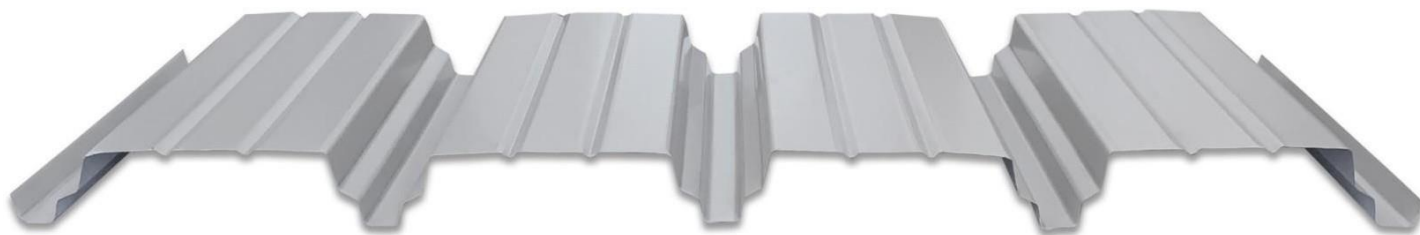
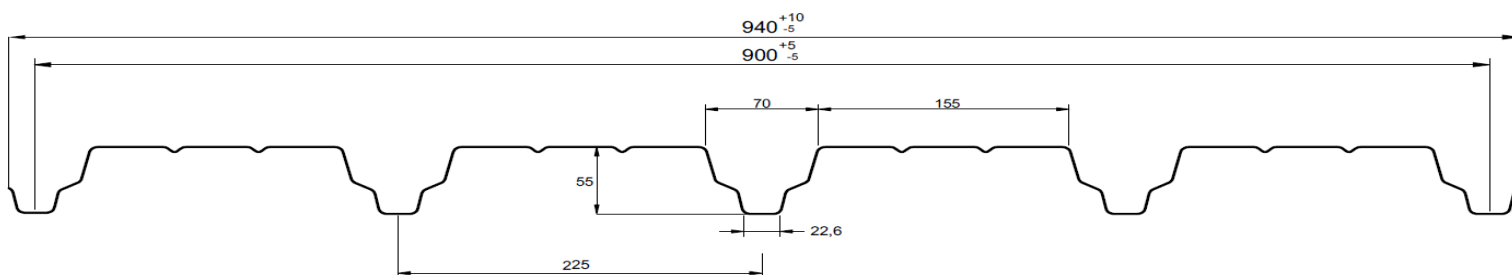


RM55 – DECK

DECK PROFILE - CE Marking according to EN 14782



Face B



Face A



Base material

Structural Steel S250GD e S280GD/S320GD+Z (EN10346) Other steel grades on request

Type of protection

Galvanised (EN10346)

Coating

Polyester Upper Side (25 µm) and Primary Lower Side (5/7 µm) Other steel grades on request

Reaction to Fire - Class A1

Structural Steel S250GD

| Thickness | Mass | | Upper Compression Flange | | Lower flange in compression | |
|-----------|-------|-------------------|--------------------------|--------------------|-----------------------------|--------------------|
| | | | Moment of Inertia I | Resistant module W | Moment of Inertia I | Resistant module W |
| mm | kg/ml | kg/m ² | cm ⁴ | cm ³ | cm ⁴ | cm ³ |
| 0,7 | 6,87 | 7,63 | 32,72 | 8,30 | 15,77 | 5,33 |
| 0,75 | 7,36 | 8,18 | 35,02 | 8,89 | 16,92 | 5,71 |
| 0,8 | 7,85 | 8,72 | 37,31 | 9,47 | 18,45 | 6,09 |
| 1,0 | 9,81 | 10,90 | 46,43 | 11,78 | 23,99 | 7,61 |
| 1,2 | 11,78 | 13,08 | 55,48 | 14,08 | 29,77 | 9,13 |

LOADS AS A FUNCTION OF SUPPORT SPAN

| Thickness | DISTANCE IN INVERTED COVER POSITION (m) | | | | | | | | | | | | | | | |
|-----------|---|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| | STEEL 250GD | | | | | | | | | | | | | | | |
| (mm) | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.7 | 1.8 | 1.9 | 2.0 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 |
| 0.7 | 10,65 | 8,80 | 7,36 | 5,79 | 4,64 | 3,77 | 3,11 | 2,59 | 2,18 | 1,85 | 1,59 | 1,37 | 1,19 | 1,05 | 0,92 | 0,81 |
| 0,75 | 11,41 | 9,43 | 7,89 | 6,21 | 4,97 | 4,04 | 3,33 | 2,78 | 2,34 | 1,99 | 1,71 | 1,47 | 1,28 | 1,12 | 0,99 | 0,87 |
| 0.8 | 12,17 | 10,06 | 8,45 | 6,77 | 5,42 | 4,41 | 3,63 | 3,03 | 2,55 | 2,17 | 1,86 | 1,61 | 1,40 | 1,22 | 1,08 | 0,95 |
| 1.0 | 15,22 | 12,57 | 10,57 | 8,81 | 7,05 | 5,73 | 4,72 | 3,94 | 3,32 | 2,82 | 2,42 | 2,09 | 1,82 | 1,59 | 1,40 | 1,24 |
| 1.2 | 18,26 | 15,09 | 12,68 | 10,80 | 8,75 | 7,11 | 5,86 | 4,89 | 4,12 | 3,50 | 3,00 | 2,59 | 2,25 | 1,97 | 1,74 | 1,54 |

