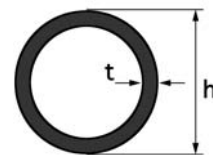


Tubi

Tabella generale dimensioni e pesi tubi saldati e senza saldatura

| t (spessori da 1,5 a 7,1) | | | | | | | | | | | | | | | |
|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| H | 1,5 | 2 | 2,3 | 2,6 | 2,9 | 3,2 | 3,6 | 4 | 4,5 | 5 | 5,6 | 5,9 | 6 | 6,3 | 7,1 |
| 10,0 | 0,31 | 0,39 | 0,44 | 0,47 | 0,51 | 0,54 | 0,57 | 0,59 | | | | | | | |
| 12,0 | 0,39 | 0,49 | 0,55 | 0,60 | 0,65 | 0,69 | 0,75 | 0,79 | | | | | | | |
| 15,0 | 0,50 | 0,64 | 0,72 | 0,79 | 0,86 | 0,93 | 1,01 | 1,08 | | | | | | | |
| 16,0 | 0,54 | 0,69 | 0,78 | 0,86 | 0,94 | 1,01 | 1,10 | 1,18 | | | | | | | |
| 17,2 | 0,58 | 0,75 | 0,84 | 0,94 | 1,02 | 1,10 | 1,21 | 1,30 | | | | | | | |
| 18,0 | 0,61 | 0,79 | 0,89 | 0,99 | 1,08 | 1,17 | 1,28 | 1,38 | | | | | | | |
| 20,0 | 0,68 | 0,89 | 1,00 | 1,12 | 1,22 | 1,33 | 1,46 | 1,58 | | | | | | | |
| 21,3 | 0,73 | 0,95 | 1,08 | 1,20 | 1,32 | 1,43 | 1,57 | 1,71 | 1,86 | 2,01 | 2,17 | 2,24 | 2,26 | 2,33 | 2,49 |
| 22,0 | 0,76 | 0,99 | 1,12 | 1,24 | 1,37 | 1,48 | 1,63 | 1,77 | 1,94 | 2,10 | 2,26 | 2,34 | 2,37 | 2,44 | 2,61 |
| 25,0 | 0,87 | 1,13 | 1,29 | 1,44 | 1,58 | 1,72 | 1,90 | 2,07 | 2,27 | 2,46 | 2,68 | 2,78 | 2,81 | 2,90 | 3,13 |
| 26,0 | 0,91 | 1,18 | 1,34 | 1,50 | 1,65 | 1,80 | 1,99 | 2,17 | 2,38 | 2,59 | 2,82 | 2,92 | 2,96 | 3,06 | 3,31 |
| 26,9 | 0,94 | 1,23 | 1,39 | 1,56 | 1,72 | 1,87 | 2,07 | 2,26 | 2,48 | 2,70 | 2,94 | 3,05 | 3,09 | 3,20 | 3,47 |
| 28,0 | 0,98 | 1,28 | 1,46 | 1,63 | 1,79 | 1,96 | 2,17 | 2,37 | 2,61 | 2,83 | 3,09 | 3,21 | 3,25 | 3,37 | 3,66 |
| 30,0 | 1,05 | 1,38 | 1,57 | 1,76 | 1,94 | 2,11 | 2,34 | 2,56 | 2,83 | 3,08 | 3,37 | 3,50 | 3,55 | 3,68 | 4,01 |
| 31,8 | 1,12 | 1,47 | 1,67 | 1,87 | 2,07 | 2,26 | 2,50 | 2,74 | 3,03 | 3,30 | 3,62 | 3,77 | 3,82 | 3,96 | 4,32 |
| 32,0 | 1,13 | 1,48 | 1,68 | 1,88 | 2,08 | 2,27 | 2,52 | 2,76 | 3,05 | 3,33 | 3,64 | 3,80 | 3,85 | 3,99 | 4,36 |
| 33,7 | 1,19 | 1,56 | 1,78 | 1,99 | 2,20 | 2,41 | 2,67 | 2,93 | 3,24 | 3,54 | 3,88 | 4,04 | 4,10 | 4,25 | 4,66 |
| 35,0 | 1,24 | 1,63 | 1,85 | 2,08 | 2,29 | 2,51 | 2,79 | 3,06 | 3,38 | 3,70 | 4,06 | 4,23 | 4,29 | 4,46 | 4,88 |
| 38,0 | 1,35 | 1,77 | 2,02 | 2,27 | 2,51 | 2,74 | 3,05 | 3,35 | 3,72 | 4,07 | 4,47 | 4,67 | 4,73 | 4,92 | 5,41 |
| 40,0 | 1,42 | 1,87 | 2,14 | 2,40 | 2,65 | 2,90 | 3,23 | 3,55 | 3,94 | 4,31 | 4,75 | 4,96 | 5,03 | 5,23 | 5,76 |
| 42,0 | 1,50 | 1,97 | 2,25 | 2,53 | 2,79 | 3,06 | 3,41 | 3,75 | 4,16 | 4,56 | 5,02 | 5,25 | 5,32 | 5,54 | 6,11 |
| 42,4 | 1,51 | 1,99 | 2,27 | 2,55 | 2,82 | 3,09 | 3,44 | 3,79 | 4,20 | 4,61 | 5,08 | 5,31 | 5,38 | 5,61 | 6,18 |
| 44,5 | 1,59 | 2,10 | 2,39 | 2,69 | 2,97 | 3,26 | 3,63 | 3,99 | 4,44 | 4,87 | 5,37 | 5,61 | 5,69 | 5,93 | 6,55 |
| 45,0 | 1,61 | 2,12 | 2,42 | 2,72 | 3,01 | 3,30 | 3,67 | 4,04 | 4,49 | 4,93 | 5,44 | 5,69 | 5,77 | 6,01 | 6,63 |
| 48,0 | 1,72 | 2,27 | 2,59 | 2,91 | 3,22 | 3,53 | 3,94 | 4,34 | 4,83 | 5,30 | 5,85 | 6,12 | 6,21 | 6,48 | 7,16 |
| 48,3 | 1,73 | 2,28 | 2,61 | 2,93 | 3,25 | 3,56 | 3,97 | 4,37 | 4,86 | 5,34 | 5,89 | 6,17 | 6,26 | 6,52 | 7,21 |

