

SCOPE

Self-supporting metal sheet for external walls (horizontally or vertically laid) made from metallic coated steel sheet with or without additional organic coatings.

MATERIAL (Steel)

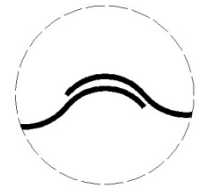
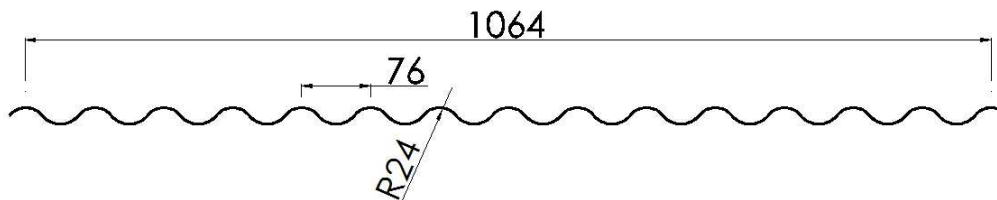
| CHARACTERISTIC | STAND. REF. |
|-----------------------|-------------|
| Dimensional tolerance | EN 10143 |
| Steel | EN 10346 |
| Organic coating | EN 10169 |

| | Thickness (mm) | | | | |
|--------------------------------------|----------------|-------|-------|-------|-------|
| | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 |
| Weight (kg/m ²) | 5,53 | 6,46 | 6,92 | 7,38 | 9,22 |
| I _g (cm ⁴ /ml) | 2,311 | 2,723 | 2,930 | 3,136 | 3,961 |
| W1 (cm ³ /ml) | 2,485 | 2,913 | 3,125 | 3,336 | 4,170 |
| W2 (cm ³ /ml) | 2,485 | 2,913 | 3,125 | 3,336 | 4,170 |


GEOMETRICAL CHARACTERISTICS


| CHARACTERISTIC | VALUE | UNIT | TOLERANCE |
|--|--|------|---|
| Depth of profile (h) | 18 | mm | --- |
| Depth of stiffeners | --- | mm | --- |
| Pitch | 76 | mm | --- |
| Widths of crown and valley (b ₁ ,b ₂) | (---,---) | mm | --- |
| Cover width (w) | 1.064 | mm | --- |
| Radius of bends (r) | --- | mm | --- |
| Deviation from straightness (δ) | --- | mm | --- |
| Deviation from squareness (s) | --- | mm | --- |
| Length (l) | According to order. ⁽¹⁾ | mm | l ≤ 3.000 mm +10,0/-5,0 l > 3.000 mm + 20,0/-5,0 |
| Deviation of side lap (D) | ≤ tolerance | mm | --- |
| Curve radius and angles | --- | ° | --- |
| Reaction to fire | Class A1 ⁽²⁾ / Class C-s3,d0 ⁽³⁾ | | |
| ⁽¹⁾ Maximum length: 14.000 mm; Minimum length: 1.800 mm | | | |
| ⁽²⁾ Class A1: According to commission decision 2010/737/UE | | | |
| ⁽³⁾ Class C-s3,d0: According to commission decision 2010/737/UE for Plastisol PVC coating | | | |


 07
 EN 14782:2006

OVERLAP DETAIL

SECTION DETAIL

3D DETAIL


LOAD TABLES (daN/m²) – Limitation of deflection: L/200


|  SPAN (m) | POSITIVE LOADS | | | | | NEGATIVE LOADS | | | | |
|---|----------------|------|------|------|------|----------------|------|------|------|------|
| | Thickness (mm) | | | | | | | | | |
| | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 |
| 1,00 | 186 | 220 | 236 | | | 186 | 220 | 236 | | |
| 1,25 | 95 | 112 | 121 | 129 | 164 | 95 | 112 | 121 | 129 | 164 |
| 1,50 | 55 | 65 | 70 | 75 | 95 | 55 | 65 | 70 | 75 | 95 |
| 1,75 | | | | | 60 | | | | | 60 |

|  SPAN (m) | POSITIVE LOADS | | | | | NEGATIVE LOADS | | | | |
|---|----------------|------|------|------|------|----------------|------|------|------|------|
| | Thickness (mm) | | | | | | | | | |
| | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 |
| 1,50 | 133 | 156 | 168 | 180 | 227 | 133 | 156 | 168 | 180 | 227 |
| 1,75 | 84 | 98 | 106 | 113 | 143 | 84 | 98 | 106 | 113 | 143 |
| 2,00 | 56 | 66 | 71 | 76 | 96 | 56 | 66 | 71 | 76 | 96 |
| 2,25 | | | | 53 | 67 | | | | 53 | 67 |


