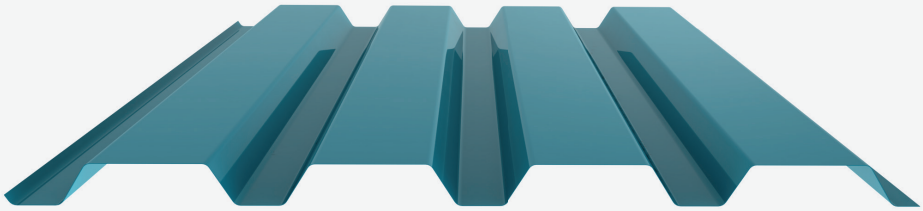
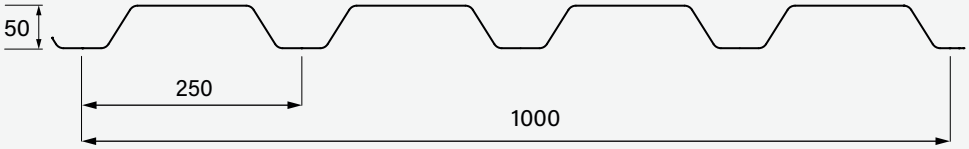
Trapezoidal profiles

50/1000





Technical properties

Profile plate type	Steel thickness [mm]	Weight [kg/m²]	I_{eff} [cm⁴/m]
50/1000	0.63	6.2	18.40
	0.70	6.9	21.20
	0.75	7.4	23.20
	0.88	8.6	28.80

Steel grade S280GD, S320GD

Coatings Colorcoat HPS200 Ultra®, Prisma® 65 + film, Prisma® 40 + film, Granite® HDX + film, Granite® HDS + film, Polyester + film, Wood grain plastisol + film, Delft Unique Color + film, Interior coating + film

Optional Perforated, anti-condensation felt

Dimensions Length [mm]

Standard	1,300 - 15,000
Minimum	500
Maximum	15,000

Packaging

Max. number per package	50 off
Max. weight per package	1,500kg

Certificates CE, ISO 9001 Quality Assurance Management, ISO 14001 Environmental Management, BES 6001 Responsible Sourcing

Standard dimensioning NEN-EN 14782

50/1000

Span table external wall profile

Deflection requirement	L/150
Steel grade	S320GD
Bearing	60mm
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 kN/m² & W_e + W_i = 1.79 kN/m²			q_p = 0.98 kN/m² & W_e + W_i = 1.14 kN/m²			q_p = 0.77 kN/m² & W_e + W_i = 0.90 kN/m²		
			1 field	2 fields	3 fields	1 field	2 fields	3 fields	1 field	2 fields	3 fields
	[mm]	[kg/m²]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]
50/1000	0.63	6.2	2.24	2.39	2.53	2.60	3.15	3.23	2.80	3.54	3.49
	0.70	6.9	2.35	2.73	2.91	2.72	3.49	3.39	2.94	3.92	3.66
	0.75	7.4	2.42	2.93	3.01	2.81	3.67	3.50	3.03	4.07	3.78
	0.88	8.6	2.60	3.28	3.23	3.02	4.05	3.76	3.26	4.38	4.06

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 kN/m² & W_e + W_i = 1.5 kN/m²			q_p = 0.82 kN/m² & W_e + W_i = 0.95 kN/m²			q_p = 0.65 kN/m² & W_e + W_i = 0.75 kN/m²		
			1 field	2 fields	3 fields	1 field	2 fields	3 fields	1 field	2 fields	3 fields
	[mm]	[kg/m²]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]
50/1000	0.63	6.2	2.37	2.67	2.94	2.75	3.44	3.42	2.97	3.86	3.70
	0.70	6.9	2.49	3.04	3.09	2.89	3.81	3.59	3.12	4.18	3.89
	0.75	7.4	2.57	3.20	3.19	2.98	3.99	3.71	3.22	4.31	4.01
	0.88	8.6	2.76	3.58	3.43	3.20	4.29	3.99	3.46	4.64	4.31

50/1000

Wind area III

Profile plate type	Thick-ness	Steel sheet	Terrain category I (flat and horizontal area)			Terrain category II (area with isolated obstacles (trees, buildings))		
			q_p = 0.68 kN/m² & W_e + W_i = 0.79 kN/m²			q_p = 0.53 kN/m² & W_e + W_i = 0.62 kN/m²		
			1 field	2 fields	3 fields	1 field	2 fields	3 fields
	[mm]	[kg/m²]	[m]	[m]	[m]	[m]	[m]	[m]
50/1000	0.63	6.2	2.93	3.78	3.65	3.17	4.25	3.95
	0.70	6.9	3.08	4.12	3.83	3.32	4.46	4.14
	0.75	7.4	3.17	4.26	3.95	3.43	4.60	4.27
	0.88	8.6	3.41	4.58	4.25	3.68	4.95	4.60

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