



Catálogo

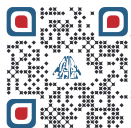


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Catálogo G01 - Febrero 2021



MORAL
HIERROS Y FERRALLA



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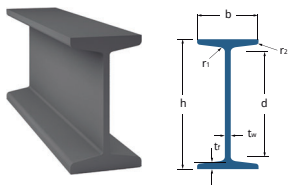
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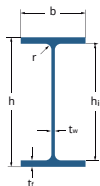
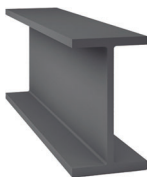
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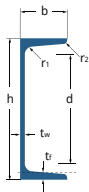
IPN

| IPN | Dimensiones "mm." | | | | | | Sección (cm ²) | Peso (kg/m.) |
|-----|-------------------|-----|--------------------------------|----------------|----------------|-------|----------------------------|--------------|
| | h | b | t _w =r ¹ | t ^f | r ² | d | | |
| 80 | 80 | 42 | 3,9 | 5,9 | 2,3 | 59 | 7,6 | 5,9 |
| 100 | 100 | 50 | 4,5 | 6,8 | 2,7 | 75,7 | 10,6 | 8,3 |
| 120 | 120 | 58 | 5,1 | 7,7 | 3,1 | 92,4 | 14,2 | 11,1 |
| 140 | 140 | 66 | 5,7 | 8,6 | 3,4 | 109,1 | 18,2 | 14,3 |
| 160 | 160 | 74 | 6,3 | 9,5 | 3,8 | 125,8 | 22,8 | 17,9 |
| 180 | 180 | 82 | 6,9 | 10,4 | 4,1 | 142,4 | 27,9 | 21,9 |
| 200 | 200 | 90 | 7,5 | 11,3 | 4,5 | 159,1 | 33,4 | 26,2 |
| 220 | 220 | 98 | 8,1 | 12,2 | 4,9 | 175,8 | 39,5 | 31,1 |
| 240 | 240 | 106 | 8,7 | 13,1 | 5,2 | 192,5 | 46,1 | 36,2 |
| 260 | 260 | 113 | 9,4 | 14,1 | 5,6 | 208,9 | 53,3 | 41,9 |
| 280 | 280 | 119 | 10,1 | 15,2 | 6,1 | 225,1 | 61 | 47,9 |
| 300 | 300 | 125 | 10,8 | 16,2 | 6,5 | 241,6 | 69 | 54,2 |
| 320 | 320 | 131 | 11,5 | 17,3 | 6,9 | 257,9 | 77,7 | 61 |
| 340 | 340 | 137 | 12,2 | 18,3 | 7,3 | 274,3 | 86,7 | 68 |
| 360 | 360 | 143 | 13 | 19,5 | 7,8 | 290,2 | 97 | 76,1 |
| 380 | 380 | 149 | 13,7 | 20,5 | 8,2 | 306,7 | 107 | 84 |
| 400 | 400 | 155 | 14,4 | 21,6 | 8,6 | 322,9 | 117,7 | 92,4 |
| 450 | 450 | 170 | 16,2 | 24,3 | 9,7 | 363,6 | 146,9 | 115 |
| 500 | 500 | 185 | 18 | 27 | 10,8 | 404,3 | 179,4 | 141 |
| 550 | 550 | 200 | 19 | 30 | 11,9 | 445,6 | 212 | 166 |
| 600 | 600 | 215 | 21,6 | 32,4 | 13 | 485,8 | 253,7 | 199 |



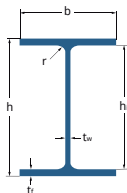
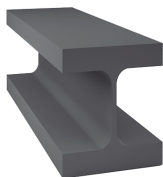
IPE

| IPE | Dimensiones "mm." | | | | | | Sección (cm ²) | Peso (kg/m.) |
|-----|-------------------|-----|----------------|----------------|----|----------------|----------------------------|--------------|
| | h | b | t ^w | t ^f | r | h _i | | |
| 80 | 80 | 46 | 3,8 | 5,2 | 5 | 69,6 | 7,6 | 6 |
| 100 | 100 | 55 | 4,1 | 5,7 | 7 | 88,6 | 10,3 | 8,1 |
| 120 | 120 | 64 | 4,4 | 6,3 | 7 | 107,4 | 13,2 | 10,4 |
| 140 | 140 | 73 | 4,7 | 6,9 | 7 | 126,2 | 16,4 | 12,9 |
| 160 | 160 | 82 | 5 | 7,4 | 9 | 145,2 | 20,1 | 15,8 |
| 180 | 180 | 91 | 5,3 | 8 | 9 | 164 | 23,9 | 18,8 |
| 200 | 200 | 100 | 5,6 | 8,5 | 12 | 183 | 28,5 | 22,4 |
| 220 | 220 | 110 | 5,9 | 9,2 | 12 | 201,6 | 33,4 | 26,2 |
| 240 | 240 | 120 | 6,2 | 9,8 | 15 | 220,4 | 39,1 | 30,7 |
| 270 | 270 | 135 | 6,6 | 10,2 | 15 | 249,6 | 45,9 | 36,1 |
| 300 | 300 | 150 | 7,1 | 10,7 | 15 | 278,6 | 53,8 | 42,2 |
| 330 | 330 | 160 | 7,5 | 11,5 | 18 | 307 | 62,6 | 49,1 |
| 360 | 360 | 170 | 8 | 12,7 | 18 | 334,6 | 72,7 | 57,1 |
| 400 | 400 | 180 | 8,6 | 13,5 | 21 | 373 | 84,5 | 66,3 |
| 450 | 450 | 190 | 9,4 | 14,6 | 21 | 420,8 | 98,8 | 77,6 |
| 500 | 500 | 200 | 10,2 | 16 | 21 | 468 | 115,5 | 90,7 |
| 550 | 550 | 210 | 11,1 | 17,2 | 24 | 515,6 | 134,4 | 106 |
| 600 | 600 | 220 | 12 | 19 | 24 | 562 | 156 | 122 |



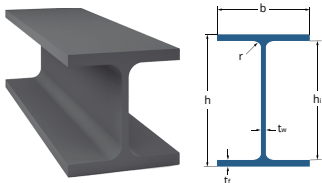
UPN

| UPN | Dimensiones "mm." | | | | | Sección (cm ²) | Peso (kg/m.) |
|-----|-------------------|-----|--------------------------------|----------------|-----|----------------------------|--------------|
| | h | b | t ^f =r ¹ | r ² | d | | |
| 50 | 50 | 38 | 7 | 3,5 | 21 | 7,1 | 5,6 |
| 65 | 65 | 42 | 7,5 | 4 | 34 | 9 | 7,1 |
| 80 | 80 | 45 | 8 | 4 | 47 | 11 | 8,6 |
| 100 | 100 | 50 | 8,5 | 4,5 | 64 | 13,5 | 10,6 |
| 120 | 120 | 55 | 9 | 4,5 | 82 | 17 | 13,4 |
| 140 | 140 | 60 | 10 | 5 | 98 | 20,4 | 16 |
| 160 | 160 | 65 | 10,5 | 5,5 | 115 | 24 | 18,8 |
| 180 | 180 | 70 | 11 | 5,5 | 133 | 28 | 22 |
| 200 | 200 | 75 | 11,5 | 6 | 151 | 32,2 | 25,3 |
| 220 | 220 | 80 | 12,5 | 6,5 | 167 | 37,4 | 29,4 |
| 240 | 240 | 85 | 13 | 6,5 | 184 | 42,3 | 33,2 |
| 260 | 260 | 90 | 14 | 7 | 200 | 48,3 | 37,9 |
| 280 | 280 | 95 | 15 | 7,5 | 216 | 53,3 | 41,8 |
| 300 | 300 | 100 | 16 | 8 | 232 | 58,8 | 46,2 |
| 320 | 320 | 100 | 17,5 | 8,8 | 246 | 75,8 | 59,5 |
| 350 | 350 | 100 | 16 | 8 | 282 | 77,3 | 60,6 |
| 380 | 380 | 102 | 16 | 8 | 313 | 80,4 | 63,1 |
| 400 | 400 | 110 | 18 | 9 | 324 | 91,5 | 71,8 |



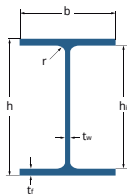
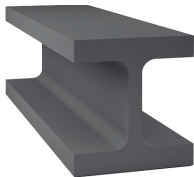
HEB

| HEB | Dimensiones "mm." | | | | | Sección (cm ²) | Peso (kg/m.) |
|------|-------------------|-----|----------------|----------------|-----|----------------------------|--------------|
| | h | b | t ^f | t ^w | d | | |
| 100 | 100 | 100 | 10 | 6 | 56 | 26 | 20,4 |
| 120 | 120 | 120 | 11 | 6,5 | 74 | 34 | 26,7 |
| 140 | 140 | 140 | 12 | 7 | 92 | 43 | 33,7 |
| 160 | 160 | 160 | 13 | 8 | 104 | 54,3 | 42,6 |
| 180 | 180 | 180 | 14 | 8,5 | 122 | 65,3 | 51,2 |
| 200 | 200 | 200 | 15 | 9 | 134 | 78,1 | 61,3 |
| 220 | 220 | 220 | 16 | 9,5 | 152 | 91 | 71,5 |
| 240 | 240 | 240 | 17 | 10 | 164 | 106 | 83,2 |
| 260 | 260 | 260 | 17,5 | 10 | 177 | 118,4 | 93 |
| 280 | 280 | 280 | 18 | 10,5 | 196 | 131,4 | 103 |
| 300 | 300 | 300 | 19 | 11 | 208 | 149,1 | 117 |
| 320 | 320 | 300 | 20,5 | 11,5 | 225 | 161,3 | 127 |
| 340 | 340 | 300 | 21,5 | 12 | 243 | 170,9 | 134 |
| 360 | 360 | 300 | 22,5 | 12,5 | 261 | 180,6 | 142 |
| 400 | 400 | 300 | 24 | 13,5 | 298 | 197,8 | 155 |
| 450 | 450 | 300 | 26 | 14 | 344 | 218 | 171 |
| 500 | 500 | 300 | 28 | 14,5 | 390 | 238,6 | 187 |
| 550 | 550 | 300 | 29 | 15 | 438 | 254,1 | 199 |
| 600 | 600 | 300 | 30 | 15,5 | 486 | 270 | 212 |
| 650 | 650 | 300 | 31 | 16 | 534 | 286,3 | 225 |
| 700 | 700 | 300 | 32 | 17 | 582 | 306,4 | 241 |
| 800 | 800 | 300 | 33 | 17,5 | 674 | 334,2 | 262 |
| 900 | 900 | 300 | 35 | 18,5 | 770 | 371,3 | 291 |
| 1000 | 1000 | 300 | 36 | 19 | 868 | 400 | 314 |



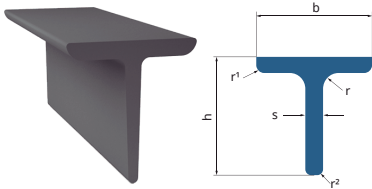
HEA

| HEA | Dimensiones "mm." | | | | | Sección (cm ²) | Peso (kg/m.) |
|------|-------------------|-----|----------------|----------------|-----|----------------------------|--------------|
| | h | b | t ^f | t ^w | d | | |
| 100 | 96 | 100 | 8 | 5 | 56 | 21,2 | 16,7 |
| 120 | 114 | 120 | 8 | 5 | 74 | 25,3 | 19,9 |
| 140 | 133 | 140 | 8,5 | 5,5 | 92 | 31,4 | 24,7 |
| 160 | 152 | 160 | 9 | 6 | 104 | 38,8 | 30,4 |
| 180 | 171 | 180 | 9,5 | 6 | 122 | 45,3 | 35,5 |
| 200 | 190 | 200 | 10 | 6,5 | 134 | 53,8 | 42,3 |
| 220 | 210 | 220 | 11 | 7 | 152 | 64,3 | 50,5 |
| 240 | 230 | 240 | 12 | 7,5 | 164 | 76,8 | 60,3 |
| 260 | 250 | 260 | 12,5 | 7,5 | 177 | 86,8 | 68,2 |
| 280 | 270 | 280 | 13 | 8 | 196 | 97,3 | 76,4 |
| 300 | 290 | 300 | 14 | 8,5 | 208 | 112,5 | 88,3 |
| 320 | 310 | 300 | 15,5 | 9 | 225 | 124,4 | 97,6 |
| 340 | 330 | 300 | 16,5 | 9,5 | 243 | 133,5 | 105 |
| 360 | 350 | 300 | 17,5 | 10 | 261 | 142,8 | 112 |
| 400 | 390 | 300 | 19 | 11 | 298 | 159 | 125 |
| 450 | 440 | 300 | 21 | 11,5 | 344 | 178 | 140 |
| 500 | 490 | 300 | 23 | 12 | 390 | 197,5 | 155 |
| 550 | 540 | 300 | 24 | 12,5 | 438 | 211,8 | 166 |
| 600 | 590 | 300 | 25 | 13 | 486 | 226,5 | 178 |
| 650 | 640 | 300 | 26 | 13,5 | 534 | 241,6 | 190 |
| 700 | 690 | 300 | 27 | 14,5 | 582 | 260,5 | 204 |
| 800 | 790 | 300 | 28 | 15 | 674 | 285,8 | 224 |
| 900 | 890 | 300 | 30 | 16 | 770 | 320,5 | 252 |
| 1000 | 990 | 300 | 31 | 16,5 | 868 | 346,8 | 272 |