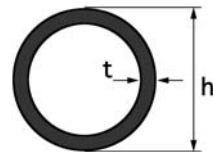


Tubi

Tubi

Tabella generale dimensioni e pesi tubi saldati e senza saldatura

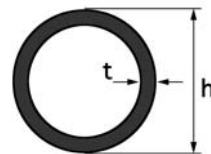
| t (spessori da 1,5 a 7,1) | | | | | | | | | | | | | | | |
|---------------------------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| H | 1,5 | 2 | 2,3 | 2,6 | 2,9 | 3,2 | 3,6 | 4 | 4,5 | 5 | 5,6 | 5,9 | 6 | 6,3 | 7,1 |
| 50,0 | 1,79 | 2,37 | 2,70 | 3,04 | 3,37 | 3,69 | 4,12 | 4,54 | 5,05 | 5,55 | 6,13 | 6,41 | 6,51 | 6,79 | 7,51 |
| 51,0 | 1,83 | 2,42 | 2,76 | 3,10 | 3,44 | 3,77 | 4,21 | 4,63 | 5,16 | 5,67 | 6,27 | 6,56 | 6,66 | 6,94 | 7,68 |
| 52,0 | 1,87 | 2,46 | 2,82 | 3,17 | 3,51 | 3,85 | 4,29 | 4,73 | 5,27 | 5,79 | 6,40 | 6,70 | 6,80 | 7,10 | 7,86 |
| 54,0 | 1,94 | 2,56 | 2,93 | 3,29 | 3,65 | 4,01 | 4,47 | 4,93 | 5,49 | 6,04 | 6,68 | 7,00 | 7,10 | 7,41 | 8,21 |
| 55,0 | 1,98 | 2,61 | 2,99 | 3,36 | 3,72 | 4,09 | 4,56 | 5,03 | 5,60 | 6,16 | 6,82 | 7,14 | 7,25 | 7,56 | 8,38 |
| 57,0 | 2,05 | 2,71 | 3,10 | 3,49 | 3,87 | 4,24 | 4,74 | 5,23 | 5,82 | 6,41 | 7,09 | 7,43 | 7,54 | 7,87 | 8,73 |
| 60,3 | 2,17 | 2,87 | 3,29 | 3,70 | 4,10 | 4,50 | 5,03 | 5,55 | 6,19 | 6,82 | 7,55 | 7,91 | 8,03 | 8,39 | 9,31 |
| 63,5 | 2,29 | 3,03 | 3,47 | 3,90 | 4,33 | 4,76 | 5,32 | 5,87 | 6,54 | 7,21 | 7,99 | 8,38 | 8,50 | 8,88 | 9,87 |
| 70,0 | 2,53 | 3,35 | 3,84 | 4,32 | 4,80 | 5,27 | 5,89 | 6,51 | 7,27 | 8,01 | 8,89 | 9,32 | 9,47 | 9,89 | 11,01 |
| 76,0 | 2,75 | 3,65 | 4,18 | 4,70 | 5,23 | 5,74 | 6,42 | 7,10 | 7,93 | 8,75 | 9,72 | 10,19 | 10,35 | 10,82 | 12,06 |
| 76,1 | 2,76 | 3,65 | 4,18 | 4,71 | 5,23 | 5,75 | 6,43 | 7,11 | 7,94 | 8,76 | 9,73 | 10,21 | 10,37 | 10,84 | 12,08 |
| 82,5 | 2,99 | 3,97 | 4,55 | 5,12 | 5,69 | 6,25 | 7,00 | 7,74 | 8,65 | 9,55 | 10,61 | 11,14 | 11,31 | 11,83 | 13,20 |
| 83,0 | 3,01 | 3,99 | 4,58 | 5,15 | 5,73 | 6,29 | 7,05 | 7,79 | 8,71 | 9,61 | 10,68 | 11,21 | 11,39 | 11,91 | 13,28 |
| 88,9 | 3,23 | 4,28 | 4,91 | 5,53 | 6,15 | 6,76 | 7,57 | 8,37 | 9,36 | 10,34 | 11,50 | 12,07 | 12,26 | 12,83 | 14,32 |
| 95,0 | 3,46 | 4,58 | 5,26 | 5,92 | 6,58 | 7,24 | 8,11 | 8,97 | 10,04 | 11,09 | 12,34 | 12,96 | 13,16 | 13,77 | 15,38 |
| 101,6 | 3,70 | 4,91 | 5,63 | 6,34 | 7,06 | 7,76 | 8,70 | 9,62 | 10,77 | 11,91 | 13,25 | 13,92 | 14,14 | 14,80 | 16,54 |
| 108,0 | 3,94 | 5,23 | 5,99 | 6,75 | 7,51 | 8,27 | 9,26 | 10,25 | 11,48 | 12,69 | 14,13 | 14,85 | 15,09 | 15,79 | 17,66 |
| 114,3 | 4,17 | 5,54 | 6,35 | 7,16 | 7,96 | 8,76 | 9,82 | 10,88 | 12,18 | 13,47 | 15,00 | 15,76 | 16,02 | 16,77 | 18,76 |
| 121,0 | | 5,87 | 6,73 | 7,59 | 8,44 | 9,29 | 10,42 | 11,54 | 12,92 | 14,30 | 15,93 | 16,74 | 17,01 | 17,81 | 19,93 |
| 127,0 | | 6,16 | 7,07 | 7,97 | 8,87 | 9,76 | 10,95 | 12,13 | 13,59 | 15,04 | 16,76 | 17,61 | 17,90 | 18,74 | 20,98 |
| 133,0 | | 6,46 | 7,41 | 8,36 | 9,30 | 10,24 | 11,48 | 12,72 | 14,25 | 15,78 | 17,59 | 18,48 | 18,78 | 19,68 | 22,03 |
| 139,7 | | | | | 9,78 | 10,77 | 12,08 | 13,38 | 15,00 | 16,60 | 18,51 | 19,46 | 19,77 | 20,72 | 23,21 |
| 141,3 | | | | | 9,89 | 10,89 | 12,22 | 13,54 | 15,17 | 16,60 | 18,73 | 19,69 | 20,01 | 20,96 | 23,49 |
| 146,0 | | | | | 10,23 | 11,26 | 12,64 | 14,00 | 15,70 | 18,60 | 19,38 | 20,37 | 20,71 | 21,69 | 24,31 |
| 152,4 | | | | | 10,69 | 11,77 | 13,20 | 14,63 | 16,41 | 19,60 | 20,26 | 21,31 | 21,65 | 22,69 | 25,43 |
| 159,0 | | | | | 11,16 | 12,29 | 13,79 | 15,28 | 17,14 | 20,60 | 21,17 | 22,27 | 22,63 | 23,71 | 26,58 |



