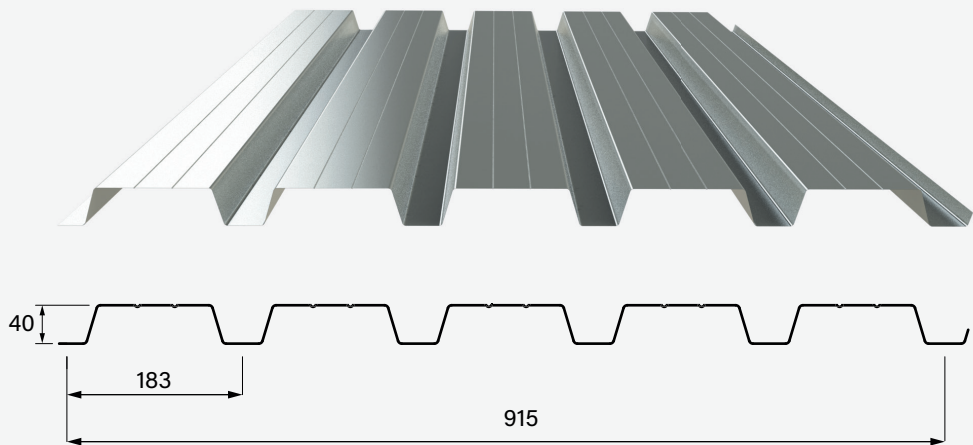


# 40R/915



## 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                                 |

|                       |                                                                                                                                                                                                                                                                                                                                                                                                     |                |  |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|
| 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                                                                                                                                                                                                                                                                                                                                                                                            | 1,300 - 15,000 |  |
| Length [mm]           | Minimum                                                                                                                                                                                                                                                                                                                                                                                             | 500            |  |
|                       | Maximum                                                                                                                                                                                                                                                                                                                                                                                             | 15,000         |  |
| Packaging             | Max. number per package                                                                                                                                                                                                                                                                                                                                                                             | 35 off         |  |
|                       | Max. weight per package                                                                                                                                                                                                                                                                                                                                                                             | 1,500kg        |  |
| Certificates          | <div><div></div><div></div><div></div><div></div></div> |                |  |
| Standard dimensioning | NEN-EN 14782                                                                                                                                                                                                                                                                                                                                                                                        |                |  |

## 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-<br>ness | Steel sheet          | Terrain category 0<br>(coastal area)                                    |          |          | Terrain category I<br>(flat and horizontal area)                        |          |          | Terrain category II (area<br>with isolated obstacles<br>(trees, buildings)) |          |          |
|--------------------|----------------|----------------------|-------------------------------------------------------------------------|----------|----------|-------------------------------------------------------------------------|----------|----------|-----------------------------------------------------------------------------|----------|----------|
|                    |                |                      | $q_p = 1.55 \text{ kN/m}^2 \text{ \& } W_e + W_i = 1.79 \text{ kN/m}^2$ |          |          | $q_p = 0.98 \text{ kN/m}^2 \text{ \& } W_e + W_i = 1.14 \text{ kN/m}^2$ |          |          | $q_p = 0.77 \text{ kN/m}^2 \text{ \& } W_e + W_i = 0.90 \text{ kN/m}^2$     |          |          |
|                    |                |                      | 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]      | [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-<br>ness | Steel sheet          | Terrain category 0<br>(coastal area)                                   |          |          | Terrain category I<br>(flat and horizontal area)                        |          |          | Terrain category II (area<br>with isolated obstacles<br>(trees, buildings)) |          |          |
|--------------------|----------------|----------------------|------------------------------------------------------------------------|----------|----------|-------------------------------------------------------------------------|----------|----------|-----------------------------------------------------------------------------|----------|----------|
|                    |                |                      | $q_p = 1.29 \text{ kN/m}^2 \text{ \& } W_e + W_i = 1.5 \text{ kN/m}^2$ |          |          | $q_p = 0.82 \text{ kN/m}^2 \text{ \& } W_e + W_i = 0.95 \text{ kN/m}^2$ |          |          | $q_p = 0.65 \text{ kN/m}^2 \text{ \& } W_e + W_i = 0.75 \text{ kN/m}^2$     |          |          |
|                    |                |                      | 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]      | [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-<br>ness | Steel sheet          | Terrain category I<br>(flat and horizontal area)                |          |          | Terrain category II (area with isolated<br>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 <sup>2</sup> ] | [m]                                                             | [m]      | [m]      | [m]                                                                      | [m]      | [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