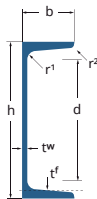
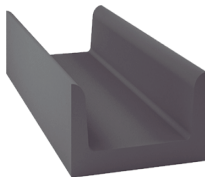
HEM

| HEM | Dimensiones "mm." | | | | | Sección (cm ²) | Peso (kg/m.) |
|------|-------------------|-----|----------------|----------------|-----|----------------------------|--------------|
| | h | b | t ^f | t ^w | d | | |
| 100 | 120 | 106 | 20 | 12 | 56 | 53,2 | 41,8 |
| 120 | 140 | 126 | 21 | 12,5 | 74 | 66,4 | 52,1 |
| 140 | 160 | 146 | 22 | 13 | 92 | 80,6 | 63,2 |
| 160 | 180 | 166 | 23 | 14 | 104 | 97,1 | 76,2 |
| 180 | 200 | 186 | 24 | 14,5 | 122 | 113,3 | 88,9 |
| 200 | 220 | 206 | 25 | 15 | 134 | 131,3 | 103 |
| 220 | 240 | 226 | 26 | 15,5 | 152 | 149,4 | 117 |
| 240 | 270 | 248 | 32 | 18 | 164 | 199,6 | 157 |
| 260 | 290 | 268 | 32,5 | 18 | 177 | 219,6 | 172 |
| 280 | 310 | 288 | 33 | 18,5 | 196 | 240,2 | 189 |
| 300 | 340 | 310 | 39 | 21 | 208 | 303,1 | 238 |
| 320 | 359 | 309 | 40 | 21 | 225 | 312 | 245 |
| 340 | 377 | 309 | 40 | 21 | 243 | 315,8 | 248 |
| 360 | 395 | 308 | 40 | 21 | 261 | 318,8 | 250 |
| 400 | 432 | 307 | 40 | 21 | 298 | 325,8 | 256 |
| 450 | 478 | 307 | 40 | 21 | 344 | 335,4 | 263 |
| 500 | 524 | 306 | 40 | 21 | 390 | 344,3 | 270 |
| 550 | 572 | 306 | 40 | 21 | 438 | 354,4 | 278 |
| 600 | 620 | 305 | 40 | 21 | 486 | 363,7 | 285 |
| 650 | 668 | 305 | 40 | 21 | 534 | 373,7 | 293 |
| 700 | 716 | 304 | 40 | 21 | 582 | 383 | 301 |
| 800 | 814 | 303 | 40 | 21 | 674 | 404,3 | 317 |
| 900 | 910 | 302 | 40 | 21 | 770 | 423,6 | 333 |
| 1000 | 1008 | 302 | 40 | 21 | 868 | 444,2 | 349 |



SIMPLE T

| T | Dimensiones "mm." | | | | | | Sección (cm ²) | Peso (kg/m.) |
|----|-------------------|----|-----|-----|----------------|----------------|----------------------------|--------------|
| | h | b | s | r | r ¹ | r ² | | |
| 30 | 30 | 30 | 8 | 4 | 2 | 1 | 2,26 | 1,77 |
| 35 | 35 | 35 | 8 | 4,5 | 2,5 | 1 | 4,5 | 2,33 |
| 40 | 40 | 40 | 8,5 | 5 | 2,5 | 1 | 5 | 2,96 |
| 50 | 50 | 50 | 9 | 6 | 3 | 2 | 5,66 | 4,44 |
| 60 | 60 | 60 | 9,5 | 7 | 3,5 | 2 | 7 | 6,23 |
| 70 | 70 | 70 | 10 | 8 | 4 | 2 | 10,6 | 8,32 |
| 80 | 80 | 80 | 11 | 9 | 4,5 | 2 | 9 | 10,7 |



U

| U | Dimensiones "mm." | | | | | | | Peso (kg/m.) |
|----|-------------------|----|-----|-----|----------------|----------------|------|--------------|
| | h | b | tw | tf | r ¹ | r ² | d | |
| 30 | 30 | - | - | - | - | - | - | 1,74 |
| 40 | 40 | 20 | 5 | 5,5 | 5 | 2,5 | 19 | 2,87 |
| 50 | 50 | 25 | 5 | 6 | 6 | 3 | 25,7 | 3,86 |
| 60 | 60 | 30 | 6 | 6 | 6 | 3 | 35,5 | 5,07 |
| 65 | 65 | 42 | 5,5 | 7,5 | 7,5 | 4 | 33,7 | 7,09 |



CORRUGADO DE ACERO SOLDABLE PARA ARMADURAS DE HORMIGÓN ARMADO (UNE-36068-88)

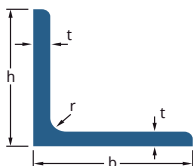
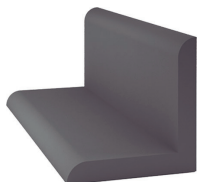
| Diámetro Ø | Sección (cm ²) | Peso (kg/m.) | Diámetro Ø | Sección (cm ²) | Peso (kg/m.) |
|---------------|-------------------------------|-----------------|---------------|-------------------------------|-----------------|
| 6 | 0,283 | 0,222 | 20 | 3,14 | 2,465 |
| 8 | 0,503 | 0,395 | 25 | 4,91 | 3,854 |
| 10 | 0,785 | 0,617 | 32 | 8,04 | 6,311 |
| 12 | 1,131 | 0,888 | 40 | 12,57 | 9,867 |
| 16 | 2,01 | 1,578 | | | |

GRAFIL DE 6 Y 8 MM

Corte y medida
Servicio Inmediato

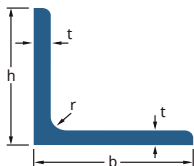
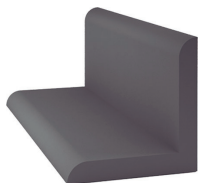
PLACAS Y GARROTAS

Placas de anclaje cuadradas
Garrotas de Ø16 y Ø20
También pedido a medida



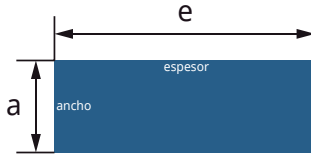
ÁNGULO

| Perfil L | Dimensiones (mm.) | | | Peso (kg/m.) |
|-------------|-------------------|----|-----|-----------------|
| | h-b | t | r | |
| 20x20x3 | 20 | 3 | 3,5 | 0,882 |
| 25x25x3 | 25 | 3 | 3,5 | 1,12 |
| 30x30x3 | 30 | 3 | 5 | 1,36 |
| 35x35x4 | 35 | 4 | 5 | 2,09 |
| 40x40x4 | 40 | 4 | 6 | 2,42 |
| 45x45x5 | 45 | 5 | 7 | 3,38 |
| 50x50x5 | 50 | 5 | 7 | 3,77 |
| 55x55x6 | 55 | 6 | 8 | 4,95 |
| 60x60x6 | 60 | 6 | 8 | 5,42 |
| 70x70x7 | 70 | 7 | 9 | 7,38 |
| 80x80x8 | 80 | 8 | 10 | 9,63 |
| 80x80x10 | 80 | 10 | 10 | 11,9 |
| 90x90x9 | 90 | 9 | 11 | 12,2 |
| 90x90x11 | 90 | 11 | 11 | 14,7 |
| 90x90x12 | 90 | 12 | 11 | 15,9 |
| 100x100x8 | 100 | 8 | 12 | 12,2 |



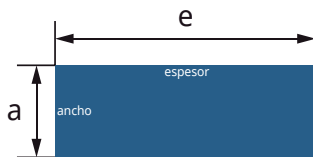
ÁNGULO

| Perfil L | Dimensiones (mm.) | | | Peso (kg/m.) |
|-------------|-------------------|----|----|-----------------|
| | h-b | t | r | |
| 100x100x10 | 100 | 10 | 12 | 15 |
| 100x100x12 | 100 | 12 | 12 | 17,8 |
| 100x100x15 | 100 | 15 | 12 | 21,9 |
| 120x120x8 | 120 | 8 | 13 | 14,7 |
| 120x120x10 | 120 | 10 | 13 | 18,2 |
| 120x120x12 | 120 | 12 | 13 | 21,6 |
| 120x120x15 | 120 | 15 | 13 | 26,6 |
| 150x150x10 | 150 | 10 | 16 | 23 |
| 150x150x12 | 150 | 12 | 16 | 27,3 |
| 150x150x15 | 150 | 15 | 15 | 33,8 |
| 150x150x18 | 150 | 18 | 16 | 40,1 |
| 180x180x15 | 180 | 15 | 18 | 40,9 |
| 180x180x18 | 180 | 18 | 18 | 48,6 |
| 200x200x16 | 200 | 16 | 18 | 48,5 |
| 200x200x18 | 200 | 18 | 18 | 54,2 |
| 200x200x20 | 200 | 20 | 18 | 59,9 |



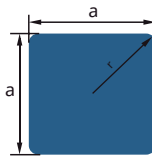
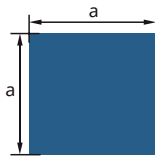
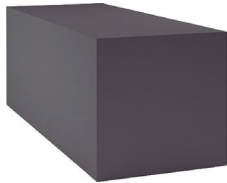
PLETINAS

| Ancho (mm.) "a" | Dimensiones (mm.) | | | | | | | | | |
|-----------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 12 | 14 | 15 |
| 12 | 0,283 | 0,377 | - | - | - | - | - | - | - | - |
| 14 | 0,33 | 0,44 | 0,55 | 0,659 | - | - | - | - | - | - |
| 16 | 0,377 | 0,502 | 0,628 | 0,754 | - | - | - | - | - | - |
| 18 | 0,424 | 0,565 | 0,707 | 0,848 | - | - | - | - | - | - |
| 20 | 0,471 | 0,628 | 0,785 | 0,942 | 1,099 | 1,256 | 1,57 | 1,88 | 2,2 | 2,36 |
| 25 | 0,589 | 0,785 | 0,981 | 1,178 | 1,374 | 1,57 | 1,963 | 2,366 | 2,75 | 2,94 |
| 30 | 0,705 | 0,942 | 1,177 | 1,413 | 1,648 | 1,884 | 2,365 | 2,826 | 3,3 | 3,53 |
| 35 | 0,824 | 1,099 | 1,374 | 1,649 | 1,923 | 2,198 | 2,748 | 3,297 | 3,847 | 4,121 |
| 40 | 0,942 | 1,256 | 1,57 | 1,848 | 2,198 | 2,512 | 3,14 | 3,768 | 4,396 | 4,719 |
| 45 | 1,06 | 1,413 | 1,766 | 2,12 | 2,473 | 2,826 | 3,533 | 4,239 | 4,916 | 5,299 |
| 50 | 1,177 | 1,570 | 1,962 | 2,355 | 2,747 | 3,14 | 3,925 | 4,71 | 5,495 | 5,887 |
| 55 | - | 1,73 | 2,16 | 2,59 | 3,02 | 3,45 | 4,32 | 5,18 | 6,04 | 6,48 |
| 60 | - | 1,88 | 2,355 | 2,826 | 3,297 | 3,768 | 4,71 | 5,652 | 6,594 | 7,065 |
| 65 | - | - | 2,55 | 3,06 | 3,57 | 4,08 | 5,1 | 6,12 | 7,14 | 7,65 |
| 70 | - | - | 2,747 | 3,297 | 3,846 | 4,396 | 5,495 | 6,594 | 7,693 | 8,242 |
| 75 | - | - | 2,94 | 3,53 | - | 4,71 | 5,89 | 7,07 | - | 8,83 |
| 80 | - | - | 3,14 | 3,768 | 4,396 | 5,024 | 6,28 | 7,536 | 8,792 | 9,42 |
| 90 | - | - | 3,532 | 4,23 | 4,946 | 5,652 | 7,065 | 8,478 | 9,891 | 10,6 |
| 100 | - | - | 3,925 | 4,71 | 5,495 | 6,28 | 7,85 | 9,42 | 10,99 | 11,77 |
| 110 | - | - | 4,32 | 5,181 | 6,044 | 6,908 | 8,635 | 10,36 | 12,09 | 12,95 |
| 120 | - | - | 4,71 | 5,652 | 6,594 | 7,536 | 9,42 | 11,3 | 13,19 | 14,13 |
| 130 | - | - | - | 6,123 | 7,144 | 8,164 | 10,21 | 12,25 | 14,29 | 15,31 |
| 140 | - | - | - | 6,594 | 7,693 | 8,792 | 10,99 | 13,19 | 15,39 | 16,49 |
| 150 | - | - | - | 7,06 | 8,242 | 9,42 | 11,77 | 14,13 | 16,48 | 17,65 |
| 160 | - | - | - | - | - | 10,05 | 12,56 | 15,07 | 17,58 | 18,84 |
| 170 | - | - | - | - | - | 10,7 | 13,3 | 16 | 18,7 | 20 |
| 180 | - | - | - | - | - | 11,3 | 14,13 | 16,96 | 19,78 | 21,2 |
| 200 | - | - | - | - | - | 12,56 | 15,7 | 18,34 | 21,98 | 23,55 |
| 220 | - | - | - | - | - | - | - | - | - | - |
| 250 | - | - | - | - | - | - | 19,63 | - | - | 29,44 |
| 300 | - | - | - | - | - | 18,84 | 23,55 | - | - | - |
| 350 | - | - | - | - | - | - | 27,48 | - | - | - |
| 400 | - | - | - | - | - | - | 31,4 | - | - | - |
| 500 | - | - | - | - | - | - | 39,25 | - | - | - |



