

Prontuario pesi teorici

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INDICE

TUBI

TUBOLARI ED ACCESSORI

PROFILI APERTI

PROFILATI

TRAVI

LAMIERE

VARIE

TABELLE ACCIAI

TUBI ACCIAIO DI GROSSO SPESSORE laminati a caldo


| Diametro esterno mm. | Spessore mm. | | | | | | | | | | | | | | |
|----------------------------|--------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 6,3 | 7,1 | 8 | 8,8 | 10 | 12,5 | 14,2 | 16 | 17,5 | 20 | 22,2 | 25 | 30 | 36 | 40 |
| | Peso - Kg/mt | | | | | | | | | | | | | | |
| 51,0 | 6,9 | 7,7 | 8,4 | 9,1 | 10,1 | 11,9 | 12,9 | | | | | | | | |
| 54,0 | 7,4 | 8,2 | 9,0 | 9,8 | 10,9 | 12,9 | 13,9 | | | | | | | | |
| 57,0 | 7,9 | 8,8 | 9,6 | 10,4 | 11,6 | 13,8 | 15,0 | | | | | | | | |
| 60,3 | 8,4 | 9,3 | 10,3 | 11,1 | 12,4 | 14,8 | 16,2 | 17,4 | | | | | | | |
| 63,5 | 8,9 | 9,9 | 10,9 | 11,8 | 13,2 | 15,8 | 17,3 | 18,7 | | | | | | | |
| 67,0 | 9,4 | 10,5 | 11,6 | 12,6 | 14,1 | 16,8 | 18,5 | 20,1 | 21,4 | | | | | | |
| 70,0 | 9,9 | 11,0 | 12,2 | 13,2 | 14,8 | 17,8 | 19,6 | 21,2 | 22,6 | 24,7 | | | | | |
| 73,0 | 10,4 | 11,6 | 12,8 | 13,9 | 15,5 | 18,8 | 20,6 | 22,4 | 23,9 | 26,1 | | | | | |
| 76,1 | 10,9 | 12,1 | 13,4 | 14,6 | 16,3 | 19,7 | 21,7 | 23,7 | 25,3 | 27,7 | | | | | |
| 82,5 | 11,9 | 13,2 | 14,6 | 15,9 | 17,9 | 21,7 | 24,0 | 26,2 | 28,0 | 30,8 | 33,0 | 35,4 | | | |
| 88,9 | 12,9 | 14,4 | 15,9 | 17,3 | 19,5 | 23,7 | 26,2 | 28,7 | 30,7 | 34,0 | 36,5 | 39,4 | | | |
| 95,0 | 13,8 | 15,4 | 17,2 | 18,9 | 21,0 | 25,4 | 28,3 | 31,2 | 33,4 | 37,0 | 39,9 | 43,0 | | | |
| 101,6 | 14,9 | 16,6 | 18,4 | 20,1 | 22,6 | 27,6 | 30,7 | 33,7 | 36,2 | 40,2 | 43,5 | 47,5 | 52,9 | | |
| 108,0 | 15,8 | 17,7 | 19,6 | 21,4 | 24,2 | 29,6 | 32,9 | 36,2 | 39,0 | 43,4 | 47,0 | 51,4 | 57,7 | | |
| 114,3 | 16,8 | 18,8 | 20,9 | 22,8 | 25,7 | 31,6 | 35,1 | 38,6 | 41,7 | 46,5 | 50,4 | 55,3 | 62,3 | 69,5 | 73,3 |
| 121,0 | 17,8 | 19,9 | 22,3 | 24,7 | 27,4 | 33,4 | 37,4 | 41,4 | 44,7 | 49,8 | 54,1 | 59,2 | 67,3 | 75,5 | 79,9 |
| 127,0 | 18,8 | 21,0 | 23,4 | 25,5 | 28,9 | 35,5 | 39,6 | 43,6 | 47,2 | 52,8 | 57,4 | 63,2 | 71,7 | 80,8 | 85,8 |
| 133,0 | 19,8 | 22,1 | 24,6 | 26,9 | 30,3 | 37,4 | 41,8 | 46,1 | 49,9 | 55,7 | 60,8 | 67,1 | 76,3 | 86,1 | 91,7 |
| 139,7 | 20,8 | 23,3 | 25,9 | 28,3 | 32,0 | 39,5 | 44,0 | 48,6 | 52,7 | 59,0 | 64,3 | 71,1 | 81,1 | 92,0 | 98,3 |
| 152,4 | 22,8 | 25,5 | 28,4 | 31,0 | 35,1 | 43,4 | 48,5 | 53,6 | 58,1 | 65,3 | 71,3 | 79,0 | 90,5 | 103,0 | 112,0 |
| 159,0 | 23,8 | 26,6 | 29,6 | 32,4 | 36,7 | 45,4 | 50,8 | 56,2 | 60,9 | 68,6 | 74,8 | 83,0 | 95,3 | 109,0 | 119,0 |
| 168,3 | 25,3 | 28,3 | 31,5 | 34,5 | 39,0 | 48,4 | 54,1 | 59,9 | 65,0 | 73,1 | 80,0 | 88,9 | 102,0 | 117,0 | 126,0 |
| 177,8 | 26,7 | 30,0 | 33,4 | 36,5 | 41,4 | 51,3 | 57,4 | 63,6 | 69,1 | 77,8 | 85,2 | 94,8 | 109,0 | 126,0 | 136,0 |
| 193,7 | 29,2 | 32,8 | 36,5 | 40,0 | 45,3 | 56,2 | 63,0 | 69,8 | 75,9 | 85,7 | 93,9 | 105,0 | 121,0 | 140,0 | 151,0 |
| 203,0 | 30,6 | 34,3 | 38,5 | 42,7 | 47,6 | 58,7 | 66,1 | 73,8 | 80,1 | 90,3 | 99,0 | 110,0 | 128,0 | 148,0 | 161,0 |
| 219,1 | 33,2 | 37,2 | 41,5 | 45,4 | 51,6 | 64,1 | 71,9 | 79,8 | 86,9 | 96,2 | 108,0 | 120,0 | 140,0 | 162,0 | 176,0 |
| 227,0 | 34,3 | 38,5 | 43,2 | 47,3 | 53,5 | 66,1 | 74,5 | 83,2 | 90,4 | 102,0 | 112,0 | 124,0 | 146,0 | 170,0 | 184,0 |
| 244,5 | 37,1 | 41,7 | 46,5 | 50,9 | 57,8 | 72,0 | 80,8 | 89,8 | 97,8 | 111,0 | 122,0 | 136,0 | 159,0 | 185,0 | 201,0 |
| 254,0 | 38,5 | 43,2 | 48,5 | 53,9 | 60,2 | 74,4 | 84,0 | 93,9 | 102,0 | 115,0 | 127,0 | 141,0 | 166,0 | 194,0 | 211,0 |
| 267,0 | 40,6 | 45,6 | 50,9 | 55,8 | 63,4 | 79,0 | 88,7 | 98,6 | 107,0 | 122,0 | 134,0 | 150,0 | 175,0 | 205,0 | 223,0 |
| 273,0 | 41,6 | 46,7 | 52,1 | 57,1 | 64,8 | 80,9 | 90,9 | 101,0 | 110,0 | 125,0 | 137,0 | 154,0 | 180,0 | 210,0 | 229,0 |
| 298,5 | | 51,1 | 57,1 | 62,6 | 71,1 | 88,8 | 99,8 | 111,0 | 121,0 | 137,0 | 151,0 | 170,0 | 198,0 | 233,0 | 255,0 |
| 323,9 | | 55,6 | 62,1 | 68,1 | 77,4 | 96,7 | 109,0 | 121,0 | 132,0 | 150,0 | 165,0 | 186,0 | 217,0 | 256,0 | 280,0 |
| 355,6 | | | | 74,9 | 85,2 | 107,0 | 120,0 | 133,0 | 146,0 | 166,0 | 183,0 | 205,0 | 241,0 | 284,0 | 311,0 |
| 406,4 | | | | 85,9 | 97,8 | 122,0 | 138,0 | 153,0 | 168,0 | 191,0 | 210,0 | 237,0 | 278,0 | 329,0 | 361,0 |
| 419,0 | | | | 88,7 | 101,0 | 126,0 | 142,0 | 158,0 | 173,0 | 197,0 | 217,0 | 245,0 | 288,0 | 340,0 | 373,0 |
| 457,2 | | | | | 110,0 | 138,0 | 156,0 | 173,0 | 189,0 | 216,0 | 238,0 | 268,0 | 316,0 | 374,0 | 411,0 |
| 508,0 | | | | | | 154,0 | 173,0 | 193,0 | 211,0 | 241,0 | 266,0 | 300,0 | 353,0 | 419,0 | 461,0 |

TUBI ACCIAIO commerciali senza saldatura


| Diametro esterno mm. | Spessore mm | Peso Kg/mt | Diametro esterno mm | Spessore mm | Peso Kg/mt |
|----------------------|-------------|------------|---------------------|-------------|------------|
| 30,0 | 2,3 | 1,57 | 127,0 | 4,0 | 12,1 |
| 33,7 | 2,3 | 1,79 | 133,0 | 4,0 | 12,7 |
| 38,0 | 2,6 | 2,27 | 139,7 | 4,0 | 13,4 |
| 42,4 | 2,6 | 2,55 | 152,4 | 4,5 | 16,4 |
| 44,5 | 2,6 | 2,70 | 159,0 | 4,5 | 17,1 |
| 48,3 | 2,6 | 2,93 | 168,3 | 4,5 | 18,2 |
| 51,0 | 2,6 | 3,10 | 177,8 | 5,0 | 21,3 |
| 54,0 | 2,6 | 3,30 | 193,7 | 5,4 | 25,1 |
| 57,0 | 2,9 | 3,87 | 219,1 | 5,9 | 31,0 |
| 60,3 | 2,9 | 4,11 | 244,5 | 6,3 | 37,0 |
| 63,5 | 2,9 | 4,33 | 267,0 | 6,3 | 40,5 |
| 70,0 | 2,9 | 4,80 | 273,0 | 6,3 | 41,4 |
| 76,1 | 2,9 | 5,24 | 298,5 | 7,1 | 51,0 |
| 82,5 | 3,2 | 6,26 | 323,9 | 7,1 | 55,5 |
| 88,9 | 3,2 | 6,76 | 355,6 | 8,0 | 68,6 |
| 101,6 | 3,6 | 8,70 | 368,0 | 8,0 | 71,0 |
| 108,0 | 3,6 | 9,27 | 406,4 | 8,8 | 86,3 |
| 114,3 | 3,6 | 9,83 | 419,0 | 8,8 | 89,0 |

TUBI ACCIAIO saldati scordonati laminati a caldo


| Diametro esterno mm. | Spessore mm. | | | | | | | | | | | | | | |
|----------------------|--------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 2,6 | 2,9 | 3,2 | 3,6 | 4 | 4,5 | 5 | 5,4 | 5,6 | 5,9 | 6,3 | 7,1 | 8 | 8,8 | 10 |
| | Peso - Kg/mt | | | | | | | | | | | | | | |
| 21,3 | 1,21 | 1,33 | 1,44 | 1,57 | 1,72 | 1,87 | 2,01 | 2,12 | | | | | | | |
| 26,9 | 1,57 | 1,73 | 1,87 | 2,07 | 2,26 | 2,48 | 2,70 | 2,86 | 2,94 | 3,06 | 3,21 | | | | |
| 33,7 | | 2,20 | 2,42 | 2,67 | 2,93 | 3,23 | 3,54 | 3,76 | 3,87 | 4,04 | 4,27 | 4,67 | 5,07 | | |
| 38,0 | | | 2,75 | 3,05 | 3,35 | 3,71 | 4,07 | 4,34 | 4,47 | 4,67 | 4,93 | 5,41 | 5,91 | 6,33 | |
| 42,4 | | | 3,09 | 3,44 | 3,79 | 4,21 | 4,61 | 4,92 | 5,07 | 5,31 | 5,62 | 6,19 | 6,79 | 7,29 | 7,99 |
| 44,5 | | | 3,26 | 3,63 | 4,00 | 4,44 | 4,87 | 5,20 | 5,37 | 5,61 | 5,95 | 6,56 | 7,20 | 7,75 | 8,51 |
| 48,3 | | | 3,56 | 3,97 | 4,37 | 4,85 | 5,34 | 5,71 | 5,89 | 6,17 | 6,53 | 7,21 | 7,95 | 8,56 | 9,45 |
| 51,0 | | | | 4,21 | 4,64 | 5,16 | 5,67 | 6,07 | 6,27 | 6,56 | 6,95 | 7,69 | 8,48 | 9,16 | 10,10 |
| 54,0 | | | | 4,47 | 4,93 | 5,49 | 6,04 | 6,46 | 6,68 | 6,99 | 7,41 | 8,21 | 9,08 | 9,81 | 10,90 |
| 57,0 | | | | 4,74 | 5,23 | 5,83 | 6,41 | 6,87 | 7,10 | 7,44 | 7,88 | 8,74 | 9,67 | 10,50 | 11,60 |
| 60,3 | | | | | 5,55 | 6,19 | 6,82 | 7,30 | 7,55 | 7,91 | 8,39 | 9,32 | 10,30 | 11,20 | 12,40 |
| 63,5 | | | | | 5,87 | 6,55 | 7,21 | 7,74 | 8,00 | 8,37 | 8,89 | 9,88 | 10,90 | 11,90 | 13,20 |
| 70,0 | | | | | 6,51 | 7,27 | 8,01 | 8,60 | 8,89 | 9,33 | 9,90 | 11,00 | 12,20 | 13,30 | 14,80 |
| 76,1 | | | | | | 7,95 | 8,77 | 9,41 | 9,74 | 10,20 | 10,80 | 12,10 | 13,40 | 14,60 | 16,30 |
| 82,5 | | | | | | 8,66 | 9,56 | 10,30 | 10,60 | 11,10 | 11,80 | 13,20 | 14,70 | 16,00 | 17,90 |
| 88,9 | | | | | | | 10,3 | 11,10 | 11,50 | 12,10 | 12,80 | 14,30 | 16,00 | 17,40 | 19,50 |

TUBI ACCIAIO GREZZI per gas - acqua - metano

| Pollici | Diam. ester. mm | SERIE LEGGERA | | | SERIE MEDIA | | |
|---------|-----------------|---------------|------------------|---------------|-------------|------------------|---------------|
| | | Spessore mm | Peso conv. kg/mt | | Spessore mm | Peso conv. kg/mt | |
| | | | senza manicotto | con manicotto | | senza manicotto | con manicotto |
| 1/8 | 10,2 | 1,80 | 0,37 | 0,37 | 1,80 | 0,36 | 0,36 |
| 1/4 | 13,5 | 2,00 | 0,57 | 0,58 | 1,80 | 0,52 | 0,52 |
| 3/8 | 17,2 | 2,00 | 0,75 | 0,75 | 2,30 | | |
| 1/2 | 21,3 | 2,35 | 1,10 | 1,11 | 2,60 | 1,21 | 1,22 |
| 3/4 | 26,9 | 2,35 | 1,41 | 1,42 | 2,60 | 1,56 | 1,57 |
| 1 | 33,7 | 2,90 | 2,21 | 2,23 | 3,20 | 2,41 | 2,43 |
| 1 1/4 | 42,4 | 2,90 | 2,84 | 2,87 | 3,20 | 3,10 | 3,13 |
| 1 1/2 | 48,3 | 2,90 | 3,26 | 3,30 | 3,20 | 3,56 | 3,60 |
| 2 | 60,3 | 3,25 | 4,56 | 4,63 | 3,60 | 5,03 | 5,10 |
| 2 1/2 | 76,1 | 3,25 | 5,81 | 5,93 | 3,60 | 6,42 | 6,54 |
| 3 | 88,9 | 3,65 | 7,65 | 7,82 | 4,00 | 8,36 | 8,53 |
| 4 | 114,3 | 4,05 | 11,00 | 11,30 | 4,5 | 12,20 | 12,50 |
| 5 | 139,7 | 4,85 | 16,20 | 16,70 | 4,5 | 16,20 | 16,70 |
| 6 | 165,1 | 4,85 | 19,20 | 19,80 | 4,80 | 19,20 | 19,80 |

TUBI ACCIAIO RIVESTITI mt. 12 per condotte gas - acqua - metano

| Diametri | | | Spessore normale mm | Peso Kg/mt | | | Peso grezzo Kg/mt |
|----------|---------|--------|---------------------|-------------|-------------|-------------|-------------------|
| DN mm | Pollici | Ø e mm | | Riv. N v.m. | Riv. P v.m. | Riv. Metano | |
| 40 | 1 1/2 | 48,3 | 2,6 | 3,70 | 3,95 | 3,95 | 2,95 |
| 50 | 2 | 60,3 | 3,9 | 5,10 | 5,40 | 5,40 | 4,14 |
| 65 | 2 1/2 | 76,1 | 2,9 | 6,40 | 6,80 | 6,80 | 5,28 |
| 80 | 3 | 88,9 | 2,9 | 7,80 | 8,20 | 8,20 | 6,20 |
| 100 | 4 | 114,3 | 3,2 | 10,85 | 11,65 | 11,65 | 8,83 |
| 125 | 5 | 139,7 | 3,6 | 15,10 | 15,70 | 15,70 | 12,20 |
| 150 | 6 | 168,3 | 4,0 | 19,60 | 20,50 | 20,50 | 16,30 |
| 200 | 8 | 219,1 | 5,0 | 31,20 | 32,10 | 32,10 | 26,40 |
| 250 | 10 | 273,0 | 5,6 | 43,00 | 43,80 | 43,80 | 36,80 |
| 300 | 12 | 323,9 | 5,9 | 53,90 | 54,70 | 54,70 | 46,20 |
| 350 | 14 | 355,6 | 6,3 | 63,20 | 64,90 | 64,90 | 54,50 |
| 400 | 16 | 406,4 | 6,3 | 72,40 | 74,30 | 74,30 | 62,40 |
| 450 | 18 | 457,2 | 6,3 | 82,50 | 85,80 | 85,80 | 70,30 |
| 500 | 20 | 508,0 | 6,3 | 91,80 | 95,40 | 95,40 | 78,20 |
| 550 | 22 | 558,8 | 6,3 | 103,80 | 107,90 | 107,90 | 86,10 |
| 600 | 24 | 609,6 | 6,3 | 113,40 | 117,80 | 117,80 | 94,10 |

TUBI ACCIAIO RIVESTITI mt. 6 per condotte gas - acqua - metano

| Pollici | Diametro esterno mm | Spessore normale mm | Peso Kg/mt | | | Peso grezzo Kg/mt |
|---------|---------------------|---------------------|-------------|-------------|-------------|-------------------|
| | | | Riv. N v.m. | Riv. P v.m. | Riv. Metano | |
| 1/2 | 21,3 | 2,3 | 1,24 | 1,31 | 1,41 | 1,08 |
| 3/4 | 26,9 | 2,3 | 1,78 | 1,86 | 1,82 | 1,39 |
| 1 | 33,7 | 2,9 | 2,47 | 2,58 | 2,73 | 2,22 |
| 1 1/4 | 42,4 | 2,9 | 3,17 | 3,30 | 3,47 | 2,82 |
| 1 1/2 | 48,3 | 2,9 | 4,03 | 4,29 | 4,19 | 3,24 |
| 2 | 60,3 | 3,2 | 5,11 | 5,43 | 5,67 | 4,49 |
| 2 1/2 | 76,1 | 3,2 | 7,10 | 7,55 | 7,23 | 5,73 |
| 3 | 88,9 | 3,6 | 8,54 | 9,02 | 9,49 | 7,55 |

