

**ALTERINI A.**  
**METALFERRO**  
SAN ZENO (AR) **INOX**



**Strada A, 43 Zona Ind.le San Zeno  
52100 - Arezzo (AR)**

**Telefono: 0575 959174 Fax: 0575 959184**

**www.alterini.it - E-mail: info@alterini.it**

**TUBI ACCIAIO DI GROSSO SPESSORE laminati a caldo**


| Diametro<br>esterno<br>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          | 2,00        | 0,40             | 0,40          |
| 1/4     | 13,5            | 1,80          | 0,52             | 0,53          | 2,00        | 0,57             | 0,58          |
| 3/8     | 17,2            | 2,00          | 0,75             | 0,75          | 2,30        | 0,85             | 0,85          |
| 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           | 4,00          | 10,80            | 11,10         | 4,50        | 12,20            | 12,50         |
| 5       | 139,7           | 4,50          | 14,90            | 15,40         | 4,85        | 16,20            | 16,70         |
| 6       | 165,1           | 4,50          | 17,80            | 18,30         | 4,85        | 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 ELETTROSALDATI 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 | 4,24  | 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 | 5,41  | 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 ELETTRISALDATI 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 ELETTRISALDATI 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           | 4,24       |
| 1/2"    | 21,25            | 2,20        | 1,03       | 2 1/2"  | 76,10            | 3           | 5,41       |
| 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 ELETTRISALDATI QUADRI



| Lati<br>esterni<br>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 ELETTRISALDATI RETTANGOLARI**


| Lati<br>esterni<br>mm. | Spessore mm. |      |      |      |              |      |       |       |    |    |  |
|------------------------|--------------|------|------|------|--------------|------|-------|-------|----|----|--|
|                        | 1,5          | 2    | 2,5  | 3    | 4            | 5    | 6     | 7     | 8  | 10 |  |
|                        | Peso - Kg/ml |      |      |      |              |      |       |       |    |    |  |
| 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 |    |    |  |



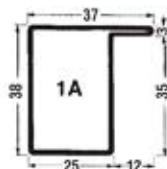
# TUBI ACCIAIO ELETTRISALDATI RETTANGOLARI



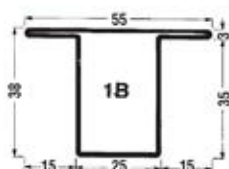
| Lati<br>esterni<br>mm. | Spessore mm. |      |       |       |       |       |       |       |       |       |
|------------------------|--------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
|                        | 1,5          | 2    | 3     | 4     | 5     | 6     | 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 |



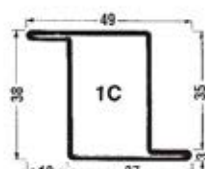
# TUBOLARI PER SERRAMENTI spessore 15/10



