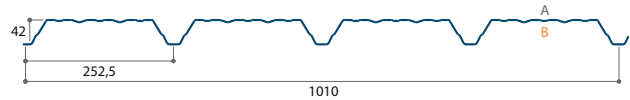
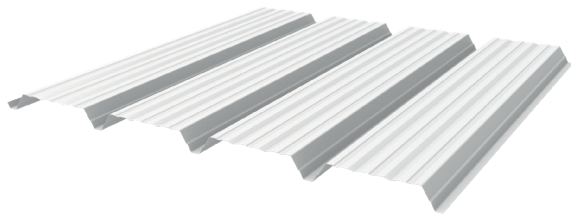


Highdecks

42-252-1010

The 42-252-1010 is a high-profile sheet used for flat roofs in industrial or tertiary projects. This profiled steel sheet offers a large span and can be coated on the B-side with an interior coating. Other versions are available upon request.



Product	Thickness (mm)	Weight (kg/m ²)
21	0,75	7,11
21	0,88	8,34
21	1,00	9,48

Technical characteristics

Standard length	from 500 to 13500 mm
Effective width	1010 mm
Type of metal	Steel S320 GD
Coatings	Interiorcoating 912 (15 μ), Galva 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

Load tables (in kN/m²)

Static properties

tN [mm]	Weight (kg/m ²)	Top flange in compression						Bottom flange in compression				
		Mc,Rk,F [kNm/m]	Mc,Rk,B [kNm/m]	I _{eff} [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]	I _{eff} [cm ⁴ /m]	Vw,Rk [kN/m]	Rw,Rk, A [kN/m]
0,75	7,11	2,21	1,76	17,40	50,68	18,23	7,91	1,76	2,21	17,56	50,68	50,68
0,88	8,34	2,72	2,08	20,71	59,94	24,73	10,76	2,08	2,72	20,77	59,94	59,94
1,00	9,48	3,20	2,38	23,72	68,49	31,50	13,75	2,38	3,20	23,72	68,49	68,49



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

Number of fields	Thickness (mm)	Span (m)														
		1,00	1,20	1,40	1,60	1,80	2,00	2,20	2,40	2,60	2,80	3,00	3,20	3,40	3,60	3,80
Single L/200	0,75	10,55	8,12	5,11	3,43	2,41	1,75	1,32	1,01							
	0,88	14,35	9,66	6,09	4,08	2,86	2,09	1,57	1,21							
	1,00	17,08	11,07	6,97	4,67	3,28	2,39	1,80	1,38	1,09						
Double L/200	0,75	8,71	6,54	5,10	4,09	3,36	2,81	2,39	2,05	1,74	1,50	1,25	1,03			
	0,88	11,05	8,24	6,39	5,10	4,17	3,48	2,94	2,52	2,15	1,83	1,49	1,23	1,02		
	1,00	13,30	9,86	7,61	6,06	4,94	4,10	3,47	2,97	2,53	2,10	1,71	1,41	1,17		
Multi L/200	0,75	10,33	7,80	6,02	4,61	3,64	2,95	2,44	1,92	1,51	1,21					
	0,88	13,15	9,85	7,41	5,68	4,48	3,63	2,97	2,29	1,80	1,44	1,17				
	1,00	15,87	11,83	8,72	6,67	5,27	4,27	3,40	2,62	2,06	1,65	1,34	1,10			

The above load is the total load in Ultimate Limit State (ULS) divided by 1,5.
 minimum support widths: 40 mm for end supports - 60 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)														
		1,00	1,20	1,40	1,60	1,80	2,00	2,20	2,40	2,60	2,80	3,00	3,20	3,40	3,60	3,80
Single L/150	0,75	9,38	6,52	4,79	3,67	2,90	2,35	1,77	1,37	1,07	0,86	0,70	0,58	0,48	0,40	0,34
	0,88	11,10	7,71	5,66	4,33	3,42	2,77	2,10	1,62	1,27	1,02	0,83	0,68	0,57	0,48	0,41
	1,00	12,68	8,80	6,47	4,95	3,91	3,17	2,40	1,85	1,45	1,16	0,94	0,78	0,65	0,55	0,46
Double L/150	0,75	11,79	8,19	6,02	4,61	3,64	2,95	2,44	2,05	1,74	1,50	1,31	1,15	1,02	0,91	0,82
	0,88	14,53	10,09	7,41	5,68	4,48	3,63	3,00	2,52	2,15	1,85	1,61	1,42	1,26	1,12	0,98
	1,00	17,08	11,86	8,72	6,67	5,27	4,27	3,53	2,97	2,53	2,18	1,90	1,67	1,48	1,32	1,12
Multi L/150	0,75	14,66	10,18	7,48	5,73	4,53	3,67	3,03	2,55	2,03	1,63	1,32	1,09	0,91	0,77	0,65
	0,88	17,34	12,04	8,85	6,77	5,35	4,33	3,58	3,01	2,40	1,92	1,56	1,29	1,07	0,91	0,77
	1,00	19,81	13,76	10,11	7,74	6,11	4,95	4,09	3,44	2,75	2,20	1,79	1,47	1,23	1,03	0,88

The above load is the total load in Ultimate Limit State (ULS) divided by 1,5.
 Minimum support widths: 40 mm for end supports - 60 mm for intermediate supports