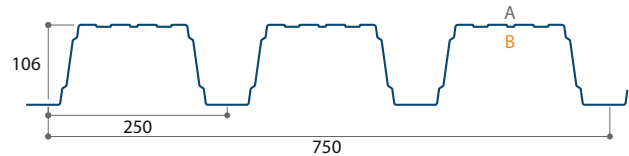
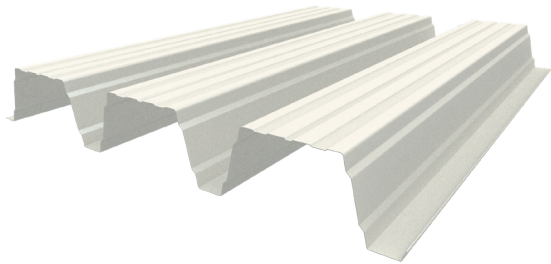


## Highdecks

# 106-250-750

The 106-250-750 is a profiled steel sheet developed for flat roof constructions. This roof sheet offers a large span, making it an ideal solution for flat roofs in industrial and tertiary projects. This steel deck sheet is available in various dimensions and versions. An interior coating can be optionally applied to the B-side.



Product	Thickness (mm)	Weight (kg/m <sup>2</sup> )
24	0,75	9,73
24	0,88	11,42
24	1,00	12,98
24	1,25	16,22

## Technical characteristics

Standard length	from 1500 to 13500 mm
Effective width	750 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

## Technical possibilities

### Option

JI Aqua Smart	yes, only available in JI NL
---------------	------------------------------

## Load tables (in kN/m<sup>2</sup>)

## Static properties

tN [mm]	Weight (kg/m <sup>2</sup> )	Top flange in compression						Bottom flange in compression				
		Mc,Rk,F [kNm/m]	Mc,Rk,B [kNm/m]	I <sub>eff</sub> [cm <sup>4</sup> /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 <sub>eff</sub> [cm <sup>4</sup> /m]	Vw,Rk [kN/m]	Rw,Rk. A [kN/m]
0,75	9,73	7,70	7,78	169,55	50,11	37,11	11,05	7,78	7,70	175,29	50,11	50,11
0,88	11,42	9,60	9,58	203,69	80,04	51,00	15,35	9,58	9,60	212,37	80,04	80,04
1,00	12,98	11,35	11,27	235,76	103,83	65,39	19,86	11,27	11,35	242,64	103,83	103,83



## Permissible downward load (kN/m<sup>2</sup>) for span (m)

Number of fields	Thickness (mm)	Span (m)														
		4,40	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
Single L/200	0,75	1,61	1,40	1,24	1,09											
	0,88	1,93	1,69	1,49	1,31	1,17	1,04									
	1,00	2,23	1,95	1,72	1,52	1,35	1,21	1,08								
Double L/200	0,75	2,12	1,94	1,78	1,64	1,52	1,41	1,31	1,22	1,14	1,07	1,00				
	0,88	2,64	2,42	2,22	2,05	1,89	1,76	1,63	1,52	1,42	1,33	1,25	1,18	1,11	1,04	
	1,00	3,13	2,86	2,63	2,42	2,24	2,08	1,93	1,80	1,68	1,57	1,48	1,39	1,31	1,24	1,17
Multi L/200	0,75	2,33	2,16	2,01	1,88	1,75	1,64	1,47	1,33	1,20	1,09					
	0,88	2,99	2,77	2,57	2,39	2,21	1,97	1,77	1,59	1,44	1,30	1,19	1,08			
	1,00	3,62	3,35	3,10	2,88	2,56	2,28	2,05	1,84	1,66	1,51	1,37	1,25	1,14	1,05	

The above load is the total load in Ultimate Limit State (ULS) 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/m<sup>2</sup> or 1,50 kN/m.