TUBI ACCIAIO ELETROSALDATI TONDI



| Diametro esterno mm. | Spessore mm. | | | | | | | | | | |
|----------------------|--------------|------|------|-------|-------|-------|-------|-------|-------|---|----|
| | 1,5 | 2 | 2,5 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Peso - Kg/mt | | | | | | | | | | | |
| 12,0 | 0,38 | | | | | | | | | | |
| 14,0 | 0,46 | | | | | | | | | | |
| 15,0 | 0,50 | | | | | | | | | | |
| 16,0 | 0,54 | | | | | | | | | | |
| 18,0 | 0,61 | 0,79 | | | | | | | | | |
| 20,0 | 0,68 | 0,89 | | | | | | | | | |
| 21,0 | 0,73 | 0,95 | | | | | | | | | |
| 22,0 | 0,76 | 0,99 | | | | | | | | | |
| 25,0 | 0,87 | 1,13 | | | | | | | | | |
| 27,0 | 0,93 | 1,22 | 1,49 | 1,76 | 2,27 | | | | | | |
| 28,0 | 0,98 | 1,28 | 1,57 | 1,85 | | | | | | | |
| 30,0 | 1,05 | 1,38 | 1,70 | 2,00 | | | | | | | |
| 32,0 | 1,13 | 1,48 | 1,82 | 2,15 | | | | | | | |
| 33,0 | 1,18 | 1,55 | 1,91 | 2,25 | 2,86 | 3,45 | | | | | |
| 35,0 | 1,24 | 1,63 | 2,00 | 2,37 | | | | | | | |
| 38,0 | 1,41 | 1,87 | 2,20 | 2,76 | 3,38 | | | | | | |
| 40,0 | 1,42 | 1,88 | 2,31 | 2,74 | 3,55 | | | | | | |
| 42,0 | 1,50 | 1,97 | 2,44 | 2,89 | 3,75 | | | | | | |
| 45,0 | 1,61 | 2,12 | 2,62 | 3,11 | 4,05 | | | | | | |
| 48,0 | 1,72 | 2,27 | 2,80 | 3,33 | 4,58 | 5,30 | | | | | |
| 50,0 | 1,79 | 2,37 | 2,93 | 3,48 | 4,54 | 5,55 | | | | | |
| 52,0 | 1,87 | 2,47 | 3,05 | 3,63 | 4,74 | | | | | | |
| 55,0 | 1,98 | 2,61 | 3,24 | 3,85 | 5,03 | | | | | | |
| 56,0 | 2,01 | 2,66 | | 3,92 | | | | | | | |
| 57,0 | 2,05 | 2,71 | 3,36 | 4,00 | 5,23 | 6,41 | | | | | |
| 60,0 | 2,16 | 2,86 | 3,55 | 4,22 | 5,52 | 6,78 | | | | | |
| 65,0 | 2,35 | 3,11 | 3,85 | 4,59 | 6,02 | | | | | | |
| 70,0 | 2,53 | 3,35 | 4,16 | 4,96 | 6,51 | 8,02 | 9,48 | | | | |
| 76,0 | 2,76 | 3,65 | 4,53 | 5,40 | 7,10 | 8,76 | 10,36 | | | | |
| 80,0 | 2,90 | 3,85 | 4,78 | 5,70 | 7,50 | 9,26 | | | | | |
| 83,0 | 3,01 | 4,00 | 4,96 | 5,92 | 7,80 | 9,63 | | | | | |
| 89,0 | 3,23 | 4,29 | 5,33 | 6,36 | 8,38 | 10,36 | 12,29 | 14,17 | 15,99 | | |
| 102,0 | | 4,93 | 6,13 | 7,32 | 9,67 | 11,96 | 14,37 | 16,41 | 18,56 | | |
| 108,0 | | 5,23 | 6,50 | 7,77 | 10,26 | 12,70 | 15,09 | | | | |
| 114,0 | | 5,52 | 6,87 | 8,21 | 10,85 | 13,44 | 15,99 | 18,49 | 20,93 | | |
| 121,0 | | 5,87 | | 8,73 | 11,54 | 14,31 | 17,02 | | | | |
| 127,0 | | 6,16 | 7,68 | 9,17 | 12,13 | 15,04 | 17,90 | 20,74 | 23,50 | | |
| 133,0 | | 6,46 | 8,05 | 9,62 | 12,73 | 15,78 | 18,79 | 21,77 | 24,68 | | |
| 139,7 | | | 8,46 | 10,11 | 13,39 | 16,61 | 19,78 | 22,93 | 26,00 | | |

TUBI ACCIAIO ELETROSALDATI TONDI



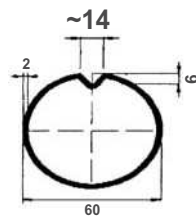
| Diametro esterno mm. | Spessore mm. | | | | | | | | | | |
|----------------------|--------------|------|------|-------|-------|-------|-------|-------|-------|--------|--------|
| | 1,5 | 2 | 2,5 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | Peso - Kg/mt | | | | | | | | | | |
| 152,0 | | | 9,22 | 11,02 | 14,60 | 18,13 | 21,60 | 25,00 | 28,44 | | |
| 159,0 | | 7,74 | 9,65 | 11,54 | 15,29 | 18,99 | 22,64 | 26,24 | 29,82 | | |
| 168,0 | | | | 12,21 | 16,18 | 20,10 | 23,97 | 27,79 | 31,57 | | |
| 177,8 | | | | 12,94 | 17,16 | 21,33 | 25,45 | 29,52 | 33,54 | | |
| 193,7 | | | | 13,98 | 18,55 | 23,06 | 27,52 | 31,94 | 36,30 | | |
| 219,0 | | | | 15,98 | 21,21 | 26,39 | 31,06 | 39,59 | 41,61 | 46,63 | 51,57 |
| 244,5 | | | | | 23,75 | 29,57 | 35,33 | 41,05 | 46,71 | 52,33 | 57,90 |
| 273,0 | | | | 19,91 | 26,54 | 33,05 | 39,55 | 45,97 | 52,34 | 58,67 | 64,94 |
| 323,0 | | | | | 31,56 | 39,92 | 46,30 | 54,70 | 62,32 | 69,89 | 77,41 |
| 339,7 | | | | | 33,15 | 41,32 | 49,44 | 57,50 | 65,52 | 73,49 | 81,41 |
| 355,6 | | | | | 34,72 | 43,28 | 51,79 | 60,25 | 68,66 | 77,02 | 85,33 |
| 406,4 | | | | | 39,74 | 49,55 | 59,32 | 69,03 | 78,70 | 88,31 | 97,88 |
| 457,2 | | | | | | 55,83 | 66,84 | 77,81 | 88,73 | 99,60 | 110,42 |
| 508,0 | | | | | | 62,10 | 74,37 | 86,59 | 98,77 | 110,89 | 122,97 |

TUBI ACCIAIO ELETROSALDATI CARPENTERIA

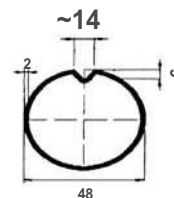


| Pollici | Diametro esterno | Spessore mm | Peso Kg/mt | Pollici | Diametro esterno | Spessore mm | Peso Kg/mt |
|---------|------------------|-------------|------------|---------|------------------|-------------|------------|
| 3/8" | 17,00 | 2,00 | 0,73 | 2" | 60,30 | 3 | 4,22 |
| 1/2" | 21,25 | 2,20 | 1,03 | 2 1/2" | 76,10 | 3 | 5,40 |
| 3/4" | 26,75 | 2,50 | 1,49 | 3" | 88,90 | 3 | 6,36 |
| 1" | 33,50 | 2,65 | 2,02 | 3 1/2" | 101,60 | 3 | 7,32 |
| 1 1/4" | 42,20 | 3,00 | 2,89 | 4" | 114,30 | 3 | 8,21 |
| 1 1/2" | 48,30 | 3,00 | 3,33 | | | | |

TUBI ACCIAIO ELETROSALDATI zincati per segnaletica



Kg ml 3,01



Kg ml 2,37

TUBI ACCIAIO ELETTRORSALDATI QUADRI



| Lati esterni mm. | Spessore mm. | | | | | | | | | | | |
|------------------------|--------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--|
| | 1,5 | 2 | 2,5 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 12 | |
| Peso - Kg/mt | | | | | | | | | | | | |
| 10x10 | 0,40 | | | | | | | | | | | |
| 12x12 | 0,49 | | | | | | | | | | | |
| 15x15 | 0,64 | 0,82 | | | | | | | | | | |
| 18x18 | 0,78 | 1,01 | | | | | | | | | | |
| 20x20 | 0,87 | 1,13 | 1,37 | 1,60 | | | | | | | | |
| 25x25 | 1,11 | 1,44 | 1,77 | 2,07 | | | | | | | | |
| 30x30 | 1,34 | 1,76 | 2,16 | 2,54 | 3,27 | | | | | | | |
| 35x35 | 1,58 | 2,07 | 2,55 | 3,01 | 3,89 | | | | | | | |
| 40x40 | 1,81 | 2,39 | 2,94 | 3,49 | 4,52 | 5,50 | | | | | | |
| 42x42 | 1,90 | 2,51 | 3,10 | 3,67 | 4,77 | 5,81 | | | | | | |
| 45x45 | 2,05 | 2,70 | | 3,96 | 5,15 | 6,28 | | | | | | |
| 50x50 | 2,29 | 3,02 | | 4,43 | 5,78 | 7,07 | 8,29 | 9,46 | 10,60 | | | |
| 60x60 | 2,76 | 3,64 | | 5,37 | 7,03 | 8,63 | 10,20 | 11,70 | 13,10 | | | |
| 65x65 | 2,99 | 3,96 | | 5,84 | 7,67 | 9,42 | 11,10 | | | | | |
| 70x70 | 3,23 | 4,27 | | 6,31 | 8,29 | 10,20 | 12,10 | 13,90 | 15,60 | 18,80 | | |
| 80x80 | | 4,90 | | 7,25 | 9,55 | 11,80 | 13,90 | 16,10 | 18,10 | 22,00 | | |
| 90x90 | | 5,53 | | 8,20 | 10,80 | 13,40 | 15,80 | 18,30 | 20,60 | 25,10 | | |
| 100x100 | | 6,16 | 7,65 | 9,14 | 12,10 | 14,90 | 17,70 | 20,50 | 23,10 | 28,30 | 33,20 | |
| 110x110 | | | | 10,10 | 13,30 | 16,50 | 19,60 | 22,70 | 25,60 | 31,40 | 36,90 | |
| 120x120 | | | | 11,00 | 14,60 | 18,10 | 21,50 | 24,90 | 28,10 | 34,60 | 40,70 | |
| 125x125 | | | | | 15,20 | 18,80 | 22,40 | 25,90 | 29,40 | | | |
| 130x130 | | | | 12,00 | 15,80 | 19,60 | 23,40 | 27,00 | 30,70 | 37,70 | 44,50 | |
| 135x135 | | | | 12,40 | 16,50 | 20,40 | 24,30 | 28,10 | | | | |
| Spessore mm. | | | | | | | | | | | | |
| | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 12 | 14 | 16 | 20 | |
| 140x140 | 12,90 | 17,10 | 21,20 | 25,30 | 29,20 | 33,20 | 40,80 | 48,30 | 55,40 | 62,30 | | |
| 150x150 | 13,90 | 18,30 | 22,80 | 27,10 | 31,40 | 35,70 | 44,00 | 52,00 | 59,80 | 67,40 | | |
| 160x160 | 14,80 | 19,60 | 24,30 | 29,00 | 33,60 | 38,20 | 47,10 | 55,80 | 64,20 | 72,40 | | |
| 175x175 | 16,20 | 21,50 | 26,70 | 31,90 | 36,90 | 42,00 | 51,80 | 61,40 | 70,80 | 79,90 | | |
| 180x180 | 16,70 | 22,10 | 27,50 | 32,80 | 38,00 | 43,20 | 53,40 | 63,30 | 73,00 | 82,40 | | |
| 200x200 | 18,60 | 24,60 | 30,60 | 36,60 | 42,40 | 48,30 | 59,70 | 70,90 | 81,80 | 92,50 | | |
| 220x220 | 20,50 | 27,10 | 33,80 | 40,30 | 46,80 | 53,30 | 66,00 | 78,40 | 90,60 | 102,50 | | |
| 250x250 | | 30,90 | 38,50 | 46,00 | 53,40 | 60,80 | 75,40 | 89,70 | 103,80 | 117,60 | | |
| 260x260 | | 32,20 | 40,10 | 47,90 | 55,60 | 63,30 | 78,50 | 93,50 | 108,20 | 122,60 | | |
| 300x300 | | 37,20 | 46,30 | 55,40 | 64,40 | 73,40 | 91,10 | 108,60 | 125,80 | 142,80 | | |
| 325x325 | | 40,30 | 50,30 | 60,10 | 69,90 | 79,70 | 99,00 | 118,00 | 136,80 | 155,30 | | |
| 350x350 | | | | 64,80 | 75,40 | 86,00 | 106,80 | 127,40 | 147,80 | 167,90 | | |
| 400x400 | | | | | | 98,50 | 122,50 | 146,30 | 163,80 | 193,00 | 238,80 | |

TUBI ACCIAIO ELETROSALDATI RETTANGOLARI


| Lati esterni mm. | Spessore mm. | | | | | | | | | |
|------------------------|--------------|------|------|------|------|------|-------|-------|----|----|
| | 1,5 | 2 | 2,5 | 3 | 4 | 5 | 6 | 7 | 8 | 10 |
| Peso - Kg/mt | | | | | | | | | | |
| 15x10 | 0,52 | | | | | | | | | |
| 20x10 | 0,64 | 0,82 | | | | | | | | |
| 20x15 | 0,75 | 0,97 | | | | | | | | |
| 25x10 | 0,75 | 0,97 | | | | | | | | |
| 25x15 | 0,87 | 1,13 | | | | | | | | |
| 25x20 | 0,99 | 1,29 | 1,57 | 1,84 | | | | | | |
| 30x10 | 0,87 | 1,13 | | | | | | | | |
| 30x15 | 0,99 | 1,29 | | | | | | | | |
| 30x20 | 1,11 | 1,44 | 1,77 | 2,07 | | | | | | |
| 30x25 | 1,23 | 1,60 | 1,96 | 2,31 | | | | | | |
| 35x10 | 0,99 | 1,29 | | | | | | | | |
| 35x15 | 1,11 | 1,44 | 1,77 | 2,07 | | | | | | |
| 35x20 | 1,23 | 1,60 | 1,96 | 2,31 | | | | | | |
| 35x25 | 1,34 | 1,76 | 2,16 | 2,54 | | | | | | |
| 40x10 | 1,11 | 1,44 | | | | | | | | |
| 40x15 | 1,23 | 1,60 | | | | | | | | |
| 40x20 | 1,34 | 1,76 | 2,16 | 2,54 | | | | | | |
| 40x25 | 1,46 | 1,92 | 2,36 | 2,78 | | | | | | |
| 40x27 | | 1,98 | | 2,87 | | | | | | |
| 40x30 | 1,58 | 2,07 | 2,55 | 3,01 | 3,90 | 4,71 | 5,47 | | | |
| 40x35 | | 2,23 | | 3,25 | | | | | | |
| 45x15 | 1,34 | 1,76 | | | | | | | | |
| 45x20 | 1,46 | 1,92 | | 2,78 | | | | | | |
| 45x25 | 1,58 | 2,07 | | 3,01 | | | | | | |
| 45x30 | 1,70 | 2,23 | | 3,25 | 4,21 | | | | | |
| 45x35 | | | | | 5,15 | | | | | |
| 48x25 | | 2,17 | | | | | | | | |
| 50x10 | 1,34 | 1,76 | | | | | | | | |
| 50x15 | 1,46 | 1,92 | 2,36 | | | | | | | |
| Spessore mm. | | | | | | | | | | |
| | 1,5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 12 |
| 50x20 | 1,58 | 2,07 | 3,01 | | | | | | | |
| 50x25 | 1,70 | 2,23 | 3,25 | 4,21 | | | | | | |
| 50x30 | 1,81 | 2,39 | 3,49 | 4,52 | 5,50 | 6,41 | | | | |
| 50x35 | | 2,54 | 3,72 | 4,84 | | | | | | |
| 50x40 | 2,05 | 2,70 | 3,96 | 5,15 | 6,28 | 7,35 | 8,36 | 9,30 | | |
| 50x45 | | | 4,19 | 5,46 | | | | | | |
| 60x10 | 1,58 | 2,07 | | | | | | | | |
| 60x15 | 1,70 | 2,23 | | | | | | | | |
| 60x20 | 1,81 | 2,39 | 3,49 | | | | | | | |
| 60x25 | 1,93 | 2,54 | 3,72 | | | | | | | |
| 60x30 | 2,05 | 2,70 | 3,96 | 5,15 | 6,28 | 7,35 | | | | |
| 60x40 | 2,29 | 3,02 | 4,43 | 5,78 | 7,07 | 8,29 | 9,46 | 10,60 | | |
| 60x50 | 2,52 | 3,33 | 4,90 | 6,41 | 7,85 | 9,24 | 10,60 | 11,80 | | |

TUBI ACCIAIO ELETTROSALDATI RETTANGOLARI

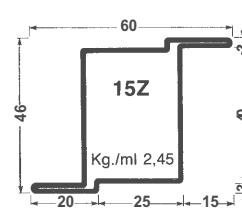
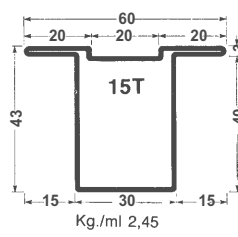
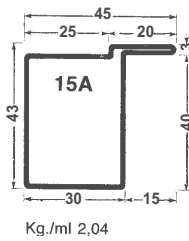
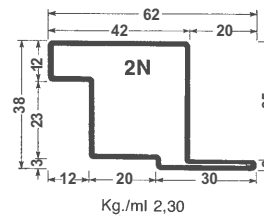
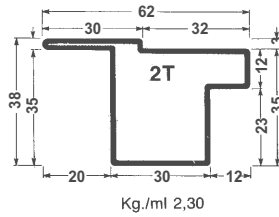
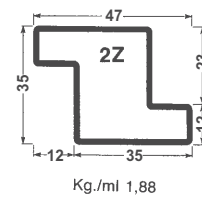
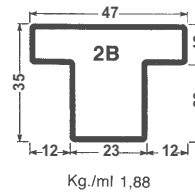
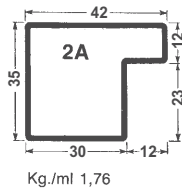
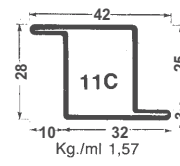
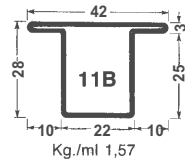
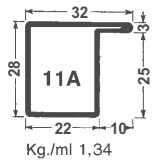
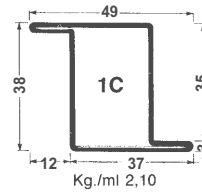
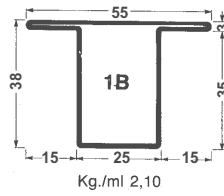
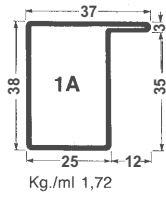

| Lati esterni mm. | Spessore mm. | | | | | | | | | |
|------------------------|--------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 1,5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 12 |
| | Peso - Kg/mt | | | | | | | | | |
| 65x35 | 2,29 | 3,02 | 4,43 | 5,78 | | | | | | |
| 70x20 | 2,05 | 2,70 | 3,96 | | | | | | | |
| 70x25 | 2,17 | 2,86 | 4,19 | | | | | | | |
| 70x30 | 2,29 | 3,02 | 4,43 | 5,78 | 7,07 | 8,29 | 9,46 | 10,60 | | |
| 70x40 | 2,52 | 3,33 | 4,90 | 6,41 | 7,85 | 9,24 | 10,60 | 11,80 | 14,10 | |
| 70x50 | 2,76 | 3,64 | 5,37 | 7,03 | 8,63 | 10,20 | 11,70 | 13,10 | 15,70 | |
| 70x60 | | | 5,84 | 7,67 | 9,42 | 11,10 | 12,80 | 14,30 | 17,30 | |
| 80x15 | 2,17 | 2,86 | 4,19 | | | | | | | |
| 80x20 | 2,29 | 3,02 | 4,43 | | | | | | | |
| 80x25 | 2,40 | 3,17 | 4,67 | | | | | | | |
| 80x30 | 2,52 | 3,33 | 4,90 | 6,41 | | | | | | |
| 80x40 | 2,76 | 3,64 | 5,37 | 7,03 | 8,63 | 10,20 | 11,70 | 13,10 | 15,70 | |
| 80x50 | 2,99 | 3,96 | 5,84 | 7,67 | 9,42 | 11,11 | 12,80 | 14,30 | 17,30 | |
| 80x60 | 3,23 | 4,27 | 6,31 | 8,29 | 10,20 | 12,10 | 13,90 | 15,60 | 18,80 | |
| 90x20 | 2,52 | 3,33 | 4,90 | | | | | | | |
| 90x30 | 2,76 | 3,64 | 5,37 | 7,03 | | | | | | |
| 90x40 | 2,99 | 3,96 | 5,84 | 7,67 | | | | | | |
| 90x50 | 3,23 | 4,27 | 6,31 | 8,29 | 10,20 | 12,10 | 13,90 | 15,60 | 18,80 | |
| 90x60 | 3,47 | 4,59 | 6,79 | 8,92 | 11,00 | 13,00 | | | | |
| 90x70 | | | 7,25 | 9,55 | 11,80 | 13,90 | 16,10 | 18,10 | | |
| 100x20 | 2,76 | 3,64 | 5,37 | | | | | | | |
| 100x30 | 2,99 | 3,96 | 5,84 | 7,67 | 9,42 | 11,10 | 12,80 | 14,30 | 17,30 | |
| 100x40 | 3,23 | 4,27 | 6,31 | 8,29 | 10,20 | 12,10 | 13,90 | 15,60 | 18,80 | |
| 100x50 | 3,47 | 4,59 | 6,79 | 8,92 | 11,00 | 13,00 | 15,00 | 16,80 | 20,40 | |
| 100x60 | | 4,90 | 7,25 | 9,55 | 11,80 | 13,90 | 16,10 | 18,10 | 22,00 | |
| 100x70 | | 5,22 | 7,73 | 10,20 | 12,60 | 14,90 | 17,20 | 19,40 | 23,60 | |
| 100x80 | | 5,53 | 8,20 | 10,80 | 13,40 | 15,80 | 18,30 | 20,60 | 25,10 | 29,40 |
| 110x50 | | 4,90 | 7,25 | 9,55 | 11,80 | 13,90 | 16,10 | | | |
| 110x60 | | | 7,73 | 10,20 | 12,60 | 14,90 | 17,20 | 19,40 | 23,60 | |
| 110x80 | | | 8,67 | 11,40 | 14,10 | 16,80 | 19,40 | 21,90 | 26,70 | 31,30 |
| 120x30 | | 4,59 | 6,79 | 8,92 | | | | | | |
| 120x40 | | 4,90 | 7,25 | 9,55 | 11,80 | 13,90 | 16,10 | 18,10 | | |
| 120x50 | | | 7,73 | 10,20 | 12,60 | 14,90 | 17,20 | 19,40 | 23,60 | |
| 120x60 | | 5,53 | 8,20 | 10,80 | 13,40 | 15,80 | 18,30 | 20,60 | 25,10 | |
| 120x70 | | | 8,67 | 11,40 | 14,10 | 16,80 | 19,40 | 21,90 | 26,70 | |
| 120x80 | | 6,16 | 9,14 | 12,10 | 14,90 | 17,70 | 20,50 | 23,10 | 28,30 | 33,20 |
| 120x100 | | | 10,10 | 13,30 | 16,50 | 19,60 | 22,70 | 25,60 | 31,40 | 36,90 |
| 130x50 | | 5,53 | 8,20 | 10,80 | 13,40 | 15,80 | | | | |
| 130x60 | | 5,84 | 8,67 | 11,40 | | | | | | |
| 140x40 | | 5,53 | 8,20 | 10,80 | 13,40 | 15,80 | 18,30 | 20,60 | 25,10 | |
| 140x50 | | 5,84 | 8,67 | 11,40 | | | | | | |
| 140x60 | | 6,16 | 9,14 | 12,10 | 14,90 | 17,70 | 20,50 | 23,10 | 28,30 | |
| 140x70 | | 6,47 | 9,61 | 12,70 | 15,70 | 18,70 | 21,60 | 24,40 | 29,80 | 35,10 |
| 140x80 | | 6,79 | 10,10 | 13,30 | 16,50 | 19,60 | 22,70 | 25,60 | 31,40 | 36,90 |

