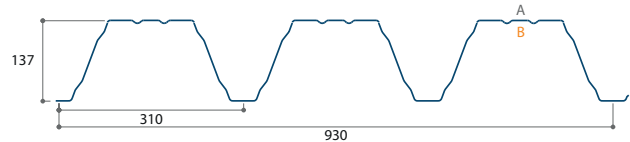
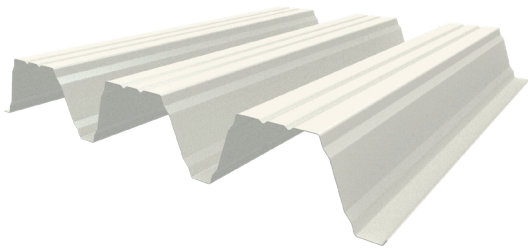


Highdecks

137-310-930

The high-profile 137-310-930 is a profiled steel sheet used for flat roof constructions. With its large span and unmatched strength, this roof sheet is the perfect solution for industrial and tertiary applications. This steel deck sheet is available in various dimensions. Other versions are possible upon request. An interior coating can be optionally applied to the B-side of the profile.



Product	Thickness (mm)	Weight (kg/m ²)
3924	0,75	9,50
3924	0,88	11,14
3924	1,00	12,66
3924	1,25	15,83

Technical characteristics

Standard length	from 1500 to 13600 mm
Effective width	930 mm
Type of metal	Steel S320 GD
Coatings	Interiorcoating 912 (15 μ) according to color chart MR101_Colorflow

References

Galvanized steel	EN 10346:2015 - tolerances according to EN 10143:2006
Pre-painted steel	EN 10169:2022
Dimensions / Tolerances	EN 508-1:2021 (Geometry)
Static calculation	EN 1993-1-3:2006

Technical possibilities Option

JI Aqua Smart	yes, only available in JI NL
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Load tables (in kN/m²)

Static properties

tN [mm]	Weight (kg/m ²)	Top flange in compression						Bottom flange in compression						Residual moments		
		Mc,Rk,F [kNm/m]	Mc,Rk,B [kNm/m]	Ie [cm ⁴ /m]	Vw,Rk [kN/m]	Rw,Rk.B [kN/m]	Rw,Rk.A [kN/m]	Mc,Rk,F [kNm/m]	Mc,Rk,B [kNm/m]	Ie [cm ⁴ /m]	Vw,Rk [kN/m]	Rw,Rk.A [kN/m]	Lmin [m]	Lmax [m]	MR,Rk,max [kNm/m]	
0,75	9,50	9,66	8,17	286,00	28,49	22,82	7,14	8,30	9,66	276,30	28,49	28,49	5,29	6,01	2,23	
0,88	11,14	12,57	11,56	338,30	45,43	31,51	10,60	10,90	12,26	335,60	45,43	45,43	5,16	5,89	3,03	
1,00	12,66	15,39	14,69	386,60	65,91	39,53	13,80	13,43	14,77	386,60	65,91	65,91	5,05	5,77	3,78	
1,25	15,83	22,42	20,75	487,00	121,14	62,71	21,80	18,55	20,23	487,00	121,14	121,14	4,62	5,36	6,01	



Permissible downward load (kN/m²) for span (m)