## Permissible upward load (kN/m<sup>2</sup>) for span (m)

Number of fields	Thickness (mm)	Span (m)														
		4,40	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
Single L/150	0,75	2,14	1,94	1,70	1,51	1,34	1,20	1,07	0,97	0,87	0,79	0,72	0,66	0,60	0,55	0,50
	0,88	2,64	2,35	2,06	1,83	1,62	1,45	1,30	1,17	1,06	0,96	0,87	0,79	0,73	0,67	0,61
	1,00	3,06	2,68	2,36	2,09	1,86	1,66	1,49	1,34	1,21	1,09	1,00	0,91	0,83	0,76	0,70
Double L/150	0,75	2,12	1,94	1,78	1,64	1,52	1,41	1,31	1,22	1,14	1,07	1,00	0,94	0,89	0,84	0,79
	0,88	2,64	2,42	2,22	2,05	1,89	1,76	1,63	1,52	1,42	1,33	1,25	1,18	1,11	1,04	0,99
	1,00	3,13	2,86	2,63	2,42	2,24	2,08	1,93	1,80	1,68	1,57	1,48	1,39	1,31	1,24	1,17
Multi L/150	0,75	2,65	2,43	2,23	2,05	1,90	1,76	1,64	1,53	1,43	1,34	1,25	1,18	1,11	1,04	0,96
	0,88	3,31	3,02	2,78	2,56	2,37	2,19	2,04	1,90	1,78	1,66	1,56	1,47	1,37	1,26	1,16
	1,00	3,91	3,58	3,28	3,03	2,80	2,59	2,41	2,25	2,10	1,97	1,85	1,72	1,57	1,44	1,32

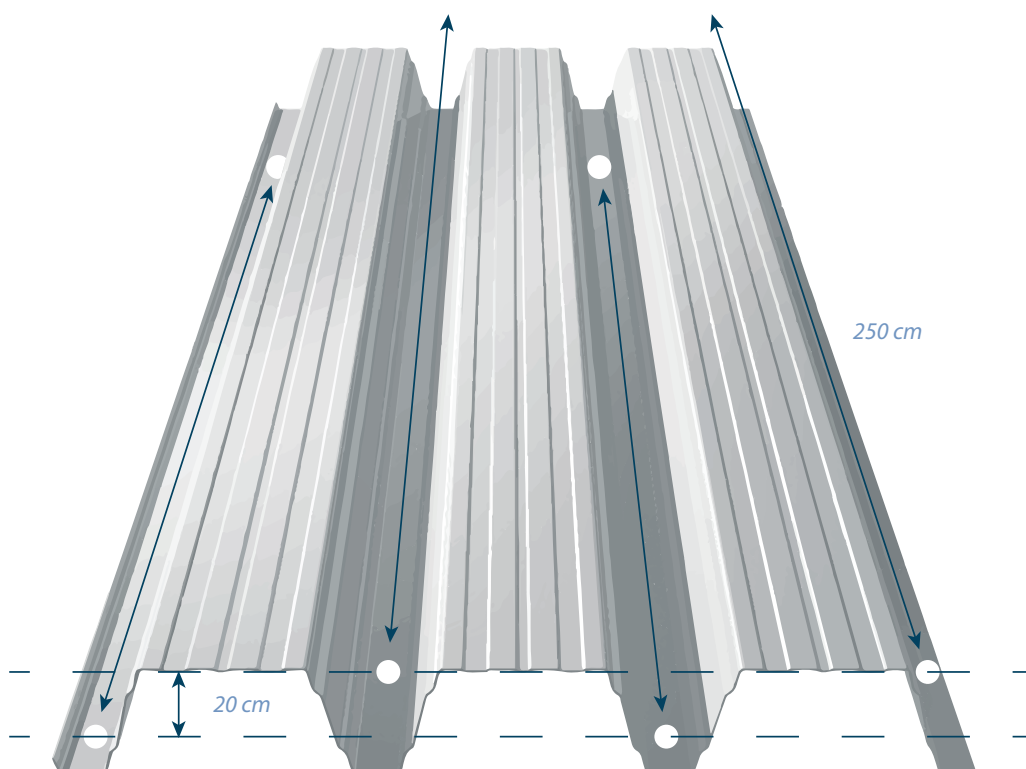
The above load is the total load in Ultimate Limit State (ULS) divided by 1,5.  
 Minimum support widths: 40 mm for end supports - 160 mm for intermediate supports

## 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 JI 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.