TUBI ACCIAIO ELETROSALDATI RETTANGOLARI

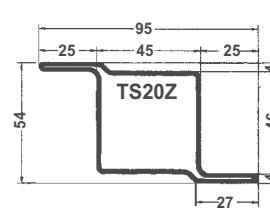
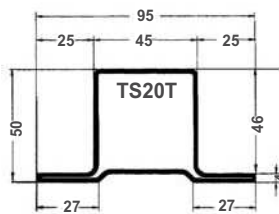
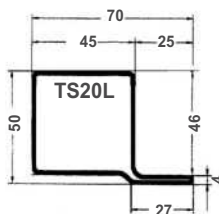


| Lati esterni mm. | Spessore mm. | | | | | | | | | |
|------------------------|--------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 12 | 14 |
| | Peso - Kg/mt | | | | | | | | | |
| 150x30 | 5,53 | 8,20 | 10,80 | | | | | | | |
| 150x40 | 5,84 | 8,67 | 11,43 | | | | | | | |
| 150x50 | 6,16 | 9,14 | 12,10 | 14,90 | 17,70 | 20,50 | 23,10 | | | |
| 150x60 | | 9,61 | 12,70 | 15,70 | 18,70 | 21,60 | 24,40 | 29,80 | | |
| 150x70 | | 10,10 | 13,31 | 16,50 | 19,60 | 22,70 | | | | |
| 150x75 | | 10,30 | 13,60 | 16,90 | 20,10 | 23,20 | | | | |
| 150x80 | | 10,60 | 13,95 | | | | | | | |
| 150x100 | | 11,50 | 15,20 | 18,80 | 22,40 | 25,90 | 29,40 | 36,10 | 42,60 | |
| 160x50 | | 9,61 | 12,70 | 15,70 | 18,70 | | | | | |
| 160x60 | | 10,10 | 13,32 | 16,50 | 19,60 | 22,70 | 25,60 | 31,40 | | |
| 160x80 | | 11,00 | 14,60 | 18,10 | 21,50 | 24,90 | 28,10 | 34,60 | 40,70 | |
| Lati esterni mm. | Spessore mm. | | | | | | | | | |
| | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 12 | 14 | 16 |
| | Peso - Kg/mt | | | | | | | | | |
| 180x60 | 11,00 | 14,60 | 18,10 | 21,50 | 24,90 | 28,10 | 34,60 | 40,70 | | |
| 180x80 | 12,00 | 15,80 | 19,60 | 23,40 | 27,00 | 30,70 | 37,70 | 44,50 | | |
| 180x100 | | 17,10 | 21,20 | 25,30 | 29,20 | 33,20 | 40,80 | 48,30 | 55,40 | 62,30 |
| 180x120 | | 18,30 | 22,80 | 27,10 | 31,40 | 35,70 | 44,00 | | | |
| 180x140 | | 19,60 | 24,30 | 29,00 | 33,60 | 38,20 | 47,10 | | | |
| 200x80 | | 17,10 | 21,20 | 25,30 | 29,20 | 33,20 | 40,80 | | | |
| 200x100 | 13,85 | 18,34 | 22,80 | 27,10 | 31,43 | 35,70 | 44,00 | 52,00 | 59,80 | 67,40 |
| 200x120 | | 19,60 | 24,30 | 29,00 | 33,60 | 38,20 | 47,10 | 55,80 | 64,20 | 72,40 |
| 200x150 | 16,20 | 21,50 | 26,70 | 31,90 | 36,90 | 42,00 | 51,80 | 61,40 | | |
| 220x80 | | 18,30 | 22,80 | 27,10 | 31,40 | 35,70 | 44,00 | | | |
| 220x100 | | | 24,30 | 29,00 | 33,60 | 38,20 | 47,10 | | | |
| 220x120 | | | 25,90 | 30,90 | 35,80 | 40,70 | 50,30 | 59,60 | 68,60 | 77,40 |
| 220x140 | | | 27,50 | 32,80 | 38,00 | 43,20 | 53,40 | 63,30 | | |
| 250x100 | 16,20 | 21,50 | 26,70 | 31,90 | 36,93 | 42,00 | 51,81 | 61,40 | | |
| 250x150 | | 24,62 | 30,62 | 36,60 | 42,42 | 48,30 | 59,70 | 70,90 | 81,80 | 92,50 |
| 300x100 | | 24,62 | 30,62 | 36,60 | 42,42 | 48,30 | 59,70 | 70,90 | | |
| 300x150 | | 27,80 | 34,60 | 41,30 | 47,92 | 54,51 | 67,51 | 80,30 | | |
| 300x200 | | 30,90 | 38,50 | 46,00 | 53,40 | 60,80 | 75,40 | 89,70 | 103,80 | 117,60 |
| 300x250 | | | | 50,70 | 58,90 | 67,10 | 83,30 | 99,10 | | |
| 350x150 | | | 38,50 | 46,00 | 53,40 | 60,00 | 75,40 | 89,70 | | |
| 350x250 | | | | 55,40 | 64,40 | 73,40 | 91,10 | 108,60 | | |
| 400x100 | | | 38,50 | 46,00 | 53,40 | 69,80 | 75,40 | 89,70 | | |
| 400x200 | | | | 55,40 | 64,40 | 73,40 | 91,10 | 108,60 | | 142,00 |
| 400x250 | | 40,32 | 50,30 | 60,10 | 69,90 | 79,70 | 99,00 | | | |
| 400x300 | | | | 64,80 | 75,40 | 86,00 | 106,80 | 127,40 | 147,80 | 167,90 |
| 450x250 | | | | 64,80 | 75,40 | 86,00 | 106,80 | 127,40 | 147,80 | 167,90 |
| 500x200 | | | | 64,80 | 75,40 | 86,00 | 106,80 | 127,40 | 147,80 | 167,90 |
| 500x300 | | | | | | 98,50 | 122,50 | 146,30 | 169,80 | 193,00 |

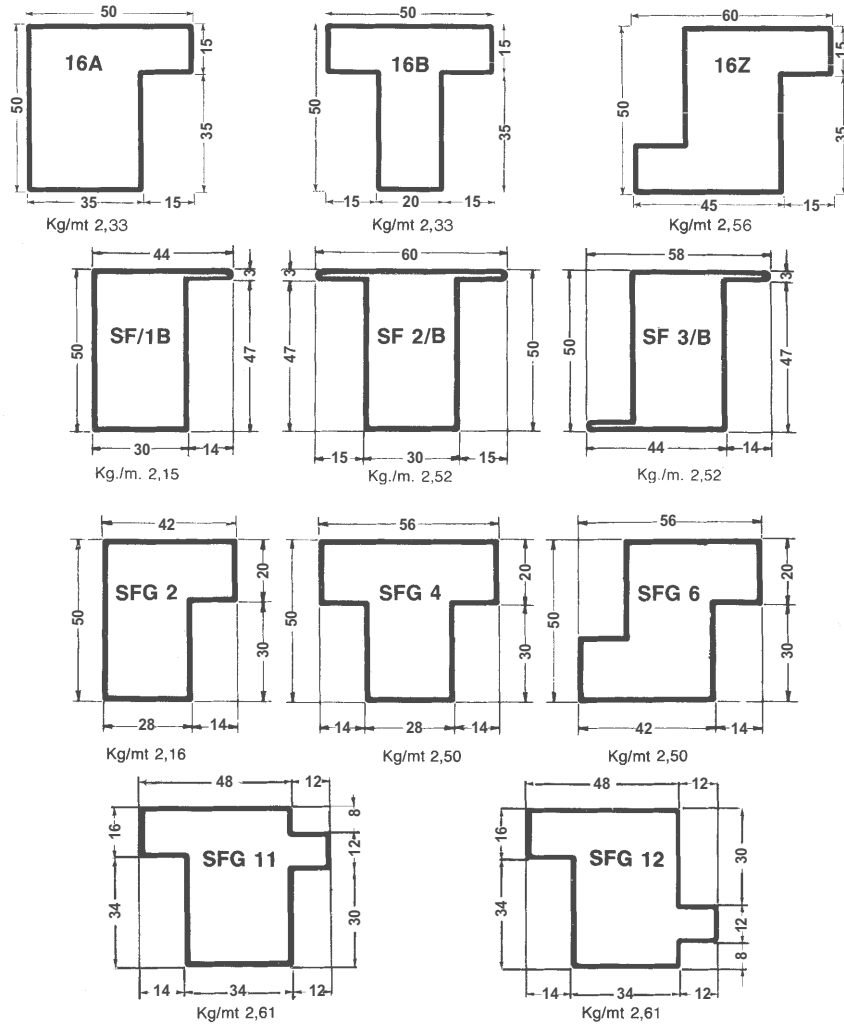
TUBOLARI PER SERRAMENTI spessore 15/10



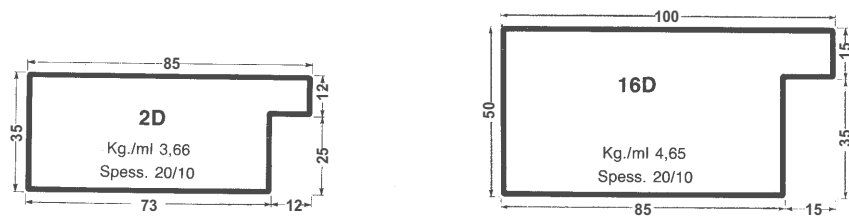
TUBOLARI PER SERRAMENTI nuova serie spessore 18/10



TUBOLARI PER PORTONI spessore 15/10



TUBOLARI PER PORTONI spessore 20/10



MONOROTAIE E CARRELLI



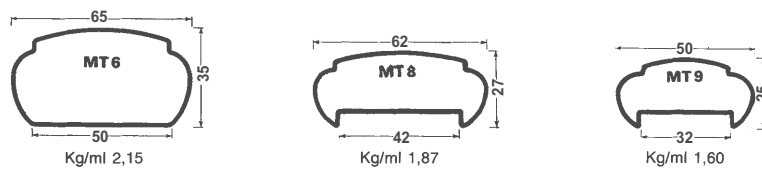
TUBOLARI A SEZIONE VARIA

| | | | | | | | |
|------|--------------|------|------|------|------|------|--|
| | A | 3 | 4 | 4 | 5 | 6 | |
| | B | 5 | 7 | 7 | 7 | 7 | |
| Kg/m | 15/10 | 1,05 | 1,27 | 1,43 | 1,61 | 1,97 | |
| | per s. 20/10 | 1,38 | 1,67 | 1,88 | 2,12 | 2,61 | |

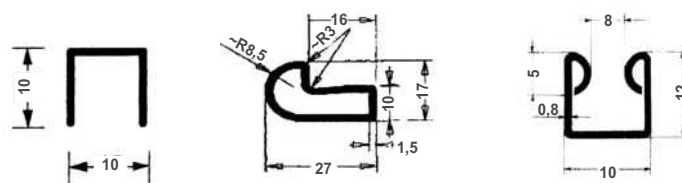
| | | | | | | | |
|------|--------------|------|------|-------|------|------|--|
| | A | 3 | 4 | 5 | 5 | 6 | |
| | B | 5 | 7 | 7 | 7 | 7 | |
| Kg/m | 15/10 | 0,98 | 1,24 | 1,239 | 1,55 | 1,87 | |
| | per s. 20/10 | 1,28 | 1,63 | 1,628 | 1,95 | 2,47 | |

| | | | | | | | |
|------|--------------|------|------|------|------|------|--|
| | A | 3 | 4 | 6 | 6 | 9 | |
| | B | 5 | 7 | 7 | 7 | 7 | |
| Kg/m | 15/10 | 0,86 | 1,24 | 1,78 | 1,92 | | |
| | per s. 20/10 | 1,13 | 1,63 | 2,35 | 2,50 | 4,08 | |

TUBOLARI PER CORRIMANO spessore 1,5

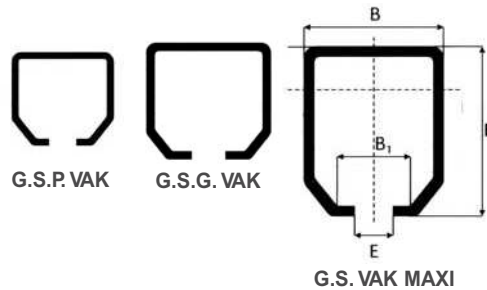


FERMAVETRO



GUIDE PER PORTONI

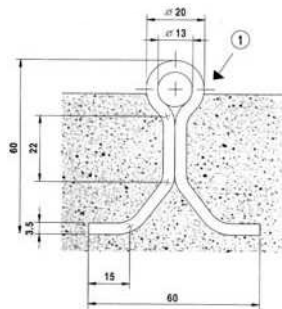
| | B mm | H mm | E mm | B ₁ mm |
|---------------|---------|---------|---------|----------------------|
| G.S.P. VAK | 65,0 | 60,0 | 18,0 | 44,0 |
| G.S.G. VAK | 80,0 | 75,0 | 22,0 | 58,0 |
| G.S. VAK MAXI | 90,0 | 110,0 | 25,0 | 58,0 |



GUIDA PER CANCELLI E PORTONI SCORREVOLI



OMEGA



ACCESSORI VARI



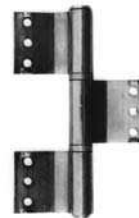
PIASTRA

C.A.N.G. VAK



PIASTRA

C.A. 6R C/S



ACC3



ACC 3C nuova con
C.A.N.P. o C.A.N.G.



Supp. Guida



954 DX/SX

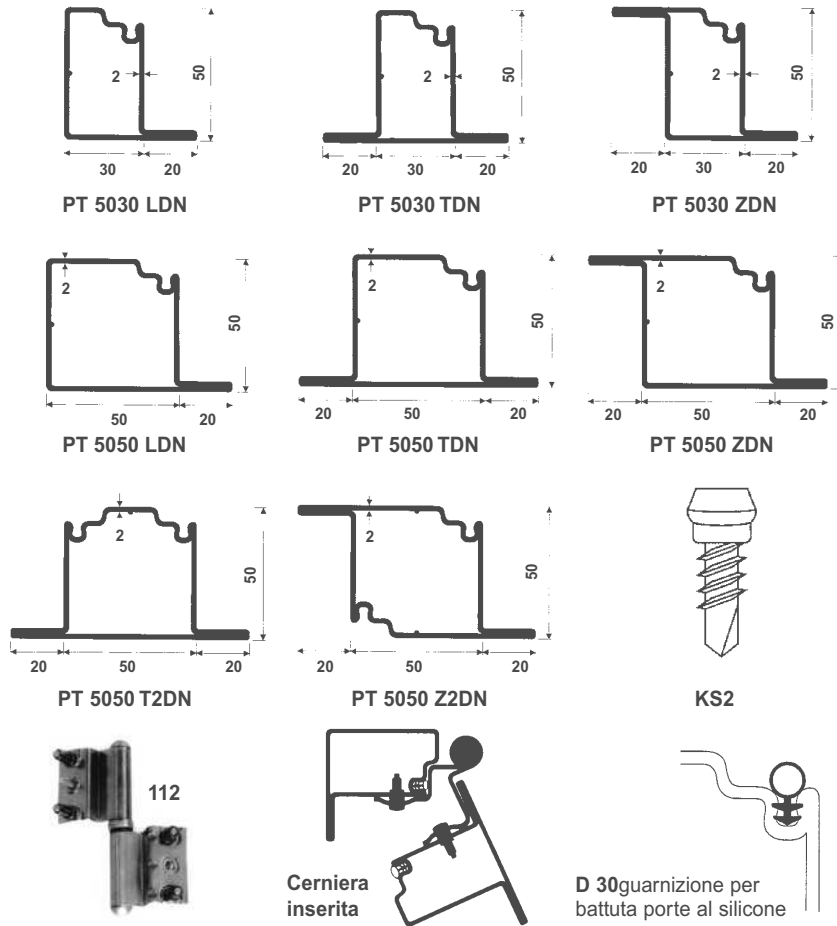


Supp. Parete

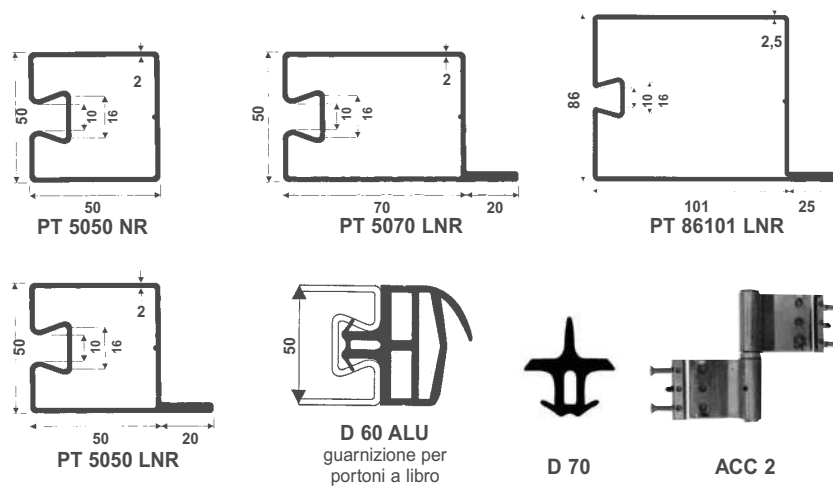


Patta PT

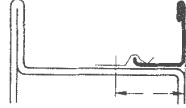
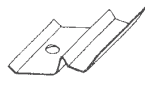
TUBOLARI ZINCATI con portaguarnizione 20/10



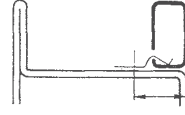
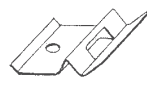
TUBOLARI ZINCATI per portoni con portaguarnizione 20/10



