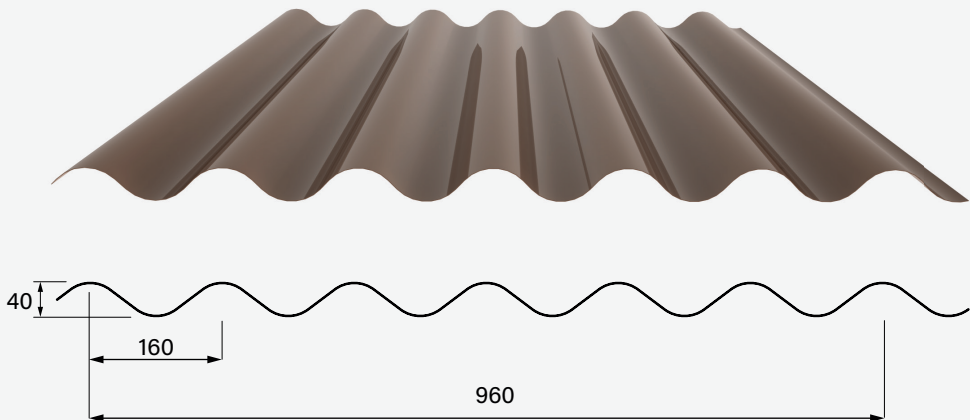


# 40/960



### Technical properties

| Profile plate type | Steel thickness [mm] | Weight [kg/m <sup>2</sup> ] | I <sub>eff</sub> [cm <sup>4</sup> /m] |
|--------------------|----------------------|-----------------------------|---------------------------------------|
| 40/960             | 0.63                 | 6.4                         | 13.80                                 |
|                    | 0.70                 | 7.2                         | 16.10                                 |
|                    | 0.75                 | 7.7                         | 17.80                                 |

|                       |                                                                                                                                                                                                                                                                                                                                                         |              |  |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--|
| 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          | <div></div> |              |  |
| 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/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)) |          |          |
|--------------------|----------------|----------------------|----------------------------------------------------------------|----------|----------|----------------------------------------------------------------|----------|----------|-----------------------------------------------------------------------------|----------|----------|
|                    |                |                      | $q_p = 1.55 \text{ kN/m}^2 \& W_e + W_i = 1.79 \text{ kN/m}^2$ |          |          | $q_p = 0.98 \text{ kN/m}^2 \& W_e + W_i = 1.14 \text{ kN/m}^2$ |          |          | $q_p = 0.77 \text{ kN/m}^2 \& W_e + W_i = 0.90 \text{ kN/m}^2$              |          |          |
|                    |                |                      | 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]      | [m]      |
| 40/960             | 0.63           | 6.4                  | 1.95                                                           | 2.57     | 2.43     | 2.27                                                           | 3.05     | 2.83     | 2.46                                                                        | 3.30     | 3.06     |
|                    | 0.70           | 7.2                  | 2.02                                                           | 2.71     | 2.52     | 2.36                                                           | 3.16     | 2.93     | 2.55                                                                        | 3.42     | 3.17     |
|                    | 0.75           | 7.7                  | 2.07                                                           | 2.78     | 2.58     | 2.41                                                           | 3.24     | 3.00     | 2.61                                                                        | 3.50     | 3.25     |

## 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)) |          |          |
|--------------------|----------------|----------------------|---------------------------------------------------------------|----------|----------|----------------------------------------------------------------|----------|----------|-----------------------------------------------------------------------------|----------|----------|
|                    |                |                      | $q_p = 1.29 \text{ kN/m}^2 \& W_e + W_i = 1.5 \text{ kN/m}^2$ |          |          | $q_p = 0.82 \text{ kN/m}^2 \& W_e + W_i = 0.95 \text{ kN/m}^2$ |          |          | $q_p = 0.65 \text{ kN/m}^2 \& W_e + W_i = 0.75 \text{ kN/m}^2$              |          |          |
|                    |                |                      | 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]      | [m]      |
| 40/960             | 0.63           | 6.4                  | 2.07                                                          | 2.78     | 2.58     | 2.41                                                           | 3.23     | 3.00     | 2.61                                                                        | 3.50     | 3.24     |
|                    | 0.70           | 7.2                  | 2.15                                                          | 2.88     | 2.67     | 2.50                                                           | 3.35     | 3.11     | 2.70                                                                        | 3.63     | 3.36     |
|                    | 0.75           | 7.7                  | 2.20                                                          | 2.95     | 2.74     | 2.56                                                           | 3.43     | 3.18     | 2.77                                                                        | 3.71     | 3.44     |

## 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]      |
| 40/960             | 0.63           | 6.4                  | 2.57                                                            | 3.45     | 3.20     | 2.78                                                                     | 3.73     | 3.46     |
|                    | 0.70           | 7.2                  | 2.67                                                            | 3.58     | 3.32     | 2.89                                                                     | 3.87     | 3.59     |
|                    | 0.75           | 7.7                  | 2.73                                                            | 3.66     | 3.40     | 2.95                                                                     | 3.96     | 3.68     |

## 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