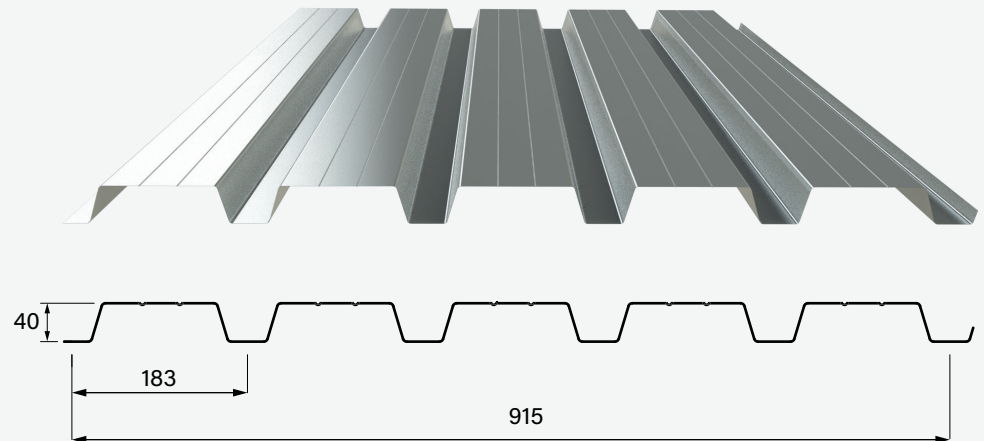


# 40R/915



## Technical properties

Profile plate type	Steel thickness [mm]	Weight [kg/m <sup>2</sup> ]	I <sub>eff</sub> [cm <sup>4</sup> /m]
40R/915	0.63	6.8	13.90
	0.70	7.5	16.00
	0.75	8.0	17.60
	0.88	9.4	21.90

<b>Steel grade</b>	S280GD, S320GD
<b>Coatings</b>	Colorcoat HPS200 Ultra®, Prisma® 65, Prisma® 40, Granite® HDX, Granite® HDS, Polyester, Wood grain platisol, Delft Unique Color, Interior coating
<b>Optional</b>	Perforated, anti-condensation felt
<b>Dimensions</b>	Standard 1,300 - 15,000
<b>Length [mm]</b>	Minimum 500 Maximum 15,000
<b>Packaging</b>	Max. number per package 35 off Max. weight per package 1,500kg

**Certificates**



# Trapezoidal profiles

# 40R/915

## 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/m<sup>2</sup>.

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 <sup>2</sup> ]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	
40R/915	0.63	6.8	2.04	2.51	2.53	2.37	3.14	2.94	2.56	3.42	3.18
	0.70	7.5	2.14	2.70	2.66	2.48	3.32	3.09	2.68	3.59	3.34
	0.75	8.0	2.21	2.84	2.74	2.56	3.43	3.19	2.77	3.71	3.44
	0.88	9.4	2.40	3.21	2.98	2.79	3.73	3.47	3.01	4.04	3.75

## 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 <sup>2</sup> ]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	
40R/915	0.63	6.8	2.16	2.74	2.68	2.51	3.36	3.12	2.71	3.63	3.37
	0.70	7.5	2.27	2.95	2.82	2.63	3.52	3.27	2.84	3.81	3.54
	0.75	8.0	2.34	3.10	2.91	2.72	3.64	3.38	2.93	3.93	3.65
	0.88	9.4	2.55	3.41	3.16	2.95	3.96	3.68	3.19	4.28	3.98

# Trapezoidal profiles

# 40R/915

## Wind area III

Profile plate type	Thick-ness [mm]	Steel sheet [kg/m <sup>2</sup> ]	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]
40R/915	0.63	6.8	2.67	3.58	3.32	2.89	3.87	3.59
	0.70	7.5	2.81	3.76	3.49	3.03	4.06	3.77
	0.75	8.0	2.89	3.88	3.60	3.13	4.19	3.90
	0.88	9.4	3.15	4.22	3.92	3.40	4.57	4.24

## 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