56	1.45	1.35	1.26	1.18
	0.9	8.24	7.17	6.30	5.58	4.99	4.48	4.05	3.68	3.36	3.08	2.84	2.62	2.43	2.26	2.10	1.97	1.84

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.

Fixing checks for uplift must be considered separately.

Tables based on bearing width (steel beam) of 100mm.

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

These load/span tables do not consider plastic design (moment redistribution). Improved loadings may be possible for some double and multi-span configurations. Contact SMD Technical Team for further guidance.