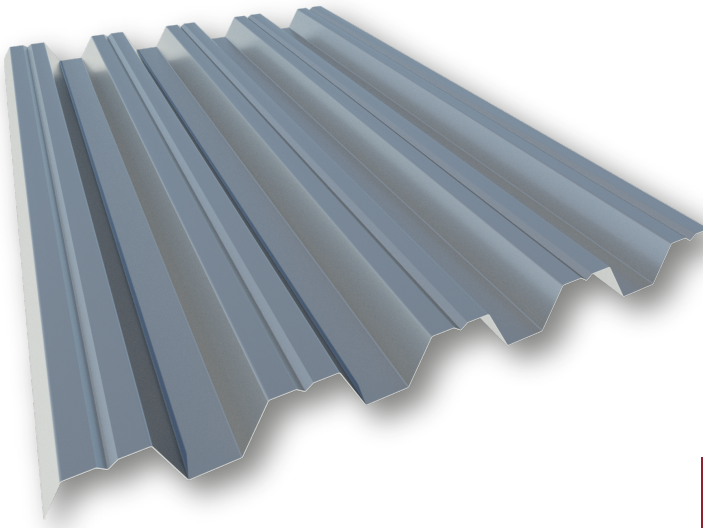


MT-60 SE
PROFILED SHEET

RAW MATERIAL
 Steel

THICKNESSES mm (in.)
 From 0.7 to 1.2
 (0.027-0.047)

FINISH
 Pre-painted/Galvanized

USEFUL WIDTH
 820 mm (32.28 in.)

| | THICKNESS mm (in.) | | | | |
|--------------------------------------|--------------------|-----------------|-----------------|-----------------|-----------------|
| | 0.70 (0.027) | 0.75 (0.029) | 0.80 (0.031) | 1.00 (0.039) | 1.20 (0.047) |
| P (kg/m ²) | 8.39 | 8.97 | 9.57 | 11.97 | 14.36 |
| I (cm ⁴ /m) | 53.02 | 58.75 | 60.38 | 75.47 | 90.56 |
| W (cm ³ /M) - upper fiber | 16.28 | 17.79 | 18.56 | 23.14 | 27.68 |

P=profile weight per square meter I=profile inertia per linear meter W=resistant module profile per linear meter


DESCRIPTION AND APPLICATION

Hiansa's profiled sheet MT-60 SE is specially designed for roofing and as lost formwork. This profiled sheet has a rib height of 60 mm (2.36 in.), which gives it a very good resistance for large spans. The thicknesses can range from 0.7 mm (0.027 in.) to 1.20 mm (0.047 in.). Its useful width is 820 mm (32.28 in.) and its usual length ranges between 2000 mm (78.74 in.) and 14,000 mm (551.18 in.).

Available in both galvanized and pre-painted in a wide range of colors offered by HIANSA. For those mounting solutions that require it, this sheet can be provided with holes drilled 3 mm in diameter, 5 mm between shafts and staggered 60°.


USE

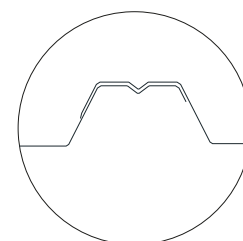
| Roof SANDWICH panel | Roof SANDWICH panel | Roof DECK panel | SIMPLE façade | Façade SANDWICH panel | Façade SANDWICH panel | Interior | Lost Formwork |
|---------------------|---------------------|-----------------|---------------|-----------------------|-----------------------|----------------|---------------|
| Interior Profile | Exterior Profile | Base Profile | | Interior Profile | Exterior Profile | False Ceilings | |
| 👍 | 👍 | 👍 | 👍 | | | | 👍 |

GEOMETRIC SPECIFICATIONS
APPLIED STANDARD

| Geometric Specifications | | | | |
|-------------------------------|---------------------------------|----------|--------------------------------|----------|
| Characteristic | Value | Units | Tolerance / Standard | |
| Profile thickness (h) | 60 (2.36) | mm (in.) | ±1.5 | EN 508-1 |
| Thickness of stiffeners | - | mm | +3/-1 | EN 508-1 |
| Wave Pitch | 205 | mm | ±3.0 | EN 508-1 |
| Width of the ridge and valley | 84/58 | mm | +4/-1 | EN 508-1 |
| Useful width (w) | 820 (32.28) | mm (in.) | (±0.1 · h) _{and} ≤ 15 | EN 508-1 |
| Bending radius (r) | 3 | mm | ±2.0 | EN 508-1 |
| Length (l) | 2000 (78.74) to 14,000 (551.18) | mm (in.) | +20/-5 | EN 508-1 |