CLIPS E FERMAPANNELLI

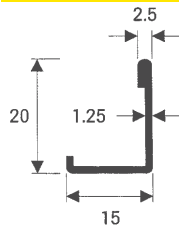


PT 41000 clips senza graffa

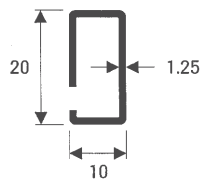


PT 40500 clips con graffa

FERMAPANNELLI E FERMAVETRI ZINCATI serie OG

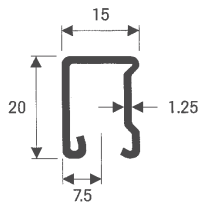


OG 3

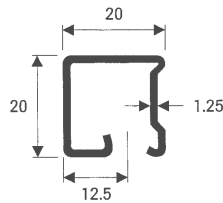


OG 10

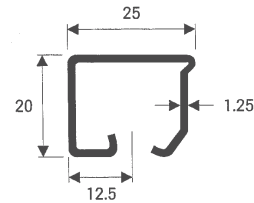
FERMAVETRI ZINCATI DISASSATI serie GL



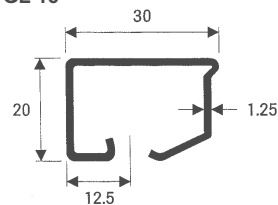
GL 15



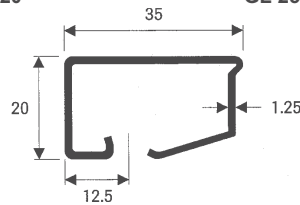
GL 20



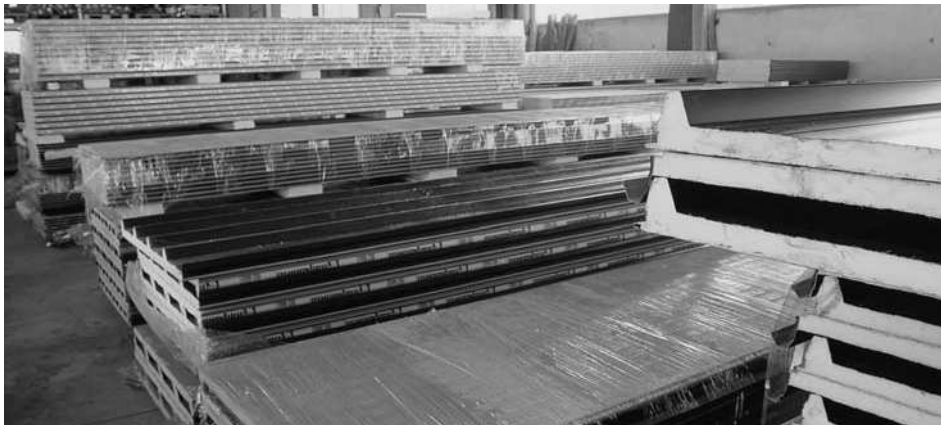
GL 25



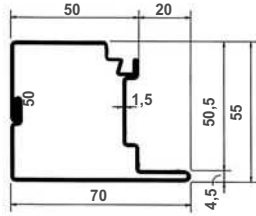
GL 30



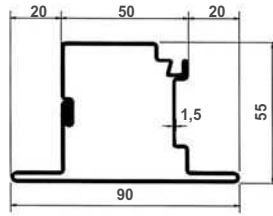
GL 35



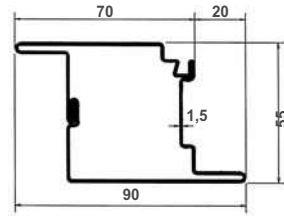
PROFILI TUBOLARI ZINCATI con portaguarnizione 15/10



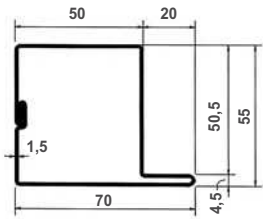
3011



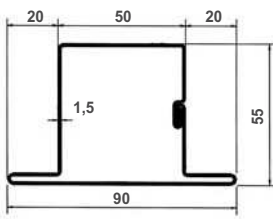
3012



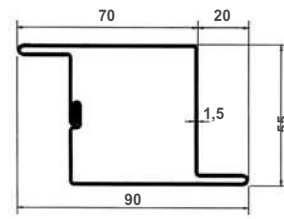
3013



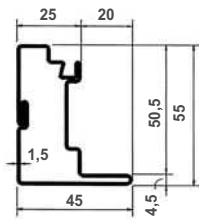
3001



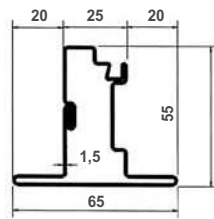
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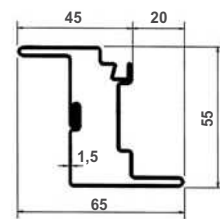
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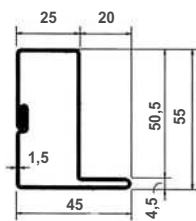
3111



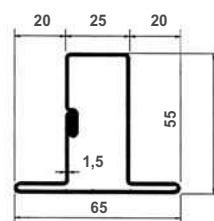
3112



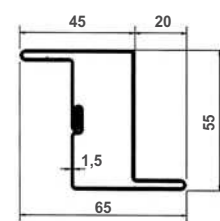
3113



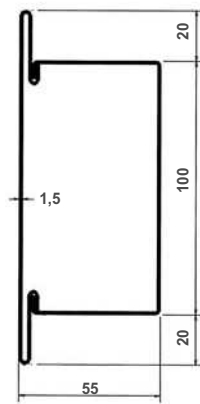
3101



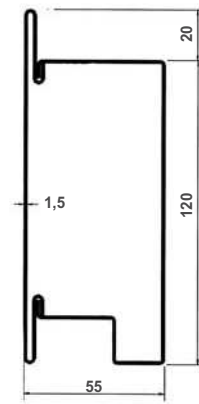
3102



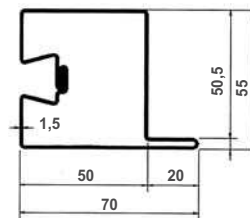
3103



3004

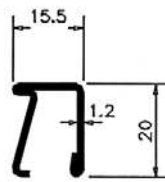


3005

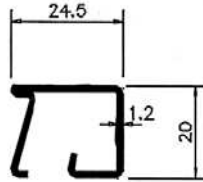


3006

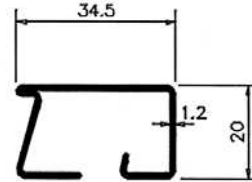
FERMAVETRI ZINCATI



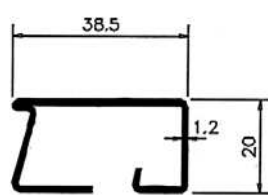
2007 - vetro da 28 mm



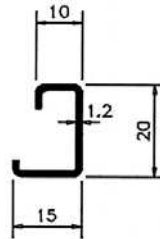
2008 - vetro da 20/21 mm



2009 - vetro da 10/11 mm



2010 - vetro da 6/7 mm



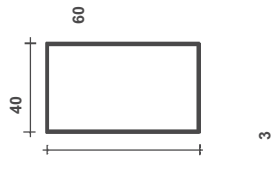
2015 - fermapannello

inoltre .

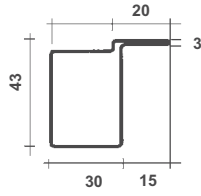
Meccanica Lamiere forate - lamiere zincate e preverniciate per coperture rete ondulata - tondi trafilati - grigliati neri, zincati e plastificati catene e accessori per sollevamento carichi sospesi. Componenti per cancelli e portoni (ruote, serrature, carrelli, ecc.) raccorderie metalliche a saldare - dischi per taglio - mole trapani e piccole attrezzature per fabbri.

Edilizia Tondo per C.A. prelaborato ed in barre - reti elettrosaldate chiodi e filo cotto - chiusini in ghisa - recinzioni metalliche - recinzioni per cantieri - recinzioni per campi gioco canali cemento e griglie in ghisa. Macchine edili: gru - betoniere - cesoie - segatrici - elevatori compressori - generatori di corrente - martelli demolitori - vibratori per calcestruzzo ed altri. Attrezzatura edile: box e monoblocchi - ponteggi e trabattelli puntelli - pannelli per casseformi, accessori per pavimenti dischi diamantati - piccole minuterie. Noleggio.

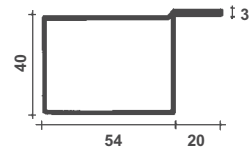
TUBOLARI ACCIAIO PER PERSIANE BLINDATE



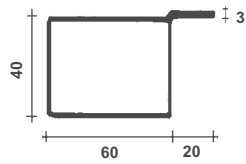
Rettangolo 60x40



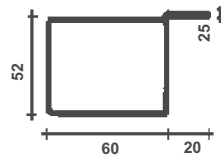
15 A



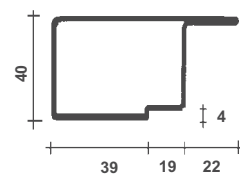
PSA 54



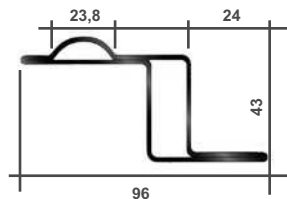
PSA 60



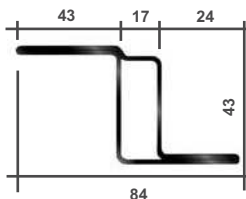
PRA 52



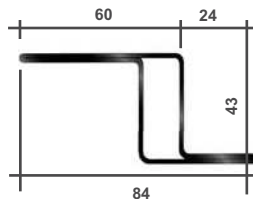
TLS 58



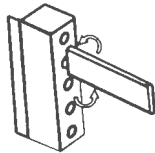
PSB



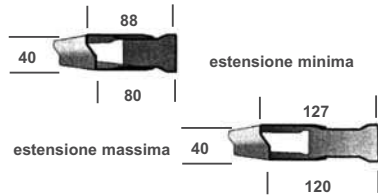
PSZ



PSL



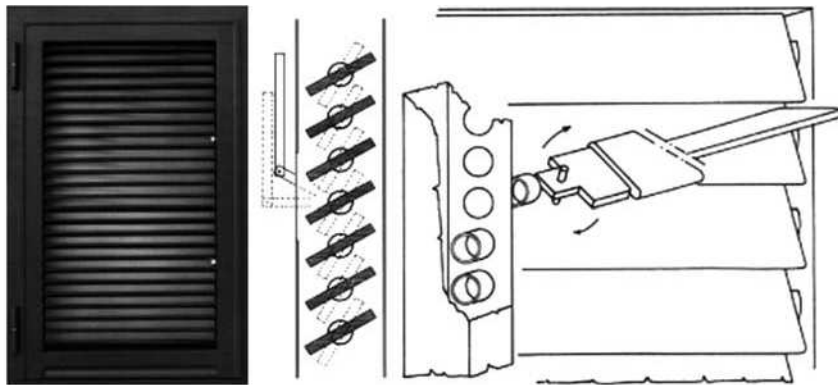
Orientabile



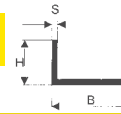
Fascia espansiva

LA PERSIANA BLINDATA A DOGHE ORIENTABILI

Persiana realizzata con tubolare speciale decapato e/o zincato, di cui le misure 60x52 mm con aletta da cm.2 consentono un forte e comodo alloggiamento di un sistema di regolazione interno, con profilo in acciaio inox. Brevettato. Questo sistema è dotato di maniglietta posta all'interno della finestra che, oltre a fungere da blocco della chiusura, consente di regolare l'apertura delle ovaline 50x10 mm. a proprio piacimento.

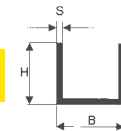


PROFILATI "U" ad ali uguali



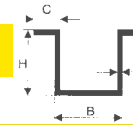
| Dimensioni | | Spessore mm. | | | | |
|------------|-----|--------------|------|-------|-------|-------|
| B | H | 1,5 | 2 | 3 | 4 | 5 |
| mm. | | Peso - Kg/mt | | | | |
| 15 | 10 | 0,32 | | | | |
| 20 | 10 | 0,38 | | | | |
| 25 | 12 | 0,48 | 0,60 | | | |
| 25 | 30 | 0,87 | 1,25 | | | |
| 30 | 15 | 0,61 | 0,78 | | | |
| 30 | 20 | 0,73 | 0,93 | 1,27 | | |
| 30 | 25 | 0,85 | 1,09 | 1,51 | | |
| 30 | 40 | 1,20 | 1,56 | 2,22 | | |
| 35 | 20 | 0,79 | 1,01 | 1,39 | | |
| 40 | 20 | 0,85 | 1,09 | 1,51 | | |
| 50 | 20 | 0,97 | 1,25 | 1,75 | | |
| 50 | 25 | 1,14 | 1,40 | 1,98 | | |
| 60 | 30 | | 1,72 | 2,45 | | |
| 60 | 40 | | 2,03 | 2,92 | | |
| 80 | 40 | | 2,35 | 3,39 | 4,36 | 5,24 |
| 100 | 50 | | 2,97 | 4,34 | 5,61 | 6,81 |
| 120 | 60 | | | 5,28 | 6,87 | 8,38 |
| 140 | 60 | | | 5,75 | 7,50 | 9,16 |
| 150 | 50 | | | 5,51 | 7,18 | 8,77 |
| 150 | 70 | | | 6,46 | 8,44 | 10,34 |
| 200 | 100 | | | 9,05 | 11,89 | 14,66 |
| 250 | 100 | | | 10,22 | 13,46 | 16,62 |
| 300 | 100 | | | | 15,03 | 18,58 |

PROFILATI "U" a lati uguali



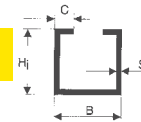
| Dimensioni | | Spessore mm. | | | | |
|------------|----|--------------|------|------|------|------|
| B | H | 1,5 | 2 | 3 | 3,5 | 4 |
| mm. | | Peso - Kg/mt | | | | |
| 10 | 10 | 0,26 | | | | |
| 12 | 12 | 0,33 | | | | |
| 15 | 15 | 0,44 | 1,54 | | | |
| 20 | 20 | 0,61 | 0,78 | | | |
| 25 | 25 | 0,79 | 1,01 | 1,39 | | |
| 30 | 30 | 0,97 | 1,25 | 1,75 | | |
| 35 | 35 | | 1,48 | 2,10 | | |
| 40 | 40 | | 1,72 | 2,45 | | 3,10 |
| 45 | 45 | | 1,95 | 2,80 | | 3,57 |
| 50 | 50 | | 2,19 | 3,16 | | 4,04 |
| 60 | 60 | | | | 4,44 | 4,99 |

PROFILATI OMEGA SIMMETRICI



| Dimensioni | | | Spessore mm. | | | | | |
|------------|-----|----|--------------|------|------|-------|-------|-------|
| B | HC | | 1,5 | 2 | 2,5 | 3 | 4 | 5 |
| mm. | | | Peso - Kg/mt | | | | | |
| 30 | 30 | 15 | 1,23 | 1,55 | | | | |
| 30 | 40 | 20 | 1,58 | 2,02 | | | | |
| 40 | 40 | 20 | 1,70 | 2,18 | | | | |
| 30 | 50 | 20 | 1,81 | 2,34 | 2,82 | | | |
| 50 | 50 | 20 | 2,05 | 2,65 | 3,21 | | | |
| 40 | 60 | 25 | | 2,96 | 3,60 | 4,20 | | |
| 40 | 80 | 25 | | 3,59 | 4,39 | 5,14 | | |
| 50 | 100 | 30 | | 4,53 | 5,56 | 6,55 | 8,40 | |
| 60 | 120 | 30 | | 5,32 | 6,54 | 7,73 | 9,97 | |
| 80 | 150 | 45 | | | | 10,32 | 13,43 | 16,37 |
| 80 | 180 | 40 | | | | 11,50 | 15,00 | 18,33 |

PROFILATI "C"



| Dimensioni | | | Spessore mm. | | | |
|------------|----|------|--------------|------|------|------|
| B | HC | | 1,5 | 2 | 2,5 | 3 |
| mm. | | | Peso - Kg/mt | | | |
| 25 | 15 | 7,5 | 0,64 | | | |
| 25 | 25 | 7,5 | 0,87 | | | |
| 30 | 15 | 7,5 | 0,70 | | | |
| 30 | 30 | 10 | 1,11 | 1,39 | 1,64 | 1,84 |
| 35 | 35 | 10 | 1,28 | 1,63 | 1,93 | 2,19 |
| 40 | 20 | 10 | 0,99 | 1,24 | | |
| 40 | 40 | 15 | 1,58 | 2,02 | 2,42 | 2,78 |
| 50 | 25 | 12,5 | | | | 2,19 |
| 50 | 50 | 15 | | 2,49 | 3,01 | 3,49 |
| 60 | 30 | 15 | | 2,02 | 2,42 | 2,78 |
| 60 | 40 | 20 | | 2,49 | 3,01 | 3,49 |
| 60 | 60 | 20 | | 3,12 | 3,80 | 4,43 |
| 70 | 40 | 12 | | 2,40 | 2,89 | 3,35 |
| 80 | 40 | 20 | | 2,81 | 3,40 | 3,96 |
| 80 | 80 | 30 | | 4,38 | 5,37 | 6,32 |
| 100 | 50 | 25 | | 3,59 | 4,39 | 5,14 |

RETE IN FILO ELETTROSALDATO MAGLIA RT



| Maglia | Filo Ø | Formato pannello | |
|--------|--------|------------------|-----------|
| | | Altezza | Lunghezza |
| 60x11 | 2,85 | 1200 | 2400 |

RETE IN FILO ELETTROSALDATO MAGLIA TEC



| Maglia | Filo Ø | Formato pannello | |
|-----------|--------|------------------|-----------|
| | | Altezza | Lunghezza |
| 105x15x15 | 2,85 | 1220 | 2400 |

Su richiesta disponibilità in altri formati di rotoli in varie altezze.

RETE IN FILO ONDULATO



| Quadro | Peso in kg/m | | | | | | | | | | | |
|--------|--------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| | 1,5 | 1,8 | 2,00 | 2,40 | 3,00 | 3,40 | 3,90 | 4,40 | 4,90 | 5,40 | 5,90 | 6,40 |
| 10 | 2,920 | 4.300 | | | | | | | | | | |
| 12 | | 3.700 | 4.500 | | | | | | | | | |
| 15 | | 2.840 | 3.500 | 5.000 | | | | | | | | |
| 20 | | 2.125 | 2.620 | 3.770 | 5.950 | | | | | | | |
| 25 | | 1.715 | 2.150 | 3.060 | 4.800 | 6.100 | 8.500 | | | | | |
| 30 | | | 1.670 | 2.530 | 3.965 | 5.100 | 6.545 | 8.550 | 10.570 | | | |
| 35 | | | | 2.180 | 3.475 | 4.400 | 5.780 | 7.380 | 9.100 | 11.000 | | |
| 40 | | | | 1.920 | 3.000 | 3.860 | 5.100 | 6.460 | 8.110 | 9.375 | 10.735 | 12.300 |
| 50 | | | | 1.700 | 2.430 | 3.100 | 4.120 | 5.230 | 6.490 | 7.900 | 8.900 | 10.500 |
| 60 | | | | 2.040 | 2.620 | 3.450 | 4.440 | 5.430 | 6.660 | 7.900 | 9.300 | |

RETE IN FILO ELETTROSALDATO MAGLIA QUADRA



| Maglia | Filo Ø | Formato pannello | | Maglia | Filo Ø | Formato pannello | |
|--------|--------|------------------|-----------|---------|--------|------------------|-----------|
| | | Altezza | Lunghezza | | | Altezza | Lunghezza |
| 30x30 | 2,85 | 1215 | 2400 | 50x50 | 5,00 | 1000 | 2000 |
| 40x40 | 4,00 | 1125 | 2200 | 50x50 | 5,00 | 1200 | 2400 |
| 40x40 | 4,00 | 1210 | 2400 | 50x50 | 6,00 | 1200 | 2400 |
| 50x50 | 2,85 | 1200 | 2400 | 100x100 | 2,85 | 1200 | 2400 |
| 50x50 | 2,85 | 1000 | 2000 | 100x100 | 4,00 | 1200 | 2400 |
| 50x50 | 4,00 | 1000 | 2000 | 100x100 | 5,00 | 1200 | 2400 |
| 50x50 | 4,00 | 1000 | 3000 | 100x100 | 6,00 | 1200 | 2400 |
| 50x50 | 4,00 | 1200 | 2400 | | | | |

RETE ELETTROSALDATA PER C.A.



| Maglia mm | Ø Fili mm | Sezione m ² /m ² | Peso kg/m ² | Maglia mm | Ø Fili mm | Sezione m ² /m ² | Peso kg/m ² |
|--------------|--------------|---|---------------------------|--------------|--------------|---|---------------------------|
| | | | | | | | |
| 150x150 | 5-5 | 131-131 | 2,07 | 150x150 | 8-8 | 335-335 | 5,30 |
| 200x200 | 5-5 | 98-98 | 1,59 | 200x200 | 8-8 | 252-252 | 4,08 |
| 100x100 | 6-6 | 283-283 | 4,49 | 200x200 | 10-10 | 393-393 | 6,37 |
| 150x150 | 6-6 | 188-188 | 2,98 | 200x200 | 12-12 | 566-566 | 9,18 |
| 200x200 | 6-6 | 142-142 | 2,29 | 300x150 | 8-5 | 168-131 | 2,24 |
| | | | | 300x300 | 8-8 | 168-168 | 2,35 |