| Thickness | DISTANCE IN INVERTED COVER POSITION (m) | | | | | | | | | | | | | | | |
|-----------|---|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| | STEEL 250GD | | | | | | | | | | | | | | | |
| (mm) | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.7 | 1.8 | 1.9 | 2.0 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 |
| 0.7 | 13,87 | 11,46 | 9,63 | 8,21 | 7,08 | 6,16 | 5,42 | 4,80 | 4,28 | 3,84 | 3,47 | 3,14 | 2,87 | 2,51 | 2,21 | 1,96 |
| 0,75 | 14,86 | 12,28 | 10,32 | 8,79 | 7,58 | 6,60 | 5,80 | 5,14 | 4,59 | 4,12 | 3,71 | 3,37 | 3,07 | 2,70 | 2,37 | 2,10 |
| 0.8 | 15,85 | 13,10 | 11,01 | 9,38 | 8,09 | 7,04 | 6,19 | 5,48 | 4,89 | 4,39 | 3,96 | 3,59 | 3,27 | 2,94 | 2,59 | 2,29 |
| 1.0 | 19,81 | 16,37 | 13,76 | 11,72 | 10,11 | 8,81 | 7,74 | 6,86 | 6,11 | 5,49 | 4,95 | 4,49 | 4,09 | 3,75 | 3,36 | 2,98 |
| 1.2 | 23,77 | 19,65 | 16,51 | 14,07 | 12,13 | 10,57 | 9,29 | 8,23 | 7,34 | 6,59 | 5,94 | 5,39 | 4,91 | 4,49 | 4,13 | 3,69 |

| Thickness | DISTANCE IN INVERTED COVER POSITION (m) | | | | | | | | | | | | | | | |
|-----------|---|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| | STEEL 250GD | | | | | | | | | | | | | | | |
| (mm) | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.7 | 1.8 | 1.9 | 2.0 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 |
| 0.7 | 13,31 | 11,00 | 9,25 | 7,88 | 6,79 | 5,92 | 5,20 | 4,61 | 4,11 | 3,52 | 3,02 | 2,61 | 2,27 | 1,98 | 1,75 | 1,55 |
| 0,75 | 14,26 | 11,79 | 9,91 | 8,44 | 7,28 | 6,34 | 5,57 | 4,94 | 4,40 | 3,78 | 3,24 | 2,80 | 2,43 | 2,13 | 1,87 | 1,66 |
| 0.8 | 15,22 | 12,57 | 10,57 | 9,00 | 7,76 | 6,76 | 5,94 | 5,26 | 4,70 | 4,12 | 3,53 | 3,05 | 2,65 | 2,32 | 2,04 | 1,81 |
| 1.0 | 19,02 | 15,72 | 13,21 | 11,25 | 9,70 | 8,45 | 7,43 | 6,58 | 5,87 | 5,27 | 4,59 | 3,97 | 3,45 | 3,02 | 2,66 | 2,35 |
| 1.2 | 22,82 | 18,86 | 15,85 | 13,50 | 11,64 | 10,14 | 8,92 | 7,90 | 7,04 | 6,32 | 5,70 | 4,92 | 4,28 | 3,75 | 3,30 | 2,92 |

Data:

E= 210000 MPa || Re = 250 MPa || z ≤ l/200

LOADS AS A FUNCTION OF SUPPORT SPAN

| Structural Steel S280GD/S320GD | | | | | | |
|--------------------------------|-------|-------------------|--------------------------|--------------------|-----------------------------|--------------------|
| Thickness | Mass | | Upper Compression Flange | | Lower flange in compression | |
| | | | Moment of Inertia I | Resistant module W | Moment of Inertia I | Resistant module W |
| mm | kg/ml | kg/m ² | cm ⁴ | cm ³ | cm ⁴ | cm ³ |
| 0,7 | 6,87 | 7,63 | 32,72 | 8,30 | 15,46 | 5,33 |
| 0,75 | 7,36 | 8,18 | 35,02 | 8,89 | 16,92 | 5,71 |
| 0,8 | 7,85 | 8,72 | 37,31 | 9,47 | 18,07 | 6,09 |
| 1,0 | 9,81 | 10,90 | 46,17 | 11,72 | 23,48 | 7,61 |
| 1,2 | 11,78 | 13,08 | 55,41 | 14,06 | 29,12 | 9,13 |

