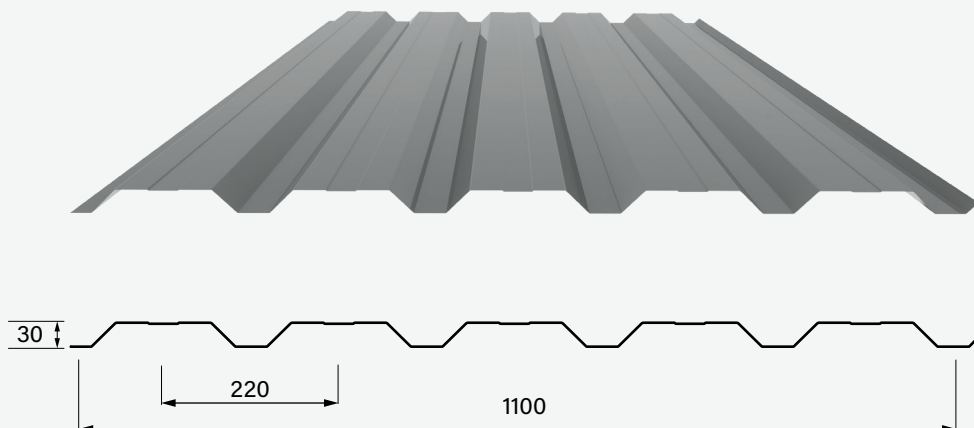


30R/1100



Technical properties

Profile plate type	Steel thickness [mm]	Weight [kg/m ²]	I _{eff} [cm ⁴ /m]
30R/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



30R/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]	
30R/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]	
30R/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

30R/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]
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