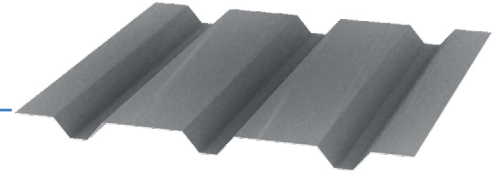




Product Data Sheet SMD Profile Details and Sectional Properties

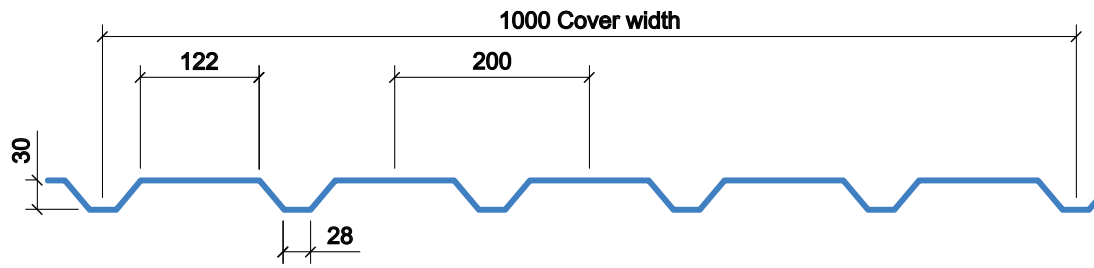
SR30⁺

Roof deck profile



Deck profile

30mm 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.



Options

- S350 grade steel in accordance with BS EN 10143:2016 and BS EN 10346:2015
- Available in two coating options:-
 - Galvanised** Hot dip galvanised with a minimum coating mass of 275g/m² (S350GD-Z275)
 - Polyester White** Hot dip galvanised with a minimum coating mass of 150g/m² (S350GD-Z150) with 25 micron bright white polyester to the interior surface
- 0.7mm and 0.9mm gauge options available to suit common purlin spacings.
- Maximum sheet lengths up to 12m in packs of 10-35 sheets to suit project specific details

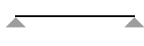
Profile properties

Nominal Thickness mm	Available Grade N/mm ²	Depth of Profile mm	Weight kg/m ²	Weight kN/m ²	Area of Steel (mm ² /m)	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
0.7	S350	30	6.66	0.07	805	1.45	6.2	1.54	9.5
0.9	S350	30	8.57	0.08	1049	2.19	8.8	2.18	13.2

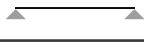
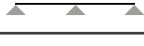

Section properties are calculated assisted by testing in accordance with Eurocode 3.

Load tables

Positive Imposed Load (Gravity) kN/m²

Span Condition	Gauge	Span m																
		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	-	-	-

Negative Imposed Load (Uplift) kN/m²

Span Condition	Gauge	Span m																
		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 /90

Figures shaded indicate where design is governed by deflection

All loads within table consider a partial factor of 1.5

Fixing checks for uplift must be considered separately

Tables based on bearing width (purlin) of 60mm

Download the latest version, now with roof deck design capability

 Watch SMD's YouTube tutorial on the new roof deck section of Elements