| Thickness | DISTANCE IN INVERTED COVER POSITION (m) | | | | | | | | | | | | | | | |
|-----------|---|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| | STEEL 280GD/320GD | | | | | | | | | | | | | | | |
| (mm) | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.7 | 1.8 | 1.9 | 2.0 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 |
| 0.7 | 11,93 | 9,37 | 7,22 | 5,68 | 4,54 | 3,70 | 3,04 | 2,54 | 2,14 | 1,82 | 1,56 | 1,35 | 1,17 | 1,02 | 0,90 | 0,80 |
| 0,75 | 12,78 | 10,25 | 7,89 | 6,21 | 4,97 | 4,04 | 3,33 | 2,78 | 2,34 | 1,99 | 1,71 | 1,47 | 1,28 | 1,12 | 0,99 | 0,87 |
| 0.8 | 13,63 | 10,95 | 8,43 | 6,63 | 5,31 | 4,32 | 3,56 | 2,97 | 2,50 | 2,12 | 1,82 | 1,57 | 1,37 | 1,20 | 1,05 | 0,93 |
| 1.0 | 17,04 | 14,08 | 10,96 | 8,65 | 6,90 | 5,61 | 4,62 | 3,85 | 3,25 | 2,76 | 2,37 | 2,04 | 1,78 | 1,56 | 1,37 | 1,21 |
| 1.2 | 20,45 | 16,90 | 13,59 | 10,69 | 8,56 | 6,96 | 5,73 | 4,78 | 4,03 | 3,42 | 2,93 | 2,54 | 2,20 | 1,93 | 1,70 | 1,50 |

| Thickness | DISTANCE IN INVERTED COVER POSITION (m) | | | | | | | | | | | | | | | |
|-----------|---|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| | STEEL 280GD/320GD | | | | | | | | | | | | | | | |
| (mm) | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.7 | 1.8 | 1.9 | 2.0 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 |
| 0.7 | 15,53 | 12,84 | 10,79 | 9,19 | 7,92 | 6,90 | 6,07 | 5,37 | 4,79 | 4,30 | 3,75 | 3,24 | 2,82 | 2,45 | 2,17 | 1,92 |
| 0,75 | 16,64 | 13,75 | 11,56 | 9,85 | 8,49 | 7,40 | 6,50 | 5,76 | 5,14 | 4,61 | 2,10 | 3,54 | 3,08 | 2,70 | 2,37 | 2,10 |
| 0.8 | 17,75 | 14,67 | 12,33 | 10,50 | 9,06 | 7,89 | 6,93 | 6,14 | 5,48 | 4,92 | 4,38 | 3,78 | 3,29 | 2,88 | 2,53 | 2,24 |
| 1.0 | 22,19 | 18,34 | 15,41 | 13,13 | 11,32 | 9,86 | 8,67 | 7,68 | 6,85 | 6,15 | 5,55 | 4,91 | 4,27 | 3,74 | 3,29 | 2,91 |
| 1.2 | 26,63 | 22,01 | 18,49 | 15,76 | 13,58 | 11,83 | 10,40 | 9,21 | 8,22 | 7,38 | 6,66 | 6,04 | 5,30 | 4,64 | 4,08 | 3,61 |

| Thickness | DISTANCE IN INVERTED COVER POSITION (m) | | | | | | | | | | | | | | | |
|-----------|---|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| | STEEL 280GD/320GD | | | | | | | | | | | | | | | |
| (mm) | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.7 | 1.8 | 1.9 | 2.0 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 |
| 0.7 | 14,91 | 12,32 | 10,35 | 8,82 | 7,61 | 6,63 | 5,78 | 4,82 | 4,06 | 3,45 | 2,96 | 2,56 | 2,22 | 1,95 | 1,71 | 1,52 |
| 0,75 | 15,98 | 13,20 | 11,09 | 9,45 | 8,15 | 7,10 | 6,24 | 5,27 | 4,44 | 3,78 | 3,24 | 2,80 | 2,43 | 2,13 | 1,87 | 1,66 |
| 0.8 | 17,04 | 14,08 | 11,83 | 10,08 | 8,69 | 7,57 | 6,66 | 5,63 | 4,74 | 4,03 | 3,46 | 2,99 | 2,60 | 2,27 | 2,00 | 1,77 |
| 1.0 | 21,30 | 17,60 | 14,79 | 12,60 | 10,87 | 9,47 | 8,32 | 7,31 | 6,16 | 5,24 | 4,49 | 3,88 | 3,37 | 2,95 | 2,60 | 2,30 |
| 1.2 | 25,56 | 21,13 | 17,75 | 15,13 | 13,04 | 11,36 | 9,98 | 8,84 | 7,64 | 6,50 | 5,57 | 4,81 | 4,19 | 3,66 | 3,22 | 2,85 |

The values presented (kN/m²) are the responsibility of Rede Moderna, which may change the specifications.

Data:
E= 210000 MPa || Re = 280/320 MPa || z ≤ l/200