Tubi

Tubi Tabella generale dimensioni e pesi tubi saldati e senza saldatura

| t (spessori da 1,5 a 7,1) | | | | | | | | | | | | | | | | |
|---------------------------|-----|---|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| H | 1,5 | 2 | 2,3 | 2,6 | 2,9 | 3,2 | 3,6 | 4 | 4,5 | 5 | 5,6 | 5,9 | 6 | 6,3 | 7,1 | |
| 165,1 | | | | | 11,59 | 12,77 | 14,33 | 15,88 | 17,81 | 21,60 | 22,02 | 23,15 | 23,53 | 24,66 | 27,65 | |
| 168,3 | | | | | 11,82 | 13,02 | 14,61 | 16,20 | 18,17 | 22,60 | 22,46 | 23,62 | 24,00 | 25,16 | 28,21 | |
| 177,8 | | | | | 12,50 | 13,77 | 15,46 | 17,14 | 19,22 | 23,60 | 23,77 | 25,00 | 25,41 | 26,63 | 29,87 | |
| 193,7 | | | | | 13,64 | 15,03 | 16,87 | 18,70 | 20,99 | 24,60 | 25,96 | 27,31 | 27,76 | 29,10 | 32,66 | |
| 203,0 | | | | | 14,30 | 15,76 | 17,69 | 19,62 | 22,02 | 25,60 | 27,25 | 28,66 | 29,14 | 30,55 | 34,28 | |
| 219,1 | | | | | 15,45 | 17,03 | 19,12 | 21,21 | 23,80 | 26,60 | 29,47 | 31,01 | 31,52 | 33,05 | 37,10 | |
| 229,0 | | | | | | | | 22,18 | 24,90 | 27,60 | 30,84 | 32,45 | 32,98 | 34,58 | 38,83 | |
| 244,5 | | | | | | | | 23,71 | 26,62 | 28,60 | 32,98 | 34,70 | 35,27 | 36,99 | 41,55 | |
| 254,0 | | | | | | | | 24,65 | 27,67 | 29,60 | 34,29 | 36,08 | 36,68 | 38,47 | 43,21 | |
| 267,0 | | | | | | | | 25,93 | 29,12 | 30,60 | 36,08 | 37,97 | 38,60 | 40,48 | 45,48 | |
| 273,0 | | | | | | | | 26,52 | 29,78 | 31,60 | 36,91 | 38,84 | 39,49 | 41,42 | 46,53 | |
| 298,5 | | | | | | | | 29,04 | 32,61 | 32,60 | 40,43 | 42,55 | 43,26 | 45,38 | 51,00 | |
| 323,9 | | | | | | | | 31,54 | 35,43 | 33,60 | 43,94 | 46,25 | 47,02 | 49,32 | 55,44 | |
| 339,7 | | | | | | | | 33,10 | 37,18 | 34,60 | 46,12 | 48,54 | 49,35 | 51,77 | 58,21 | |
| 355,6 | | | | | | | | 34,67 | 38,94 | 35,60 | 48,31 | 50,86 | 51,70 | 54,24 | 60,99 | |
| 368,0 | | | | | | | | | | 36,60 | 50,02 | 52,66 | 53,54 | 56,17 | 63,16 | |
| 381,0 | | | | | | | | | | 37,60 | 51,82 | 54,55 | 55,46 | 58,19 | 65,44 | |
| 406,4 | | | | | | | | | | 38,60 | 55,32 | 58,24 | 59,22 | 62,13 | 69,88 | |
| 419,0 | | | | | | | | | | 39,60 | 57,06 | 60,08 | 61,08 | 64,09 | 72,09 | |
| 457,2 | | | | | | | | | | 40,60 | 62,34 | 65,63 | 66,73 | 70,02 | 78,77 | |
| 473,1 | | | | | | | | | | 41,60 | 64,53 | 67,94 | 69,08 | 72,49 | 81,55 | |
| 508,0 | | | | | | | | | | 42,60 | 69,35 | 73,02 | 74,24 | 77,91 | 87,66 | |
| 521,0 | | | | | | | | | | | 71,14 | 74,91 | 76,17 | 79,93 | 89,94 | |
| 558,8 | | | | | | | | | | | 76,36 | 80,41 | 81,76 | 85,80 | 96,55 | |
| 609,6 | | | | | | | | | | | 83,37 | 87,80 | 89,27 | 93,69 | 105 | |
| 660,4 | | | | | | | | | | | 90,38 | 95,18 | 96,78 | 102 | 114 | |