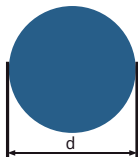
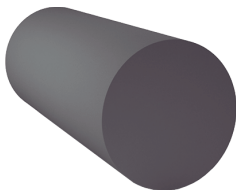
PLETINAS

| Ancho (mm.) "a" | Dimensiones (mm.) | | | | | | | | | |
|-----------------|-------------------|-------|-------|-------|-------|------|------|------|------|------|
| | 16 | 18 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 60 |
| 12 | - | - | - | - | - | - | - | - | - | - |
| 14 | - | - | - | - | - | - | - | - | - | - |
| 16 | - | - | - | - | - | - | - | - | - | - |
| 18 | - | - | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 25 | 3,14 | 3,53 | - | - | - | - | - | - | - | - |
| 30 | 3,77 | 4,24 | 4,71 | - | - | - | - | - | - | - |
| 35 | 4.396 | 4.946 | 5.495 | 6,87 | - | - | - | - | - | - |
| 40 | 5.024 | 5.652 | 6,28 | 7,85 | 9,42 | - | - | - | - | - |
| 45 | 5.652 | 6.359 | 7.065 | 8.831 | 10,6 | - | - | - | - | - |
| 50 | 6,28 | 7.065 | 7,85 | 9.813 | 11,78 | - | - | - | - | - |
| 55 | 6,91 | 7,77 | 8,64 | 10,8 | 13 | 15,1 | - | - | - | - |
| 60 | 7.536 | 8.478 | 9,42 | 11,78 | 14,13 | - | - | - | - | - |
| 65 | 8,16 | 9,18 | 10,2 | 12,8 | 15,3 | 17,9 | 20,4 | 23 | - | - |
| 70 | 8.762 | 9.891 | 10,99 | 13,74 | 16,49 | - | - | - | - | - |
| 75 | 9,42 | - | 11,8 | 14,7 | 17,7 | 20,6 | 23,6 | - | - | - |
| 80 | 10,05 | 11,3 | 12,56 | 15,7 | 18,84 | - | - | - | - | - |
| 90 | 11,3 | 12,72 | 14,13 | 17,06 | 21,2 | - | - | - | - | - |
| 100 | 12,56 | 14,13 | 15,7 | 19,63 | 23,55 | - | - | - | - | - |
| 110 | 13,82 | 15,54 | 17,27 | 21,59 | 25,91 | - | - | - | - | - |
| 120 | 15,07 | 16,96 | 18,84 | 23,55 | 28,26 | - | - | - | - | - |
| 130 | 16,33 | 18,37 | 20,41 | 25,51 | 30,62 | - | - | - | - | - |
| 140 | 17,58 | 19,78 | 21,98 | 27,48 | 32,97 | - | - | - | - | - |
| 150 | 18,84 | 21,2 | 23,55 | 29,44 | 35,3 | - | - | - | - | - |
| 160 | 20,1 | 22,61 | 25,12 | 31,4 | 37,7 | - | - | - | - | - |
| 170 | 21,4 | 24 | 26,7 | 33,4 | 40 | 46,7 | 53,4 | 60,1 | 66,7 | 80,1 |
| 180 | 22,61 | 25,43 | 28,26 | 35,33 | - | - | - | - | - | - |
| 200 | 25,12 | 28,26 | 31,4 | 39,3 | 47,1 | - | - | - | - | - |
| 220 | - | - | 34,54 | - | - | - | - | - | - | - |
| 250 | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - |
| 350 | - | - | - | - | - | - | - | - | - | - |
| 400 | - | - | - | - | - | - | - | - | - | - |
| 500 | - | - | - | - | - | - | - | - | - | - |



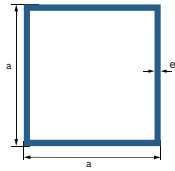
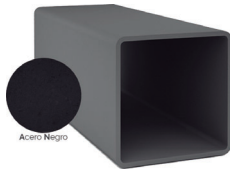
CUADRADO

| Ancho / Alto (mm.) "a" | Peso (kg/m.) | | |
|---------------------------|------------------|---------------------|----|
| | Barras cuadradas | Aristas redondeadas | r |
| 10 | 0,785 | - | - |
| 12 | 1,13 | - | - |
| 14 | 1,54 | - | - |
| 16 | 2,01 | - | - |
| 18 | 2,54 | - | - |
| 20 | 3,14 | - | - |
| 25 | 4,91 | - | - |
| 30 | 7,06 | - | - |
| 35 | 9,62 | - | - |
| 40 | 12,6 | - | - |
| 45 | 15,9 | - | - |
| 50 | 19,3 | - | - |
| 90 | 63,6 | - | - |
| 100 | 78,5 | - | - |
| 110 | 95 | - | - |
| 120 | 113 | - | - |
| 130 | 132,6 | - | - |
| 140 | - | 153,2 | 10 |
| 150 | - | 176 | 10 |
| 155 | - | 186,9 | 10 |
| 160 | - | 200,3 | 10 |



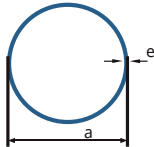
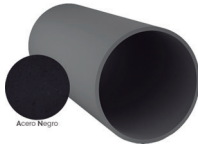
REDONDO

| Ancho / Alto (mm.) "a" | Peso (kg/m.) |
|---------------------------|--------------|
| 6 | 0,25 |
| 8 | 0,395 |
| 10 | 0,617 |
| 12 | 0,888 |
| 14 | 1,21 |
| 16 | 1,58 |
| 18 | 2 |
| 20 | 2,47 |
| 25 | 3,85 |
| 30 | 5,55 |
| 40 | 9,86 |
| 50 | 15,4 |



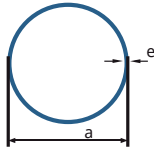
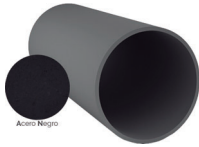
TUBO CUADRADO

| Ancho/Alto "a" (mm.) | Espesor "e" (Kg/m.) | | | | | | | | | | | | | | |
|----------------------------|---------------------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|
| | 1 | 1,25 | 1,5 | 2 | 2,5 | 3 | 4 | 5 | 6 | 6,3 | 7 | 8 | 10 | 12 | 12,5 |
| 10 | 0,306 | 0,367 | 0,447 | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | 0,385 | 0,462 | 0,565 | - | - | - | - | - | - | - | - | - | - | - | - |
| 14 | 0,432 | - | 0,636 | - | - | - | - | - | - | - | - | - | - | - | - |
| 16 | 0,502 | 0,603 | 0,742 | 0,973 | - | - | - | - | - | - | - | - | - | - | - |
| 18 | - | - | 0,824 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | 0,636 | 0,763 | 0,942 | 1,225 | - | - | - | - | - | - | - | - | - | - | - |
| 22 | 0,699 | 0,838 | 1,036 | 1,366 | - | - | - | - | - | - | - | - | - | - | - |
| 25 | 0,777 | 0,933 | 1,154 | 1,523 | 1,64 | 1,89 | - | - | - | - | - | - | - | - | - |
| 28 | - | - | 1,178 | 1,554 | - | - | - | - | - | - | - | - | - | - | - |
| 30 | 0,95 | 1,14 | 1,389 | 1,837 | 2,03 | 2,36 | 2,94 | - | - | - | - | - | - | - | - |
| 32 | - | - | 1,484 | 1,963 | - | - | - | - | - | - | - | - | - | - | - |
| 35 | 1,107 | - | 1,625 | 2,151 | - | 2,83 | - | - | - | - | - | - | - | - | - |
| 38 | - | - | 1,766 | 2,339 | - | 3,12 | - | - | - | - | - | - | - | - | - |
| 40 | - | 1,517 | 1,86 | 2,465 | 2,82 | 3,3 | 4,2 | 4,99 | - | - | - | - | - | - | - |
| 45 | - | - | 2,096 | 2,779 | - | 3,8 | 4,83 | - | - | - | - | - | - | - | - |
| 50 | - | - | 2,331 | 3,093 | 3,6 | 4,25 | 5,45 | 6,56 | 7,56 | - | - | - | - | - | - |
| 60 | - | - | 2,802 | 3,721 | 4,39 | 5,35 | 7,35 | 8,13 | 9,45 | 9,55 | - | - | - | - | - |
| 70 | - | - | - | 4,349 | 5,17 | 6,26 | 8,26 | 9,7 | 11,3 | 11,5 | - | - | - | - | - |
| 80 | - | - | 3,744 | 4,977 | - | 7,17 | 9,8 | 11,3 | 13,2 | 13,5 | - | 16,4 | - | - | - |
| 90 | - | - | - | - | - | 8,01 | 10,5 | 12,8 | 15,1 | 15,5 | - | 18,9 | - | - | - |
| 100 | - | - | - | 6,233 | - | 9,67 | 11,2 | 15,11 | 17,9 | 17,5 | 19,12 | 23,42 | 25,6 | 28,3 | 29,1 |
| 110 | - | - | - | - | - | 9,9 | 13 | 16 | 18,9 | - | 21,32 | 23,9 | - | - | - |
| 120 | - | - | - | - | - | 10,8 | 15,04 | 18,6 | 22,08 | 21,42 | 23,51 | 28,8 | 31,8 | 35,8 | 36,9 |
| 125 | - | - | - | - | - | 11,3 | 15,52 | 18,84 | 22,37 | - | 24,61 | 29,2 | - | - | - |
| 130 | - | - | - | - | - | 11,8 | 15,5 | 19,1 | 22,6 | - | 25,71 | 28,9 | - | - | - |
| 140 | - | - | - | - | - | 12,7 | 17,6 | 21,39 | 25,43 | 25,38 | 27,91 | 33,28 | 38,1 | 43,4 | 44,8 |
| 150 | - | - | - | - | - | 13,7 | 18,88 | 22,96 | 27,32 | 27,4 | 30,11 | 35,48 | 41,3 | 47,1 | 48,7 |
| 160 | - | - | - | - | - | 14,6 | 20,16 | 24,53 | 29,2 | 29,3 | 32,31 | 37,37 | 44,4 | 50,9 | 52,6 |
| 175 | - | - | - | - | - | 16 | 21,2 | 26,2 | 31,1 | - | 35,6 | 40,2 | - | - | - |
| 180 | - | - | - | - | - | 16,5 | 21,8 | 27 | 32,1 | 33,3 | 36,7 | 41,5 | 50,7 | 58,5 | 60,5 |
| 200 | - | - | - | - | - | 24,3 | 30,1 | 35,8 | 37,2 | 41,1 | 46,5 | 57 | 66 | 68,2 | - |
| 220 | - | - | - | - | - | 26,8 | 33,2 | 39,6 | 41,2 | - | 51,5 | 63,2 | 73,5 | 76,3 | - |
| 250 | - | - | - | - | - | 30,6 | 38 | 45,2 | 47,1 | 52,09 | 59,1 | 72,7 | 84,8 | 88 | - |
| 260 | - | - | - | - | - | - | - | - | 47,1 | 49,1 | 61,6 | 75,8 | 88,6 | 91,9 | - |