Number of fields	Thickness (mm)	Span (m)														
		4,60	4,80	5,00	5,20	5,40	5,60	5,80	6,00	6,20	6,40	6,60	6,80	7,00	7,20	7,40
Single L/200	0,75	2,37	2,09	1,85	1,64	1,46	1,31	1,18	1,07							
	0,88	2,80	2,47	2,18	1,94	1,73	1,55	1,40	1,26	1,14	1,04					
	1,00	3,20	2,82	2,49	2,22	1,98	1,78	1,60	1,44	1,31	1,19	1,08				
	1,25	4,03	3,55	3,14	2,79	2,49	2,24	2,01	1,82	1,65	1,50	1,37	1,25	1,14	1,05	
Double L/200	0,75	2,43	2,24	2,06	1,91	1,80	1,72	1,65	1,59	1,49	1,40	1,32	1,24	1,17	1,11	1,05
	0,88	3,17	2,91	2,68	2,50	2,39	2,29	2,20	2,08	1,95	1,83	1,72	1,62	1,53	1,44	1,37
	1,00	3,88	3,56	3,28	3,11	2,98	2,86	2,73	2,55	2,39	2,24	2,11	1,99	1,88	1,77	1,68
	1,25	5,65	5,36	5,11	4,88	4,63	4,31	4,02	3,75	3,52	3,30	3,10	2,92	2,76	2,53	2,33
Multi L/200	0,75	2,43	2,24	2,06	1,91	1,80	1,72	1,65	1,59	1,49	1,40	1,32	1,24	1,17	1,11	1,05
	0,88	3,17	2,91	2,68	2,50	2,39	2,29	2,20	2,08	1,95	1,83	1,72	1,62	1,50	1,38	1,27
	1,00	3,88	3,56	3,28	3,11	2,98	2,86	2,73	2,55	2,39	2,24	2,05	1,88	1,72	1,58	1,46
	1,25	5,65	5,36	5,11	4,88	4,63	4,23	3,81	3,44	3,12	2,83	2,58	2,36	2,17	1,99	1,83

The above load is the total load in Ultimate Limit State (UGT) divided by 1,5.
 minimum support widths: 40 mm for end supports - 160 mm for intermediate supports.
 The load tables are limited by a maintenance load of 1,00 kN/m² or 1,50 kN/m.



Permissible upward load (kN/m²) for span (m)