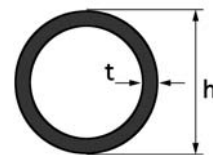


Tubi

Tubi

Tabella generale dimensioni e pesi tubi saldati e senza saldatura

| t (spessori da 1,5 a 7,1) | | | | | | | | | | | | | | | |
|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| H | 1,5 | 2 | 2,3 | 2,6 | 2,9 | 3,2 | 3,6 | 4 | 4,5 | 5 | 5,6 | 5,9 | 6 | 6,3 | 7,1 |
| 10,0 | 0,31 | 0,39 | 0,44 | 0,47 | 0,51 | 0,54 | 0,57 | 0,59 | | | | | | | |
| 12,0 | 0,39 | 0,49 | 0,55 | 0,60 | 0,65 | 0,69 | 0,75 | 0,79 | | | | | | | |
| 15,0 | 0,50 | 0,64 | 0,72 | 0,79 | 0,86 | 0,93 | 1,01 | 1,08 | | | | | | | |
| 16,0 | 0,54 | 0,69 | 0,78 | 0,86 | 0,94 | 1,01 | 1,10 | 1,18 | | | | | | | |
| 17,2 | 0,58 | 0,75 | 0,84 | 0,94 | 1,02 | 1,10 | 1,21 | 1,30 | | | | | | | |
| 18,0 | 0,61 | 0,79 | 0,89 | 0,99 | 1,08 | 1,17 | 1,28 | 1,38 | | | | | | | |
| 20,0 | 0,68 | 0,89 | 1,00 | 1,12 | 1,22 | 1,33 | 1,46 | 1,58 | | | | | | | |
| 21,3 | 0,73 | 0,95 | 1,08 | 1,20 | 1,32 | 1,43 | 1,57 | 1,71 | 1,86 | 2,01 | 2,17 | 2,24 | 2,26 | 2,33 | 2,49 |
| 22,0 | 0,76 | 0,99 | 1,12 | 1,24 | 1,37 | 1,48 | 1,63 | 1,77 | 1,94 | 2,10 | 2,26 | 2,34 | 2,37 | 2,44 | 2,61 |
| 25,0 | 0,87 | 1,13 | 1,29 | 1,44 | 1,58 | 1,72 | 1,90 | 2,07 | 2,27 | 2,46 | 2,68 | 2,78 | 2,81 | 2,90 | 3,13 |
| 26,0 | 0,91 | 1,18 | 1,34 | 1,50 | 1,65 | 1,80 | 1,99 | 2,17 | 2,38 | 2,59 | 2,82 | 2,92 | 2,96 | 3,06 | 3,31 |
| 26,9 | 0,94 | 1,23 | 1,39 | 1,56 | 1,72 | 1,87 | 2,07 | 2,26 | 2,48 | 2,70 | 2,94 | 3,05 | 3,09 | 3,20 | 3,47 |
| 28,0 | 0,98 | 1,28 | 1,46 | 1,63 | 1,79 | 1,96 | 2,17 | 2,37 | 2,61 | 2,83 | 3,09 | 3,21 | 3,25 | 3,37 | 3,66 |
| 30,0 | 1,05 | 1,38 | 1,57 | 1,76 | 1,94 | 2,11 | 2,34 | 2,56 | 2,83 | 3,08 | 3,37 | 3,50 | 3,55 | 3,68 | 4,01 |
| 31,8 | 1,12 | 1,47 | 1,67 | 1,87 | 2,07 | 2,26 | 2,50 | 2,74 | 3,03 | 3,30 | 3,62 | 3,77 | 3,82 | 3,96 | 4,32 |
| 32,0 | 1,13 | 1,48 | 1,68 | 1,88 | 2,08 | 2,27 | 2,52 | 2,76 | 3,05 | 3,33 | 3,64 | 3,80 | 3,85 | 3,99 | 4,36 |
| 33,7 | 1,19 | 1,56 | 1,78 | 1,99 | 2,20 | 2,41 | 2,67 | 2,93 | 3,24 | 3,54 | 3,88 | 4,04 | 4,10 | 4,25 | 4,66 |
| 35,0 | 1,24 | 1,63 | 1,85 | 2,08 | 2,29 | 2,51 | 2,79 | 3,06 | 3,38 | 3,70 | 4,06 | 4,23 | 4,29 | 4,46 | 4,88 |
| 38,0 | 1,35 | 1,77 | 2,02 | 2,27 | 2,51 | 2,74 | 3,05 | 3,35 | 3,72 | 4,07 | 4,47 | 4,67 | 4,73 | 4,92 | 5,41 |
| 40,0 | 1,42 | 1,87 | 2,14 | 2,40 | 2,65 | 2,90 | 3,23 | 3,55 | 3,94 | 4,31 | 4,75 | 4,96 | 5,03 | 5,23 | 5,76 |
| 42,0 | 1,50 | 1,97 | 2,25 | 2,53 | 2,79 | 3,06 | 3,41 | 3,75 | 4,16 | 4,56 | 5,02 | 5,25 | 5,32 | 5,54 | 6,11 |
| 42,4 | 1,51 | 1,99 | 2,27 | 2,55 | 2,82 | 3,09 | 3,44 | 3,79 | 4,20 | 4,61 | 5,08 | 5,31 | 5,38 | 5,61 | 6,18 |
| 44,5 | 1,59 | 2,10 | 2,39 | 2,69 | 2,97 | 3,26 | 3,63 | 3,99 | 4,44 | 4,87 | 5,37 | 5,61 | 5,69 | 5,93 | 6,55 |
| 45,0 | 1,61 | 2,12 | 2,42 | 2,72 | 3,01 | 3,30 | 3,67 | 4,04 | 4,49 | 4,93 | 5,44 | 5,69 | 5,77 | 6,01 | 6,63 |
| 48,0 | 1,72 | 2,27 | 2,59 | 2,91 | 3,22 | 3,53 | 3,94 | 4,34 | 4,83 | 5,30 | 5,85 | 6,12 | 6,21 | 6,48 | 7,16 |
| 48,3 | 1,73 | 2,28 | 2,61 | 2,93 | 3,25 | 3,56 | 3,97 | 4,37 | 4,86 | 5,34 | 5,89 | 6,17 | 6,26 | 6,52 | 7,21 |