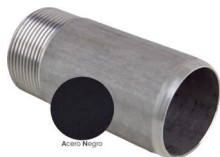
TUBO REDONDO

| Diámetro "a" | Espesor "e" (Kg/m.) | | | | | | | | | |
|-----------------|---------------------|-------|-------|-------|-------|-------|-------|------|------|------|
| | 0,6 | 0,8 | 1 | 1,25 | 1,5 | 2 | 2,5 | 3 | 4 | 5 |
| 10 | - | 0,201 | 0,243 | 0,292 | 0,353 | 0,455 | - | - | - | - |
| 12 | 0,188 | 0,245 | 0,298 | 0,358 | 0,436 | 0,565 | - | - | - | - |
| 13 | 0,203 | 0,264 | 0,322 | 0,386 | 0,471 | 0,612 | - | - | - | - |
| 14 | - | 0,276 | 0,338 | 0,405 | 0,495 | 0,644 | - | - | - | - |
| 16 | 0,24 | 0,314 | 0,385 | 0,462 | 0,565 | 0,738 | - | - | - | - |
| 18 | 0,287 | - | 0,44 | 0,528 | 0,648 | 0,848 | - | - | - | - |
| 19 | - | 0,377 | 0,463 | 0,556 | 0,683 | 0,895 | - | - | - | - |
| 20 | - | - | 0,487 | 0,584 | 0,718 | 0,942 | - | - | - | - |
| 21,3 | - | - | - | - | - | 0,95 | 1,16 | 1,35 | - | - |
| 22 | - | 0,44 | 0,542 | 0,65 | 0,801 | 1,052 | 1,052 | - | - | - |
| 25 | - | 0,502 | 0,62 | 0,744 | 0,918 | 1,209 | - | - | - | - |
| 26,9 | - | - | - | - | - | 1,23 | 1,5 | 1,77 | - | - |
| 28 | - | - | 0,714 | 0,857 | 1,036 | 1,366 | - | - | - | - |
| 30 | - | - | 0,738 | 0,885 | 1,095 | 1,444 | - | 2 | - | - |
| 32 | - | - | 0,777 | 0,933 | 1,154 | 1,523 | - | - | - | - |
| 33 | - | - | - | - | 1,213 | - | - | - | - | - |
| 33,7 | - | - | - | - | - | 1,56 | 1,92 | 2,27 | - | - |
| 34 | - | - | - | - | 1,236 | 1,633 | - | - | - | - |
| 35 | - | - | 0,856 | 1,027 | 1,272 | 1,68 | - | - | - | - |
| 38 | - | - | - | 1,14 | 1,389 | 1,837 | - | - | - | - |
| 40 | - | - | - | 1,187 | 1,472 | 1,947 | - | 2,78 | - | - |
| 41 | - | - | - | 1,215 | 1,507 | 1,994 | - | - | - | - |
| 42 | - | - | - | 1,234 | 1,531 | 2,025 | - | - | - | - |
| 42,4 | - | - | - | - | - | 1,99 | 2,46 | 2,91 | 3,79 | - |
| 45 | - | - | - | 1,328 | 1,625 | 2,151 | - | 3,07 | - | - |
| 48 | - | - | - | 1,422 | 1,766 | 2,324 | - | - | - | - |
| 48,3 | - | - | - | - | - | 2,28 | 2,82 | 3,35 | 4,37 | 5,34 |
| 50 | - | - | - | 1,517 | 1,86 | 2,465 | - | 3,53 | 4,54 | - |
| 55 | - | - | - | - | 2,025 | 2,685 | - | 3,85 | 5,03 | - |
| 57 | - | - | - | - | 2,096 | 2,779 | - | 4 | 5,23 | - |
| 60 | - | - | - | - | 2,214 | 2,936 | - | - | - | - |
| 60,3 | - | - | - | - | - | 2,88 | 3,56 | 4,24 | 5,55 | 6,82 |
| 63 | - | - | - | - | - | - | - | 4,44 | 5,82 | - |
| 65 | - | - | - | - | 2,379 | 3,156 | - | - | - | - |

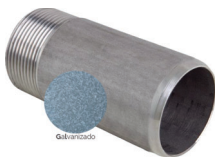


TUBO REDONDO

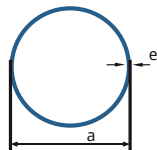
| Diámetro "a" | Espesor "e" (Kg/m.) | | | | | | | | | | | | | |
|-----------------|---------------------|-------|------|------|-------|-------|-------|------|-------|-------|------|------|------|---|
| | 1,5 | 2 | 2,5 | 3 | 4 | 5 | 6 | 6,3 | 7 | 8 | 10 | 12 | 12,5 | |
| 70 | 2,567 | 3,407 | - | 4,89 | 6,51 | - | - | - | - | - | - | - | - | - |
| 75 | 2,802 | 3,721 | - | - | - | - | - | - | - | - | - | - | - | - |
| 76,1 | - | 3,65 | 4,54 | 5,41 | 7,11 | 8,77 | 10,4 | 10,8 | - | - | - | - | - | - |
| 80 | 2,956 | 3,925 | - | 5,62 | 7,5 | 9,42 | 10,95 | - | - | - | - | - | - | - |
| 83 | - | - | - | 5,92 | 7,79 | - | - | - | - | - | - | - | - | - |
| 88,9 | - | 4,29 | 5,33 | 6,36 | 8,38 | 10,3 | 12,3 | 12,8 | - | - | - | - | - | - |
| 89 | - | 4,349 | - | - | - | - | - | - | - | - | - | - | - | - |
| 90 | - | - | - | 6,44 | 8,48 | - | - | - | - | - | - | - | - | - |
| 95 | - | - | - | 6,81 | 8,98 | - | - | - | - | - | - | - | - | - |
| 100 | - | 4,898 | - | 7,18 | 9,47 | 12,05 | 14,37 | - | 16,06 | 18,15 | - | - | - | - |
| 101,6 | - | 4,91 | 6,11 | 7,29 | 9,63 | 11,9 | 14,1 | 14,8 | - | - | - | - | - | - |
| 108 | - | - | - | 7,77 | 10,26 | - | - | - | - | - | - | - | - | - |
| 110 | - | - | - | 7,92 | 10,46 | - | - | - | - | - | - | - | - | - |
| 113 | - | - | - | 8,14 | 10,75 | 13,32 | 15,83 | - | - | - | - | - | - | - |
| 114,3 | - | - | 6,89 | 8,23 | 10,9 | 13,5 | 16 | 16,8 | 18,5 | 21 | 25,7 | - | - | - |
| 120 | - | - | - | 8,7 | 11,4 | - | - | - | - | - | - | - | - | - |
| 125 | - | - | - | 9 | 11,9 | 14,8 | 17,6 | - | 20,4 | 23,1 | - | - | - | - |
| 127 | - | - | - | 9,2 | 12,1 | - | - | - | - | - | - | - | - | - |
| 133 | - | - | - | 9,6 | 12,7 | 15,8 | 18,8 | - | - | - | - | - | - | - |
| 139,7 | - | - | - | 10,1 | 13,4 | 16,6 | 19,8 | 20,7 | 22,9 | 26 | 32 | - | - | - |
| 152 | - | - | - | 11 | 14,6 | 18,1 | 21,6 | - | - | - | - | - | - | - |
| 152,4 | - | - | - | 11,1 | 14,6 | 18,2 | 21,7 | - | - | - | - | - | - | - |
| 159 | - | - | - | 11,5 | 15,3 | 19 | 22,6 | - | 26,2 | 29,8 | - | - | - | - |
| 164 | - | - | - | 11,9 | 15,8 | - | - | - | - | - | - | - | - | - |
| 168,3 | - | - | - | 12,2 | 16,2 | 20,1 | 24 | 25,2 | 27,8 | 31,6 | 39 | - | - | - |
| 177,8 | - | - | - | 12,9 | 17,1 | 21,3 | 25,4 | 26,6 | 29,5 | 33,5 | 41,4 | 49,1 | 51 | - |
| 193,7 | - | - | - | 14,1 | 18,7 | 23,3 | 27,8 | 29,1 | 32,2 | 36,6 | 45,3 | 53,8 | 55,9 | - |
| 200 | - | - | - | 14,6 | 19,3 | 24 | 28,7 | - | 33,3 | 37,9 | - | - | - | - |
| 219,1 | - | - | - | 16 | 21,2 | 26,4 | 31,5 | 33,1 | 36,6 | 41,6 | 51,6 | 61,3 | 63,7 | - |
| 244,5 | - | - | - | - | 23,7 | 29,5 | 35,3 | 37 | 41 | 46,7 | 57,8 | 68,8 | 71,5 | - |
| 273 | - | - | - | - | 23,7 | 33 | 39,5 | 41,4 | 45,9 | 52,3 | 64,9 | 77,2 | 80,3 | - |
| 323,9 | - | - | - | - | 31,6 | 39,3 | 47 | 49,3 | 54,7 | 62,3 | 77,4 | 92,3 | 96 | - |



Acero Negro

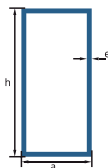
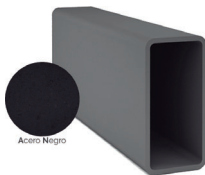


Galvanizado



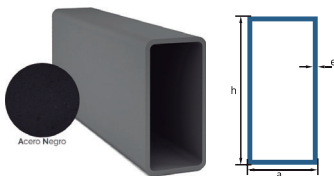
TUBO REDONDO DE PRESIÓN

| Diám. Ext. Especificado (mm) "a" | Dimensión Rosca R | Diámetro Rosca (mm) | | Espesor de Pared (mm) T | Liso Ranurado | Roscado con Manguito |
|----------------------------------|-------------------|---------------------|-----------|-------------------------|--------------------|----------------------|
| | | máx. (mm) | min. (mm) | | Masa Lineal (kg/m) | Masa Lineal (kg/m) |
| 17,2 | 3/8 | 17,1 | 16,7 | 1,8 | 0,67 | 0,68 |
| 17,2 | 3/8 | 17,5 | 16,7 | 2,3 | 0,84 | 0,85 |
| 21,3 | 1/2 | 21,4 | 21 | 2 | 0,95 | 0,96 |
| 21,3 | 1/2 | 21,8 | 21 | 2,6 | 1,21 | 1,22 |
| 26,9 | 3/4 | 26,9 | 26,4 | 2,3 | 1,38 | 1,39 |
| 26,9 | 3/4 | 27,3 | 26,5 | 2,6 | 1,56 | 1,57 |
| 33,7 | 1 | 33,8 | 33,2 | 2,6 | 1,98 | 2 |
| 33,7 | 1 | 34,2 | 33,3 | 3,2 | 2,41 | 2,43 |
| 42,4 | 1 1/4 | 42,5 | 41,9 | 2,6 | 2,54 | 2,57 |
| 42,4 | 1 1/4 | 42,9 | 42 | 3,2 | 3,1 | 3,13 |
| 48,3 | 1 1/2 | 48,4 | 47,8 | 2,9 | 3,23 | 3,27 |
| 48,3 | 1 1/2 | 48,8 | 47,9 | 3,2 | 3,56 | 3,6 |
| 60,3 | 2 | 60,2 | 59,6 | 2,9 | 4,08 | 4,15 |
| 60,3 | 2 | 60,8 | 59,7 | 3,6 | 5,03 | 5,1 |
| 76,1 | 2 1/2 | 76 | 75,2 | 3,2 | 5,71 | 5,83 |
| 76,1 | 2 1/2 | 76,6 | 75,3 | 3,6 | 6,42 | 6,54 |
| 88,9 | 3 | 88,7 | 87,9 | 3,2 | 6,72 | 6,89 |
| 88,9 | 3 | 89,5 | 88 | 4 | 8,36 | 8,53 |
| 101,6 | 3 1/2 | 101 | 100,2 | 3,6 | 8,6 | 8,8 |
| 101,6 | 3 1/2 | 101,6 | 100 | 4 | 9,7 | 9,95 |
| 114,3 | 4 | 113,9 | 113 | 3,6 | 9,75 | 10 |
| 114,3 | 4 | 115 | 113,1 | 4,5 | 12,2 | 12,5 |
| 139,7 | 5 | 140,8 | 138,5 | 5 | 16,6 | 17,1 |
| 165,1 | 6 | 166,5 | 163,9 | 5 | 19,8 | 20,4 |



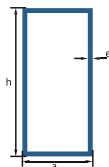
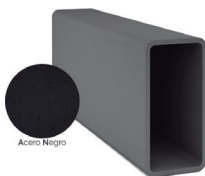
TUBO RECTANGULAR