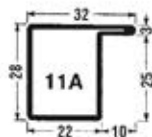
Kg./ml 1,72



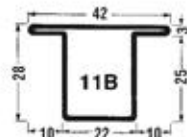
Kg./ml 2,10



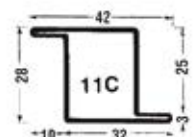
Kg./ml 2,10



Kg./ml 1,34



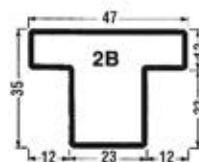
Kg./ml 1,57



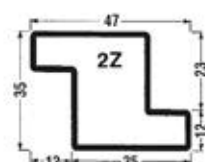
Kg./ml 1,57



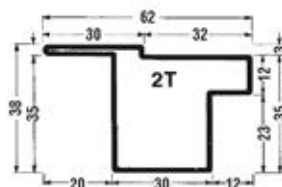
Kg./ml 1,76



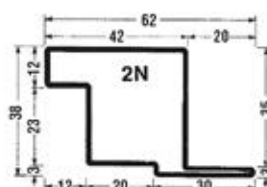
Kg./ml 1,88



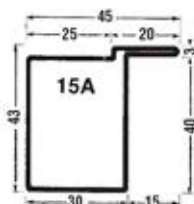
Kg./ml 1,88



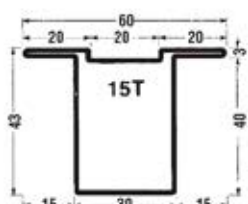
Kg./ml 2,30



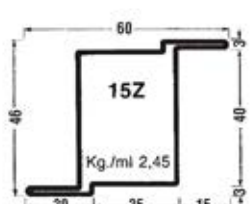
Kg./ml 2,30



Kg./ml 2,04

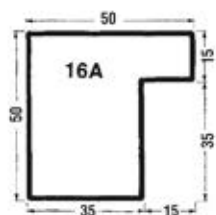


Kg./ml 2,45

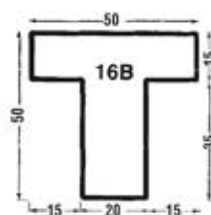


Kg./ml 2,45

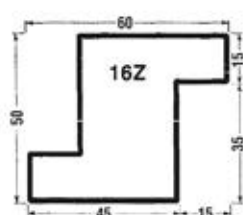
# TUBOLARI PER PORTONI spessore 15/10



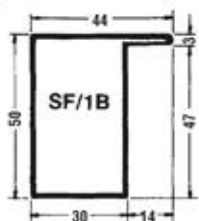
Kg/mt 2,33



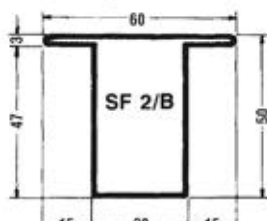
Kg/mt 2,33



Kg/mt 2,56



Kg./m. 2,15



Kg./m. 2,52



Kg./m. 2,52



Kg/mt 2,16



Kg/mt 2,50



Kg/mt 2,50

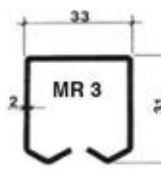
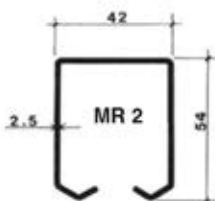
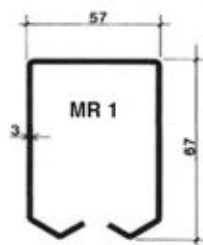


Kg/mt 2,61



Kg/mt 2,61

## MONOROTAIE E CARRELLI



|     | Pesi kg/m |
|-----|-----------|
| MR1 | 4,92      |
| MR2 | 3,12      |
| MR3 | 1,74      |



carrello per monorotaia a 2 ruote con supporto



carrello per monorotaia a 4 ruote con supporto



carrello per monorotaia a 2 ruote con perno



carrello per monorotaia a 4 ruote con perno

## TUBOLARI A SEZIONE VARIA



| A       | 30    | 40   | 40   | 50   | 60   |      |
|---------|-------|------|------|------|------|------|
| B       | 15    | 20   | 30   | 25   | 30   |      |
| Kg/ml   | 15/10 | 1,05 | 1,27 | 1,43 | 1,61 | 1,97 |
| per sp. | 20/10 | 1,38 | 1,67 | 1,88 | 2,12 | 2,61 |

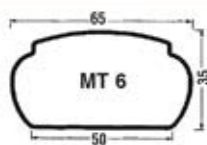


| A       | 30    | 40   | 50   | 50    | 60   |      |
|---------|-------|------|------|-------|------|------|
| B       | 15    | 20   | 10   | 25    | 30   |      |
| Kg/ml   | 15/10 | 0,98 | 1,24 | 1,239 | 1,55 | 1,87 |
| per sp. | 20/10 | 1,28 | 1,63 | 1,628 | 1,95 | 2,47 |

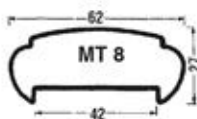


| A       | 30    | 40   | 60   | 60   | 90   |      |
|---------|-------|------|------|------|------|------|
| B       | 15    | 20   | 30   | 38   | 57   |      |
| Kg/ml   | 15/10 | 0,86 | 1,24 | 1,78 | 1,92 |      |
| per sp. | 20/10 | 1,13 | 1,63 | 2,35 | 2,50 | 4,08 |

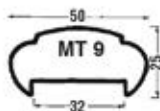
## TUBOLARI PER CORRIMANO spessore 1,5



Kg/ml 2,15

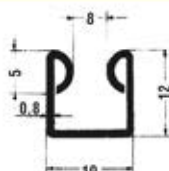
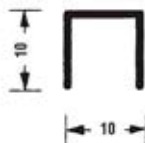


Kg/ml 1,87



Kg/ml 1,60

## FERMAVETRO





## GUIDE PER PORTONI

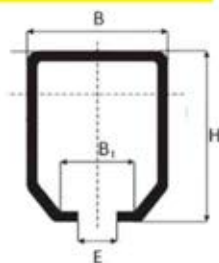
|               | B<br>mm | H<br>mm | E<br>mm | B <sub>1</sub><br>mm |
|---------------|---------|---------|---------|----------------------|
| G.S.P. VAK    | 65,0    | 60,0    | 18,0    | 44,0                 |
| G.S.G. VAK    | 80,0    | 75,0    | 22,0    | 58,0                 |
| G.S. VAK MAXI |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



