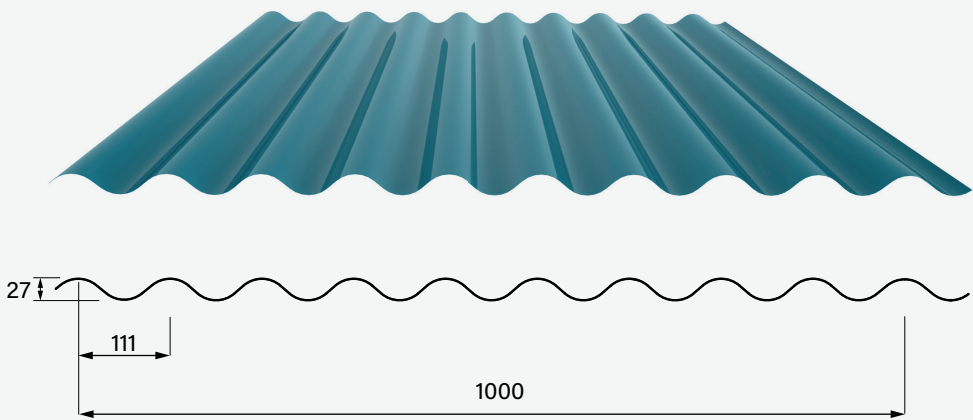


27/1000



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 plastisol, 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	   		
Standard dimensioning	NEN-EN 14782		

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