| Dimensiones (mm) | Dimensiones (mm) | | Espesor "e" (Kg/m.) | | | | | | | | | |
|------------------|------------------|----|---------------------|-------|-------|-------|-------|------|------|------|------|------|
| | h | a | 0,8 | 1 | 1,25 | 1,5 | 2 | 2,5 | 3 | 4 | 5 | 6 |
| 15x10 | 15 | 10 | - | 0,385 | 0,462 | 0,565 | - | - | - | - | - | - |
| 20x10 | 20 | 10 | - | 0,463 | - | 0,683 | - | - | - | - | - | - |
| 20x15 | 20 | 15 | - | 0,542 | - | 0,801 | - | - | - | - | - | - |
| 25x10 | 25 | 10 | - | 0,542 | - | 0,801 | - | - | - | - | - | - |
| 25x15 | 25 | 15 | - | 0,636 | - | 0,942 | 1,24 | - | - | - | - | - |
| 30x10 | 30 | 10 | - | 0,636 | - | 0,942 | - | - | - | - | - | - |
| 30x15 | 30 | 15 | - | 0,699 | 0,838 | 1,036 | - | - | - | - | - | - |
| 30x20 | 30 | 20 | 0,628 | 0,777 | 0,933 | 1,154 | 1,523 | - | 1,89 | - | - | - |
| 30x25 | 30 | 25 | - | - | - | 1,272 | - | - | - | - | - | - |
| 32x13 | 32 | 13 | - | - | - | 1,036 | - | - | - | - | - | - |
| 35x10 | 35 | 10 | - | - | - | 1,036 | - | - | - | - | - | - |
| 35x15 | 35 | 15 | - | 0,777 | - | 1,154 | - | - | - | - | - | - |
| 35x20 | 35 | 20 | 0,691 | 0,856 | 1,027 | 1,272 | 1,68 | - | - | - | - | - |
| 35x25 | 35 | 25 | - | - | - | 1,389 | - | - | - | - | - | - |
| 40x10 | 40 | 10 | - | 0,777 | - | 1,154 | - | - | - | - | - | - |
| 40x15 | 40 | 15 | - | 0,856 | - | 1,272 | - | - | - | - | - | - |
| 40x20 | 40 | 20 | - | 0,95 | 1,14 | 1,389 | 1,68 | 2,03 | 2,36 | - | - | - |
| 40x25 | 40 | 25 | - | - | - | 1,507 | 1,994 | - | 2,6 | - | - | - |
| 40x27 | 40 | 27 | - | - | - | - | - | - | 2,69 | - | - | - |
| 40x30 | 40 | 30 | - | 1,107 | - | 1,625 | 2,151 | - | 2,83 | - | - | - |
| 45x20 | 45 | 20 | - | - | - | 1,507 | - | - | - | - | - | - |
| 45x25 | 45 | 25 | - | - | - | 1,625 | 2,167 | - | 2,83 | - | - | - |
| 45x30 | 45 | 30 | - | - | - | - | - | - | 3,07 | - | - | - |
| 45x35 | 45 | 35 | - | - | - | - | - | - | 3,3 | 4,2 | - | - |
| 50x10 | 50 | 10 | - | 0,95 | - | 1,389 | - | - | - | - | - | - |
| 50x14 | 50 | 14 | - | - | - | 1,507 | 1,994 | - | - | - | - | - |
| 50x20 | 50 | 20 | - | - | 1,328 | 1,625 | 2,151 | - | 2,83 | - | - | - |
| 50x25 | 50 | 25 | - | - | - | 1,743 | 2,308 | - | 3,07 | - | - | - |
| 50x30 | 50 | 30 | - | - | 1,517 | 1,86 | 2,465 | 2,82 | 3,3 | 4,2 | - | - |
| 50x35 | 50 | 35 | - | - | - | 1,978 | - | - | 3,54 | - | - | - |
| 50x40 | 50 | 40 | - | - | - | 2,096 | 2,779 | - | 3,78 | 4,83 | - | - |
| 55x25 | 55 | 25 | - | - | - | 1,86 | 2,465 | - | - | - | - | - |
| 55x35 | 55 | 35 | - | - | - | 2,096 | 2,779 | - | - | - | - | - |
| 60x10 | 60 | 10 | - | - | - | 1,625 | - | - | - | - | - | - |
| 60x15 | 60 | 15 | - | - | - | 1,743 | - | - | - | - | - | - |
| 60x20 | 60 | 20 | - | - | - | 1,86 | - | - | 3,3 | - | - | - |
| 60x25 | 60 | 25 | - | - | - | 1,978 | - | - | 3,54 | - | - | - |
| 60x30 | 60 | 30 | - | - | - | 2,096 | 2,779 | - | 3,78 | 4,83 | - | - |
| 60x40 | 60 | 40 | - | - | - | 2,331 | 3,093 | 3,6 | 4,25 | 5,45 | 6,56 | 7,56 |
| 60x50 | 60 | 50 | - | - | - | - | - | - | 4,72 | 6,08 | - | - |



TUBO RECTANGULAR

| Dimensiones (mm) | Dimensiones (mm) | | Espesor "e" (Kg/m.) | | | | | | | | | | |
|------------------|------------------|-----|---------------------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|
| | h | a | 1,25 | 1,5 | 2 | 2,5 | 3 | 4 | 5 | 6 | 6,3 | 7 | 8 |
| 70x20 | 70 | 20 | 1,705 | 2,096 | 2,779 | - | - | - | - | - | - | - | - |
| 70x30 | 70 | 30 | - | 2,331 | 3,093 | - | 4,25 | 5,46 | - | - | - | - | - |
| 70x40 | 70 | 40 | - | 2,567 | 3,407 | - | 4,72 | 6,08 | 7,35 | 8,5 | - | - | - |
| 70x50 | 70 | 50 | - | - | 3,56 | 4,39 | 5,19 | 6,71 | 8,13 | 9,44 | - | - | - |
| 80x20 | 80 | 20 | - | 2,331 | - | - | 4,25 | - | - | - | - | - | - |
| 80x25 | 80 | 25 | - | - | - | - | 4,48 | - | - | - | - | - | - |
| 80x30 | 80 | 30 | - | 2,567 | - | - | 4,72 | 6,08 | - | - | - | - | - |
| 80x40 | 80 | 40 | - | 2,802 | 3,721 | 4,39 | 5,19 | 6,71 | 8,13 | 9,45 | - | - | - |
| 80x45 | 80 | 45 | - | - | - | - | 5,42 | 7,03 | - | - | - | - | - |
| 80x50 | 80 | 50 | - | - | - | - | 5,66 | 7,34 | 8,92 | 10,39 | - | - | - |
| 80x60 | 80 | 60 | - | - | 4,349 | 5,17 | 6,13 | 7,97 | 9,7 | 11,33 | - | - | - |
| 90x30 | 90 | 30 | - | - | - | - | 5,19 | 6,71 | - | - | - | - | - |
| 90x40 | 90 | 40 | - | - | 4,035 | - | 5,66 | 7,34 | 8,92 | - | - | - | - |
| 90x50 | 90 | 50 | - | - | 4,349 | 5,17 | 6,13 | 7,97 | 9,7 | 11,33 | - | - | - |
| 90x60 | 90 | 60 | - | - | - | - | - | - | - | 12,27 | - | - | - |
| 100x40 | 100 | 40 | - | - | 4,349 | 5,17 | 6,13 | 7,97 | 9,7 | 11,33 | - | - | - |
| 100x50 | 100 | 50 | - | - | 4,663 | 5,56 | 6,6 | 8,59 | 10,5 | 12,3 | 12,5 | - | - |
| 100x60 | 100 | 60 | - | - | 4,977 | 5,96 | 7,07 | 9,22 | 11,3 | 13,2 | 13,5 | 14,72 | 16,36 |
| 100x80 | 100 | 80 | - | - | - | 6,74 | 8,01 | 10,5 | 12,8 | 15,1 | 15,5 | 16,92 | 18,87 |
| 120x40 | 120 | 40 | - | - | 4,977 | - | - | 9,59 | - | 13,21 | - | - | - |
| 120x60 | 120 | 60 | - | - | 5,605 | 6,74 | 8,01 | 10,5 | 12,8 | 15,1 | 15,5 | 16,92 | 18,9 |
| 120x80 | 120 | 80 | - | - | - | - | 8,96 | 11,7 | 14,4 | 17 | 17,5 | 19,11 | 21,4 |
| 120x100 | 120 | 100 | - | - | - | - | - | 12,99 | 15,98 | 18,86 | - | 21,31 | 23,9 |
| 138x60 | 138 | 60 | - | - | - | - | - | 12,38 | - | - | - | - | - |
| 140x60 | 140 | 60 | - | - | - | - | 9,32 | - | - | 16,98 | - | 19,11 | 21,38 |
| 140x70 | 140 | 70 | - | - | - | - | 9,43 | 12,36 | 15,2 | 17,92 | - | 20,21 | 22,64 |
| 140x80 | 140 | 80 | - | - | - | - | 9,9 | 13 | 16 | 18,9 | 19,47 | 21,31 | 23,9 |

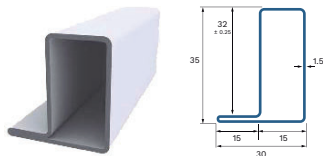


TUBO RECTANGULAR

| Dimensiones (mm) | Dimensiones (mm) | | Espesor "e" (Kg/m.) | | | | | | | | | |
|------------------|------------------|-----|---------------------|-------|-------|-------|------|-------|-------|------|------|------|
| | h | a | 3 | 4 | 5 | 6 | 6,3 | 7 | 8 | 10 | 12 | 12,5 |
| 150x50 | 150 | 50 | 9,32 | 12,38 | - | - | - | 19,11 | 21,38 | - | - | - |
| 150x70 | 150 | 70 | - | - | - | - | - | 21,31 | 23,9 | - | - | - |
| 150x75 | 150 | 75 | - | - | - | - | - | 21,86 | 24,52 | - | - | - |
| 150x100 | 150 | 100 | 11,3 | 14,9 | 18,3 | 21,7 | 22,4 | 24,61 | 27,7 | 33,4 | 37,7 | 38,9 |
| 160x80 | 160 | 80 | - | 14,2 | 17,5 | 20,7 | 21,4 | 23,51 | 26,4 | 31,8 | 35,8 | 36,9 |
| 160x90 | 160 | 90 | - | - | - | - | - | 24,61 | 27,66 | - | - | - |
| 160x120 | 160 | 120 | - | 17,47 | - | - | - | 27,91 | 31,43 | - | - | - |
| 160x140 | 160 | 140 | - | - | - | - | - | 30,1 | 33,94 | - | - | - |
| 180x80 | 180 | 80 | 11,8 | - | - | - | - | 25,71 | 28,92 | - | - | - |
| 180x100 | 180 | 100 | - | 16,8 | 20,7 | 24,5 | 25,4 | 27,91 | 31,4 | 38,1 | 43,4 | 44,8 |
| 180x120 | 180 | 120 | - | - | - | 27,46 | - | 30,1 | 33,94 | - | - | - |
| 180x140 | 180 | 140 | - | - | - | - | - | 32,3 | 36,46 | - | - | - |
| 200x80 | 200 | 80 | - | 16,8 | - | 25,4 | - | - | 31,43 | - | - | - |
| 200x100 | 200 | 100 | 13,7 | 18 | 22,3 | 26,4 | 27,4 | 30,1 | 33,9 | 41,3 | 47,1 | 48,7 |
| 200x120 | 200 | 120 | - | 19,3 | 23,8 | 28,3 | 29,3 | 32,3 | 36,5 | 44,4 | 50,9 | 52,6 |
| 200x150 | 200 | 150 | - | - | 26,2 | - | - | 35,6 | 40,22 | - | - | - |
| 200x160 | 200 | 160 | 16,49 | 21,78 | 26,97 | 32,05 | - | 36,7 | 41,48 | - | - | - |
| 220x120 | 220 | 120 | - | - | - | - | - | 34,5 | 38,97 | - | - | - |
| 220x140 | 220 | 140 | - | - | - | 32,05 | - | 36,7 | 41,48 | - | - | - |
| 250x100 | 250 | 100 | - | - | 26,2 | - | - | 35,6 | 40,22 | - | - | - |
| 250x150 | 250 | 150 | - | 24,3 | 30,1 | 35,8 | 37,2 | 41,09 | 46,5 | 57 | 66 | 68,3 |
| 250x200 | 250 | 200 | - | 27,44 | 34,04 | 40,53 | - | 46,59 | 52,78 | - | - | - |
| 260x140 | 260 | 140 | - | - | - | 35,82 | - | - | 46,5 | - | - | - |
| 260x180 | 260 | 180 | - | - | 33,2 | 39,59 | 41,2 | - | 51,5 | 63,2 | 73,5 | 76,2 |
| 300x100 | 300 | 100 | - | 24,3 | 30,11 | 35,8 | 37,2 | - | 46,5 | 57 | 66 | 68,3 |
| 300x150 | 300 | 150 | - | 27,44 | 34,04 | 40,5 | 42,2 | - | 52,8 | 64,8 | 75,4 | 78,1 |
| 300x200 | 300 | 200 | - | 30,58 | 37,96 | 45,2 | 47,1 | 52,08 | 59,1 | 72,7 | 84,8 | 88 |

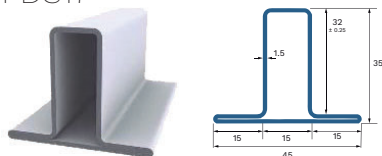
PERFILES CARPINTERÍA

PDS4



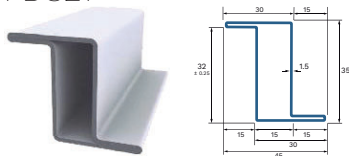
| Referencia | Kg/m | Serie |
|------------|-------|-------|
| PDS4 | 1.407 | A |

PDS17



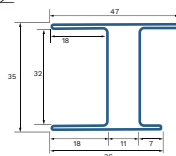
| Referencia | Kg/m | Serie |
|------------|-------|-------|
| PDS17 | 1.778 | A |

PDS21



| Referencia | Kg/m | Serie |
|------------|-------|-------|
| PDS21 | 1.778 | A |

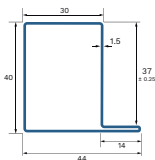
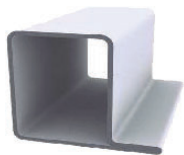
PDS22



| Referencia | Kg/m | Espesor |
|------------|-------|---------|
| PDS22x1.2 | 1.920 | 1.2 |
| PDS22 | 2.308 | 1.5 |

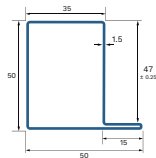
PERFILES CARPINTERÍA

PDS26



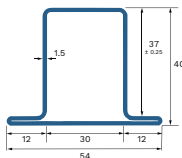
| Referencia | Kg/m | Serie |
|------------|-------|-------|
| PDS26 | 1.492 | A |

PDS28

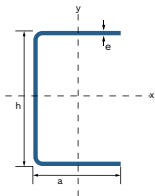


| Referencia | Kg/m | Serie |
|------------|-------|-------|
| PDS28 | 1.778 | A |

PDS41

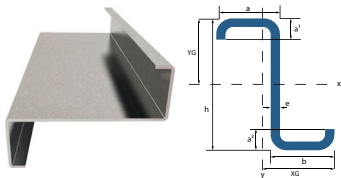


| Referencia | Kg/m | Serie |
|------------|-------|-------|
| PDS41 | 2.249 | A |