G.S.P. VAK



G.S.G. VAK

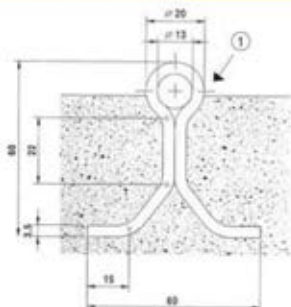


G.S. VAK MAXI

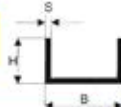
## GUIDA PER CANCELLI E PORTONI SCORREVOLI



OMEGA

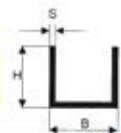


## PROFILATI "U" ad ali uguali



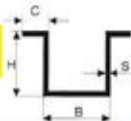
| Dimensioni |     | Spessore mm. |      |       |       |       |
|------------|-----|--------------|------|-------|-------|-------|
| B          | H   | 1,5          | 2    | 3     | 4     | 5     |
| mm.        |     | Peso - Kg/mt |      |       |       |       |
| 15         | 10  | 0,32         |      |       |       |       |
| 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



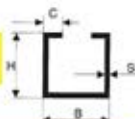
| Dimensioni |    | Spessore mm. |      |      |      |      |
|------------|----|--------------|------|------|------|------|
| B          | H  | 1,5          | 2    | 3    | 3,5  | 4    |
| mm.        |    | Peso - Kg/mt |      |      |      |      |
| 10         | 10 | 0,26         |      |      |      |      |
| 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<br>B H C<br>mm. |     |    | Spessore mm. |      |      |       |       |       |
|----------------------------|-----|----|--------------|------|------|-------|-------|-------|
|                            |     |    | 1,5          | 2    | 2,5  | 3     | 4     | 5     |
|                            |     |    | 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<br>B H C<br>mm. |    |      | Spessore mm. |      |      |      |
|----------------------------|----|------|--------------|------|------|------|
|                            |    |      | 1,5          | 2    | 2,5  | 3    |
|                            |    |      | 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 <sup>2</sup> |       |       |       |       |       |       |       |        |        |        |        |  |
|--------|---------------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--|
|        | 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 mm <sup>2</sup> /m <sup>2</sup> | Peso kg/m <sup>2</sup> | Maglia mm | Ø Fili mm | Sezione mm <sup>2</sup> /m <sup>2</sup> | Peso kg/m <sup>2</sup> |
|-----------|-----------|---|------------------------|-----------|-----------|---|------------------------|
| 100x100   | 5-5       | 196-196                                 | 3,11                   | 100x100   | 8-8       | 502-502                                 | 7,98                   |
| 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

**TONDI**  
per cemento  
armato  
lisci e nervati

| 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     |        |         |

| 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        | 0,748      |
| 12   | 1,13        | 0,888      |
| 14   | 1,54        | 1,208      |
| 16   | 2,01        | 1,578      |
| 18   | 2,54        | 1,998      |
| 20   | 3,14        | 2,468      |
| 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<br>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<br>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  |                |      |      |      |      |      |       |       |      | 26,3 | 30,8 | 32,5 |
| 200                          | 100 |                |      |      |      |      |      |       |       |      | 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 9,5 x13 | 33,20      |
| 50 x38 x5 x7     | 5,59       | 160 x65 x7,5 x10,5 | 18,90      | 260 x 90 x10 x14   | 37,90      |
| 65 x42 x5,5 x7,5 | 7,90       | 180 x70 x8 x11     | 22,00      | 280 x 95 x10 x15   | 41,90      |
| 80 x45 x6 x8     | 8,65       | 200 x75 x8,5 x11,5 | 25,30      | 300 x100 x10 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 x5,5 x5,5 | 2,52       | 50 x25 x6 x6     | 4,15       |
| 30 x15 x5 x5  | 1,98       | 40 x20 x6 x6     | 3,23       | 60 x30 x6,5 x6,5 | 5,45       |

## PROFILATI ANGOLARI a lati uguali spigoli tondi

| Lati<br>esterni<br>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  | 6,17  | 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 | 29,38 | 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<br>mm | Peso<br>Kg/mt | Dimensione<br>mm | Peso<br>Kg/mt |
|------------------|---------------|------------------|---------------|
| 20 x 20 x 4      | 1,13          | 50 x 50 x 7      | 5,11          |
| 25 x 25 x 4,5    | 1,61          | 60 x 60 x 8      | 7,03          |
| 30 x 30 x 5      | 2,16          | 70 x 70 x 9      | 9,26          |
| 35 x 35 x 5,5    | 2,78          | 80 x 80 x 10     | 11,78         |
| 40 x 40 x 6      | 3,49          | 100 x 100 x 11   | 16,32         |
| 45 x 45 x 6,5    | 4,26          |                  |               |