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PERFORATED STEEL
LOAD TABLES (daN/m²) – Limitation of deflection: L/200
R2T3,5 (29,61%)

|  SPAN (m) | POSITIVE LOADS | | | | | NEGATIVE LOADS | | | | |
|---|----------------|------|------|------|------|----------------|------|------|------|------|
| | Thickness (mm) | | | | | | | | | |
| | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 |
| 1,00 | 131 | 155 | 166 | 178 | 225 | 131 | 155 | 166 | 178 | 225 |
| 1,25 | 67 | 79 | 85 | 91 | 115 | 67 | 79 | 85 | 91 | 115 |
| 1,50 | | | | 53 | 67 | | | | 53 | 67 |
| 1,75 | | | | | | | | | | |


|  SPAN (m) | POSITIVE LOADS | | | | | NEGATIVE LOADS | | | | |
|---|----------------|------|------|------|------|----------------|------|------|------|------|
| | Thickness (mm) | | | | | | | | | |
| | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 |
| 1,25 | 161 | 190 | 205 | 219 | | 161 | 190 | 205 | 219 | |
| 1,50 | 93 | 110 | 118 | 127 | 160 | 93 | 110 | 118 | 127 | 160 |
| 1,75 | 59 | 69 | 75 | 80 | 101 | 59 | 69 | 75 | 80 | 101 |
| 2,00 | | | | 53 | 68 | | | | 53 | 68 |


R2T4 (22,67%)

|  SPAN (m) | POSITIVE LOADS | | | | | NEGATIVE LOADS | | | | |
|---|----------------|------|------|------|------|----------------|------|------|------|------|
| | Thickness (mm) | | | | | | | | | |
| | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 |
| 1,00 | 144 | 170 | 183 | 196 | 247 | 144 | 170 | 183 | 196 | 247 |
| 1,25 | 74 | 87 | 94 | 100 | 126 | 74 | 87 | 94 | 100 | 126 |
| 1,50 | | 50 | 54 | 58 | 73 | | 50 | 54 | 58 | 73 |
| 1,75 | | | | | | | | | | |

|  SPAN (m) | POSITIVE LOADS | | | | | NEGATIVE LOADS | | | | |
|---|----------------|------|------|------|------|----------------|------|------|------|------|
| | Thickness (mm) | | | | | | | | | |
| | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 |
| 1,25 | 177 | 209 | 225 | 241 | | 177 | 209 | 225 | 241 | |
| 1,50 | 103 | 121 | 130 | 139 | 176 | 103 | 121 | 130 | 139 | 176 |
| 1,75 | 65 | 76 | 82 | 88 | 111 | 65 | 76 | 82 | 88 | 111 |
| 2,00 | | 51 | 55 | 59 | 74 | | 51 | 55 | 59 | 74 |
| 2,25 | | | | | 52 | | | | | 52 |


R3T6 (22,67%)


|  SPAN (m) | POSITIVE LOADS | | | | | NEGATIVE LOADS | | | | |
|---|----------------|------|------|------|------|----------------|------|------|------|------|
| | Thickness (mm) | | | | | | | | | |
| | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 |
| 1,00 | 144 | 170 | 183 | 196 | 247 | 144 | 170 | 183 | 196 | 247 |
| 1,25 | 74 | 87 | 94 | 100 | 126 | 74 | 87 | 94 | 100 | 126 |
| 1,50 | | 50 | 54 | 58 | 73 | | 50 | 54 | 58 | 73 |
| 1,75 | | | | | | | | | | |

|  SPAN (m) | POSITIVE LOADS | | | | | NEGATIVE LOADS | | | | |
|---|----------------|------|------|------|------|----------------|------|------|------|------|
| | Thickness (mm) | | | | | | | | | |
| | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 |
| 1,25 | 177 | 209 | 225 | 241 | | 177 | 209 | 225 | 241 | |
| 1,50 | 103 | 121 | 130 | 139 | 176 | 103 | 121 | 130 | 139 | 176 |
| 1,75 | 65 | 76 | 82 | 88 | 111 | 65 | 76 | 82 | 88 | 111 |
| 2,00 | | 51 | 55 | 59 | 74 | | 51 | 55 | 59 | 74 |
| 2,25 | | | | | 52 | | | | | 52 |