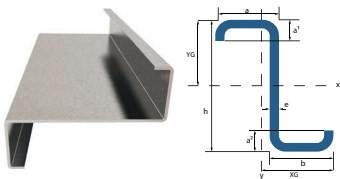
U LAMINADA EN FRÍO

| Dimensiones (mm) | | Espesor "e" (Kg/m.) | | | | |
|------------------|----|---------------------|-------|-------|-------|-------|
| h | a | 1,5 | 2 | 2,6 | 3 | 4 |
| 20 | 12 | 0,450 | 0,830 | - | - | - |
| 20 | 20 | 0,650 | - | - | - | - |
| 25 | 20 | 0,700 | - | - | - | - |
| 25 | 25 | 0,820 | 1,070 | - | 1,530 | - |
| 30 | 30 | 0,990 | 1,290 | - | 1,890 | - |
| 32 | 27 | - | 1,230 | - | - | - |
| 35 | 35 | 1,170 | - | - | - | - |
| 40 | 20 | 0,880 | 1,150 | - | 1,650 | - |
| 40 | 35 | - | - | - | 2,310 | - |
| 41 | 29 | - | 1,430 | - | 2,050 | - |
| 45 | 32 | - | 1,590 | - | - | - |
| 50 | 25 | - | 1,440 | 1,830 | 2,120 | - |
| 50 | 30 | - | - | - | 2,360 | - |
| 60 | 30 | - | - | - | - | 3,300 |
| 60 | 30 | - | 1,760 | - | 2,590 | - |
| 60 | 40 | - | - | - | - | 3,89 |
| 70 | 35 | - | - | - | - | 3,93 |
| 80 | 40 | - | - | - | - | 4,56 |
| 90 | 45 | - | - | - | - | 5,15 |
| 100 | 50 | - | - | - | - | 5,81 |
| 120 | 50 | - | - | - | - | 6,41 |
| 140 | 50 | - | - | - | - | 7,07 |
| 150 | 50 | - | - | - | - | 7,38 |
| 120 | 60 | - | - | - | - | 7,07 |



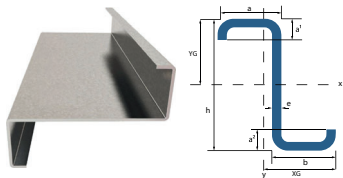
CORREA Z

| Dimensiones (mm) | Dimensiones (mm) | | | | | | Peso (kg/m.) |
|------------------|------------------|----|----|-----|----|-----|--------------|
| | h | a | b | e | a' | a'' | |
| 80x60x2 | 80 | 60 | 53 | 2 | 17 | 15 | 3.28 |
| 80x60x2.5 | 80 | 60 | 53 | 2.5 | 17 | 15 | 4.02 |
| 80x60x3 | 80 | 60 | 53 | 3 | 17 | 15 | 4.73 |
| 80x60x4 | 80 | 60 | 53 | 4 | 17 | 15 | 6.06 |
| 100x53x2 | 100 | 53 | 48 | 2 | 17 | 15 | 3.41 |
| 100x53x2.5 | 100 | 53 | 48 | 2.5 | 17 | 15 | 4.18 |
| 100x53x3 | 100 | 53 | 48 | 3 | 17 | 15 | 4.92 |
| 100x53x4 | 100 | 53 | 48 | 4 | 17 | 15 | 6.31 |
| 120x60x2 | 120 | 60 | 53 | 2 | 20 | 17 | 3.96 |
| 120x60x2.5 | 120 | 60 | 53 | 2.5 | 20 | 17 | 4.91 |
| 120x60x3 | 120 | 60 | 53 | 3 | 20 | 17 | 5.79 |
| 120x60x4 | 120 | 60 | 53 | 4 | 20 | 17 | 7.47 |
| 125x53x2 | 125 | 53 | 48 | 2 | 17 | 15 | 3.82 |
| 125x53x2.5 | 125 | 53 | 48 | 2.5 | 17 | 15 | 4.73 |
| 125x53x3 | 125 | 53 | 48 | 3 | 17 | 15 | 5.63 |
| 125x53x4 | 125 | 53 | 48 | 4 | 17 | 15 | 7.10 |
| 140x60x2 | 140 | 60 | 53 | 2 | 20 | 17 | 4.21 |
| 140x60x2.5 | 140 | 60 | 53 | 2.5 | 20 | 17 | 5.22 |
| 140x60x3 | 140 | 60 | 53 | 3 | 20 | 17 | 6.29 |
| 140x60x4 | 140 | 60 | 53 | 4 | 20 | 17 | 8.10 |
| 150x53x2 | 150 | 53 | 48 | 2 | 17 | 15 | 4.21 |
| 150x53x2.5 | 150 | 53 | 48 | 2.5 | 17 | 15 | 5.22 |
| 150x53x3 | 150 | 53 | 48 | 3 | 17 | 15 | 6.08 |
| 150x53x4 | 150 | 53 | 48 | 4 | 17 | 15 | 7.98 |
| 160x60x2 | 160 | 60 | 53 | 2 | 17 | 15 | 4.60 |
| 160x60x2.5 | 160 | 60 | 53 | 2.5 | 17 | 15 | 5.71 |
| 160x60x3 | 160 | 60 | 53 | 3 | 17 | 15 | 6.81 |
| 160x60x4 | 160 | 60 | 53 | 4 | 17 | 15 | 8.70 |



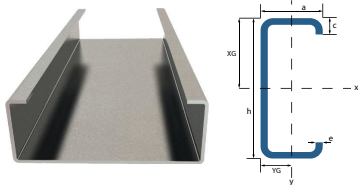
CORREA Z

| Dimensiones (mm) | Dimensiones (mm) | | | | | | Peso (kg/m.) |
|------------------|------------------|----|----|-----|----------------|----------------|--------------|
| | h | a | b | e | a ¹ | a ² | |
| 175x53x2 | 175 | 53 | 48 | 2 | 17 | 15 | 4.60 |
| 175x53x2.5 | 175 | 53 | 48 | 2.5 | 17 | 15 | 5.71 |
| 175x53x3 | 175 | 53 | 48 | 3 | 17 | 15 | 6.81 |
| 175x53x4 | 175 | 53 | 48 | 4 | 17 | 15 | 8.70 |
| 180x60x2 | 180 | 60 | 53 | 2 | 17 | 15 | 4.90 |
| 180x60x2.5 | 180 | 60 | 53 | 2.5 | 17 | 15 | 6.06 |
| 180x60x3 | 180 | 60 | 53 | 3 | 17 | 15 | 7.21 |
| 180x60x4 | 180 | 60 | 53 | 4 | 17 | 15 | 9.29 |
| 200x80x70 | 200 | 80 | 70 | 2 | 25 | 22 | 6.00 |
| 200x80x2.5 | 200 | 80 | 70 | 2.5 | 25 | 22 | 7.44 |
| 200x80x3 | 200 | 80 | 70 | 3 | 25 | 22 | 8.81 |
| 200x80x4 | 200 | 80 | 70 | 4 | 25 | 22 | 11.49 |
| 225x80x2 | 225 | 80 | 70 | 2 | 25 | 22 | 6.39 |
| 225x80x2.5 | 225 | 80 | 70 | 2.5 | 25 | 22 | 7.91 |
| 225x80x3 | 225 | 80 | 70 | 3 | 25 | 22 | 9.40 |
| 225x80x4 | 225 | 80 | 70 | 4 | 25 | 22 | 12.28 |
| 250x80x2 | 250 | 80 | 70 | 2 | 25 | 22 | 6.78 |
| 250x80x2.5 | 250 | 80 | 70 | 2.5 | 25 | 22 | 8.42 |



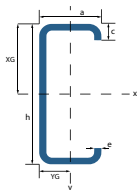
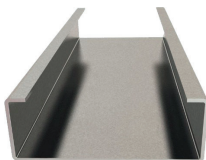
CORREA Z

| Dimensiones (mm) | Dimensiones (mm) | | | | | | Peso (kg/m.) |
|------------------|------------------|----|----|-----|----------------|----------------|--------------|
| | h | a | b | e | a ¹ | a ² | |
| 250x80x3 | 250 | 80 | 70 | 3 | 25 | 22 | 10.01 |
| 250x80x4 | 250 | 80 | 70 | 4 | 25 | 22 | 13.03 |
| 275x80x2 | 275 | 80 | 70 | 2 | 25 | 25 | 7.17 |
| 275x80x2.5 | 275 | 80 | 70 | 2.5 | 25 | 22 | 8.89 |
| 275x80x3 | 275 | 80 | 70 | 3 | 25 | 22 | 10.57 |
| 275x80x4 | 275 | 80 | 70 | 4 | 25 | 22 | 13.85 |
| 300x80x2 | 300 | 80 | 70 | 2 | 25 | 22 | 7.57 |
| 300x80x2.5 | 300 | 80 | 70 | 2.5 | 25 | 22 | 9.42 |
| 300x80x3 | 300 | 80 | 70 | 3 | 25 | 22 | 11.21 |
| 300x80x4 | 300 | 80 | 70 | 4 | 25 | 22 | 14.63 |
| 325x80x2 | 325 | 80 | 70 | 2 | 25 | 22 | 7.96 |
| 325x80x2.5 | 325 | 80 | 70 | 2.5 | 25 | 22 | 9.87 |
| 325x80x3 | 325 | 80 | 70 | 3 | 25 | 22 | 11.75 |
| 325x80x4 | 325 | 80 | 70 | 4 | 25 | 22 | 15.42 |
| 350x80x2 | 350 | 80 | 70 | 2 | 25 | 22 | 8.35 |
| 350x80x2.5 | 350 | 80 | 70 | 2.5 | 25 | 22 | 10.36 |
| 350x80x3 | 350 | 80 | 70 | 3 | 25 | 22 | 12.41 |
| 350x80x4 | 350 | 80 | 70 | 4 | 25 | 22 | 16.20 |



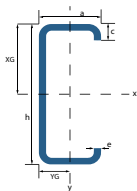
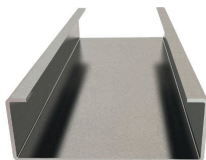
CORREA C

| Dimensiones (mm) | Dimensiones (mm) | | | | Peso (kg/m.) |
|------------------|------------------|----|----|-----|--------------|
| | h | a | b | e | |
| 80x40x1.5 | 80 | 40 | 15 | 1.5 | 2.10 |
| 80x40x2 | 80 | 40 | 15 | 2 | 2.73 |
| 80x40x2.5 | 80 | 40 | 15 | 2.5 | 3.38 |
| 80x50x1.5 | 80 | 50 | 15 | 1.5 | 2.33 |
| 80x50x2 | 80 | 50 | 15 | 2 | 3.06 |
| 80x50x2.5 | 80 | 50 | 15 | 2.5 | 3.77 |
| 100x50x2 | 100 | 50 | 15 | 2 | 3.41 |
| 100x50x2.5 | 100 | 50 | 15 | 2.5 | 4.18 |
| 100x50x3 | 100 | 50 | 15 | 3 | 4.92 |
| 100x50x4 | 100 | 50 | 15 | 4 | 6.31 |
| 115x50x2 | 115 | 50 | 15 | 2 | 3.61 |
| 115x50x2.5 | 115 | 50 | 15 | 2.5 | 4.45 |
| 115x50x3 | 115 | 50 | 15 | 3 | 5.25 |
| 120x50x2 | 120 | 50 | 19 | 2 | 3.82 |
| 120x50x2.5 | 120 | 50 | 19 | 2.5 | 4.73 |
| 120x50x3 | 120 | 50 | 19 | 3 | 5.63 |
| 120x50x4 | 120 | 50 | 19 | 4 | 7.10 |
| 125X50x2 | 125 | 50 | 19 | 2 | 3.82 |
| 125X50x2.5 | 125 | 50 | 19 | 2.5 | 4.73 |
| 125X50x3 | 125 | 50 | 19 | 3 | 5.63 |
| 125X50x4 | 125 | 50 | 19 | 4 | 7.25 |
| 140x50x2 | 140 | 50 | 19 | 2 | 4.13 |
| 140x50x2.5 | 140 | 50 | 19 | 2.5 | 5.06 |
| 140x50x3 | 140 | 50 | 19 | 3 | 5.98 |
| 140x50x4 | 140 | 50 | 19 | 4 | 7.72 |