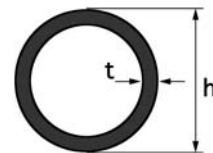


Tubi

Tubi

Tabella generale dimensioni e pesi tubi saldati e senza saldatura

| t (spessori da 8 a 35) | | | | | | | | | | | | | | | |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| | 8 | 8,8 | 9,5 | 10 | 11 | 12,5 | 14,2 | 16 | 17,5 | 20 | 22,2 | 25 | 28 | 30 | 35 |
| 32,0 | 5,07 | 5,40 | 5,67 | 5,84 | | | | | | | | | | | |
| 33,7 | 5,32 | 5,68 | 5,97 | 6,16 | | | | | | | | | | | |
| 35,0 | 5,92 | 6,33 | 6,67 | 6,90 | | | | | | | | | | | |
| 38,0 | 6,31 | 6,77 | 7,14 | 7,39 | | | | | | | | | | | |
| 40,0 | 6,70 | 7,20 | 7,61 | 7,89 | | | | | | | | | | | |
| 42,0 | 6,78 | 7,29 | 7,70 | 7,99 | 8,51 | 9,21 | | | | | | | | | |
| 42,4 | 7,20 | 7,74 | 8,20 | 8,50 | 9,08 | 9,86 | | | | | | | | | |
| 44,5 | 7,30 | 7,85 | 8,31 | 8,63 | 9,22 | 10,01 | | | | | | | | | |
| 45 | 7,89 | 8,50 | 9,02 | 9,37 | 10,03 | 10,94 | | | | | | | | | |
| 48,3 | 7,95 | 8,57 | 9,09 | 9,44 | 10,11 | 11,03 | | | | | | | | | |
| 50,0 | 8,28 | 8,94 | 9,48 | 9,86 | 10,57 | 11,55 | | | | | | | | | |
| 51,0 | 8,48 | 9,15 | 9,72 | 10,11 | 10,85 | 11,86 | 12,88 | | | | | | | | |
| 52,0 | 8,68 | 9,37 | 9,95 | 10,35 | 11,12 | 12,17 | 13,23 | | | | | | | | |
| 54,0 | 9,07 | 9,80 | 10,42 | 10,85 | 11,66 | 12,79 | 13,93 | | | | | | | | |
| 55,0 | 9,27 | 10,02 | 10,65 | 11,09 | 11,93 | 13,09 | 14,28 | | | | | | | | |
| 57,0 | 9,66 | 10,46 | 11,12 | 11,59 | 12,47 | 13,71 | 14,98 | 16,17 | | | | | | | |
| 60,3 | 10,31 | 11,17 | 11,90 | 12,40 | 13,37 | 14,73 | 16,14 | 17,47 | 18,46 | | | | | | |
| 63,5 | 10,94 | 11,87 | 12,64 | 13,19 | 14,23 | 15,71 | 17,26 | 18,73 | 19,84 | | | | | | |
| 70,0 | 12,23 | 13,27 | 14,17 | 14,79 | 16,00 | 17,72 | 19,53 | 21,30 | 22,65 | 24,65 | | | | | |
| 76,0 | 13,41 | 14,58 | 15,57 | 16,27 | 17,62 | 19,57 | 21,63 | 23,66 | 25,23 | 27,61 | | | | | |
| 76,1 | 13,43 | 14,60 | 15,60 | 16,29 | 17,65 | 19,60 | 21,67 | 23,70 | 25,28 | 27,66 | | | | | |
| 82,5 | 14,69 | 15,99 | 17,09 | 17,87 | 19,39 | 21,57 | 23,91 | 26,23 | 28,04 | 30,81 | 33,00 | 35,43 | | | |
| 83,0 | 14,79 | 16,09 | 17,21 | 17,99 | 19,52 | 21,72 | 24,08 | 26,42 | 28,25 | 31,06 | 33,27 | 35,74 | | | |
| 88,9 | 15,95 | 17,37 | 18,59 | 19,45 | 21,12 | 23,54 | 26,15 | 28,75 | 30,80 | 33,97 | 36,50 | 39,38 | | | |
| 95,0 | 17,16 | 18,70 | 20,02 | 20,95 | 22,78 | 25,42 | 28,28 | 31,16 | 33,43 | 36,97 | 39,84 | 43,14 | 46,24 | | |
| 101,6 | 18,46 | 20,13 | 21,57 | 22,58 | 24,57 | 27,45 | 30,59 | 33,76 | 36,28 | 40,23 | 43,45 | 47,20 | 50,80 | 52,95 | |

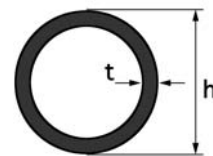


Tubi

Tubi

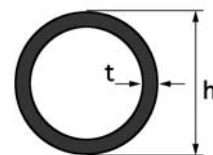
Tabella generale dimensioni e pesi tubi saldati e senza saldatura

| t (spessori da 1,5 a 7,1) | | | | | | | | | | | | | | | |
|---------------------------|-----|---|-----|-----|-----|-----|-----|---|-----|---|-----|-----|-----|-----|-----|
| H | 1,5 | 2 | 2,3 | 2,6 | 2,9 | 3,2 | 3,6 | 4 | 4,5 | 5 | 5,6 | 5,9 | 6 | 6,3 | 7,1 |
| 711,2 | | | | | | | | | | | | | 104 | 109 | 123 |
| 762,0 | | | | | | | | | | | | | 112 | 117 | 132 |
| 812,8 | | | | | | | | | | | | | 119 | 125 | 141 |
| 863,6 | | | | | | | | | | | | | 127 | 133 | 150 |
| 914,4 | | | | | | | | | | | | | 134 | 141 | 159 |
| 965,2 | | | | | | | | | | | | | 142 | 149 | 168 |
| 1.016,0 | | | | | | | | | | | | | 149 | 157 | 177 |
| 1.066,8 | | | | | | | | | | | | | 157 | 165 | 185 |
| 1.117,6 | | | | | | | | | | | | | 164 | 173 | 194 |
| 1.168,4 | | | | | | | | | | | | | 172 | 180 | 203 |
| 1.219,2 | | | | | | | | | | | | | 179 | 188 | 212 |
| 1.270,0 | | | | | | | | | | | | | 187 | 196 | 221 |
| 1.320,8 | | | | | | | | | | | | | 194 | 204 | 230 |
| 1.422,4 | | | | | | | | | | | | | 209 | 220 | 248 |
| 1.473,0 | | | | | | | | | | | | | 217 | 228 | 257 |