## PROFILATI A "T" spigoli tondi

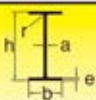
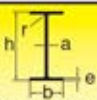
| Dimensione<br>mm | Peso<br>Kg/mt | Dimensione<br>mm | Peso<br>Kg/mt |
|------------------|---------------|------------------|---------------|
| 60 x 60 x 7      | 6,23          | 100 x 100 x 11   | 16,40         |
| 70 x 70 x 8      | 8,32          | 120 x 120 x 13   | 23,20         |
| 80 x 80 x 9      | 10,70         |                  |               |

## PROFILATI A "T" spigoli vivi (serie alleggerita)



| Dimensione<br>mm | Peso<br>Kg/mt | Dimensione<br>mm | Peso<br>Kg/mt |
|------------------|---------------|------------------|---------------|
| 30 x 30 x 3,5    | 1,55          | 50 x 50 x 6      | 4,43          |
| 30 x 30 x 4      | 1,76          | 60 x 60 x 7      | 6,21          |
| 35 x 35 x 4,5    | 2,31          | 70 x 70 x 8      | 8,29          |
| 40 x 40 x 5      | 2,94          | 80 x 80 x 9      | 10,67         |
| 45 x 45 x 5,5    | 3,65          |                  |               |



## TRAVI IPE

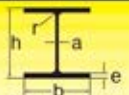

| Profilo    | Peso kg./m. | <br>DIMENSIONI |     |     |     |      | Profilo    | Peso kg./m. | <br>DIMENSIONI |     |            |      |      |
|------------|-------------|--|-----|-----|-----|------|------------|-------------|--|-----|------------|------|------|
|            |             | h  |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

## TRAVI NP

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



# TRAVI HE

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

| 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<sup>2</sup>

| 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<sup>2</sup>

| 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 <sup>2</sup> | Spessore mm | Peso kg/m <sup>2</sup> | Spessore mm | Peso kg/m <sup>2</sup> |
|-------------|------------------------|-------------|------------------------|-------------|------------------------|
| 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 <sup>2</sup> | Calibro inglese N. | Spessore mm | Peso kg/m <sup>2</sup> |
|--------------------|-------------|------------------------|--------------------|-------------|------------------------|
| 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 <sup>2</sup> kg | 18,5 | 22,0 | 27,6 | 35,4 | 43,3 | 51,1 | 50,0 | 66,8 | 82,5 | 98,2 |

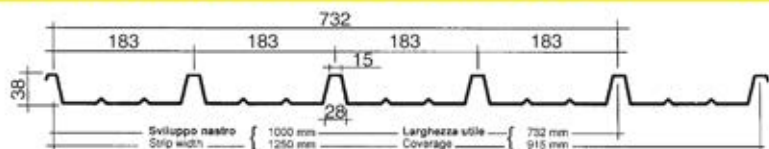
## LAMIERE BUGNATE



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



# LAMIERE GRECATE PER COPERTURE E PARETI



## Caratteristiche statiche

I valori delle portate in grassetto tengono calcolo di una freccia  $\leq 1/200$ ..

Carico max uniformemente distribuito in  $\text{Kg/m}^2$  per resistenza  $\sigma = 1450 \text{ Kg/cm}^2$ .

I carichi più elevati non prevedono limitazioni di freccia.

| Spessore             | 0,6  | 0,7  | 0,8  | 1,0   |
|----------------------|------|------|------|-------|
| Peso $\text{Kg/m}^2$ | 6,42 | 7,49 | 8,57 | 10,72 |
| Peso $\text{kg/m}$   | 1000 | 4,71 | 5,49 | 6,28  |
|                      | 1250 | 5,88 | 6,89 | 7,85  |

