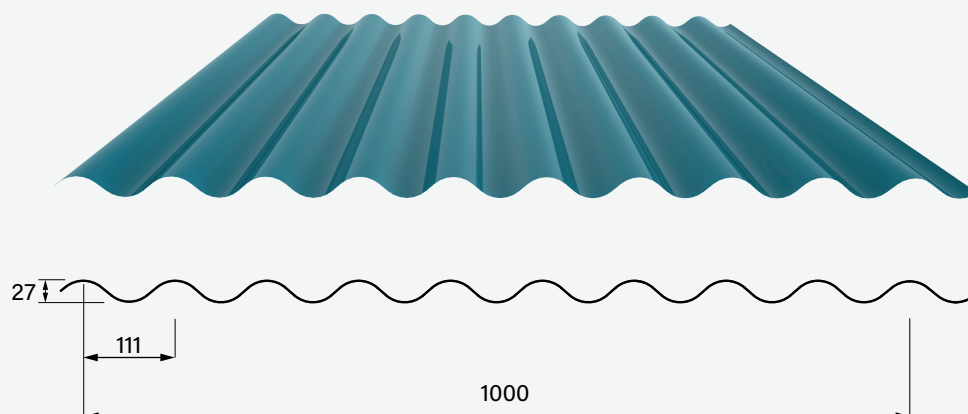


27/1000



Technical properties

Profile plate type	Steel thickness [mm]	Weight [kg/m ²]	I _{eff} [cm ⁴ /m]
27/1000	0.63	6.2	5.90
	0.70	6.9	6.60
	0.75	7.4	7.10

Steel grade

S280GD, S320GD

Coatings

Colorcoat HPS200 Ultra®, Prisma® 65, Prisma® 40, Granite® HDX, Granite® HDS, Polyester, Wood grain platisol, Delft Unique Color, Interior coating

Optional

Perforated, anti-condensation felt

Dimensions

Standard 500 - 10,000

Length [mm]

Minimum 330

Maximum 14,000

Packaging

Max. number per package 50 off

Max. weight per package 2,000kg

Certificates



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))		
			$q_p = 1.55 \text{ kN/m}^2$ & $W_e + W_i = 1.79 \text{ kN/m}^2$			$q_p = 0.98 \text{ kN/m}^2$ & $W_e + W_i = 1.14 \text{ kN/m}^2$			$q_p = 0.77 \text{ kN/m}^2$ & $W_e + W_i = 0.90 \text{ kN/m}^2$		
			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]	[m]
27/1000	0.63	6.2	1.49	2.00	1.86	1.74	2.33	2.16	1.88	2.52	2.34
	0.70	6.9	1.55	2.07	1.92	1.80	2.41	2.24	1.95	2.61	2.42
	0.75	7.4	1.58	2.12	1.97	1.84	2.47	2.29	1.99	2.67	2.46

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]	[m]
27/1000	0.63	6.2	1.58	2.12	1.97	1.84	2.47	2.29	1.99	2.67	2.48
	0.70	6.9	1.64	2.20	2.04	1.91	2.56	2.37	2.06	2.77	2.57
	0.75	7.4	1.68	2.25	2.09	1.95	2.62	2.43	2.83	2.83	2.63

Sinusoidal profiles

27/1000

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))		
			$q_p = 0.68 \text{ kN/m}^2$ & $W_e + W_i = 0.79 \text{ kN/m}^2$			$q_p = 0.53 \text{ kN/m}^2$ & $W_e + W_i = 0.62 \text{ kN/m}^2$		
			1 field	2 fields	3 fields	1 field	2 fields	3 fields
	[mm]	[kg/m ²]	[m]	[m]	[m]	[m]	[m]	[m]
27/1000	0.63	6.2	1.97	2.64	2.44	2.13	2.85	2.65
	0.70	6.9	2.04	2.73	2.53	2.20	2.95	2.74
	0.75	7.4	2.08	2.79	2.59	2.25	3.02	2.80

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