Tubi Tabella generale dimensioni e pesi tubi saldati e senza saldatura

| t (spessori da 8 a 35) | | | | | | | | | | | | | | | |
|------------------------|-------|-------|-------|-------|-----|------|------|-----|------|-----|------|-----|-----|------|------|
| | 8 | 8,8 | 9,5 | 10 | 11 | 12,5 | 14,2 | 16 | 17,5 | 20 | 22,2 | 25 | 28 | 30 | 35 |
| 381,0 | 73,55 | 80,73 | 86,99 | 91,45 | 100 | 114 | 128 | 144 | 157 | 178 | 196 | 219 | 244 | 260 | 298 |
| 406,4 | 78,56 | 86,24 | 92,94 | 97,71 | 107 | 121 | 137 | 154 | 168 | 190 | 210 | 235 | 261 | 278 | 320 |
| 419,0 | 81,05 | 88,98 | 95,89 | 101 | 111 | 125 | 142 | 159 | 173 | 197 | 217 | 243 | 270 | 288 | 331 |
| 457,2 | 88,58 | 97,26 | 105 | 110 | 121 | 137 | 155 | 174 | 190 | 216 | 238 | 266 | 296 | 316 | 364 |
| 473,1 | 91,71 | 101 | 109 | 114 | 125 | 142 | 161 | 180 | 197 | 223 | 247 | 276 | 307 | 328 | 378 |
| 508,0 | 98,60 | 108 | 117 | 123 | 135 | 153 | 173 | 194 | 212 | 241 | 266 | 298 | 331 | 353 | 408 |
| 521,0 | 101 | 111 | 120 | 126 | 138 | 157 | 177 | 199 | 217 | 247 | 273 | 306 | 340 | 363 | 419 |
| 558,8 | 109 | 119 | 129 | 135 | 149 | 168 | 191 | 214 | 233 | 266 | 294 | 329 | 366 | 391 | 452 |
| 609,6 | 119 | 130 | 141 | 148 | 162 | 184 | 208 | 234 | 255 | 291 | 321 | 360 | 401 | 429 | 496 |
| 660,4 | 129 | 141 | 152 | 160 | 176 | 200 | 226 | 254 | 277 | 316 | 349 | 392 | 436 | 466 | 540 |
| 711,2 | 139 | 152 | 164 | 173 | 190 | 215 | 244 | 274 | 299 | 341 | 377 | 423 | 472 | 504 | 583 |
| 762,0 | 149 | 163 | 176 | 185 | 204 | 231 | 262 | 294 | 321 | 366 | 405 | 454 | 507 | 541 | 627 |
| 812,8 | 159 | 174 | 188 | 198 | 217 | 247 | 280 | 314 | 343 | 391 | 433 | 485 | 542 | 579 | 671 |
| 863,6 | 169 | 185 | 200 | 210 | 231 | 262 | 297 | 334 | 365 | 416 | 460 | 517 | 577 | 616 | 715 |
| 914,4 | 179 | 196 | 212 | 223 | 245 | 278 | 315 | 354 | 387 | 441 | 488 | 548 | 612 | 654 | 759 |
| 965,2 | 189 | 207 | 224 | 235 | 259 | 294 | 333 | 374 | 409 | 466 | 516 | 579 | 647 | 692 | 802 |
| 1016,0 | 199 | 218 | 236 | 248 | 272 | 309 | 351 | 394 | 431 | 491 | 544 | 611 | 682 | 729 | 846 |
| 1066,8 | 209 | 229 | 248 | 260 | 286 | 325 | 368 | 414 | 453 | 516 | 572 | 642 | 717 | 767 | 890 |
| 1117,6 | 219 | 241 | 259 | 273 | 300 | 340 | 386 | 434 | 475 | 541 | 599 | 673 | 752 | 804 | 934 |
| 1168,4 | 229 | 252 | 271 | 286 | 314 | 356 | 404 | 454 | 496 | 566 | 627 | 705 | 787 | 842 | 978 |
| 1219,2 | 239 | 263 | 283 | 298 | 328 | 372 | 422 | 475 | 518 | 591 | 655 | 736 | 822 | 879 | 1022 |
| 1270,0 | 249 | 274 | 295 | 311 | 341 | 387 | 440 | 495 | 540 | 616 | 683 | 767 | 857 | 917 | 1065 |
| 1320,8 | 259 | 285 | 307 | 323 | 355 | 403 | 457 | 515 | 562 | 641 | 711 | 799 | 892 | 955 | 1109 |
| 1422,4 | 279 | 307 | 331 | 348 | 383 | 434 | 493 | 555 | 606 | 691 | 766 | 861 | 962 | 1030 | 1197 |
| 1473,0 | 289 | 318 | 343 | 361 | 396 | 450 | 511 | 575 | 628 | 716 | 794 | 892 | 997 | 1067 | 1241 |

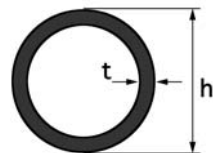


Tubi

Tubi

Tabella generale dimensioni e pesi tubi saldati e senza saldatura

| t (spessori da 40 a 100) | | | | | | | | | | | | |
|--------------------------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| H | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 100 |
| 114,3 | 73,26 | | | | | | | | | | | |
| 121,0 | 79,86 | | | | | | | | | | | |
| 127,0 | 85,78 | 90,95 | 94,90 | | | | | | | | | |
| 133,0 | 91,69 | 97,61 | 102 | | | | | | | | | |
| 139,7 | 98,30 | 105 | 111 | | | | | | | | | |
| 141,3 | 99,88 | 107 | 113 | | | | | | | | | |
| 146,0 | 105 | 112 | 118 | | | | | | | | | |
| 152,4 | 111 | 119 | 126 | | | | | | | | | |
| 159,0 | 117 | 126 | 134 | 141 | 146 | | | | | | | |
| 165,1 | 123 | 133 | 142 | 149 | 155 | | | | | | | |
| 168,3 | 126 | 137 | 146 | 154 | 160 | | | | | | | |
| 177,8 | 136 | 147 | 158 | 166 | 174 | | | | | | | |
| 193,7 | 152 | 165 | 177 | 188 | 198 | | | | | | | |
| 203,0 | 161 | 175 | 189 | 201 | 211 | | | | | | | |
| 219,1 | 177 | 193 | 208 | 222 | 235 | | | | | | | |
| 229,0 | 186 | 204 | 221 | 236 | 250 | 263 | 274 | | | | | |
| 244,5 | 202 | 221 | 240 | 257 | 273 | 288 | 301 | | | | | |
| 254,0 | 211 | 232 | 251 | 270 | 287 | 303 | 317 | | | | | |
| 267,0 | 224 | 246 | 267 | 287 | 306 | 324 | 340 | 355 | | | | |
| 273,0 | 230 | 253 | 275 | 296 | 315 | 333 | 350 | 366 | 381 | 394 | | |
| 298,5 | 255 | 281 | 306 | 330 | 353 | 374 | 394 | 413 | 431 | 447 | | |
| 323,9 | 280 | 309 | 338 | 365 | 390 | 415 | 438 | 460 | 481 | 501 | 519 | 552 |
| 339,7 | 295 | 327 | 357 | 386 | 414 | 440 | 465 | 489 | 512 | 534 | 554 | 591 |
| 355,6 | 311 | 345 | 377 | 408 | 437 | 466 | 493 | 519 | 543 | 567 | 589 | 630 |
| 368,0 | 323 | 358 | 392 | 424 | 456 | 485 | 514 | 542 | 568 | 593 | 617 | 661 |
| 381,0 | 336 | 373 | 408 | 442 | 475 | 506 | 537 | 566 | 594 | 620 | 646 | 693 |