| Ref. Standard | Description |
|---------------|---|
| EN 508-1 | Products for sheet metal roofing and cladding: Specify for self-supporting steel sheet products. Part 1: steel. |
| EN 10143 | Sheets and strips of steel with continuous metal coating by hot dipping. Dimensional and shape tolerances. |
| EN 10169 | Flat steel products, continuous coated with organic materials (pre-painted). Technical supply conditions. |
| EN 10346 | Flat steel products, continuous coated by hot dipping. Technical supply conditions. |
| EN 14782 | Self-supporting metal sheets for covering and cladding of roofs and façades. Product specifications and requirements. |

| Features of the Profile | | | | |
|--------------------------------|-------------------------|-------|----------------------|----------|
| Characteristic | Value | Units | Tolerance / Standard | |
| Deviation from straightness | ≤ to the tolerance | mm | ±2/ml (max.10) | EN 508-1 |
| Deviation from quadrature | ≤ to the tolerance | mm | ≤ 0.005*w | EN 508-1 |
| Deviation of the side overlap | ≤ to the tolerance | mm | ±2 s/500 mm | EN 508-1 |
| Radius and angles of curvature | -- | mm | -- | EN 508-1 |
| Sheet thickness | 0.7 to 1.2 | mm | UNE 10143 | |
| Type of steel | S220GD to S320GD | | UNE 10346 | |
| Changes in measurements | 12 x 10 ⁻⁴ K | | UNE 14782 | |
| Water resistance | Pass | | UNE 14782 | |
| Hazardous substance emissions | No emissions | | | |
| Behavior against fire | Broof (t1) | | RD 110/2008 | |
| Galvanized coating | UNE 10346 | | | |
| Pre-painted coating | UNE 10169 | | | |
| Fire resistance | Class A1 | | | |


SECTION PROFILE

OVERLAP DETAIL

RESISTANCE TABLES

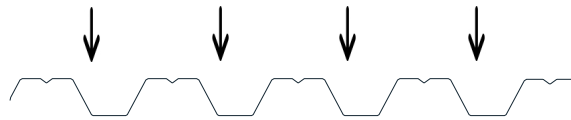
ROOFING and FORMWORK

$f_y=220 \text{ N/mm}^2$ - POSITION SIDE "A"
ADMISSIBLE LOADS (kp/m²) ACCORDING TO DISTANCE BETWEEN PURLINS (m)

| 1 OPENING | | LOAD PRESSURE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| in (mm) | 1.00 | 1.20 | 1.40 | 1.60 | 1.80 | 2.00 | 2.20 | 2.40 | 2.60 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 | 4.80 | 5.00 | 5.20 | 5.40 | 5.60 | 5.80 | 6.00 | | | |
| 0.70 | 1900 | 1318 | 966 | 738 | 582 | 470 | 388 | 301 | 235 | 187 | 150 | 123 | 101 | 84 | 70 | 59 | 50 | 43 | 37 | 31 | 27 | 23 | 20 | 17 | 15 | 13 | | | |
| 0.75 | 2037 | 1413 | 1036 | 792 | 624 | 504 | 416 | 324 | 253 | 201 | 162 | 132 | 109 | 91 | 76 | 64 | 54 | 46 | 39 | 34 | 29 | 25 | 21 | 18 | 16 | 14 | | | |
| 0.80 | 2171 | 1506 | 1104 | 844 | 665 | 537 | 443 | 345 | 270 | 214 | 173 | 141 | 116 | 97 | 81 | 68 | 58 | 49 | 42 | 36 | 31 | 27 | 23 | 20 | 17 | 15 | | | |
| 1.00 | 2704 | 1875 | 1375 | 1051 | 828 | 669 | 551 | 432 | 337 | 268 | 216 | 176 | 145 | 121 | 101 | 85 | 72 | 62 | 53 | 45 | 39 | 33 | 29 | 25 | 21 | 18 | | | |
| 1.20 | 3234 | 2242 | 1644 | 1257 | 991 | 800 | 659 | 518 | 405 | 322 | 260 | 212 | 174 | 145 | 122 | 102 | 87 | 74 | 63 | 54 | 47 | 40 | 34 | 30 | 25 | 22 | | | |