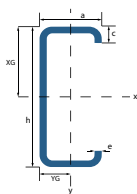
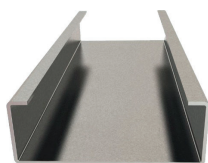
CORREA C

| Dimensiones (mm) | Dimensiones (mm) | | | | Peso (kg/m.) |
|------------------|------------------|----|----|-----|--------------|
| | h | a | b | e | |
| 150x50x2 | 150 | 50 | 19 | 2 | 4.21 |
| 150x50x2.5 | 150 | 50 | 19 | 2.5 | 5.22 |
| 150x50x3 | 150 | 50 | 19 | 3 | 6.22 |
| 150x50x4 | 150 | 50 | 19 | 4 | 8.04 |
| 150x60x2 | 150 | 60 | 19 | 2 | 4.76 |
| 150x60x2.5 | 150 | 60 | 19 | 2.5 | 5.89 |
| 150x60x3 | 150 | 60 | 19 | 3 | 6.97 |
| 150x60x4 | 150 | 60 | 19 | 4 | 9.04 |
| 160x60x2 | 160 | 60 | 19 | 2 | 4.76 |
| 160x60x2.5 | 160 | 60 | 19 | 2.5 | 5.89 |
| 160x60x3 | 160 | 60 | 19 | 3 | 6.97 |
| 160x60x4 | 160 | 60 | 19 | 4 | 9.04 |
| 175x50x2 | 175 | 50 | 19 | 2 | 4.60 |
| 175x50x2.5 | 175 | 50 | 19 | 2.5 | 5.71 |
| 175x50x3 | 175 | 50 | 19 | 3 | 6.81 |
| 175x50x4 | 175 | 50 | 19 | 4 | 8.70 |
| 175x60x2 | 175 | 60 | 19 | 2 | 4.90 |
| 175x60x2.5 | 175 | 60 | 19 | 2.5 | 6.06 |
| 175x60x3 | 175 | 60 | 19 | 3 | 7.21 |
| 175x60x4 | 175 | 60 | 19 | 4 | 9.29 |
| 180x60x2 | 180 | 60 | 19 | 2 | 5.10 |



CORREA C

| Dimensiones (mm) | Dimensiones (mm) | | | | Peso (kg/m.) |
|------------------|------------------|----|----|-----|--------------|
| | h | a | b | e | |
| 180x60x2.5 | 180 | 60 | 19 | 2.5 | 6.32 |
| 180x60x3 | 180 | 60 | 19 | 3 | 7.47 |
| 180x60x4 | 180 | 60 | 19 | 4 | 9.70 |
| 180x75x2 | 180 | 75 | 19 | 2 | 5.57 |
| 180x75x2.5 | 180 | 75 | 19 | 2.5 | 6.91 |
| 180x75x3 | 180 | 75 | 19 | 3 | 8.22 |
| 180x75x3.5 | 180 | 75 | 19 | 3.5 | 10.64 |
| 200x60x2 | 200 | 60 | 19 | 2 | 5.42 |
| 200x60x2.5 | 200 | 60 | 19 | 2.5 | 6.73 |
| 200x60x3 | 200 | 60 | 19 | 3 | 7.91 |
| 200x60x4 | 200 | 60 | 19 | 4 | 10.30 |
| 200x80x2 | 200 | 80 | 19 | 2 | 6.00 |
| 200x80x2.5 | 200 | 80 | 19 | 2.5 | 7.44 |
| 200x80x3 | 200 | 80 | 19 | 3 | 8.81 |
| 200x80x4 | 200 | 80 | 19 | 4 | 11.49 |
| 225x80x2 | 225 | 80 | 19 | 2 | 6.39 |
| 225x80x2.5 | 225 | 80 | 19 | 2.5 | 7.91 |
| 225x80x3 | 225 | 80 | 19 | 3 | 9.40 |
| 225x80x4 | 225 | 80 | 19 | 4 | 12.28 |
| 250x60x2 | 250 | 60 | 19 | 2 | 6.15 |
| 250x60x2.5 | 250 | 60 | 19 | 2.5 | 7.63 |



CORREA C

| Dimensiones (mm) | Dimensiones (mm) | | | | Peso (kg/m.) |
|------------------|------------------|----|----|-----|--------------|
| | h | a | b | e | |
| 250x60x3 | 250 | 60 | 19 | 3 | 9.07 |
| 250x60x4 | 250 | 60 | 19 | 4 | 11.81 |
| 250x80x2 | 250 | 80 | 19 | 2 | 6.78 |
| 250x80x2.5 | 250 | 80 | 19 | 2.5 | 8.42 |
| 250x80x3 | 250 | 80 | 19 | 3 | 10.01 |
| 250x80x4 | 250 | 80 | 19 | 4 | 13.03 |
| 275x80x2 | 275 | 80 | 19 | 2 | 7.17 |
| 275x80x2.5 | 275 | 80 | 19 | 2.5 | 8.89 |
| 275x80x3 | 275 | 80 | 19 | 3 | 10.57 |
| 275x80x4 | 275 | 80 | 19 | 4 | 13.85 |
| 300x80x2 | 300 | 80 | 19 | 2 | 7.57 |
| 300x80x2.5 | 300 | 80 | 19 | 2.5 | 9.42 |
| 300x80x3 | 300 | 80 | 19 | 3 | 11.21 |
| 300x80x4 | 300 | 80 | 19 | 4 | 14.63 |
| 325x80x2 | 325 | 80 | 19 | 2 | 7.99 |
| 325x80x2.5 | 325 | 80 | 19 | 2.5 | 9.87 |
| 325x80x3 | 325 | 80 | 19 | 3 | 11.75 |
| 325x80x4 | 325 | 80 | 19 | 4 | 15.42 |
| 350x80x2 | 350 | 80 | 19 | 2 | 8.35 |
| 350x80x2.5 | 350 | 80 | 19 | 2.5 | 10.36 |
| 350x80x3 | 350 | 80 | 19 | 3 | 12.41 |
| 350x80x4 | 350 | 80 | 19 | 4 | 16.20 |

MALLAS ELECTRO SOLDADAS

| Medidas (mm) "h"x"a" | Diámetro (mm) | Nº de Barras | Peso m ² (Kg/m ²) |
|-------------------------|------------------|-----------------|---|
| 15x15 | 4 | 11x37 | 1.101 |
| 15x16 Especial | 4 | 11x35 | 1.068 |
| 15x15 Maciza | 4 | 13x39 | 1.223 |
| 20x20 | 4 | 9x27 | 0.847 |
| 21x21 Especial | 4 | 9x26 | 0.831 |
| 20x20 Maciza | 4 | 11x29 | 0.97 |
| 20x30 | 4 | 9x18 | 0.699 |
| 15x15 | 5 | 11x37 | 1.721 |
| 15x16 Especial | 5 | 11x35 | 1.669 |
| 15x30 | 5 | 11x18 | 1.233 |
| 20x20 | 5 | 9x27 | 1.324 |
| 20x21 Especial | 5 | 9x26 | 1.298 |
| 20x30 | 5 | 9x18 | 1.093 |
| 20x31 | 5 | 9x17 | 1.067 |
| 15x15 | 6 | 11x37 | 2.479 |
| 15x16 Especial | 6 | 11x35 | 2.405 |
| 15x30 | 6 | 11x18 | 1.776 |
| 20x20 | 6 | 9x37 | 1.907 |
| 20x21 Especial | 6 | 9x26 | 1.870 |
| 15x15 | 8 | 11x37 | 4.406 |
| 15x16 Especial | 8 | 11x35 | 4.275 |
| 15x30 | 8 | 11x18 | 3.157 |
| 20x20 | 8 | 9x27 | 3.390 |
| 20x21 Especial | 8 | 9x26 | 3.324 |
| 15x15 | 10 | 10x36 | 6.501 |
| 15x16 Especial | 10 | 10x35 | 6.399 |
| 20x20 | 10 | 8x27 | 5.016 |
| 20x21 Especial | 10 | 8x26 | 4.913 |
| 15x15 | 12 | 10x36 | 9.362 |
| 15x16 Especial | 12 | 10x35 | 9.214 |
| 20x21 | 12 | 8x26 | 7.076 |

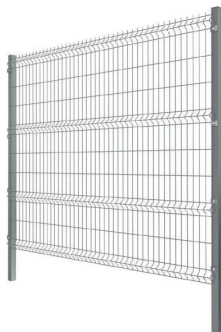


MALLA DE CERCA SIMPLE TORSIÓN

| Malla de simple torsión galvanizada en rollos de 25 metros lineales | |
|--|--------------|
| Dimensiones | Alambre (mm) |
| 50x14 a 1,00m 25,00m ² | 2.10 |
| 50x14 a 1,50m 37,50m ² | 2.10 |
| 50x14 a 1,75m 43,75m ² | 2.10 |
| 50x14 a 2,00m 50,00m ² | 2.10 |
| 50x14 a 2,50m 62,50m ² | 2.10 |
| 50x14 a 3,00m 75,00m ² | 2.10 |
| Malla de simple torsión plastificada verde en rollos de 25 metros lineales | |
| Dimensiones | Alambre (mm) |
| 50x16 a 1,00m 25,00m ² | 1,70-2,70 |
| 50x16 a 1,50m 37,50m ² | 1,70-2,70 |
| 50x16 a 2,00m 50,00m ² | 1,70-2,70 |



MALLA RÍGIDA



| Malla plegada | |
|---|--------------------|
| Dimensiones | Altura cerramiento |
| M.P. 2.500 x 1.025 x 5 mm. con 2 pliegues | 1.000 mm. |
| M.P. 2.500 x 1.525 x 5 mm. con 3 pliegues | 1.500 mm. |
| M.P. 2.500 x 2.025 x 5 mm. con 4 pliegues | 2.000 mm. |

ACCESORIOS PARA MALLA

Postes rectos
 Postes curvos
 Tornapuntas
 Alambre de espino
 Pletinas de arranque
 Puertas
 Grapadoras



Abrazadera de arranque



Abrazadera de centro



Abrazadera de esquina



Pletina de arranque



Pasador media caña



Tensor



Placa base para acople poste



Placa base expansible



Grapa Poliámdida 60 mm



Grapa de fijación 40 y 60 mm. Modelo 5



Grapa modelo C de 40 y 60 mm



Grapa de fijación 60 mm



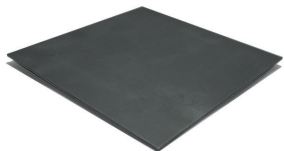
Grapa de fijación 40 mm



Abrazadera I.T.P.E.



Abrazadera Ultrafix

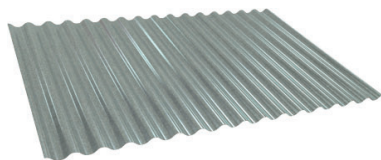
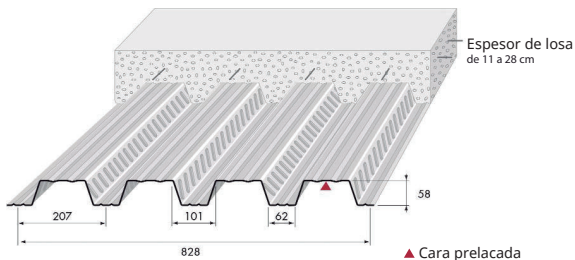


CHAPA DE ACERO

| Espesor (mm.) | Dimensiones (mm.) / Peso m ² (Kg/m ²) | | | | | | |
|---------------|--|-----------|-----------|-----------|-----------|-----------|-----------|
| | 2000x1000 | 2000x1250 | 2000x1500 | 2500x1000 | 3000x1000 | 3000x1250 | 3000x1500 |
| 0,5 | 8 | 10 | 12 | 10 | 12 | 15 | 18 |
| 0,6 | 9,6 | 12 | 14,4 | 12 | 14,4 | 18 | 21,6 |
| 0,7 | 11,2 | 14 | 16,8 | 14 | 16,8 | 21 | 25,2 |
| 0,8 | 12,8 | 16 | 19,2 | 16 | 19,2 | 24 | 28,8 |
| 1 | 16 | 20 | 24 | 20 | 24 | 30 | 36 |
| 1,2 | 19,2 | 24 | 28,8 | 24 | 28,8 | 36 | 43,2 |
| 1,5 | 24 | 30 | 36 | 30 | 36 | 45 | 54 |
| 2 | 32 | 40 | 48 | 40 | 48 | 60 | 72 |
| 2,5 | 40 | 50 | 60 | 50 | 60 | 75 | 90 |
| 3 | 48 | 60 | 72 | 60 | 72 | 90 | 108 |
| 4 | 64 | 80 | 96 | 80 | 96 | 120 | 144 |
| 5 | 80 | 100 | 120 | 100 | 120 | 150 | 180 |
| 6 | 96 | 120 | 144 | 120 | 144 | 180 | 216 |
| 7 | 112 | 140 | 168 | 140 | 168 | 210 | 252 |
| 8 | 128 | 160 | 192 | 160 | 192 | 240 | 288 |
| 10 | 160 | 200 | 240 | 200 | 240 | 300 | 360 |

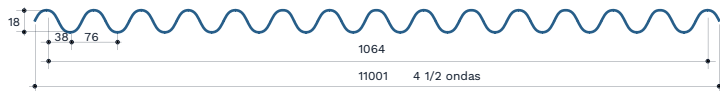
PERFIL COLABORANTE

Largo 5 y 6 metros

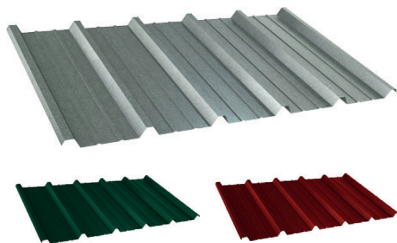


CHAPA ONDULADA

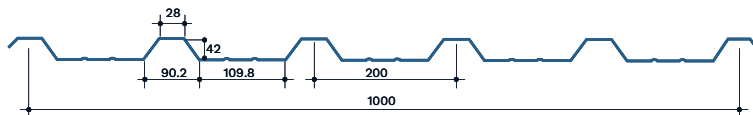
| Espesor (mm.) | Galvanizado | Lacado |
|---------------|--|--|
| | Peso m ² (Kg/m ²) | Peso m ² (Kg/m ²) |
| 0.5 | 5 | - |
| 0.6 | 6 | 6 |
| 0.8 | 8 | 8 |
| 1.0 | 10 | - |