TONDI - QUADRI - ESAGONI



| Diam. lato chiave mm | Peso Kg/mt | | | Diam. lato chiave mm | Peso Kg/mt | | |
|----------------------|------------|--------|---------|----------------------|------------|--------|---------|
| | Tondi | Quadri | Esagoni | | Tondi | Quadri | Esagoni |
| 5 | 0,15 | 0,20 | | 58 | 20,74 | 26,41 | 22,88 |
| 6 | 0,23 | 0,28 | | 60 | 22,20 | 28,26 | 24,49 |
| 7 | 0,31 | 0,38 | | 62 | 23,70 | 30,18 | 26,15 |
| 8 | 0,40 | 0,50 | | 63 | 24,47 | 31,16 | 27,00 |
| 9 | 0,50 | 0,64 | 0,55 | 65 | 26,05 | 33,16 | 28,74 |
| 10 | 0,62 | 0,78 | 0,68 | 68 | 28,51 | 36,30 | 31,45 |
| 11 | 0,75 | 0,95 | 0,82 | 70 | 30,21 | 38,47 | 33,33 |
| 12 | 0,89 | 1,13 | 0,98 | 72 | 31,96 | 40,69 | 35,26 |
| 13 | 1,04 | 1,33 | 1,15 | 73 | 32,85 | 41,83 | 36,25 |
| 14 | 1,21 | 1,54 | 1,33 | 75 | 34,67 | 44,15 | 38,26 |
| 15 | 1,39 | 1,77 | 1,53 | 78 | 37,51 | 47,76 | 41,38 |
| 16 | 1,58 | 2,01 | 1,74 | 80 | 39,46 | 50,24 | 43,53 |
| 17 | 1,78 | 2,27 | 1,96 | 82 | 41,46 | 52,78 | 45,74 |
| 18 | 2,00 | 2,54 | 2,20 | 83 | 42,47 | 54,08 | 46,86 |
| 19 | 2,22 | 2,83 | 2,45 | 85 | 44,55 | 56,71 | |
| 20 | 2,47 | 3,14 | 2,72 | 88 | 47,74 | 60,79 | |
| 21 | 2,72 | 3,46 | 3,00 | 90 | 49,94 | 63,59 | |
| 22 | 2,98 | 3,80 | 3,29 | 93 | 53,32 | 67,90 | |
| 23 | 3,26 | 4,15 | 3,60 | 95 | 55,64 | 70,85 | |
| 24 | 3,55 | 4,52 | 3,92 | 100 | 61,65 | 78,50 | |
| 25 | 3,85 | 4,91 | 4,25 | 105 | 67,97 | 86,55 | |
| 26 | 4,17 | 5,31 | 4,60 | 110 | 74,60 | 94,99 | |
| 28 | 4,83 | 6,15 | 5,33 | 115 | 81,54 | 103,82 | |
| 30 | 5,55 | 7,07 | 6,12 | 120 | 88,78 | 113,04 | |
| 32 | 6,31 | 8,04 | 6,96 | 125 | 96,33 | 122,65 | |
| 33 | 6,71 | 8,55 | 7,40 | 130 | 104,20 | 132,67 | |
| 34 | 7,13 | 9,07 | 7,86 | 135 | 112,36 | 143,07 | |
| 35 | 7,55 | 9,62 | 8,33 | 140 | 120,84 | 153,86 | |
| 36 | 7,99 | 10,17 | 8,81 | 145 | 129,63 | 165,05 | |
| 38 | 8,90 | 11,34 | 9,82 | 150 | 138,72 | 176,63 | |
| 40 | 9,86 | 12,56 | 10,88 | 160 | 157,83 | 200,96 | |
| 42 | 10,88 | 13,85 | 11,99 | 170 | 178,18 | 226,87 | |
| 43 | 11,40 | 14,51 | 12,58 | 180 | 199,76 | 254,34 | |
| 45 | 12,48 | 15,90 | 13,76 | 190 | 222,57 | 283,39 | |
| 46 | 13,04 | 16,61 | 14,38 | 200 | 246,61 | 314,00 | |
| 48 | 14,21 | 18,09 | 15,67 | 220 | 298,40 | | |
| 50 | 15,41 | 19,63 | 16,99 | 230 | 326,15 | | |
| 52 | 16,67 | 21,23 | 18,39 | 240 | 355,13 | | |
| 53 | 17,32 | 22,05 | 19,10 | 250 | 385,34 | | |
| 55 | 18,65 | 23,75 | 20,56 | 300 | 554,89 | | |

TONDI per cemento armato lisci e nervati

| Ø mm | Sez. cmq/ml | Peso kg/ml |
|------|-------------|------------|
| 5 | 0,20 | 0,154 |
| 6 | 0,28 | 0,222 |
| 7 | 0,39 | 0,302 |
| 8 | 0,50 | 0,395 |
| 9 | 0,64 | 0,499 |
| 10 | 0,78 | 0,617 |
| 11 | 0,95 | 0,746 |
| 12 | 1,13 | 0,888 |
| 14 | 1,54 | 1,208 |
| 16 | 2,01 | 1,578 |
| 18 | 2,54 | 1,998 |
| 20 | 3,14 | 2,466 |
| 22 | 3,80 | 2,984 |
| 24 | 4,52 | 3,551 |
| 26 | 5,31 | 4,168 |
| 28 | 6,16 | 4,832 |
| 30 | 7,07 | 5,549 |
| 32 | 8,04 | 6,313 |

PIATTI E LARGHI PIATTI

| Larghezza mm | Spessore mm | | | | | | | | |
|-----------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 12 | 14 |
| Peso Kg/mt | | | | | | | | | |
| 10 | 0,24 | 0,31 | 0,39 | 0,47 | 0,55 | 0,63 | | | |
| 12 | 0,28 | 0,38 | 0,47 | 0,56 | 0,66 | 0,75 | 0,94 | | |
| 14 | 0,33 | 0,44 | 0,55 | 0,66 | 0,77 | 0,88 | 1,10 | 1,32 | |
| 15 | 0,35 | 0,47 | 0,59 | 0,71 | 0,82 | 0,94 | 1,18 | 1,41 | |
| 16 | 0,38 | 0,50 | 0,63 | 0,75 | 0,88 | 1,00 | 1,26 | 1,51 | 1,76 |
| 18 | 0,42 | 0,56 | 0,71 | 0,85 | 0,99 | 1,13 | 1,41 | 1,70 | 1,98 |
| 20 | 0,47 | 0,63 | 0,78 | 0,94 | 1,10 | 1,26 | 1,57 | 1,88 | 2,20 |
| 22 | 0,52 | 0,69 | 0,86 | 1,04 | 1,21 | 1,38 | 1,73 | 2,07 | 2,42 |
| 25 | 0,59 | 0,78 | 0,98 | 1,18 | 1,37 | 1,57 | 1,96 | 2,36 | 2,75 |
| 30 | 0,71 | 0,94 | 1,18 | 1,41 | 1,65 | 1,88 | 2,36 | 2,83 | 3,30 |
| 35 | 0,82 | 1,10 | 1,37 | 1,65 | 1,92 | 2,20 | 2,75 | 3,30 | 3,85 |
| 40 | 0,94 | 1,26 | 1,57 | 1,88 | 2,20 | 2,51 | 3,14 | 3,77 | 4,40 |
| 45 | 1,06 | 1,41 | 1,77 | 2,12 | 2,47 | 2,83 | 3,53 | 4,24 | 4,95 |
| 50 | 1,18 | 1,57 | 1,96 | 2,36 | 2,75 | 3,14 | 3,92 | 4,71 | 5,50 |
| 55 | 1,30 | 1,73 | 2,16 | 2,59 | 3,02 | 3,45 | 4,32 | 5,18 | 6,04 |
| 60 | 1,41 | 1,88 | 2,36 | 2,83 | 3,30 | 3,77 | 4,71 | 5,65 | 6,59 |
| 65 | 1,53 | 2,04 | 2,55 | 3,06 | 3,57 | 4,08 | 5,10 | 6,12 | 7,14 |
| 70 | 1,65 | 2,20 | 2,75 | 3,30 | 3,85 | 4,40 | 5,50 | 6,59 | 7,69 |
| 75 | 1,77 | 2,36 | 2,94 | 3,53 | 4,12 | 4,71 | 5,89 | 7,06 | 8,24 |
| 80 | 1,88 | 2,51 | 3,14 | 3,77 | 4,40 | 5,02 | 6,28 | 7,54 | 8,79 |
| 90 | 2,12 | 2,83 | 3,53 | 4,24 | 4,95 | 5,65 | 7,06 | 8,48 | 9,89 |
| 100 | 2,36 | 3,14 | 3,92 | 4,71 | 5,50 | 6,28 | 7,85 | 9,42 | 11,00 |
| 110 | 2,59 | 3,45 | 4,32 | 5,18 | 6,04 | 6,91 | 8,64 | 10,36 | 12,09 |
| 120 | 2,83 | 3,77 | 4,71 | 5,65 | 6,59 | 7,54 | 9,42 | 11,30 | 13,19 |
| 130 | 3,06 | 4,08 | 5,10 | 6,12 | 7,14 | 8,16 | 10,21 | 12,25 | 14,29 |
| 140 | 3,30 | 4,40 | 5,50 | 6,59 | 7,69 | 8,79 | 11,00 | 13,19 | 15,39 |
| 150 | 3,53 | 4,71 | 5,89 | 7,06 | 8,24 | 9,42 | 11,78 | 14,13 | 16,49 |
| 160 | 3,77 | 5,02 | 6,28 | 7,54 | 8,79 | 10,05 | 12,56 | 15,07 | 17,58 |
| 170 | 4,00 | 5,34 | 6,67 | 8,01 | 9,34 | 10,68 | 13,35 | 16,01 | 18,70 |
| 180 | 4,24 | 5,65 | 7,06 | 8,48 | 9,89 | 11,30 | 14,13 | 16,96 | 19,80 |
| 200 | 4,71 | 6,28 | 7,85 | 9,42 | 11,00 | 12,56 | 15,70 | 18,84 | 22,00 |
| 220 | 5,18 | 6,90 | 8,63 | 10,36 | 12,09 | 13,81 | 17,30 | 20,70 | 24,18 |
| 250 | 5,90 | 7,85 | 9,82 | 11,78 | 13,74 | 15,70 | 19,63 | 23,55 | 27,50 |
| 300 | 7,06 | 9,42 | 11,77 | 14,13 | 16,48 | 18,84 | 23,55 | 28,26 | 32,97 |
| 350 | 8,24 | 10,99 | 13,74 | 16,48 | 19,23 | 21,98 | 24,47 | 32,97 | 38,46 |
| 400 | 9,40 | 12,56 | 15,70 | 18,84 | 21,98 | 25,12 | 31,40 | 37,68 | 43,96 |

PIATTI E LARGHI PIATTI

| Larghezza mm | Spessore mm | | | | | | | | |
|-----------------|-------------|-------|-------|-------|-------|-------|--------|--------|--------|
| | 15 | 18 | 20 | 22 | 25 | 30 | 35 | 40 | 50 |
| | Peso Kg/mt | | | | | | | | |
| 18 | 2,12 | | | | | | | | |
| 20 | 2,36 | 2,63 | | | | | | | |
| 22 | 2,59 | 3,10 | 3,45 | | | | | | |
| 25 | 2,94 | 3,53 | 3,93 | 4,32 | | | | | |
| 30 | 3,53 | 4,24 | 4,71 | 5,18 | 5,89 | | | | |
| 35 | 4,12 | 4,95 | 5,50 | 6,04 | 6,87 | 8,24 | | | |
| 40 | 4,71 | 5,65 | 6,28 | 6,91 | 7,85 | 9,42 | 10,99 | | |
| 45 | 5,30 | 6,36 | 7,06 | 7,77 | 8,83 | 10,60 | 12,36 | 14,13 | |
| 50 | 5,89 | 7,06 | 7,85 | 8,64 | 9,81 | 11,78 | 13,74 | 15,70 | |
| 55 | 6,48 | 7,77 | 8,64 | 9,50 | 10,80 | 12,95 | 15,11 | 17,27 | |
| 60 | 7,06 | 8,48 | 9,42 | 10,36 | 11,78 | 14,13 | 16,49 | 18,84 | 23,55 |
| 65 | 7,65 | 9,19 | 10,21 | 11,23 | 12,76 | 15,31 | 17,86 | 20,41 | 25,50 |
| 70 | 8,24 | 9,89 | 11,00 | 12,10 | 13,74 | 16,49 | 19,23 | 21,98 | 27,48 |
| 75 | 8,83 | 10,60 | 11,78 | 12,95 | 14,72 | 17,66 | 20,61 | 23,55 | 29,44 |
| 80 | 9,42 | 11,30 | 12,56 | 13,82 | 15,70 | 18,84 | 21,98 | 25,12 | 31,40 |
| 90 | 10,60 | 12,72 | 14,13 | 15,54 | 17,66 | 21,20 | 24,73 | 28,26 | 35,33 |
| 100 | 11,78 | 14,13 | 15,70 | 17,27 | 19,63 | 23,55 | 27,48 | 31,40 | 39,25 |
| 110 | 12,95 | 15,54 | 17,27 | 18,99 | 21,59 | 25,91 | 30,22 | 34,54 | 43,18 |
| 120 | 14,13 | 16,96 | 18,84 | 20,72 | 23,55 | 28,26 | 32,97 | 37,68 | 47,10 |
| 130 | 15,31 | 18,37 | 20,41 | 22,45 | 25,51 | 30,62 | 35,72 | 40,82 | 51,03 |
| 140 | 16,49 | 19,78 | 21,98 | 24,18 | 27,48 | 32,97 | 38,47 | 43,96 | 54,95 |
| 150 | 17,66 | 21,20 | 23,55 | 25,91 | 29,44 | 35,33 | 41,21 | 47,10 | 58,88 |
| 160 | 18,84 | 22,60 | 25,12 | 27,63 | 31,40 | 37,68 | 43,96 | 50,24 | 62,80 |
| 170 | 20,02 | 24,02 | 26,69 | 29,36 | 33,36 | 40,04 | 46,70 | 53,38 | 66,73 |
| 180 | 21,20 | 25,43 | 28,26 | 31,10 | 35,33 | 42,40 | 49,46 | 56,52 | 70,65 |
| 200 | 23,55 | 28,26 | 31,40 | 34,54 | 39,25 | 47,10 | 54,95 | 62,80 | 78,50 |
| 220 | 25,90 | 31,09 | 34,54 | 38,00 | 43,18 | 51,81 | 60,44 | 69,08 | 86,35 |
| 250 | 29,44 | 35,32 | 39,25 | 43,17 | 49,06 | 58,88 | 68,70 | 78,50 | 98,13 |
| 300 | 35,32 | 42,39 | 47,10 | 51,81 | 58,87 | 70,65 | 82,42 | 94,20 | 117,75 |
| 350 | 41,21 | 49,46 | 54,95 | 60,44 | 68,69 | 82,43 | 96,16 | 109,90 | 137,37 |
| 400 | 47,10 | 56,52 | 62,80 | 69,08 | 78,50 | 94,20 | 109,90 | 125,60 | 157,00 |

PROFILATI a "L" spigoli tondi

| Lati esterni mm | Spessore in mm | | | | | | | | | | | | |
|-----------------------|------------------------------|------|------|------|------|------|------|-------|-------|------|------|------|------|
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 14 | 15 | |
| | Peso in Kg per metro lineare | | | | | | | | | | | | |
| 30 | 20 | 1,12 | 1,46 | 1,78 | | | | | | | | | |
| 35 | 20 | | 1,61 | 1,97 | 2,29 | | | | | | | | |
| 40 | 20 | | 1,77 | 2,17 | | | | | | | | | |
| 40 | 25 | | 1,93 | 2,37 | | | | | | | | | |
| 45 | 30 | | 2,25 | 2,77 | 3,27 | | | | | | | | |
| 50 | 30 | | | 2,96 | 3,51 | 4,07 | | | | | | | |
| 60 | 30 | | | 3,37 | 3,99 | 4,59 | | | | | | | |
| 60 | 40 | | | 3,76 | 4,46 | 5,14 | 5,81 | | | | | | |
| 75 | 50 | | | | 5,65 | 6,53 | | 8,22 | | | | | |
| 80 | 40 | | | | 5,41 | 6,25 | 7,07 | | | | | | |
| 80 | 60 | | | | 6,35 | 7,35 | 8,33 | | 10,2 | | | | |
| 100 | 50 | | | | | 7,94 | 8,99 | | 11,1 | | | | |
| 100 | 65 | | | | | 8,77 | 9,95 | 11,1 | 12,3 | 13,4 | | | |
| 110 | 75 | | | | | | 11,1 | | 13,7 | | | | |
| 120 | 60 | | | | | | 10,9 | | 13,4 | | | | |
| 120 | 80 | | | | | | 12,2 | 13,7 | 15,0 | 16,4 | 17,8 | 20,5 | |
| 130 | 65 | | | | | | 11,8 | 13,19 | 14,6 | 15,9 | 17,3 | | |
| 150 | 100 | | | | | | | | 19,3 | | 22,6 | 26,1 | |
| 160 | 80 | | | | | | | | 16,40 | | 21,6 | 25,0 | |
| 200 | 90 | | | | | | | | | 22,2 | 26,3 | 30,8 | 32,5 |
| 200 | 100 | | | | | | | | | 23,0 | 27,3 | 31,6 | 35,9 |
| 200 | 150 | | | | | | | | | 26,9 | 31,8 | 31,6 | 39,6 |

PROFILATI a "L" spigoli vivi

| Dimensione mm | Peso Kg/mt | Dimensione mm | Peso Kg/mt |
|------------------|---------------|------------------|---------------|
| 20x12 x4 | 0,88 | 45x30x6,5 | 3,50 |
| 25x15 x4,5 | 1,25 | 50x30x6 | 3,49 |
| 30x17,5x5 | 1,67 | 50x30x7 | 4,01 |
| 35x20 x5,5 | 2,14 | 60x35x6,5 | 4,52 |
| 40x22 x6 | 2,64 | 60x40x7 | 5,14 |

PROFILATI a "U" N.P

| Dimensione mm | Peso Kg/mt | Dimensione mm | Peso Kg/mt | Dimensione mm | Peso Kg/mt |
|------------------|---------------|--------------------|---------------|--------------------|---------------|
| 30 x33 x5 x7 | 4,27 | 120 x55 x7 x9 | 13,30 | 220 x 80 x 9 x12,5 | 29,40 |
| 40 x35 x5 x7 | 4,88 | 140 x60 x7 x10 | 16,00 | 240 x 85 x 9,5x13 | 33,20 |
| 50 x38 x5 x7 | 5,59 | 160 x65 x7,5 x10,5 | 18,90 | 260 x 90x10 x14 | 37,90 |
| 65 x42 x5,5 x7,5 | 7,90 | 180 x70 x8 x11 | 22,00 | 280 x 95x10 x15 | 41,90 |
| 80 x45 x6 x8 | 8,65 | 200 x75 x8,5 x11,5 | 25,30 | 300 x100x10 x16 | 46,10 |
| 100 x50 x6 x8,5 | 10,60 | | | | |

PROFILATI a "U" serie spec.

| Dimensione mm | Peso Kg/mt | Dimensione mm | Peso Kg/mt | Dimensione mm | Peso Kg/mt |
|------------------|---------------|------------------|---------------|------------------|---------------|
| 25 x12 x4 x4 | 1,30 | 35 x17 x5,5x5,5 | 2,52 | 50 x25 x6 x6 | 4,15 |
| 30 x15 x5 x5 | 1,98 | 40 x20 x6 x6 | 3,23 | 60 x30 x6,5x6,5 | 5,45 |

PROFILATI ANGOLARI a lati uguali spigoli tondi

| Lati esterni mm | Spessore mm | | | | | | | | | | | | |
|-----------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | |
| | Peso Kg/mt | | | | | | | | | | | | |
| 15 | 0,65 | 0,83 | | | | | | | | | | | |
| 20 | 0,88 | 1,14 | | | | | | | | | | | |
| 25 | 1,11 | 1,45 | 1,77 | | | | | | | | | | |
| 30 | 1,36 | 1,78 | 2,18 | 2,58 | | | | | | | | | |
| 35 | 1,60 | 2,10 | 2,57 | 3,04 | | | | | | | | | |
| 40 | 1,83 | 2,42 | 2,97 | 3,52 | | | | | | | | | |
| 45 | 2,09 | 2,74 | 3,38 | 3,99 | 4,60 | | | | | | | | |
| 50 | 2,35 | 3,06 | 3,77 | 4,46 | 5,15 | 5,81 | 6,17 | | | | | | |
| 55 | | 3,35 | 4,16 | 4,95 | 5,71 | 6,46 | 7,18 | 7,90 | | | | | |
| 60 | | 3,70 | 4,57 | 5,42 | 6,24 | 7,09 | 7,89 | 8,69 | | | | | |
| 65 | | 4,02 | 4,96 | 5,91 | 6,83 | 7,73 | | | | | | | |
| 70 | | 4,35 | 5,37 | 6,38 | 7,38 | 8,36 | 9,34 | 10,34 | 11,23 | | | | |
| 80 | | 5,02 | 6,04 | 7,34 | 8,49 | 9,63 | 10,75 | 11,90 | 12,95 | 14,00 | | | |
| | Spessore mm | | | | | | | | | | | | |
| | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 18 | 19 |
| 90 | 8,20 | 9,58 | 10,90 | 12,20 | 13,40 | 14,70 | 15,89 | 17,11 | 18,31 | 19,50 | | | |
| 100 | 9,22 | 10,80 | 12,20 | 13,60 | 15,10 | 16,45 | 17,80 | 19,20 | 20,60 | | | | |
| 110 | 11,20 | 13,00 | 13,50 | | 16,60 | 18,15 | 19,70 | 21,20 | 22,80 | | | | |
| 120 | 11,20 | 13,00 | 14,76 | | 18,20 | 19,90 | 21,60 | 23,30 | 25,00 | 26,60 | 28,45 | 31,50 | |
| 130 | 12,90 | 13,90 | 15,90 | 17,90 | 19,80 | 21,60 | 23,60 | 25,50 | 27,20 | 29,10 | 30,90 | | |
| 140 | | | | 19,20 | 21,35 | 24,40 | 25,63 | 27,50 | 29,45 | 31,40 | 33,35 | 37,22 | 39,14 |
| 150 | | | | | 22,50 | 24,75 | 27,00 | | 31,60 | 33,75 | 35,90 | 40,10 | 42,00 |
| 160 | | | | | | | | | 33,85 | 36,20 | 38,38 | 42,85 | 45,10 |
| 180 | | | | | | | | | 38,40 | 41,00 | 43,50 | 48,60 | 51,12 |
| 200 | | | | | | | | | 42,90 | 45,87 | 48,50 | 54,30 | 57,30 |