| spessore<br>mm | ▲▲<br>condizioni di appoggio      |            |           |           |      | ▲▲▲▲<br>condizioni di appoggio    |      |            |           |           |
|----------------|-----------------------------------|------------|-----------|-----------|------|-----------------------------------|------|------------|-----------|-----------|
|                | distanza fra gli appoggi in metri |            |           |           |      | distanza fra gli appoggi in metri |      |            |           |           |
|                | 2,00                              | 2,50       | 3,00      | 3,50      | 4,00 | 2,00                              | 2,50 | 3,00       | 3,50      | 4,00      |
| 0,6            | 142                               | 91         | 63        | 46        | 36   | 178                               | 114  | 79         | 58        | 44        |
|                | <b>142</b>                        | <b>73</b>  | <b>42</b> | -         | -    |                                   |      | <b>70</b>  | <b>44</b> | -         |
| 0,7            | 166                               | 106        | 74        | 54        | 41   | 207                               | 133  | 92         | 68        | 52        |
|                | <b>166</b>                        | <b>85</b>  | <b>49</b> | -         | -    |                                   |      | <b>82</b>  | <b>51</b> | <b>34</b> |
| 0,8            | 190                               | 122        | 85        | 62        | 48   | 238                               | 152  | 106        | 78        | 59        |
|                | <b>189</b>                        | <b>97</b>  | <b>56</b> | <b>35</b> | -    |                                   |      | <b>93</b>  | <b>59</b> | <b>39</b> |
| 1,0            | 238                               | 153        | 106       | 78        | 60   | 298                               | 191  | 132        | 97        | 74        |
|                | <b>236</b>                        | <b>121</b> | <b>70</b> | <b>44</b> | -    |                                   |      | <b>116</b> | <b>73</b> | <b>49</b> |
| freccia cm     | 1,00                              | 1,25       | 1,50      | 1,75      | 2,00 | 0,75                              | 1,17 | 1,50       | 1,75      | 2,00      |

# PANNELLI ISOLANTI PER PARETE

## PARETE



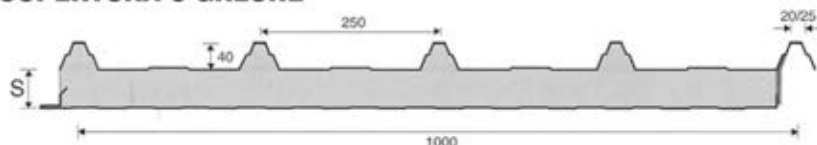
Carichi uniformemente distribuiti ammissibili in kg/mq (rapporto di conversione 1kg/mq = 0,00981 KN/mq.)

| Spessore<br>isolante<br>mm | ▲ ▲<br>condizioni di appoggio     |     |     |     | ▲ ▲ ▲ ▲<br>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<br>pannello<br>mm. | COEFFICIENTE DI TRASMISSIONE TERMICA - K - |              | Peso pannelli<br>con supporti in acciaio 0,45 mm<br>kg/m² |
|-----------------------------|--|--------------|---|
|                             | Kcal<br>m² h°c                             | Watt<br>m² 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   |

# PANNELLI ISOLANTI PER COPERTURA

## COPERTURA 5 GRECHE



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

| Spessore<br>isolante<br>mm | ▲ ▲<br>condizioni di appoggio     |     |     |     |     | ▲ ▲ ▲ ▲<br>condizioni di appoggio |     |     |     |     |
|----------------------------|-----------------------------------|-----|-----|-----|-----|-----------------------------------|-----|-----|-----|-----|
|                            | Distanza fra gli appoggi in metri |     |     |     |     |                                   |     |     |     |     |
|                            | 200                               | 250 | 300 | 350 | 400 | 200                               | 250 | 300 | 350 | 400 |
| 30                         | 184                               | 122 | 84  | 60  | 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<br>pannello<br>mm. | COEFFICIENTE DI TRASMISSIONE TERMICA - K - |              | Peso pannelli<br>con supporti in acciaio 0,45 mm<br>kg/m² |
|-----------------------------|--|--------------|---|
|                             | Kcal<br>m² h°c                             | Watt<br>m² 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   |

# GRIGLIATI ELETTROSALDATI



## Portata per carichi uniformemente distribuiti (kg/mq)

| maglia | piatto | peso<br>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  |
|        | 40x3   | 68,0          | 76100                               | 42700 | 27400 | 19100 | 14000 | 10700 | 6850  | 4750  | 2100 |
| 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   | 48,1          | 51850                               | 29150 | 18600 | 12950 | 9500  | 7250  | 4700  | 3200  | 1450 |
| 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/mm<sup>2</sup>). Freccia elastica minore di 1:250 della luce netta di appoggio.

## Portata per carichi concentrati su impronta (kg)

| maglia | piatto | peso<br>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  |
| 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/mm<sup>2</sup>)

Freccia elastica minore di 1:250 della luce netta di appoggio.  
Impronta 250x250 (mm).  
Senso di marcia parallelo ai piattoli portanti.





**ALTERINI A.**  
**METALFERRO**  
SAN ZENO (AR) **INOX**



**Strada A, 43 Zona Ind.le San Zeno  
52100 - Arezzo (AR)**

**Telefono: 0575 959174 Fax: 0575 959184**

**www.alterini.it - E-mail: info@alterini.it**