| 2 OPENINGS | | LOAD PRESSURE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| in (mm) | 1.00 | 1.20 | 1.40 | 1.60 | 1.80 | 2.00 | 2.20 | 2.40 | 2.60 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 | 4.80 | 5.00 | 5.20 | 5.40 | 5.60 | 5.80 | 6.00 | | | |
| 0.70 | 1457 | 1010 | 740 | 565 | 445 | 360 | 296 | 248 | 210 | 180 | 156 | 137 | 120 | 107 | 95 | 85 | 77 | 69 | 63 | 57 | 52 | 48 | 44 | 40 | 37 | 34 | | | |
| 0.75 | 1602 | 1110 | 814 | 621 | 490 | 395 | 325 | 272 | 231 | 198 | 172 | 150 | 132 | 117 | 105 | 94 | 84 | 76 | 69 | 63 | 57 | 53 | 48 | 44 | 41 | 38 | | | |
| 0.80 | 1750 | 1213 | 889 | 679 | 535 | 432 | 356 | 298 | 253 | 217 | 188 | 164 | 145 | 128 | 114 | 103 | 92 | 84 | 76 | 69 | 63 | 58 | 53 | 49 | 45 | 42 | | | |
| 1.00 | 2373 | 1645 | 1206 | 922 | 726 | 586 | 483 | 405 | 343 | 295 | 256 | 224 | 197 | 175 | 156 | 140 | 126 | 114 | 104 | 94 | 86 | 79 | 73 | 67 | 62 | 57 | | | |
| 1.20 | 3035 | 2105 | 1543 | 1179 | 929 | 751 | 618 | 518 | 440 | 378 | 328 | 287 | 253 | 224 | 200 | 179 | 162 | 146 | 133 | 121 | 111 | 102 | 94 | 86 | 78 | 70 | | | |

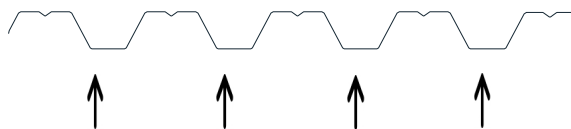
| 3 OPENINGS | | LOAD PRESSURE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| in (mm) | 1.00 | 1.20 | 1.40 | 1.60 | 1.80 | 2.00 | 2.20 | 2.40 | 2.60 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 | 4.80 | 5.00 | 5.20 | 5.40 | 5.60 | 5.80 | 6.00 | | | |
| 0.70 | 1823 | 1264 | 927 | 708 | 558 | 451 | 372 | 311 | 264 | 227 | 197 | 172 | 152 | 135 | 120 | 108 | 97 | 87 | 75 | 66 | 57 | 50 | 44 | 39 | 34 | 30 | | | |
| 0.75 | 2004 | 1389 | 1019 | 779 | 614 | 496 | 409 | 342 | 291 | 250 | 217 | 189 | 167 | 148 | 132 | 119 | 107 | 94 | 81 | 71 | 62 | 54 | 47 | 42 | 37 | 32 | | | |
| 0.80 | 2189 | 1518 | 1113 | 851 | 671 | 542 | 446 | 374 | 318 | 273 | 237 | 207 | 183 | 162 | 145 | 130 | 116 | 100 | 87 | 75 | 66 | 58 | 51 | 44 | 39 | 35 | | | |
| 1.00 | 2969 | 2059 | 1510 | 1154 | 910 | 735 | 606 | 508 | 431 | 371 | 322 | 282 | 249 | 221 | 197 | 170 | 146 | 125 | 108 | 94 | 82 | 72 | 63 | 56 | 49 | 43 | | | |
| 1.20 | 3797 | 2633 | 1932 | 1477 | 1164 | 941 | 776 | 650 | 552 | 475 | 412 | 361 | 318 | 283 | 240 | 204 | 175 | 150 | 130 | 113 | 99 | 86 | 76 | 67 | 59 | 52 | | | |



| 1 OPENING | | LOADS SUCTION | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| in (mm) | 1.00 | 1.20 | 1.40 | 1.60 | 1.80 | 2.00 | 2.20 | 2.40 | 2.60 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 | 4.80 | 5.00 | 5.20 | 5.40 | 5.60 | 5.80 | 6.00 | | | |
| 0.70 | 1470 | 1023 | 753 | 578 | 458 | 372 | 309 | 261 | 219 | 177 | 145 | 121 | 102 | 87 | 75 | 65 | 57 | 51 | 45 | 41 | 37 | 34 | 31 | 28 | 26 | 24 | | | |
| 0.75 | 1615 | 1124 | 827 | 635 | 503 | 409 | 339 | 286 | 237 | 192 | 157 | 131 | 110 | 94 | 81 | 71 | 62 | 55 | 49 | 44 | 40 | 36 | 33 | 31 | 28 | 26 | | | |
| 0.80 | 1764 | 1227 | 904 | 694 | 550 | 447 | 370 | 312 | 256 | 206 | 169 | 141 | 119 | 101 | 87 | 76 | 67 | 59 | 53 | 48 | 43 | 39 | 36 | 33 | 30 | 28 | | | |
| 1.00 | 2391 | 1664 | 1225 | 940 | 744 | 605 | 501 | 420 | 332 | 268 | 220 | 183 | 154 | 132 | 113 | 99 | 87 | 77 | 68 | 61 | 55 | 50 | 46 | 42 | 39 | 36 | | | |
| 1.20 | 3057 | 2126 | 1565 | 1201 | 951 | 773 | 640 | 522 | 414 | 334 | 273 | 227 | 192 | 163 | 141 | 122 | 107 | 95 | 84 | 76 | 69 | 62 | 57 | 52 | 48 | 45 | | | |