PROFILATI A "T" spigoli vivi

| Dimensione mm | Peso Kg/mt | Dimensione mm | Peso Kg/mt |
|---------------|------------|---------------|------------|
| 20 x20 x4 | 1,13 | 45 x 45 x 6,5 | 4,26 |
| 25 x25 x4,5 | 1,61 | 50 x 50 x 7 | 5,11 |
| 30 x30 x5 | 2,16 | 60 x 60 x 8 | 7,03 |
| 35 x35 x5,5 | 2,78 | 70 x 70 x 9 | 9,26 |
| 40 x40 x6 | 3,49 | 80 x 80 x10 | 11,78 |
| | | 100 x100 x11 | 16,32 |

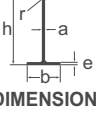
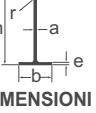
PROFILATI A "T" spigoli tondi

| Dimensione mm | Peso Kg/mt | Dimensione mm | Peso Kg/mt |
|---------------|------------|---------------|------------|
| 60 x60 x7 | 6,23 | 80 x 80 x 9 | 10,70 |
| 70 x70 x8 | 8,32 | 100 x100 x11 | 16,40 |
| | | 120 x120 x13 | 23,20 |

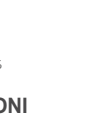
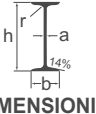
PROFILATI A "T" spigoli vivi (serie alleggerita)

| Dimensione mm | Peso Kg/mt | Dimensione mm | Peso Kg/mt |
|---------------|------------|---------------|------------|
| 30 x30 x3,5 | 1,55 | 50 x50 x6 | 4,43 |
| 30 x30 x4 | 1,76 | 60 x60 x7 | 6,21 |
| 35 x35 x4,5 | 2,31 | 70 x70 x8 | 8,29 |
| 40 x40 x5 | 2,94 | 80 x80 x9 | 10,67 |
| 45 x45 x5,5 | 3,65 | | |

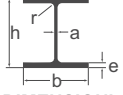
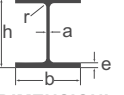
TRAVI IPE

| profilo | peso kg./m. |  DIMENSIONI | | | | | profilo | peso kg./m. |  DIMENSIONI | | | | |
|---------|-------------|---|-----|-----|-----|------|---------|-------------|---|-----|------|------|------|
| | | h | b | a | e | r | | | h | b | a | e | r |
| 80 | 6,0 | 80 | 46 | 3,8 | 5,2 | 5,0 | 270 | 36,1 | 270 | 135 | 6,6 | 10,2 | 15,0 |
| 100 | 8,1 | 100 | 55 | 4,1 | 5,7 | 7,0 | 300 | 42,2 | 300 | 150 | 7,1 | 10,7 | 15,0 |
| 120 | 10,4 | 120 | 64 | 4,4 | 6,3 | 7,0 | 330 | 49,1 | 330 | 160 | 7,5 | 11,5 | 18,0 |
| 140 | 12,9 | 140 | 73 | 4,7 | 6,9 | 7,0 | 360 | 57,1 | 360 | 170 | 8,0 | 12,7 | 18,0 |
| 160 | 15,8 | 160 | 82 | 5,0 | 7,4 | 9,0 | 400 | 66,3 | 400 | 180 | 8,6 | 13,5 | 21,0 |
| 180 | 18,8 | 180 | 91 | 5,3 | 8,0 | 9,0 | 450 | 77,6 | 450 | 190 | 9,4 | 14,6 | 21,0 |
| 200 | 22,4 | 200 | 100 | 5,6 | 8,5 | 12,0 | 500 | 90,7 | 500 | 200 | 10,2 | 16,0 | 21,0 |
| 220 | 26,2 | 220 | 110 | 5,9 | 9,2 | 12,0 | 550 | 106,0 | 550 | 210 | 11,1 | 17,2 | 24,0 |
| 240 | 30,7 | 240 | 120 | 6,2 | 9,8 | 15,0 | 600 | 122,0 | 600 | 220 | 12,0 | 19,0 | 24,0 |

TRAVI NP

| profilo | peso kg./m. |  DIMENSIONI | | | | | profilo | peso kg./m. |  DIMENSIONI | | | | |
|---------|-------------|--|-----|------|------|------|---------|-------------|--|-----|------|------|------|
| | | h | b | a | e | r | | | h | b | a | e | r |
| 80 | 5,9 | 80 | 42 | 3,9 | 5,9 | 3,9 | 320 | 61,0 | 320 | 131 | 11,5 | 17,3 | 11,5 |
| 100 | 8,3 | 100 | 50 | 4,5 | 6,8 | 4,5 | 340 | 68,0 | 340 | 137 | 12,2 | 18,3 | 12,2 |
| 120 | 11,1 | 120 | 58 | 5,1 | 7,7 | 5,1 | 360 | 76,1 | 360 | 143 | 13,0 | 19,5 | 13,0 |
| 140 | 14,3 | 140 | 66 | 5,7 | 8,6 | 5,7 | 380 | 84,0 | 380 | 149 | 13,7 | 20,5 | 13,7 |
| 160 | 17,9 | 160 | 74 | 6,3 | 9,5 | 6,3 | 400 | 92,5 | 400 | 155 | 14,4 | 21,6 | 14,4 |
| 180 | 21,9 | 180 | 82 | 6,9 | 10,4 | 6,9 | 425 | 104,0 | 425 | 163 | 15,3 | 23,0 | 15,3 |
| 200 | 26,2 | 200 | 90 | 7,5 | 11,3 | 7,5 | 450 | 115,0 | 450 | 170 | 16,2 | 24,3 | 16,2 |
| 220 | 31,0 | 220 | 98 | 8,1 | 12,2 | 8,1 | 475 | 128,0 | 475 | 178 | 17,1 | 25,6 | 17,1 |
| 240 | 36,2 | 240 | 106 | 8,7 | 13,1 | 8,7 | 500 | 141,0 | 500 | 185 | 18,0 | 27,0 | 18,0 |
| 260 | 41,9 | 260 | 113 | 9,4 | 14,1 | 9,4 | 550 | 166,0 | 550 | 200 | 19,0 | 30,0 | 19,0 |
| 280 | 47,9 | 280 | 119 | 10,1 | 15,2 | 10,1 | 600 | 199,0 | 600 | 215 | 21,6 | 32,4 | 21,6 |
| 300 | 54,2 | 300 | 125 | 10,8 | 16,2 | 10,8 | | | | | | | |

TRAVI HE

| profilo | peso kg./m. |  DIMENSIONI | | | | | profilo | peso kg./m. |  DIMENSIONI | | | | |
|---------|-------------|---|-----|------|------|------|---------|-------------|---|-----|------|------|------|
| | | h | b | a | e | r | | | h | b | a | e | r |
| 100 A | 16,7 | 96 | 100 | 5,0 | 8,0 | 12,0 | 300 A | 88,3 | 290 | 300 | 8,5 | 14,0 | 27,0 |
| 100 B | 20,4 | 100 | 100 | 6,0 | 10,0 | 12,0 | 300 B | 117,0 | 300 | 300 | 11,0 | 19,0 | 27,0 |
| 100 M | 41,8 | 120 | 106 | 12,0 | 20,0 | 12,0 | 300 M | 238,0 | 340 | 310 | 21,0 | 39,0 | 27,0 |
| 120 A | 19,9 | 114 | 120 | 5,0 | 8,0 | 12,0 | 320 A | 97,6 | 310 | 300 | 9,0 | 15,5 | 27,0 |
| 120 B | 26,7 | 120 | 120 | 6,5 | 11,0 | 12,0 | 320 B | 127,0 | 320 | 300 | 11,5 | 20,5 | 27,0 |
| 120 M | 52,1 | 140 | 126 | 12,5 | 21,0 | 12,0 | 320 M | 245,0 | 359 | 309 | 21,0 | 40,0 | 27,0 |
| 140 A | 24,7 | 133 | 140 | 5,5 | 8,5 | 12,0 | 340 A | 105,0 | 330 | 300 | 9,5 | 16,5 | 27,0 |
| 140 B | 33,7 | 140 | 140 | 7,0 | 12,0 | 12,0 | 340 B | 134,0 | 340 | 300 | 12,0 | 21,5 | 27,0 |
| 140 M | 63,2 | 160 | 146 | 13,0 | 22,0 | 12,0 | 340 M | 248,0 | 377 | 309 | 21,0 | 40,0 | 27,0 |
| 160 A | 30,4 | 152 | 160 | 6,0 | 9,0 | 15,0 | 360 A | 112,0 | 350 | 300 | 10,0 | 17,5 | 27,0 |
| 160 B | 42,6 | 160 | 160 | 8,0 | 13,0 | 15,0 | 360 B | 142,0 | 360 | 300 | 12,5 | 22,5 | 27,0 |
| 160 M | 76,2 | 180 | 166 | 14,0 | 23,0 | 15,0 | 360 M | 250,0 | 395 | 308 | 21,0 | 40,0 | 27,0 |
| 180 A | 35,5 | 171 | 180 | 6,0 | 9,5 | 15,0 | 400 A | 125,0 | 390 | 300 | 11,0 | 19,0 | 27,0 |
| 180 B | 51,2 | 180 | 180 | 8,5 | 14,0 | 15,0 | 400 B | 155,0 | 400 | 300 | 13,5 | 24,0 | 27,0 |
| 180 M | 88,9 | 200 | 186 | 14,5 | 24,0 | 15,0 | 400 M | 256,0 | 432 | 307 | 21,0 | 40,0 | 27,0 |
| 200 A | 42,3 | 190 | 200 | 6,5 | 10,0 | 18,0 | 450 A | 140,0 | 440 | 300 | 11,5 | 21,0 | 27,0 |
| 200 B | 61,3 | 200 | 200 | 9,0 | 15,0 | 18,0 | 450 B | 171,0 | 450 | 300 | 14,0 | 26,0 | 27,0 |
| 200 M | 103,0 | 220 | 206 | 15,0 | 25,0 | 18,0 | 450 M | 263,0 | 478 | 307 | 21,0 | 40,0 | 27,0 |
| 220 A | 50,5 | 210 | 220 | 7,0 | 11,0 | 18,0 | 500 A | 155,0 | 490 | 300 | 12,0 | 23,0 | 27,0 |
| 220 B | 71,5 | 220 | 220 | 9,5 | 16,0 | 18,0 | 500 B | 187,0 | 500 | 300 | 14,5 | 28,0 | 27,0 |
| 220 M | 117,0 | 240 | 226 | 15,5 | 26,0 | 18,0 | 500 M | 270,0 | 524 | 306 | 21,0 | 40,0 | 27,0 |
| 240 A | 60,3 | 230 | 240 | 7,5 | 12,0 | 21,0 | 550 A | 166,0 | 540 | 300 | 12,5 | 24,0 | 27,0 |
| 240 B | 83,2 | 240 | 240 | 10,0 | 17,0 | 21,0 | 550 B | 199,0 | 550 | 300 | 15,0 | 29,0 | 27,0 |
| 240 M | 157,0 | 270 | 248 | 18,0 | 32,0 | 21,0 | 550 M | 278,0 | 572 | 306 | 21,0 | 40,0 | 27,0 |
| 260 A | 68,2 | 250 | 260 | 7,5 | 12,5 | 24,0 | 600 A | 178,0 | 590 | 300 | 13,0 | 25,0 | 27,0 |
| 260 B | 93,0 | 260 | 260 | 10,0 | 17,5 | 24,0 | 600 B | 212,0 | 600 | 300 | 15,5 | 30,0 | 27,0 |
| 260 M | 172,0 | 290 | 268 | 18,0 | 32,5 | 24,0 | 600 M | 285,0 | 620 | 305 | 21,0 | 40,0 | 27,0 |
| 280 A | 76,4 | 270 | 280 | 8,0 | 13,0 | 24,0 | | | | | | | |
| 280 B | 103,0 | 280 | 280 | 10,5 | 18,0 | 24,0 | | | | | | | |
| 280 M | 189,0 | 310 | 288 | 18,5 | 33,0 | 24,0 | | | | | | | |

TRAVI HE sollecitate a flessione

| carico totale in kg uniformemente distribuito acciaio con carico di sicurezza OK=16 kg/mm² | | | | | | | | | | | | |
|--|---|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| mm | Carichi massimi in kg riferiti a distanze dagli appoggi in metri | | | | | | | | | | | |
| | 2 | 2,5 | 3 | 3,5 | 4 | 4,5 | 5 | 6 | 7 | 8 | 9 | 10 |
| 100 A | 4368 | 3695 | 3064 | 2611 | 2269 | 2001 | 1785 | 1457 | 1218 | 1034 | | |
| 100 B | 5719 | 4557 | 3779 | 3220 | 2798 | 2469 | 2202 | 1798 | 1503 | 1277 | | |
| 100 M | 12076 | 9623 | 7981 | 6802 | 5913 | 5216 | 4655 | 3803 | 3182 | 2706 | | |
| 120 A | 6744 | 5377 | 4463 | 3807 | 3324 | 2926 | 2614 | 2142 | 1799 | 1537 | 1328 | |
| 120 B | 9163 | 7306 | 6064 | 5173 | 4501 | 4083 | 3553 | 2912 | 2446 | 2090 | 1808 | |
| 120 M | 18328 | 14615 | 12132 | 10350 | 9007 | 7957 | 7112 | 5831 | 4902 | 4191 | 3627 | |
| 140 A | 9881 | 7882 | 6546 | 5588 | 4866 | 4302 | 3848 | 3162 | 2664 | 2285 | 1984 | 1739 |
| 140 B | 13757 | 10974 | 9115 | 7781 | 6777 | 5992 | 5361 | 4406 | 3714 | 3186 | 2769 | 2428 |
| 140 M | 26178 | 20885 | 17346 | 14810 | 12899 | 11406 | 10206 | 8389 | 7073 | 6070 | 5276 | 4629 |
| 160 A | 14019 | 11188 | 9295 | 7939 | 6918 | 6121 | 5480 | 4510 | 3810 | 3277 | 2855 | 2512 |
| 160 B | 19819 | 15817 | 13141 | 11225 | 9782 | 8655 | 7749 | 6379 | 5389 | 4635 | 4039 | 3555 |
| 160 M | 36592 | 28804 | 23934 | 20444 | 17817 | 15756 | 14117 | 11624 | 9822 | 8451 | 7368 | 6487 |
| 180 A | 18745 | 14964 | 12438 | 10635 | 9266 | 8212 | 7295 | 6059 | 5128 | 4420 | 3862 | 3408 |
| 180 B | 27162 | 21683 | 18022 | 15387 | 13427 | 11887 | 10650 | 8781 | 7431 | 6406 | 5598 | 4941 |
| 180 M | 47694 | 38075 | 31648 | 27044 | 23580 | 20876 | 18704 | 15424 | 13055 | 11257 | 9838 | 8685 |
| 200 A | 24811 | 19811 | 16470 | 14077 | 12278 | 10874 | 9746 | 8044 | 6815 | 5884 | 5150 | 4554 |
| 200 B | 36357 | 29031 | 24136 | 20625 | 17995 | 15929 | 14286 | 11792 | 9994 | 8630 | 7555 | 6683 |
| 200 M | 61677 | 49252 | 40950 | 35004 | 30532 | 27042 | 24240 | 20011 | 16961 | 14648 | 12826 | 11348 |
| 220 A | 32859 | 26242 | 21822 | 18658 | 16278 | 14422 | 12932 | 10684 | 9064 | 7836 | 6870 | 6087 |
| 220 B | 46961 | 37504 | 31188 | 26666 | 23266 | 20613 | 18484 | 15272 | 12958 | 11204 | 9824 | 8706 |
| 220 M | 77846 | 62172 | 51702 | 44208 | 38572 | 34176 | 30647 | 25325 | 21490 | 18584 | 16298 | 14446 |
| 240 A | 43079 | 34409 | 28619 | 24475 | 21359 | 18928 | 16979 | 14038 | 11921 | 10318 | 9057 | 8037 |
| 240 B | 59866 | 47818 | 39772 | 34013 | 29683 | 26306 | 23630 | 19511 | 16570 | 14342 | 12591 | 11174 |
| 240 M | 114886 | 91768 | 76329 | 65279 | 56972 | 50494 | 45295 | 37458 | 31815 | 27544 | 24187 | 21470 |
| 260 A | 53578 | 42633 | 35465 | 30335 | 26479 | 23743 | 21061 | 17425 | 14809 | 12830 | 11276 | 10109 |
| 260 B | 73414 | 58648 | 48787 | 41732 | 36428 | 32293 | 28975 | 23975 | 20378 | 17656 | 15519 | 13790 |
| 260 M | 137896 | 110162 | 91644 | 78392 | 68432 | 60666 | 54436 | 45048 | 38293 | 33184 | 29172 | 25928 |
| 280 A | 64487 | 51521 | 42864 | 36670 | 32014 | 28385 | 25474 | 21088 | 17933 | 15549 | 13677 | 12164 |
| 280 B | 88114 | 70398 | 58571 | 50108 | 43748 | 38790 | 34813 | 28822 | 24513 | 21256 | 18700 | 16634 |
| 280 M | 162822 | 130088 | 108233 | 92596 | 80844 | 71683 | 64335 | 53266 | 45306 | 39288 | 34566 | 30750 |

TRAVI HE sollecitate a flessione

| carico totale in kg uniformemente distribuito acciaio con carico di sicurezza OK=16 kg/mm ² | | | | | | | | | | | | |
|---|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| mm | Carichi massimi in kg riferiti a distanze dagli appoggi in metri | | | | | | | | | | | |
| | 2 | 2,5 | 3 | 3,5 | 4 | 4,5 | 5 | 6 | 7 | 8 | 9 | 10 |
| 300 A | 80463 | 64291 | 53495 | 45771 | 39967 | 35443 | 31815 | 26350 | 22422 | 19454 | 17125 | 15245 |
| 300 B | 107286 | 85724 | 71329 | 61031 | 53292 | 47260 | 42423 | 35138 | 29901 | 25944 | 22840 | 20334 |
| 300 M | 222244 | 177581 | 147766 | 126436 | 110398 | 97917 | 87898 | 72805 | 61968 | 53776 | 47351 | 42164 |
| 320 A | 94525 | 75532 | 62854 | 53784 | 46969 | 41659 | 37400 | 30988 | 26380 | 22899 | 20170 | 17968 |
| 320 B | 123266 | 98498 | 81966 | 70138 | 61252 | 54326 | 48773 | 40411 | 34402 | 29864 | 26306 | 23434 |
| 320 M | 242860 | 193948 | 161398 | 138114 | 120620 | 106986 | 96055 | 79596 | 67771 | 58840 | 51839 | 46190 |
| 340 A | | | 71365 | 61073 | 53340 | 47314 | 42483 | 35210 | 29985 | 26040 | 22948 | 20454 |
| 340 B | | | 91758 | 78525 | 68584 | 60387 | 54586 | 45276 | 38559 | 33488 | 29514 | 26308 |
| 340 M | | | 172056 | 147246 | 128608 | 114084 | 102440 | 84912 | 72321 | 62816 | 55368 | 49360 |
| 360 A | | | 80304 | 68728 | 60032 | 53256 | 47824 | 39648 | 33770 | 29344 | 25872 | 23072 |
| 360 B | | | 101974 | 87275 | 76232 | 67628 | 60730 | 50348 | 42892 | 37264 | 32855 | 29300 |
| 360 M | | | 182716 | 156382 | 136600 | 121186 | 108830 | 90223 | 76879 | 66800 | 58906 | 52540 |
| 400 A | | | 98185 | 84043 | 73420 | 65144 | 58511 | 48530 | 41365 | 35960 | 31728 | 28318 |
| 400 B | | | 122415 | 104783 | 91540 | 81222 | 72953 | 60510 | 51578 | 44840 | 39565 | 35314 |
| 400 M | | | 204885 | 175378 | 153216 | 135950 | 122112 | 101291 | 86345 | 75072 | 66247 | 59136 |
| 450 A | | | | | 92240 | 81859 | 73540 | 61027 | 52049 | 45280 | 39984 | 35720 |
| 450 B | | | | | 112916 | 100208 | 90025 | 74707 | 63771 | 55432 | 48950 | 43730 |
| 450 M | | | | | 174949 | 155261 | 139485 | 115755 | 98730 | 85896 | 75855 | 67770 |
| 500 A | | | | | 112980 | 100280 | 90105 | 74803 | 63829 | 55560 | 49094 | 43890 |
| 500 B | | | | | 136532 | 121141 | 108889 | 90398 | 77137 | 67144 | 59330 | 53042 |
| 500 M | | | | | 196680 | 174572 | 156858 | 130220 | 111116 | 96720 | 85463 | 76404 |
| 600 A | | | | | 152568 | 135448 | 121734 | 101119 | 86343 | 75216 | 66522 | 59532 |
| 600 B | | | | | 181552 | 161179 | 144860 | 120328 | 102745 | 89504 | 79159 | 70840 |
| 600 M | | | | | 243980 | 216602 | 194671 | 161703 | 138074 | 120820 | 106577 | 95198 |