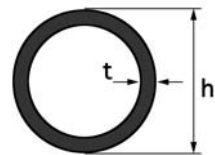


Tubi

Tubi

Tabella generale dimensioni e pesi tubi saldati e senza saldatura

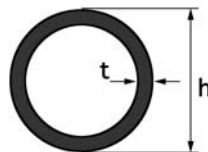
| t (spessori da 40 a 100) | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| H | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 100 |
| 406,4 | 361 | 401 | 439 | 476 | 512 | 547 | 580 | 613 | 644 | 673 | 702 | 755 |
| 419,0 | 374 | 415 | 455 | 493 | 531 | 567 | 602 | 636 | 668 | 700 | 730 | 786 |
| 457,2 | 411 | 457 | 502 | 545 | 587 | 628 | 668 | 707 | 744 | 780 | 815 | 880 |
| 473,1 | 427 | 475 | 521 | 567 | 611 | 654 | 696 | 736 | 775 | 813 | 850 | 920 |
| 508,0 | 461 | 514 | 564 | 614 | 663 | 710 | 756 | 800 | 844 | 886 | 927 | 1006 |
| 521,0 | 474 | 528 | 580 | 632 | 682 | 731 | 778 | 825 | 870 | 913 | 956 | 1038 |
| 558,8 | 512 | 570 | 627 | 683 | 738 | 791 | 843 | 894 | 944 | 993 | 1040 | 1131 |
| 609,6 | 562 | 626 | 690 | 752 | 813 | 873 | 931 | 988 | 1044 | 1099 | 1153 | 1256 |
| 660,4 | 612 | 683 | 752 | 821 | 888 | 954 | 1019 | 1082 | 1145 | 1206 | 1265 | 1381 |
| 711,2 | 662 | 739 | 815 | 890 | 963 | 1035 | 1106 | 1176 | 1245 | 1312 | 1378 | 1507 |
| 762,0 | 712 | 795 | 878 | 958 | 1038 | 1117 | 1194 | 1270 | 1345 | 1418 | 1491 | 1632 |
| 812,8 | 762 | 852 | 940 | 1027 | 1113 | 1198 | 1282 | 1364 | 1445 | 1525 | 1603 | 1757 |
| 863,6 | 812 | 908 | 1003 | 1096 | 1188 | 1280 | 1369 | 1458 | 1545 | 1631 | 1716 | 1882 |
| 914,4 | 862 | 964 | 1065 | 1165 | 1264 | 1361 | 1457 | 1552 | 1645 | 1738 | 1829 | 2007 |
| 965,2 | 912 | 1021 | 1128 | 1234 | 1339 | 1442 | 1545 | 1646 | 1746 | 1844 | 1942 | 2133 |
| 1016,0 | 962 | 1077 | 1191 | 1303 | 1414 | 1524 | 1632 | 1740 | 1846 | 1951 | 2054 | 2258 |
| 1066,8 | 1012 | 1133 | 1253 | 1372 | 1489 | 1605 | 1720 | 1834 | 1946 | 2057 | 2167 | 2383 |
| 1117,6 | 1062 | 1190 | 1316 | 1441 | 1564 | 1686 | 1808 | 1927 | 2046 | 2163 | 2280 | 2508 |
| 1168,4 | 1113 | 1246 | 1378 | 1509 | 1639 | 1768 | 1895 | 2021 | 2146 | 2270 | 2392 | 2633 |
| 1219,2 | 1163 | 1302 | 1441 | 1578 | 1714 | 1849 | 1983 | 2115 | 2246 | 2376 | 2505 | 2759 |
| 1270,0 | 1213 | 1359 | 1504 | 1647 | 1790 | 1931 | 2071 | 2209 | 2347 | 2483 | 2618 | 2884 |
| 1320,8 | 1263 | 1415 | 1566 | 1716 | 1865 | 2012 | 2158 | 2303 | 2447 | 2589 | 2730 | 3009 |
| 1422,4 | 1363 | 1528 | 1691 | 1854 | 2015 | 2175 | 2333 | 2491 | 2647 | 2802 | 2956 | 3260 |



Tubi

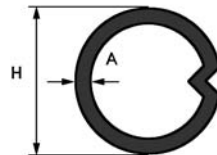
Tubi Gas acqua saldati e senza saldatura UNI-EN 10255:2005 (UNI8863)