| 2 OPENINGS | | LOADS SUCTION | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| in (mm) | 1.00 | 1.20 | 1.40 | 1.60 | 1.80 | 2.00 | 2.20 | 2.40 | 2.60 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 | 4.80 | 5.00 | 5.20 | 5.40 | 5.60 | 5.80 | 6.00 | | | |
| 0.70 | 1913 | 1330 | 979 | 751 | 595 | 483 | 400 | 337 | 288 | 250 | 218 | 193 | 171 | 153 | 138 | 126 | 114 | 105 | 96 | 88 | 79 | 71 | 64 | 58 | 53 | 49 | | | |
| 0.75 | 2051 | 1426 | 1050 | 805 | 638 | 518 | 429 | 362 | 309 | 268 | 234 | 206 | 184 | 165 | 148 | 135 | 123 | 112 | 103 | 96 | 85 | 77 | 69 | 63 | 57 | 53 | | | |
| 0.80 | 2186 | 1520 | 1119 | 858 | 680 | 552 | 457 | 386 | 330 | 285 | 249 | 220 | 196 | 175 | 158 | 144 | 131 | 120 | 110 | 102 | 92 | 83 | 75 | 68 | 62 | 57 | | | |
| 1.00 | 2722 | 1893 | 1393 | 1069 | 847 | 687 | 570 | 480 | 411 | 355 | 311 | 274 | 244 | 219 | 197 | 179 | 163 | 149 | 137 | 127 | 118 | 107 | 97 | 88 | 80 | 73 | | | |
| 1.20 | 325 | 2264 | 1666 | 1278 | 1012 | 822 | 681 | 574 | 491 | 425 | 372 | 328 | 292 | 261 | 236 | 214 | 195 | 179 | 164 | 152 | 141 | 131 | 120 | 109 | 99 | 91 | | | |

| 3 OPENINGS | | LOADS SUCTION | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| in (mm) | 1.00 | 1.20 | 1.40 | 1.60 | 1.80 | 2.00 | 2.20 | 2.40 | 2.60 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 | 4.80 | 5.00 | 5.20 | 5.40 | 5.60 | 5.80 | 6.00 | | | |
| 0.70 | 2294 | 1595 | 1173 | 900 | 712 | 578 | 479 | 403 | 345 | 298 | 261 | 222 | 186 | 158 | 136 | 117 | 102 | 90 | 79 | 71 | 63 | 57 | 52 | 47 | 43 | 40 | | | |
| 0.75 | 2520 | 1752 | 1289 | 989 | 783 | 635 | 526 | 443 | 379 | 327 | 286 | 240 | 202 | 171 | 147 | 127 | 111 | 97 | 86 | 77 | 69 | 62 | 56 | 51 | 47 | 43 | | | |
| 0.80 | 2730 | 1898 | 1397 | 1071 | 848 | 688 | 570 | 480 | 410 | 355 | 310 | 259 | 217 | 184 | 158 | 137 | 119 | 105 | 93 | 82 | 74 | 67 | 61 | 55 | 50 | 46 | | | |
| 1.00 | 3400 | 2364 | 1739 | 1334 | 1056 | 857 | 710 | 598 | 511 | 442 | 386 | 336 | 282 | 239 | 205 | 177 | 154 | 136 | 120 | 107 | 96 | 86 | 78 | 71 | 65 | 60 | | | |
| 1.20 | 4067 | 2827 | 2080 | 1595 | 1263 | 1025 | 849 | 715 | 611 | 528 | 462 | 407 | 351 | 298 | 255 | 220 | 192 | 169 | 149 | 133 | 119 | 107 | 97 | 88 | 80 | 74 | | | |



Permissible service loads, uniformly distributed in kg/m². The tables have been obtained based on a calculation methodology established in accordance with the provisions of the EUROCODES standard. These results comply with the Ultimate Limit States of normal and tangential stresses prescribed in said standards and with a limitation of the Serviceability Limit State for deformations of L/200.