TRAVI IPE sollecitate a flessione

| carico totale in kg uniformemente distribuito acciaio con carico di sicurezza OK=16 kg/mm ² | | | | | | | | | | | | |
|---|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| mm | Carichi massimi in kg riferiti a distanze dagli appoggi in metri | | | | | | | | | | | |
| | 2 | 2,5 | 3 | 3,5 | 4 | 4,5 | 5 | 6 | 7 | 8 | 9 | 10 |
| 80 | 1268 | 1009 | 835 | 710 | 620 | 560 | 450 | 350 | | | | |
| 100 | 2173 | 1731 | 1435 | 1222 | 1062 | 936 | 835 | 750 | 670 | 580 | | |
| 120 | 3371 | 2688 | 2230 | 1902 | 1654 | 1461 | 1305 | 1068 | 896 | 750 | | |
| 140 | 4921 | 3925 | 3259 | 2782 | 2482 | 2141 | 1914 | 1572 | 1323 | 1134 | 983 | |
| 160 | 6944 | 5541 | 4603 | 3931 | 3425 | 3029 | 2711 | 2230 | 1882 | 1618 | 1408 | 1237 |
| 180 | 9306 | 7428 | 6173 | 5274 | 4597 | 4068 | 3644 | 3002 | 2538 | 2186 | 1907 | 1681 |
| 200 | 12371 | 9877 | 8210 | 7016 | 6118 | 5417 | 4854 | 4004 | 3391 | 2925 | 2557 | 2259 |
| 220 | | 12837 | 10673 | 9124 | 7959 | 7050 | 6320 | 5219 | 4425 | 3822 | 3348 | 2964 |
| 240 | | 16518 | 13732 | 11742 | 10265 | 9078 | 8141 | 6728 | 5710 | 4938 | 4332 | 3840 |
| 270 | | 21274 | 18196 | 15563 | 13584 | 12040 | 10802 | 8935 | 7592 | 6575 | 5776 | 5130 |
| 300 | | | 23630 | 20222 | 17555 | 15654 | 14048 | 11629 | 9890 | 8574 | 7542 | 6708 |
| 330 | | | 30214 | 25903 | 22620 | 20060 | 18007 | 14916 | 12694 | 11015 | 9698 | 8635 |
| 360 | | | | 32861 | 28700 | 25457 | 22857 | 18943 | 16130 | 14007 | 12343 | 11000 |
| 400 | | | | | 36855 | 32697 | 29364 | 24349 | 20747 | 18030 | 15901 | 14185 |
| 450 | | | | | | 42317 | 38012 | 31534 | 26885 | 23379 | 20635 | 18424 |
| 500 | | | | | | | 48954 | 40629 | 34656 | 30154 | 26632 | 23797 |
| 550 | | | | | | | | 51417 | 43875 | 38192 | 33748 | 30172 |
| 600 | | | | | | | | 64761 | 55283 | 48144 | 42564 | 38076 |

LAMIERE

| Spessore mm | Peso kg/m | Spessore mm | Peso kg/m | Spessore mm | Peso kg/m |
|-------------|-----------|-------------|-----------|-------------|-----------|
| 3/10 | 2,36 | 3,5 | 27,48 | 24 | 188,40 |
| 4/10 | 3,14 | 4,0 | 31,40 | 25 | 196,25 |
| 5/10 | 3,93 | 4,5 | 35,33 | 28 | 219,80 |
| 6/10 | 4,71 | 5,0 | 39,25 | 30 | 235,50 |
| 7/10 | 5,50 | 5,5 | 43,18 | 32 | 251,20 |
| 8/10 | 6,28 | 6,0 | 47,10 | 35 | 274,75 |
| 9/10 | 7,07 | 7,0 | 54,95 | 38 | 298,30 |
| 10/10 | 7,85 | 8,0 | 62,80 | 40 | 314,00 |
| 12/10 | 9,42 | 9,0 | 70,65 | 42 | 329,70 |
| 13/10 | 10,21 | 10,0 | 78,50 | 45 | 353,25 |
| 14/10 | 10,99 | 11,0 | 86,35 | 50 | 392,50 |
| 15/10 | 11,78 | 12,0 | 94,20 | 55 | 431,75 |
| 16/10 | 12,56 | 13,0 | 102,05 | 60 | 471,00 |
| 18/10 | 14,13 | 14,0 | 109,90 | 65 | 510,25 |
| 20/10 | 15,70 | 15,0 | 117,75 | 70 | 549,50 |
| 22/10 | 17,27 | 16,0 | 125,60 | 75 | 588,75 |
| 25/10 | 19,63 | 18,0 | 141,30 | 80 | 628,00 |
| 28/10 | 21,98 | 20,0 | 157,00 | 90 | 706,50 |
| 30/10 | 23,55 | 22,0 | 172,70 | 100 | 785,00 |

LAMIERE ZINCATE

| Calibro inglese N. | Spessore mm | Peso kg/m | Calibro inglese N. | Spessore mm | Peso kg/m |
|--------------------|-------------|-----------|--------------------|-------------|-----------|
| 10 | 3,00 | 23,95 | 22 | 0,80 | 6,66 |
| 12 | 2,50 | 20,05 | 24 | 0,60 | 5,11 |
| 14 | 2,00 | 16,10 | 26 | 0,50 | 4,30 |
| 17 | 1,50 | 12,15 | 28 | 0,40 | 3,52 |
| 18 | 1,25 | 9,90 | 29 | 0,35 | 3,13 |
| 20 | 1,00 | 8,25 | 30 | 0,30 | 2,73 |

LAMIERE STRIATE

| Spessore mm | 2 | 2,5 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 12 |
|---------------------------|------|------|------|------|------|------|------|------|------|------|
| Peso al m ² kg | 18,5 | 22,0 | 27,6 | 35,4 | 43,3 | 51,1 | 50,0 | 66,8 | 82,5 | 98,2 |

LAMIERE BUGNATE

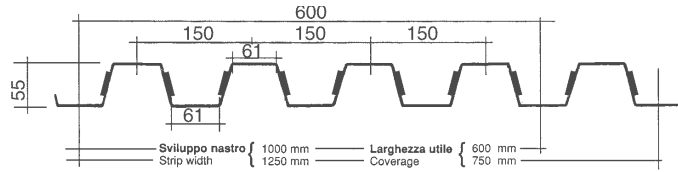
| Spessore fuori bugna | 1,5 | 2 | 2,5 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 |
|---------------------------|------|------|------|------|------|----|------|------|------|------|------|------|
| Peso al m ² kg | 14,0 | 18,5 | 22,3 | 26,5 | 34,3 | 42 | 49,9 | 57,8 | 65,6 | 73,4 | 81,3 | 97,0 |

PALETTI IN FERRO a "T" per recinzioni

| Dimensioni T | H. 133 | 160 | 182 | 208 | 235 | 250 | 270 | 300 |
|--------------|--------|------|------|------|------|-------|-------|-------|
| 30 x30 x4 | 1,00 | 1,25 | 1,50 | 1,76 | 2,00 | 2,25 | 2,50 | |
| 30 x30 x5 | 2,92 | 3,52 | 4,00 | | | | | |
| 35 x35 x5,2 | 1,66 | 2,08 | 2,50 | 2,90 | 4,30 | 4,84 | 5,38 | |
| 35 x35 x5,5 | | | | 6,10 | 6,88 | 7,47 | | |
| 40 x40 x5 | | | | 6,20 | 7,22 | 7,75 | 8,37 | 9,30 |
| 50 x50 x6 | | | | | | 11,20 | 12,15 | 13,50 |

LAMIERE GRECATE COLLABORANTI

EGB 210/C H55

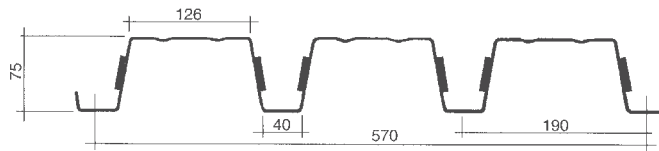


| Spessore | 0,6 | 0,7 | 0,8 | 1,0 | 1,2 |
|---------------------------|------|------|-------|-------|-------|
| Peso Kg/m | 7,85 | 9,16 | 10,47 | 13,08 | 15,07 |
| Peso kg/m ¹⁰⁰⁰ | 4,71 | 5,49 | 6,28 | 7,85 | 9,42 |
| Peso kg/m ¹²⁵⁰ | 5,88 | 6,86 | 7,85 | 9,81 | 11,77 |

| H soletta | Spessore | ▲▲ condizioni di appoggio | | | | | | ▲▲▲▲ condizioni di appoggio | | | | | |
|---|----------|--|------|------|------|------|------|-----------------------------|------|------|------|------|------|
| | | Sovraccarico di esercizio utile uniformemente distribuito kg/m | | | | | | | | | | | |
| cm | mm | 200 | 300 | 400 | 500 | 600 | 800 | 200 | 300 | 400 | 500 | 600 | 800 |
| Luce massima tra gli appoggi in metri per solai | | | | | | | | | | | | | |
| 10 | 0,7 | 3,01 | 2,82 | 2,66 | 2,53 | 2,41 | 2,22 | 3,46 | 3,18 | 2,96 | 2,78 | 2,62 | 2,38 |
| | 0,8 | 3,22 | 3,02 | 2,84 | 2,70 | 2,57 | 2,37 | 3,69 | 3,39 | 3,15 | 2,96 | 2,80 | 2,54 |
| | 1,0 | 3,60 | 3,39 | 3,17 | 3,01 | 2,87 | 2,63 | 4,12 | 3,78 | 3,51 | 3,29 | 3,11 | 2,82 |
| | 1,2 | 3,95 | 3,70 | 3,48 | 3,30 | 3,15 | 2,83 | 4,53 | 4,15 | 3,86 | 3,62 | 3,42 | 3,83 |

LAMIERE GRECATE COLLABORANTI

EGB 1200/C H75



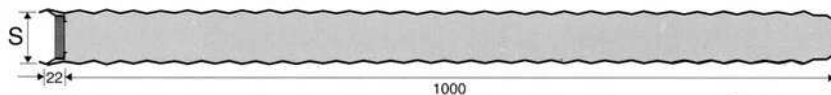
| Spessore mm | 0,7 | 0,8 | 1,0 | 1,2 | 1,5 |
|-------------|------|-------|-------|-------|-------|
| Peso Kg/m | 9,64 | 11,02 | 13,77 | 16,53 | 20,66 |
| Peso kg/m | 5,49 | 6,28 | 7,85 | 9,42 | 11,77 |

| H soletta | Spessore | ▲▲ condizioni di appoggio | | | | | | ▲▲▲▲ condizioni di appoggio | | | | | |
|---|----------|--|------|------|------|------|------|-----------------------------|------|------|------|------|------|
| | | Sovraccarico di esercizio utile uniformemente distribuito kg/m | | | | | | | | | | | |
| cm | mm | 200 | 300 | 400 | 500 | 600 | 800 | 200 | 300 | 400 | 500 | 600 | 800 |
| Luce massima tra gli appoggi in metri per solai | | | | | | | | | | | | | |
| 12 | 0,7 | 3,12 | 2,90 | 2,72 | 2,56 | 2,44 | 2,23 | 3,55 | 3,23 | 2,98 | 2,79 | 2,62 | 2,37 |
| | 0,8 | 3,35 | 3,10 | 2,90 | 2,74 | 2,60 | 2,37 | 3,80 | 3,45 | 3,18 | 2,97 | 2,79 | 2,52 |
| | 1,0 | 3,76 | 3,47 | 3,24 | 3,06 | 2,90 | 2,64 | 4,25 | 3,85 | 3,55 | 3,31 | 3,11 | 2,80 |
| | 1,2 | 4,13 | 3,81 | 3,55 | 3,34 | 3,16 | 2,88 | 4,66 | 4,21 | 3,87 | 3,60 | 3,38 | 3,04 |

PANNELLI ISOLANTI PER PARETE

PARETE special

GF-TP1



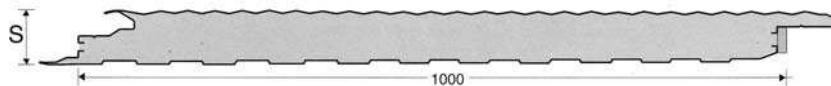
Carichi uniformemente distribuiti ammissibili in kg/mq (rapporto di conversione 1kg/mq = 0,00981 KN/mq.)

| Spessore isolante mm | ▲▲ condizioni di appoggio | | | | ▲▲▲▲ condizioni di appoggio | | | |
|-------------------------|-----------------------------------|-----|-----|-----|--------------------------------|-----|-----|-----|
| | Distanza fra gli appoggi in metri | | | | | | | |
| | 200 | 250 | 300 | 400 | 200 | 250 | 300 | 400 |
| 25 | 77 | 48 | | | 125 | 84 | 56 | |
| 30 | 110 | 68 | 44 | | 192 | 120 | 79 | |
| 40 | 166 | 105 | 70 | | 282 | 184 | 125 | 64 |
| 50 | 220 | 145 | 99 | 51 | 370 | 249 | 173 | 92 |
| 60 | 272 | 183 | 128 | 68 | 453 | 311 | 222 | 121 |

| Spessore pannello mm. | COEFFICIENTE DI TRASMISSIONE TERMICA - K - | | Peso pannelli con supporti in acciaio 0,45 mm mq ² |
|--------------------------|--|--------------------------|---|
| | Kcal m ² h ^o c | Watt m ² K | |
| 25 | 0,62 | 0,71 | 8,60 |
| 30 | 0,55 | 0,63 | 8,80 |
| 35 | 0,48 | 0,55 | 9,00 |
| 40 | 0,43 | 0,50 | 9,20 |
| 50 | 0,35 | 0,40 | 9,60 |
| 60 | 0,29 | 0,33 | 10,00 |

PARETE fissaggio nascosto

GF-TP2



Carichi uniformemente distribuiti ammissibili in kg/mq (rapporto di conversione 1kg/mq = 0,00981 KN/mq.)

| Spessore isolante mm | ▲▲ condizioni di appoggio | | | | ▲▲▲▲ condizioni di appoggio | | | |
|-------------------------|-----------------------------------|-----|-----|-----|--------------------------------|-----|-----|-----|
| | Distanza fra gli appoggi in metri | | | | | | | |
| | 200 | 250 | 300 | 400 | 200 | 250 | 300 | 400 |
| 40 | 166 | 105 | 70 | | 282 | 184 | 125 | 64 |
| 50 | 220 | 145 | 99 | 51 | 370 | 249 | 173 | 92 |
| 60 | 272 | 183 | 128 | 68 | 453 | 311 | 222 | 121 |
| 80 | 361 | 253 | 184 | 103 | | 422 | 311 | 180 |
| 100 | 423 | 306 | 229 | 136 | | 422 | 381 | 232 |

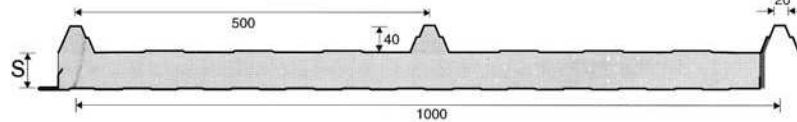
| Spessore pannello mm. | COEFFICIENTE DI TRASMISSIONE TERMICA - K - | | Peso pannelli con supporti in acciaio 0,45 mm mq ² |
|--------------------------|--|--------------------------|---|
| | Kcal m ² h ^o c | Watt m ² K | |
| 40 | 0,43 | 0,50 | 9,20 |
| 50 | 0,35 | 0,40 | 9,60 |
| 60 | 0,29 | 0,33 | 10,00 |
| 80 | 0,22 | 0,25 | 10,80 |
| 100 | 0,18 | 0,20 | 11,60 |

Le tabelle di portata sono sempre sviluppate per pannelli con supporti in acciaio spessore mm.0,45, imponendo la limitazione di deformazione: frecci 1 = 1/200 l.

PANNELLI ISOLANTI PER COPERTURA

COPERTURA 3 GRECHE

GF-TC3G



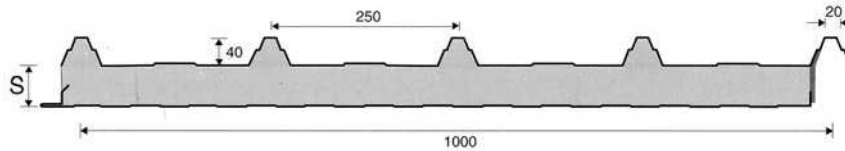
Carichi uniformemente distribuiti ammissibili in kg/mq (rapporto di conversione 1kg/mq = 0,00981 KN/mq.)

| Spessore isolante mm | ▲▲ condizioni di appoggio | | | | | ▲▲▲▲ condizioni di appoggio | | | | |
|-------------------------|-----------------------------------|-----|-----|-----|-----|--------------------------------|-----|-----|-----|-----|
| | Distanza fra gli appoggi in metri | | | | | | | | | |
| | 200 | 250 | 300 | 350 | 400 | 200 | 250 | 300 | 350 | 400 |
| 30 | 155 | 100 | 68 | | | 262 | 174 | 120 | 85 | 62 |
| 40 | 200 | 131 | 90 | 63 | | 337 | 226 | 157 | 113 | 83 |
| 50 | 261 | 178 | 125 | 90 | 67 | 434 | 301 | 215 | 158 | 119 |
| 60 | 311 | 215 | 154 | 113 | 85 | 512 | 361 | 263 | 196 | 150 |
| 80 | 394 | 282 | 208 | 157 | 121 | 641 | 466 | 350 | 268 | 209 |
| 100 | 451 | 331 | 251 | 194 | 153 | | 540 | 415 | 325 | 259 |

| Spessore pannello mm. | COEFFICIENTE DI TRASMISSIONE TERMICA - K - | | Peso pannelli con supporti in acciaio 0,45 mm kg/m ² |
|--------------------------|--|--------------------------|---|
| | Kcal m ² h ⁰ c | Watt m ² K | |
| 30 | 0,51 | 0,59 | 9,20 |
| 40 | 0,40 | 0,46 | 9,60 |
| 50 | 0,33 | 0,38 | 10,00 |
| 60 | 0,28 | 0,32 | 10,40 |
| 80 | 0,22 | 0,25 | 11,20 |
| 100 | 0,18 | 0,20 | 12,00 |

COPERTURA 5 GRECHE

GF-TC5G

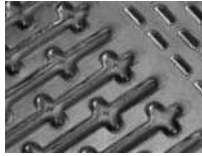


Carichi uniformemente distribuiti ammissibili in kg/mq (rapporto di conversione 1kg/mq = 0,00981 KN/mq.)

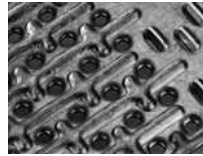
| Spessore isolante mm | ▲▲ condizioni di appoggio | | | | | ▲▲▲▲ condizioni di appoggio | | | | |
|-------------------------|-----------------------------------|-----|-----|-----|-----|--------------------------------|-----|-----|-----|-----|
| | Distanza fra gli appoggi in metri | | | | | | | | | |
| | 200 | 250 | 300 | 350 | 400 | 200 | 250 | 300 | 350 | 400 |
| 30 | 184 | 122 | 84 | 60 | | 309 | 209 | 147 | 106 | 79 |
| 40 | 238 | 161 | 113 | 82 | 60 | 395 | 273 | 195 | 143 | 107 |
| 50 | 290 | 200 | 142 | 104 | 78 | 477 | 336 | 244 | 181 | 138 |
| 60 | 338 | 237 | 172 | 127 | 97 | 553 | 395 | 291 | 219 | 168 |
| 80 | 418 | 302 | 225 | 171 | 133 | 677 | 496 | 375 | 290 | 228 |
| 100 | 471 | 348 | 265 | 207 | 164 | | 566 | 437 | 345 | 276 |

| Spessore pannello mm. | COEFFICIENTE DI TRASMISSIONE TERMICA - K - | | Peso pannelli con supporti in acciaio 0,45 mm. kg/m ² |
|--------------------------|--|--------------------------|--|
| | Kcal m ² h ⁰ c | Watt m ² K | |
| 30 | 0,47 | 0,54 | 9,65 |
| 40 | 0,38 | 0,44 | 10,05 |
| 50 | 0,31 | 0,36 | 10,45 |
| 60 | 0,27 | 0,31 | 10,85 |
| 80 | 0,21 | 0,24 | 11,65 |
| 100 | 0,17 | 0,19 | 12,45 |

PANNELLI E GRADINI IN LAMIERA STAMPATA



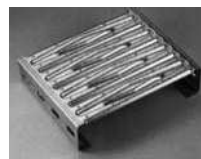
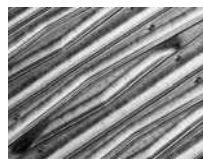
| GRADINO | | |
|-----------|----------|------------|
| Tipologia | Spessore | Peso Kg/mt |
| ZBC 200 | 20/10 | 5,5 |
| ZBC 250 | 20/10 | 6,30 |



| GRADINO | | |
|-----------|----------|------------|
| Tipologia | Spessore | Peso Kg/mt |
| ZB2 300 | 20/10 | 7,10 |



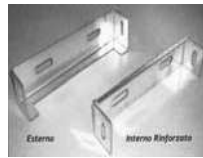
| GRADINO | | |
|-----------|----------|------------|
| Tipologia | Spessore | Peso Kg/mt |
| GF 250 | 20/10 | 6,30 |
| GF 300 | 20/10 | 7,10 |



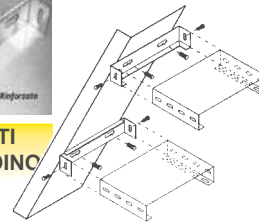
| PROFILATO CARRELLABILE | | |
|------------------------|----------|------------|
| Tipologia | Spessore | Peso Kg/mt |
| RSC 200 | 15/10 | 4,2 |
| | 20/10 | 5,5 |
| RSC 250 | 15/10 | 4,75 |
| | 20/10 | 6,30 |



| PAVIMENTAZIONI | | |
|----------------|----------|------------|
| Tipologia | Spessore | Peso Kg/mt |
| GE 250 | 15/10 | 4,75 |
| | 20/10 | 6,30 |
| GE 300 | 15/10 | 5,30 |
| | 20/10 | 7,10 |



SUPPORTI PER GRADINO

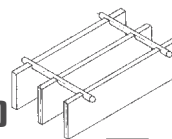


Profili forati antiscivolo, particolarmente adatti per pavimentazioni, passerelle e scale di sicurezza, conformi alle vigenti normative **DECRETO DEL MINISTERO DEI LAVORI PUBBLICI DEL 16/01/1996**. Forniti in barre commerciali da ml. 6 o tagliati a misura in multipli di mm.50. Finitura dell'acciaio: zincato a caldo/send-zimir o decapato. Particolari tecnici - altre tipologie su richiesta del cliente.



