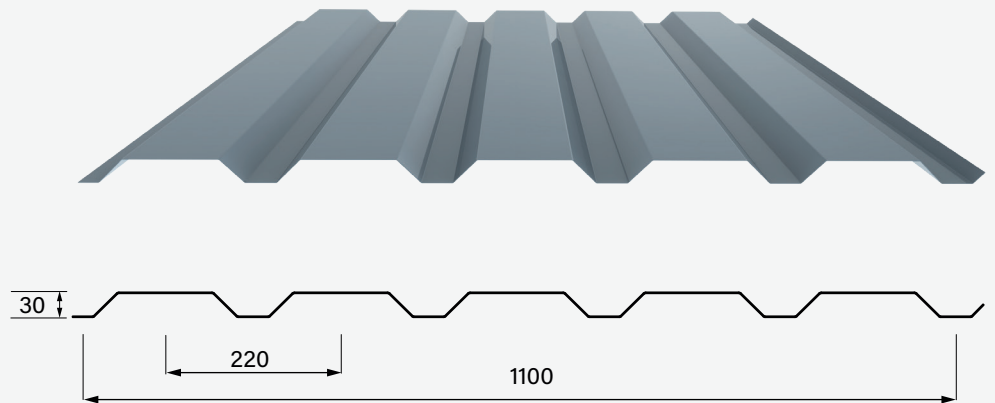


30/1100



Technical properties

Profile plate type	Steel thickness [mm]	Weight [kg/m ²]	I _{eff} [cm ⁴ /m]
30/1100	0.50	4.5	3.65
	0.63	5.6	5.20
	0.70	6.2	6.00
	0.75	6.7	6.60

Steel grade	S280GD, S320GD
Coatings	Colorcoat HPS200 Ultra®, Prisma® 65, Prisma® 40, Granite® HDX, Granite® HDS, Polyester, Wood grain platisol, Delft Unique Colour, Magnelis® ZM100, Magnelis® ZM120, Galvanised Z275, Interior coating, Aluzinc 185
Optional	Perforated
Dimensions	Standard 600 - 11,500
Length [mm]	Minimum 500 Maximum 13,000
Packaging	Max. number per package 75 off Max. weight per package 2,000kg

Certificates



Trapezoidal profiles

30/1100

Span table external wall profile

Deflection requirement	L/150
Steel grade	S320GD
Bearing	40mm
Consequence class (CC)	CC1

Maximum span [m] at specified wind load in kN/m².
The units used in the table above are based on Dutch norms.

Wind area I

Profile plate type	Thick-ness	Steel sheet	Terrain category 0 (coastal area)			Terrain category I (flat and horizontal area)			Terrain category II (area with isolated obstacles (trees, buildings))		
			$q_p = 1.55 \text{ kN/m}^2$ & $W_e + W_i = 1.79 \text{ kN/m}^2$			$q_p = 0.98 \text{ kN/m}^2$ & $W_e + W_i = 1.14 \text{ kN/m}^2$			$q_p = 0.77 \text{ kN/m}^2$ & $W_e + W_i = 0.90 \text{ kN/m}^2$		
			1 field	2 fields	3 fields	1 field	2 fields	3 fields	1 field	2 fields	3 fields
	[mm]	[kg/m ²]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	
30/1100	0.50	4.5	1.43	1.78	1.75	1.66	2.18	2.03	1.79	2.36	2.19
	0.63	5.6	1.57	2.05	1.92	1.82	2.40	2.23	1.97	2.59	2.41
	0.70	6.2	1.65	2.17	2.01	1.91	2.52	2.34	2.06	2.72	2.52
	0.75	6.7	1.71	2.24	2.08	1.98	2.61	2.42	2.13	2.81	2.61

Wind area II

Profile plate type	Thick-ness	Steel sheet	Terrain category 0 (coastal area)			Terrain category I (flat and horizontal area)			Terrain category II (area with isolated obstacles (trees, buildings))		
			$q_p = 1.29 \text{ kN/m}^2$ & $W_e + W_i = 1.5 \text{ kN/m}^2$			$q_p = 0.82 \text{ kN/m}^2$ & $W_e + W_i = 0.95 \text{ kN/m}^2$			$q_p = 0.65 \text{ kN/m}^2$ & $W_e + W_i = 0.75 \text{ kN/m}^2$		
			1 field	2 fields	3 fields	1 field	2 fields	3 fields	1 field	2 fields	3 fields
	[mm]	[kg/m ²]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	
30/1100	0.50	4.5	1.52	1.95	1.85	1.76	2.31	2.15	1.90	2.50	2.32
	0.63	5.6	1.66	2.19	2.03	1.93	2.54	2.36	2.08	2.75	2.54
	0.70	6.2	1.75	2.30	2.13	2.02	2.67	2.48	2.18	2.88	2.68
	0.75	6.7	1.81	2.38	2.21	2.09	2.76	2.56	2.26	2.98	2.77

Trapezoidal profiles

30/1100

Wind area III

Profile plate type	Thick-ness [mm]	Steel sheet [kg/m ²]	Terrain category I (flat and horizontal area)			Terrain category II (area with isolated obstacles (trees, buildings))		
			$q_p = 0.68 \text{ kN/m}^2$ & $W_e + W_i = 0.79 \text{ kN/m}^2$			$q_p = 0.53 \text{ kN/m}^2$ & $W_e + W_i = 0.62 \text{ kN/m}^2$		
			1 field [m]	2 fields [m]	3 fields [m]	1 field [m]	2 fields [m]	3 fields [m]
30/1100 & 30R/1100	0.50	4.5	1.87	2.47	2.29	2.02	2.67	2.48
	0.63	5.6	2.06	2.71	2.52	2.22	2.93	2.72
	0.70	6.2	2.16	2.84	2.64	2.33	3.08	2.86
	0.75	6.7	2.23	2.94	2.74	2.41	3.18	2.95

Principles

- Basis of structural design in accordance with NEN-EN 1990/NB
- Actions on structures in accordance with NEN-EN 1991-1-4/NB
- Span table for external wall profile