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PERFORATED STEEL
LOAD TABLES (daN/m²) – Limitation of deflection: L/200
R3T8,66 (10,88%)

|  SPAN (m) | POSITIVE LOADS | | | | | NEGATIVE LOADS | | | | |
|---|----------------|------|------|------|------|----------------|------|------|------|------|
| | Thickness (mm) | | | | | | | | | |
| | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 |
| 1,00 | 166 | 196 | 211 | 225 | | 166 | 196 | 211 | 225 | |
| 1,25 | 85 | 100 | 108 | 115 | 146 | 85 | 100 | 108 | 115 | 146 |
| 1,50 | | 58 | 62 | 67 | 84 | | 58 | 62 | 67 | 84 |
| 1,75 | | | | | 53 | | | | | 53 |


|  SPAN (m) | POSITIVE LOADS | | | | | NEGATIVE LOADS | | | | |
|---|----------------|------|------|------|------|----------------|------|------|------|------|
| | Thickness (mm) | | | | | | | | | |
| | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 |
| 1,50 | 118 | 139 | 150 | 160 | 203 | 118 | 139 | 150 | 160 | 203 |
| 1,75 | 74 | 88 | 94 | 101 | 128 | 74 | 88 | 94 | 101 | 128 |
| 2,00 | | 59 | 63 | 68 | 85 | | 59 | 63 | 68 | 85 |
| 2,25 | | | | | 60 | | | | | 60 |


R5T8 (35,43%)

|  SPAN (m) | POSITIVE LOADS | | | | | NEGATIVE LOADS | | | | |
|---|----------------|------|------|------|------|----------------|------|------|------|------|
| | Thickness (mm) | | | | | | | | | |
| | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 |
| 1,00 | 120 | 142 | 153 | 163 | 206 | 120 | 142 | 153 | 163 | 206 |
| 1,25 | 62 | 73 | 78 | 84 | 106 | 62 | 73 | 78 | 84 | 106 |
| 1,50 | | | | | 61 | | | | | 61 |
| 1,75 | | | | | | | | | | |

|  SPAN (m) | POSITIVE LOADS | | | | | NEGATIVE LOADS | | | | |
|---|----------------|------|------|------|------|----------------|------|------|------|------|
| | Thickness (mm) | | | | | | | | | |
| | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 |
| 1,25 | 148 | 174 | 188 | 201 | | 148 | 174 | 188 | 201 | |
| 1,50 | 86 | 101 | 109 | 116 | 147 | 86 | 101 | 109 | 116 | 147 |
| 1,75 | 54 | 64 | 68 | 73 | 92 | 54 | 64 | 68 | 73 | 92 |
| 2,00 | | | | | 62 | | | | | 62 |


R6T9 (40,31%)


|  SPAN (m) | POSITIVE LOADS | | | | | NEGATIVE LOADS | | | | |
|---|----------------|------|------|------|------|----------------|------|------|------|------|
| | Thickness (mm) | | | | | | | | | |
| | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 |
| 1,00 | 111 | 131 | 141 | 151 | 191 | 111 | 131 | 141 | 151 | 191 |
| 1,25 | 57 | 67 | 72 | 77 | 98 | 57 | 67 | 72 | 77 | 98 |
| 1,50 | | | | | 57 | | | | | 57 |
| 1,75 | | | | | | | | | | |

|  SPAN (m) | POSITIVE LOADS | | | | | NEGATIVE LOADS | | | | |
|---|----------------|------|------|------|------|----------------|------|------|------|------|
| | Thickness (mm) | | | | | | | | | |
| | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 |
| 1,25 | 137 | 161 | 173 | 186 | 235 | 137 | 161 | 173 | 186 | 235 |
| 1,50 | 79 | 93 | 100 | 107 | 136 | 79 | 93 | 100 | 107 | 136 |
| 1,75 | | 59 | 63 | 68 | 85 | | 59 | 63 | 68 | 85 |
| 2,00 | | | | | 57 | | | | | 57 |

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PERFORATED STEEL
LOAD TABLES (daN/m²) – Limitation of deflection: L/200
R5T7 (46,27%)

|  SPAN (m) | POSITIVE LOADS | | | | | NEGATIVE LOADS | | | | |
|---|----------------|------|------|------|------|----------------|------|------|------|------|
| | Thickness (mm) | | | | | | | | | |
| | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 |
| 1,00 | 100 | 118 | 127 | 136 | 172 | 100 | 118 | 127 | 136 | 172 |
| 1,25 | 51 | 60 | 65 | 70 | 88 | 51 | 60 | 65 | 70 | 88 |
| 1,50 | | | | | 51 | | | | | 51 |
| 1,75 | | | | | | | | | | |

|  SPAN (m) | POSITIVE LOADS | | | | | NEGATIVE LOADS | | | | |
|---|----------------|------|------|------|------|----------------|------|------|------|------|
| | Thickness (mm) | | | | | | | | | |
| | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 | 0,60 | 0,70 | 0,75 | 0,80 | 1,00 |
| 1,25 | 123 | 145 | 156 | 167 | 211 | 123 | 145 | 156 | 167 | 211 |
| 1,50 | 71 | 84 | 90 | 97 | 122 | 71 | 84 | 90 | 97 | 122 |
| 1,75 | | 53 | 57 | 61 | 77 | | 53 | 57 | 61 | 77 |
| 2,00 | | | | | 52 | | | | | 52 |

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