GRIGLIATI ELETROSALDATI

Portata per carichi uniformemente distribuiti (kg/mq)



| maglia | piatto | peso kg/mq | distanza netta tra gli appoggi (mm) | | | | | | | | |
|--------|--------|---------------|-------------------------------------|-------|-------|-------|-------|-------|-------|------|------|
| | | | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1600 |
| 15x76 | 20x2 | 22,6 | 6500 | 3500 | 2900 | 2500 | 2000 | 1500 | | | |
| | 25x2 | 28,1 | 19000 | 10500 | 6700 | 4700 | 3300 | 2200 | 1150 | 650 | |
| | 30x2 | 33,4 | 27000 | 15000 | 10000 | 7000 | 5000 | 3800 | 2000 | 1200 | 500 |
| | 40x2 | 44,0 | 47000 | 27000 | 17000 | 12000 | 10000 | 7000 | 4500 | 2600 | 1100 |
| 22x76 | 25x2 | 19,8 | 12700 | 7200 | 4600 | 3200 | 2300 | 1500 | 800 | | |
| | 30x2 | 23,5 | 18300 | 10300 | 6600 | 4600 | 3400 | 2600 | 1350 | 750 | |
| | 25x3 | 28,9 | 20000 | 11000 | 7000 | 4900 | 3400 | 2300 | 1200 | 700 | |
| | 30x3 | 34,4 | 28000 | 16000 | 10000 | 7000 | 5100 | 4000 | 2000 | 1150 | 500 |
| | 40x3 | 45,3 | 50000 | 28000 | 18000 | 12500 | 9000 | 7000 | 4500 | 2800 | 1200 |
| 25x76 | 20x2 | 14,5 | 6000 | 3300 | 2200 | 1500 | 1000 | 700 | | | |
| | 25x2 | 17,7 | 11300 | 6450 | 4150 | 2800 | 1900 | 1350 | 700 | | |
| | 30x2 | 21,0 | 16300 | 9400 | 6000 | 4000 | 2800 | 2150 | 1200 | 680 | |
| | 25x3 | 25,8 | 17100 | 9500 | 6000 | 4000 | 2800 | 1900 | 1000 | 620 | |
| | 30x3 | 30,6 | 24400 | 14000 | 9000 | 6100 | 4200 | 3200 | 1800 | 1000 | |
| | 40x3 | 40,3 | 44000 | 25000 | 16000 | 11000 | 8000 | 6300 | 3700 | 2400 | 1000 |
| | 40x4 | 53,1 | 58000 | 33000 | 21000 | 14000 | 10000 | 8400 | 4900 | 3200 | 1300 |
| | 50x4 | 65,9 | 90000 | 51000 | 33000 | 22000 | 16000 | 13000 | 8000 | 5400 | 2800 |
| | 60x4 | 78,8 | 145000 | 81000 | 52000 | 36000 | 26000 | 20000 | 13000 | 9000 | 5000 |
| 70x4 | 91,7 | 174000 | 98000 | 62000 | 43000 | 32000 | 24000 | 16000 | 11000 | 6200 | |
| 34x76 | 25x2 | 13,5 | 8300 | 4700 | 3000 | 2100 | 1500 | 1000 | 500 | | |
| | 30x2 | 15,9 | 12000 | 6800 | 4300 | 3100 | 2300 | 1700 | 900 | 500 | |
| | 25x3 | 19,4 | 12500 | 7000 | 4500 | 3200 | 2200 | 1450 | 750 | | |
| | 30x3 | 23,0 | 18000 | 10000 | 6500 | 4600 | 3400 | 2500 | 1300 | 750 | |
| | 40x3 | 30,1 | 32000 | 18000 | 11500 | 8200 | 6000 | 4500 | 2900 | 1800 | 550 |

Carico di sicurezza 16 (kg/mm²). Freccia elastica minore di 1:250 della luce netta di appoggio.

Portata per carichi concentrati su impronta (kg)

| maglia | piatto | peso kg/mq | distanza netta tra gli appoggi (mm) | | | | | | | | |
|--------|--------|---------------|-------------------------------------|------|------|------|------|------|------|------|------|
| | | | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1600 |
| 15x76 | 20x2 | 22,6 | 580 | 400 | 290 | 220 | 190 | 160 | | | |
| | 25x2 | 28,1 | 1350 | 900 | 700 | 550 | 480 | 400 | 240 | 170 | |
| | 30x2 | 33,4 | 1850 | 1250 | 950 | 750 | 650 | 550 | 400 | 300 | 150 |
| | 40x2 | 44,0 | 2900 | 1950 | 1500 | 1200 | 1000 | 850 | 680 | 550 | 320 |
| 22x76 | 25x2 | 19,8 | 1050 | 730 | 550 | 440 | 370 | 300 | 200 | | |
| | 30x2 | 23,5 | 1450 | 980 | 750 | 600 | 500 | 430 | 320 | 220 | |
| | 25x3 | 28,9 | 1400 | 950 | 720 | 580 | 490 | 400 | 250 | 180 | |
| | 30x3 | 34,4 | 1950 | 1440 | 1000 | 800 | 680 | 580 | 410 | 290 | 160 |
| | 40x3 | 45,3 | 3250 | 2200 | 1670 | 1350 | 1130 | 980 | 750 | 620 | 360 |
| 25x76 | 20x2 | 11,5 | 390 | 270 | 200 | 150 | 120 | | | | |
| | 25x2 | 17,7 | 900 | 650 | 480 | 380 | 320 | 260 | 180 | | |
| | 30x2 | 21,0 | 1300 | 880 | 670 | 500 | 440 | 380 | 250 | 170 | |
| | 25x3 | 25,8 | 1250 | 850 | 640 | 480 | 430 | 350 | 220 | 150 | |
| | 30x3 | 30,6 | 1750 | 1400 | 910 | 710 | 580 | 490 | 360 | 270 | |
| | 40x3 | 40,3 | 2900 | 2000 | 1600 | 1300 | 1050 | 860 | 650 | 550 | 320 |
| | 40x4 | 53,1 | 3850 | 2650 | 2100 | 1750 | 1400 | 1150 | 850 | 650 | 400 |
| | 50x4 | 65,9 | 5500 | 4000 | 3050 | 2250 | 1950 | 1650 | 1200 | 1100 | 650 |
| 60x4 | 78,8 | 8800 | 6000 | 4500 | 3600 | 3050 | 2650 | 2000 | 1600 | 1200 | |
| 70x4 | 91,7 | 10500 | 7100 | 5400 | 4300 | 3600 | 3100 | 2400 | 2000 | 1500 | |
| 34x76 | 25x2 | 13,5 | 820 | 570 | 430 | 350 | 290 | 240 | 150 | | |
| | 30x2 | 15,9 | 1100 | 750 | 570 | 450 | 380 | 330 | 240 | 150 | |
| | 25x3 | 19,4 | 1050 | 740 | 550 | 440 | 360 | 300 | 190 | | |
| | 30x3 | 23,0 | 1500 | 1000 | 750 | 600 | 500 | 430 | 320 | 220 | |
| | 40x3 | 30,1 | 2400 | 1600 | 1220 | 980 | 820 | 700 | 540 | 450 | 270 |

Tipo di carico concentrato su impronta:

- pedonale kg 150
- autovettura kg 400
- autocarro kg 1500

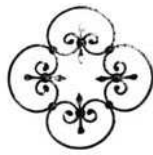
Carico di sicurezza 16 (kg/mm²)

Freccia elastica minore di 1:250 della luce netta di appoggio.

Impronta 250x250 (mm).

Senso di marcia parallelo ai piatti portanti.

FERRO BATTUTO



ROSONI
art. 24/2



LANCE
art. 124/1
art. 124/2



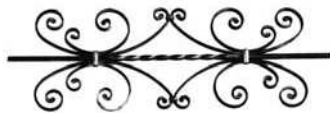
BORCHIE IN FERRO
art. 128/6 art. 128/17 art.128/1
art. 128/7 art. 128/18
art. 128/8



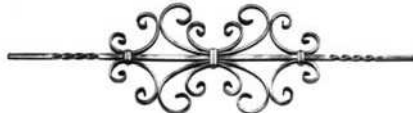
PALETTI CON PIGNE

2 pigne art. 48/3

1 pigna art. 48/4

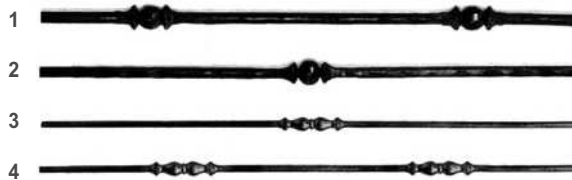


art. 51/3



art. 52/F/1

PANNELLI PER SCALE E RINGHIERE



PALETTI FORGIATI A MANO

1 - art. 105/1

2 - art. 105/2

3 - art. 497/1

4 - art. 497/2



PARTENZE PER CORRIMANO
art. 114/B/13



art. 114/B/3



CORRIMANO
HOT ROLLED
art. 810/A/12
art. 810/A/14
HALF ROUNDS
art. 810/1
art. 810/5
art. 810/6

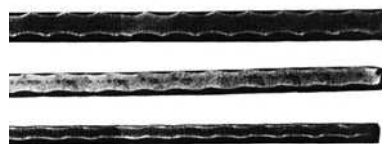
FERRO BATTUTO



BARRE FORATE

A - art. 42/1
- art. 42/2
- art. 42/3
- art. 42/4

B - art. 42/8



BARRE MARTELLATE

art. 599/3
art. 599/4
art. 599/5

QUADRI E PIATTI SPIGOLATI

art. 118/1
art. 118/2
art. 118/3
art. 118/6

**PRODOTTI LAMINATI A CALDO DI ACCIAI NON LEGATI
PER IMPIEGHI STRUTTURALI UNI EN 10025:95**

| Designazione | | | Precedenti designazioni equivalenti | | | | | Italia |
|-----------------------------------|--------------------|---------------------|-------------------------------------|---------|-------------|------------|-------------|--------|
| Secondo EN 10027-1 ECISS IC 10 | Secondo EN 10027-2 | Secondo EN 10025:90 | Germania | Francia | Regno Unito | Spagna | UNI 7070-82 | |
| S185 | 1.0035 | Fe 310-0 | St 33 | A 33 | | A 310-0 | Fe 320 | |
| S235JR | 1.0037 | Fe 360 B | St 37-2 | E 24-2 | | | Fe 360B | |
| S235JRG1 | 1.0036 | Fe 360 BFU | UST37-2 | | | AE 235B-FU | | |
| S235JRG2 | 1.0038 | Fe 360 BFN | RSt37-2 | | 40 B | AE 235B-FN | | |
| S235JO | 1.0114 | Fe 360 C | St 37-3 U | E 24-3 | 40 C | AE 235 C | Fe 360 C | |
| S235J2G3 | 1.0116 | Fe 360 D1 | St 37-3 N | E 24-4 | 40 D | AE 235 D | Fe 360 D | |
| S235J2G4 | 1.0117 | Fe 360 D2 | | | | | | |
| S275JR | 1.0044 | Fe 430 B | St 44-2 | E 28-2 | 43 B | AE 275 B | Fe 430 B | |
| S275JO | 1.0143 | Fe 430 C | St 44-3 U | E 28-3 | 43 C | AE 275 C | Fe 430 C | |
| S275J2G3 | 1.0144 | Fe 430 D1 | St 44-3 N | E 28-4 | 43 D | AE 275 D | Fe 430 D | |
| S275J2G4 | 1.0145 | Fe 430 D2 | | | | | | |
| S355JR | 1.0045 | Fe 510 B | | E 36-2 | 50 B | AE 355 B | Fe 510 B | |
| S355JO | 1.0553 | Fe 510 C | St 52-3 U | E 36-3 | 50 C | AE 355 C | Fe 510 C | |
| S355J2G3 | 1.0570 | Fe 510 D1 | St 52-3 N | | 50 D | AE 355 D | Fe 510 D | |
| S355J2G4 | 1.0577 | Fe 510 D2 | | | | | | |
| S355K2G3 | 1.0595 | Fe 510 DD1 | | E 36-4 | 50 DD | | | |
| S355K2G4 | 1.0596 | Fe 510 DD2 | | | | | | |
| E295 | 1.0050 | Fe 490-2 | St 50-2 | A 50-2 | | A 490 | Fe 490 | |
| E335 | 1.0060 | Fe 590-2 | St 60-2 | A 60-2 | | A 590 | Fe 590 | |
| E360 | 1.0070 | Fe 690-2 | St 70-2 | A 70-2 | | A 690 | Fe 690 | |

**PRODOTTI LAMINATI A CALDO DI ACCIAI NON LEGATI
PER IMPIEGHI STRUTTURALI UNI EN 10025:95**

CARATTERISTICHE MECCANICHE E COMPOSIZIONE CHIMICA SUL PRODOTTO DELLE QUALITÀ PIÙ RICHIESTE

| Norma vigente EN 10027-1 | Limite elastico minimo | | | | | Resistenza a trazione | | Allungamento minimo | | C max % | Si max % | Mn max % | P max % | S max % | N max % | Temp. di prova |
|-----------------------------|------------------------|------------|------------|------------|------------|-----------------------|-----------|---------------------|------|---------|----------|----------|---------|---------|---------|----------------|
| | Reh N. m/m | Reh N. m/m | Reh N. m/m | Reh N. m/m | Reh N. m/m | Rm N. m/m | Rm N. m/m | % | % | | | | | | | |
| ECISS IC 10 | Spessore m/m | | | | | | | | | | | | | | | |
| S235JR | | | | | | | | 0,21 | 0,25 | | | | | | | |
| S235JO | | | | | | | | 0,19 | 0,19 | 0,18 | 1,50 | 0,055 | 0,055 | 0,011 | +20 | |
| S275JR | 275 | 265 | 255 | 245 | 235 | | | 0,24 | 0,24 | 0,25 | 1,60 | 0,055 | 0,055 | 0,011 | +20 | |
| S275JO | | | | | | | | 0,21 | 0,21 | 0,21 | 1,60 | 0,050 | 0,050 | 0,011 | 0 | |
| S355JR | 355 | 345 | 335 | 325 | 315 | | | 0,27 | 0,27 | 0,27 | 1,70 | 0,055 | 0,055 | 0,011 | +20 | |
| S355JO | | | | | | | | 0,23 | 0,23 | 0,24 | 1,70 | 0,050 | 0,050 | 0,011 | 0 | |
| S355J2G3 | | | | | | | | | | | | | | | | |
| S355J2G4 | | | | | | | | | | | | | | | | |
| S355K2G3 | | | | | | | | | | | | | | | | |
| S355K2G4 | | | | | | | | | | | | | | | | |

**LAMIERE E NASTRI ZINCATI A CALDO DI ACCIAIO A BASSO
TENORE DI CARBONIO PER FORMATURA A FREDDO**

CARATTERISTICHE MECCANICHE E COMPOSIZIONE CHIMICA

| Norma vigente UNI EN 10142:00 | Designazione precedente EN 10142:90 | Limite elastico minimo Reh N. m/m | Resistenza a trazione Rm N. m/m | Allungamento minimo % |
|----------------------------------|--|--------------------------------------|------------------------------------|-----------------------|
| Dx51D + Z | Fe P02 GZ | 140 - 300 | 270 - 500 | 22 |
| Dx52D + Z | Fe P03 GZ | 140 - 260 | 270 - 420 | 26 |
| Dx53D + Z | Fe P05 GZ | 140 - 220 | 270 - 380 | 30 |
| Dx54D + Z | Fe P06 GZ | 140 - 220 | 270 - 350 | 36 |

PRODOTTI PIANI LAMINATI A FREDDO DI ACCIAIO A BASSO TENORE DI CARBONIO PER IMBUTTURA O PIEGAMENTO A FREDDO

CARATTERISTICHE MECCANICHE E COMPOSIZIONE CHIMICA DELLE QUALITÀ DI ACCIAIO PIÙ RICHIESTE

| Norma vigente UNI EN 10130:00 | Designazione precedente EN 10130:91 | Limite elastico | Resistenza a trazione | Allungamento | | C max | Si max | Mn max | P max | S max | Ti max |
|-------------------------------------|---|-----------------------------------|------------------------|--------------|-------|-------|--------|--------|-------|-------|--------|
| | | minimo Reh N. m/m ² | Rm N. m/m ² | minimo % | max % | | | | | | |
| Spessore m/m 0,35 + 3 | | | | | | | | | | | |
| DC 01 | Fe P01 | 280 | 270 - 410 | 28 | 0,12 | | 0,60 | 0,04 | 0,04 | | |
| DC 03 | Fe P03 | 240 | 270 - 370 | 34 | 0,10 | | 0,45 | 0,04 | 0,04 | | |
| DC 04 | Fe P04 | 210 | 270 - 350 | 38 | 0,08 | | 0,40 | 0,03 | 0,03 | | |
| DC 05 | Fe P05 | 180 | 270 - 330 | 40 | 0,06 | | 0,35 | 0,03 | 0,03 | | |
| DC 06 | Fe P06 | 180 | 270 - 350 | 38 | 0,02 | | 0,25 | 0,02 | 0,02 | 0,30 | |

LAMIERE E NASTRI LAMINATI A CALDO IN CONTINUO A BASSO TENORE DI CARBONIO PER FORMATURA A FREDDO

CARATTERISTICHE MECCANICHE E COMPOSIZIONE CHIMICA

| Norma vigente UNI EN 10111:00 | Designazione precedente UNI 5867:78 | Limite elastico | Resistenza a trazione | Allungamento | C max | Si max | Mn max | P max | S max | Ti max |
|-------------------------------------|---|--------------------------------------|-------------------------------------|--------------|-------|--------|--------|-------|-------|--------|
| | | min - max Reh N. m/m ² | min - max Rm N. m/m ² | % | | | | | | |
| Spessore max m/m 2 | | | | | | | | | | |
| DD 11 | Fe P11 | 170 - 360 | 440 | 23 | 0,12 | | 0,60 | 0,04 | 0,04 | |
| DD 12 | Fe P12 | 170 - 360 | 420 | 25 | 0,10 | | 0,45 | 0,04 | 0,04 | |
| DD 13 | Fe P13 | 275 | 430 - 560 | 24 | 0,08 | | 0,40 | 0,03 | 0,03 | |
| DD 14 | Fe P14 | 170 - 310 | 380 | 31 | 0,08 | | 0,35 | 0,03 | 0,03 | |

PROFILATI CAVI FORMATI A FREDDO DI ACCIAI NON LEGATI E A GRANO FINE PER STRUTTURE SALDATE

CARATTERISTICHE MECCANICHE E COMPOSIZIONE CHIMICA DELLE QUALITÀ DI ACCIAIO PIÙ RICHIESTE

| Norma vigente UNI EN 10219-1:99 | Limite elastico | Resistenza a trazione | Allungamento | C max | Si max | Mn max | P max | S max | N max | Temp. di prova °C |
|---------------------------------------|-----------------------------------|-------------------------------------|--------------|-------|--------|--------|-------|-------|-------|-------------------|
| | minimo Reh N. m/m ² | min - max Rm N. m/m ² | minimo % | | | | | | | |
| Spessore max m/m 16 | | | | | | | | | | |
| S235JRH | 235 | 360 - 510 | 24 | 0,17 | | 1,40 | 0,04 | 0,04 | 0,01 | 20 |
| S275JOH | 275 | 430 - 580 | 20 | 0,20 | | 1,50 | 0,04 | 0,04 | 0,01 | 0 |
| S275J2H | 275 | 430 - 580 | 20 | 0,20 | | 1,50 | 0,04 | 0,04 | | -20 |
| S355JOH | 355 | 510 - 680 | 20 | 0,22 | 0,55 | 1,60 | 0,04 | 0,04 | 0,01 | 0 |
| S355J2H | 355 | 510 - 680 | 20 | 0,22 | 0,55 | 1,60 | 0,04 | 0,04 | | -20 |