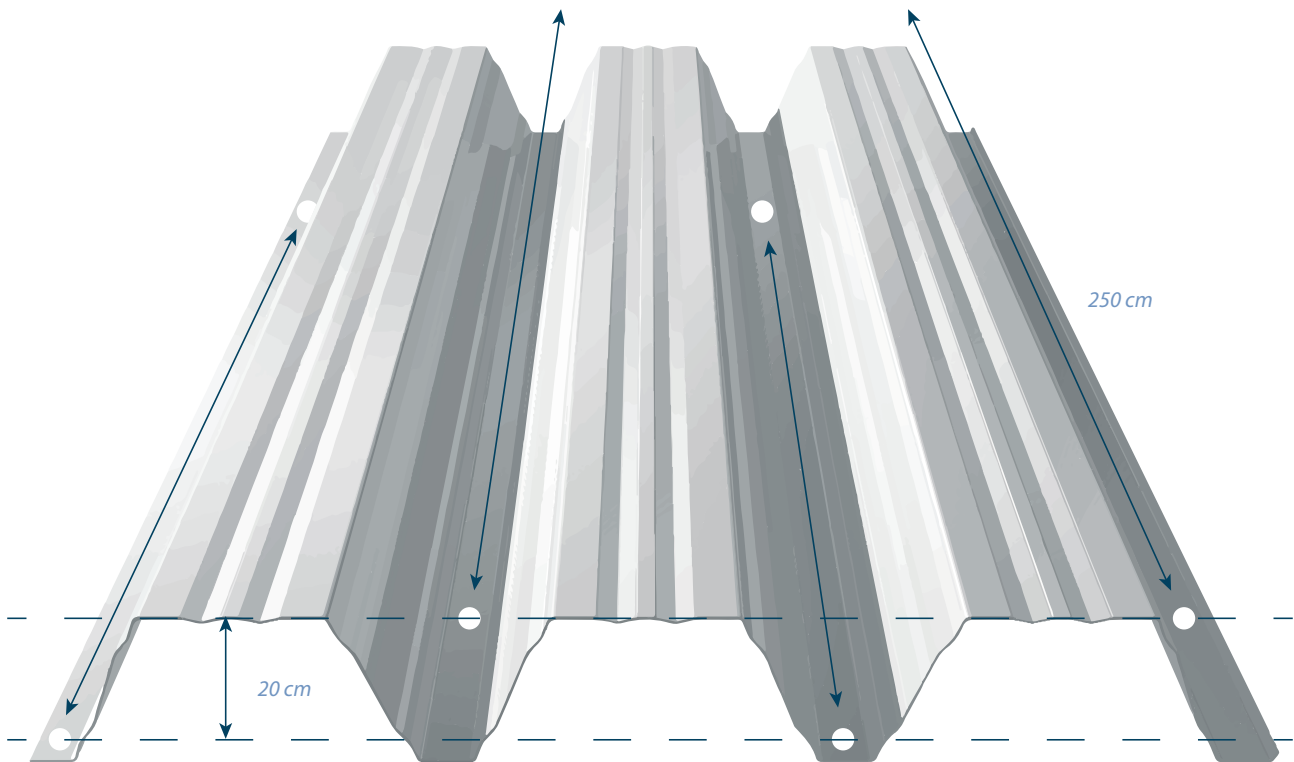
Number of fields	Thickness (mm)	Span (m)														
		4,60	4,80	5,00	5,20	5,40	5,60	5,80	6,00	6,20	6,40	6,60	6,80	7,00	7,20	7,40
Single L/150	0,75	2,09	1,92	1,77	1,64	1,52	1,41	1,32	1,23	1,15	1,08	1,02	0,94	0,87	0,80	0,73
	0,88	2,75	2,52	2,33	2,15	1,99	1,85	1,73	1,61	1,51	1,38	1,26	1,15	1,05	0,97	0,89
	1,00	3,39	3,11	2,87	2,65	2,46	2,28	2,13	1,92	1,74	1,59	1,45	1,32	1,21	1,11	1,03
	1,25	4,68	4,29	3,96	3,66	3,33	2,98	2,68	2,42	2,20	2,00	1,82	1,67	1,53	1,40	1,29
Double L/150	0,75	2,43	2,24	2,06	1,91	1,77	1,64	1,53	1,43	1,34	1,26	1,18	1,11	1,05	0,99	0,94
	0,88	3,09	2,84	2,62	2,42	2,24	2,09	1,94	1,82	1,70	1,60	1,50	1,41	1,33	1,26	1,19
	1,00	3,72	3,42	3,15	2,91	2,70	2,51	2,34	2,19	2,05	1,92	1,81	1,70	1,61	1,52	1,44
	1,25	5,10	4,68	4,32	3,99	3,70	3,44	3,21	3,00	2,81	2,63	2,48	2,33	2,20	2,08	1,97
Multi L/150	0,75	3,04	2,80	2,58	2,38	2,21	2,05	1,91	1,79	1,68	1,57	1,48	1,39	1,31	1,24	1,18
	0,88	3,86	3,55	3,27	3,02	2,80	2,61	2,43	2,27	2,13	2,00	1,88	1,77	1,67	1,58	1,49
	1,00	4,65	4,27	3,94	3,64	3,38	3,14	2,93	2,74	2,56	2,40	2,26	2,13	2,01	1,90	1,80
	1,25	6,37	5,85	5,39	4,99	4,63	4,30	4,01	3,75	3,51	3,29	3,10	2,92	2,75	2,60	2,44

The above load is the total load in Ultimate Limit State (UGT) divided by 1,5.
 Minimum support widths: 40 mm for end supports - 160 mm for intermediate supports

High Profiles

Aqua Smart

The profiled steel roof sheets are ideal for achieving quick and efficient installation of flat roofs. However, during installation, the profile valleys remain exposed to rain and are thus susceptible to rainwater accumulation. To avoid this, Joris Ide provides the Aqua Smart solution. In this solution, the high profiles are perforated in the valley, allowing any accumulated water to be gradually drained. This ensures that the roof insulation can always be placed on a relatively dry surface, thereby promoting longevity. Due to the limited number of perforations, the technical properties remain intact, and a reduction in strength is avoided.



The perforations are carried out as follows

Drainage hole cross-section 8mm
Spacing every 1500 mm

Available in

Thicknesses

- + 0.75 mm
- + 0.88 mm
- + 1.00 mm
- + 1.25 mm

Profile types

- + JI 106-250-750
- + JID 137-310-930

The technical properties can be found in the respective technical data sheets.