CHAPA TRAPEZOIDAL



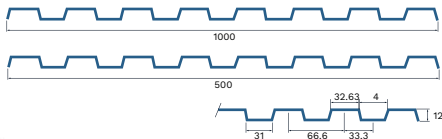
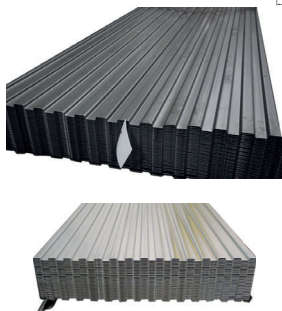
| Espesor (mm.) | Galvanizado | Lacado |
|---------------|--|--|
| | Peso m ² (Kg/m ²) | Peso m ² (Kg/m ²) |
| 0.5 | 5 | - |
| 0.6 | 6 | 6 |
| 0.8 | 8 | 8 |
| 1.0 | 10 | - |



ACCESORIOS DE DECORACIÓN

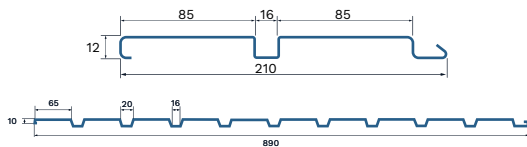
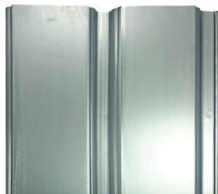
Canalones - Remates - Chapas lisas - Tornillería - Aireadores - Chapa curvada

CHAPA PEGASO



| Dimensiones (mm.) | Espesor (mm.) | Peso Aprox. (kg.) |
|-------------------|---------------|-------------------|
| 4000x500 | 0.9 | 20 |
| 4000x1000 | 0.9 | 36 |
| 5000x500 | 0.9 | 25 |
| 5000x1000 | 0.9 | 45 |
| 6000x500 | 0.9 | 29 |
| 6000x1000 | 0.9 | 54 |

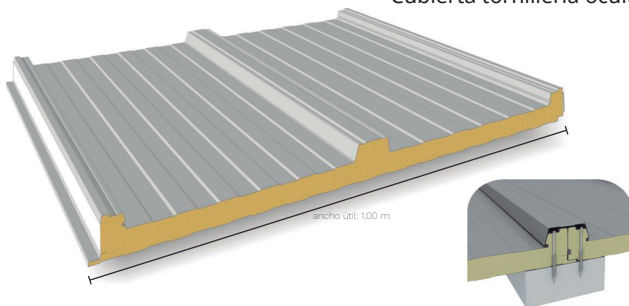
LAMA PUERTA BASCULANTE



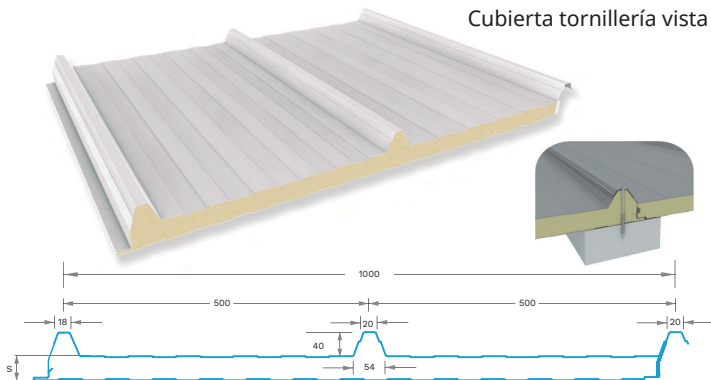
| Dimensiones (mm.) | Espesor (mm.) | Peso Aprox. (kg.) |
|-------------------|---------------|-------------------|
| 5000x890 | 0.6 | 24.5 |
| 6000x890 | 0.6 | 29 |
| 5200x270 | 0.6 | 7.5 |
| 6200x270 | 0.6 | 9 |

PANEL SÁNDWICH

Cubierta tornillería oculta

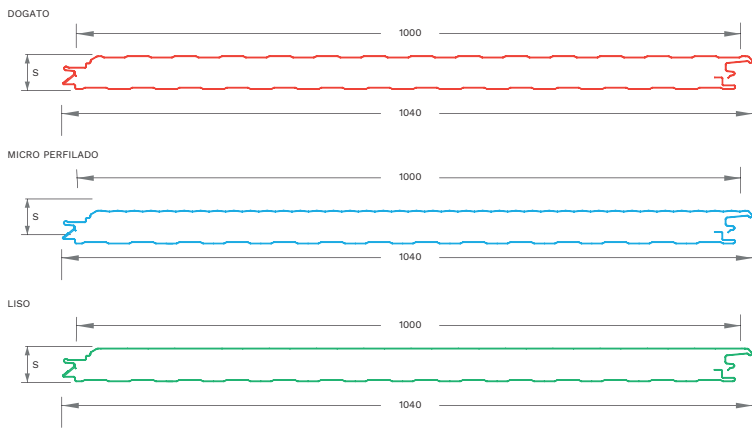
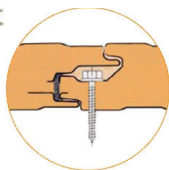
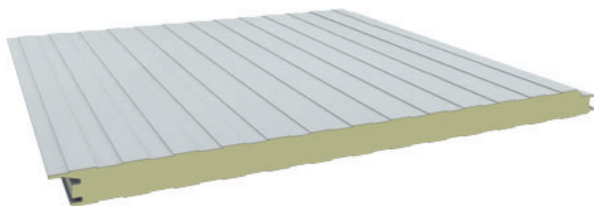


Cubierta tornillería vista



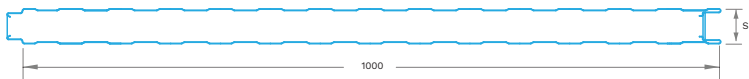
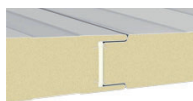
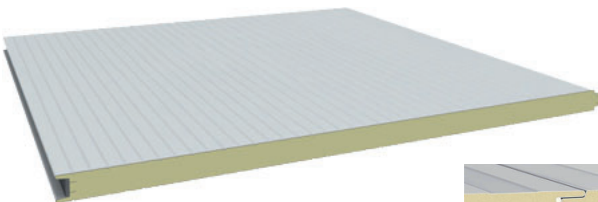
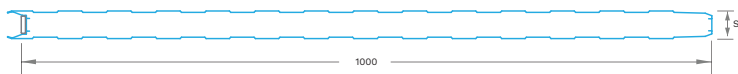
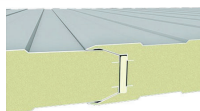
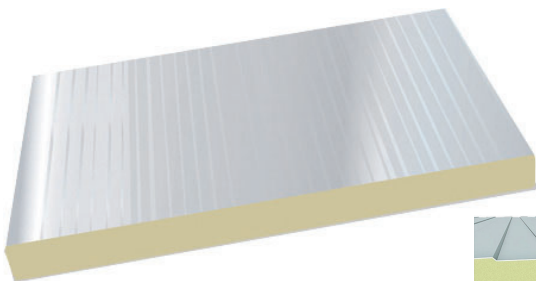
PANEL SÁNDWICH

Fachada

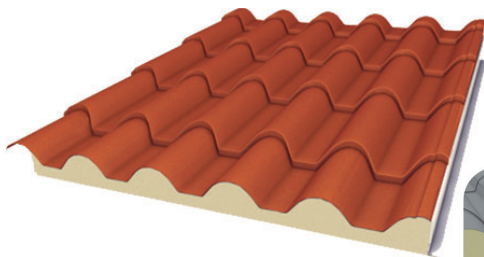


PANEL SÁNDWICH

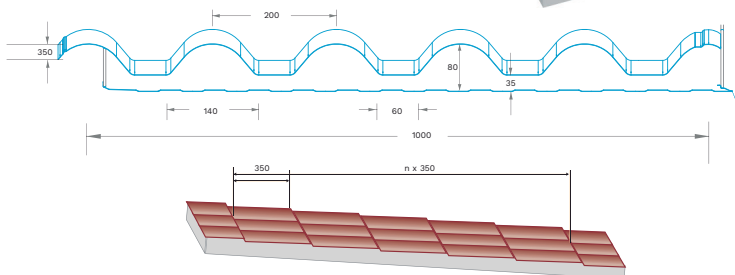
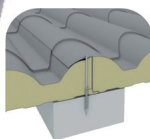
Frigorífico



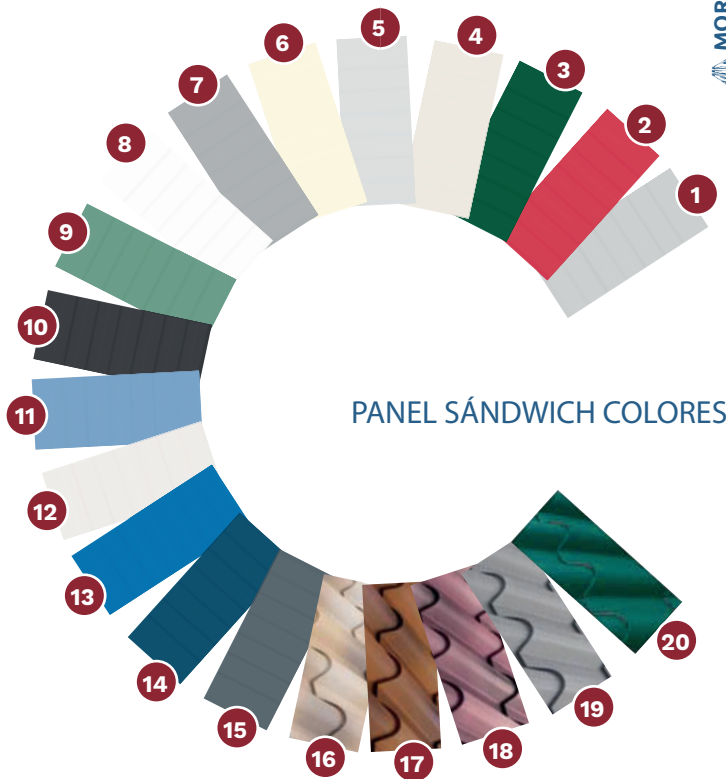
PANEL SÁNDWICH



Cubierta teja



| Espesor del panel (mm) | Espesor Nominal | | Peso (Kg/m ²) | Espesor del panel (mm) | Espesor Nominal | | Peso (Kg/m ²) |
|------------------------|-----------------|----------------|---------------------------|------------------------|-----------------|----------------|---------------------------|
| | Exterior Acero | Interior Acero | | | Exterior Acero | Interior Acero | |
| 30 | 0.4 | 0.4 | 7.8 | 60 | 0.4 | 0.4 | 9 |
| | 0.5 | 0.4 | 8.7 | | 0.5 | 0.4 | 9.9 |
| | 0.5 | 0.5 | 9.7 | | 0.5 | 0.5 | 10.9 |
| 40 | 0.4 | 0.4 | 8.2 | 80 | 0.4 | 0.4 | 9.8 |
| | 0.5 | 0.4 | 9.2 | | 0.5 | 0.4 | 10.7 |
| | 0.5 | 0.5 | 10.2 | | 0.5 | 0.5 | 11.7 |
| 50 | 0.4 | 0.4 | 8.6 | 100 | 0.5 | 0.5 | 12.4 |
| | 0.5 | 0.4 | 9.6 | 120 | 0.5 | 0.5 | 14.4 |
| | 0.5 | 0.5 | 10.6 | | | | |



PANEL SÁNDWICH COLORES

- | | | | |
|--|---|---|-------------------------------------|
| 1. Blanco Pirineo (RAL 9010) | 6. Marfil-1015 | 11. Blue V | 16. Albero Envejecido |
| 2. Rojo Teja (RAL 3011) | 7. Silver Metálic-9006 (RAL 9006) | 12. Blanco Grigio-9002 (RAL 5019) | 17. Rojo Coppo (RAL 8004) |
| 3. Verde Navarra (RAL 6028) | 8. Blanco Puro (RAL 9010) | 13. Azul Lago (RAL 5019) | 18. Rojo Coppo Envejecido |
| 4. Crema Bidasoa (RAL 1015) | 9. Verde Reseda-6011 | 14. Azul Grisáceo-5008 | 19. Gris Pizarra Coppo |
| 5. Gris Perla (RAL 7032) | 10. Negro Intenso (RAL 9005) | 15. Gris Antracita-7016 | 20. Verde Coppo |

La visualización de los colores por pantalla puede no corresponder exactamente con los colores reales.

ACCESORIOS DE DECORACIÓN

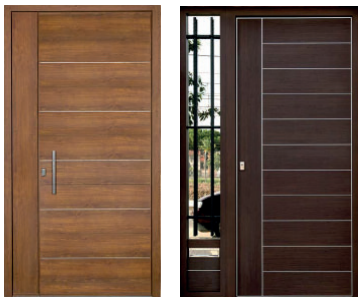
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