| Tubo gas acqua | | | | | | | | | | | | | |
|----------------|-------|---------------|-------------|----------------|--------------|-------------|-------------|----------------|--------------|---------------|-------------|----------------|--------------|
| diametri | | Serie leggera | | | | Serie media | | | | Serie pesante | | | |
| Pollici | mm | spessore | nero liscio | zincato liscio | zincato V.M. | spessore | nero liscio | zincato liscio | zincato V.M. | spessore | nero liscio | zincato liscio | zincato V.M. |
| 3/8" | 17,2 | 2,00 | 0,74 | 0,79 | 0,80 | 2,35 | 0,85 | 0,89 | 0,90 | 2,9 | 1,02 | 1,07 | 1,08 |
| 1/2" | 21,3 | 2,35 | 1,08 | 1,15 | 1,17 | 2,65 | 1,22 | 1,27 | 1,29 | 3,25 | 1,45 | 1,52 | 1,56 |
| 3/4" | 26,9 | 2,35 | 1,39 | 1,48 | 1,49 | 2,65 | 1,58 | 1,65 | 1,66 | 3,25 | 1,90 | 1,99 | 2,00 |
| 1" | 33,7 | 2,90 | 2,20 | 2,32 | 2,34 | 3,25 | 2,44 | 2,55 | 2,57 | 4,05 | 2,97 | 3,10 | 3,12 |
| 1.1/4" | 42,4 | 2,90 | 2,82 | 2,97 | 3,00 | 3,25 | 3,14 | 3,28 | 3,31 | 4,05 | 3,84 | 4,01 | 4,04 |
| 1.1/2" | 48,3 | 2,90 | 3,24 | 3,41 | 3,45 | 3,25 | 3,61 | 3,77 | 3,81 | 4,05 | 4,43 | 4,63 | 4,67 |
| 2" | 60,3 | 3,20 | 4,49 | 4,71 | 4,76 | 3,65 | 5,10 | 5,33 | 5,40 | 4,50 | 6,19 | 6,45 | 6,52 |
| 2.1/2" | 76,1 | 3,20 | 5,73 | 6,00 | 6,12 | 3,65 | 6,51 | 6,80 | 6,93 | 4,50 | 7,93 | 8,26 | 8,38 |
| 3" | 88,9 | 3,60 | 7,55 | 7,87 | 8,04 | 4,05 | 8,47 | 8,85 | 9,03 | 5,00 | 10,30 | 10,60 | 10,82 |
| 4" | 114,3 | 4,00 | 10,80 | 11,22 | 11,52 | 4,50 | 12,20 | 12,70 | 13,00 | 5,40 | 14,50 | 15,00 | 15,36 |
| 5" | 139,7 | 4,50 | 14,90 | | 15,85 | 5,00 | 16,60 | 17,10 | 17,60 | 5,40 | 17,90 | 18,60 | 18,90 |
| 6" | 165,1 | 4,50 | 17,80 | | 18,75 | 5,00 | 19,80 | 20,10 | 21,00 | 5,40 | 21,30 | 22,20 | 22,50 |



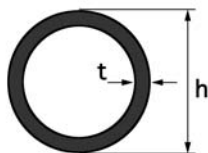
Tubi Carpenteria antirrotazione zincati

| Diametri (H) | | Lunghezza | Spessore (A) | | |
|--------------|----|-----------|--------------|------|------|
| pollici | mm | | 2 | 2,5 | 3 |
| 2" | 60 | 6000 | 3,01 | 3,76 | 4,52 |
| | | 6600 | 3,01 | 3,76 | 4,52 |
| | | 7000 | 3,01 | 3,76 | 4,52 |



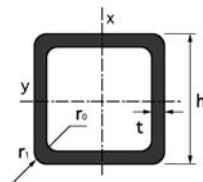
Tubi Carpenteria

| Diametri (H) | | t | Peso |
|--------------|-------|------|-------|
| pollici | mm | mm | Kg/m |
| 3/8" | 17,2 | 1,80 | 0,66 |
| 1/2" | 21,3 | 2,00 | 0,95 |
| 3/4" | 26,9 | 2,35 | 1,41 |
| 1" | 33,7 | 2,65 | 2,01 |
| 1.1/4" | 42,4 | 2,65 | 2,58 |
| 1.1/2" | 48,3 | 2,90 | 3,25 |
| 2" | 60,3 | 2,90 | 4,11 |
| 2.1/2" | 76,1 | 3,00 | 5,40 |
| 3" | 88,9 | 3,00 | 6,36 |
| 3.1/2" | 101,6 | 3,30 | 8,03 |
| 4" | 114,3 | 3,30 | 9,04 |
| 5" | 139,7 | 3,70 | 12,41 |
| 6" | 165,1 | 4,00 | 16,18 |
| 7" | 193,7 | 4,00 | 18,65 |
| 8" | 219,1 | 5,00 | 26,40 |
| 9" | 244,6 | 5,00 | 29,54 |
| 10" | 273,0 | 5,00 | 33,05 |
| 12" | 323,9 | 5,00 | 39,32 |
| 14" | 355,6 | 5,00 | 43,23 |
| 16" | 406,4 | 5,00 | 49,50 |



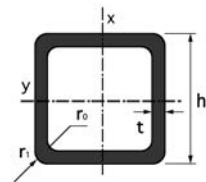
Tubi

| † | | | | | | | | | | | | | |
|-----|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| H | 1,5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 12 | 14 | 16 | 20 |
| 10 | 0,38 | | | | | | | | | | | | |
| 12 | 0,48 | | | | | | | | | | | | |
| 15 | 0,62 | 0,79 | | | | | | | | | | | |
| 16 | 0,67 | | | | | | | | | | | | |
| 20 | 0,86 | 1,10 | 1,52 | | | | | | | | | | |
| 25 | 1,09 | 1,41 | 1,99 | | | | | | | | | | |
| 30 | 1,33 | 1,73 | 2,46 | 3,13 | | | | | | | | | |
| 35 | 1,56 | 2,04 | 2,94 | 3,76 | | | | | | | | | |
| 40 | 1,80 | 2,36 | 3,41 | 4,39 | 5,28 | 6,10 | | | | | | | |
| 45 | 2,03 | 2,67 | 3,88 | 5,02 | 6,21 | | | | | | | | |
| 50 | 2,27 | 2,98 | 4,35 | 5,64 | 6,85 | 7,98 | | 10,01 | | | | | |
| 60 | 2,74 | 3,61 | 5,29 | 6,90 | 8,42 | 9,87 | 11,23 | 12,52 | 14,86 | | | | |
| 70 | 3,18 | 4,24 | 6,23 | 8,16 | 9,99 | 11,75 | 13,43 | 15,03 | 18,00 | | | | |
| 80 | | 4,87 | 7,17 | 9,41 | 11,56 | 13,64 | 15,63 | 17,54 | 21,14 | 25,07 | | | |
| 90 | | 5,50 | 8,12 | 10,67 | 13,13 | 15,52 | 17,83 | 20,06 | 24,28 | 28,17 | | | |
| 100 | | 6,12 | 9,06 | 11,92 | 14,70 | 17,40 | 20,03 | 22,57 | 27,42 | 31,94 | 36,15 | | |
| 110 | | | 10,00 | 13,18 | 16,27 | 19,29 | 22,42 | 25,08 | 30,56 | 35,71 | | | |
| 120 | | | 10,94 | 14,44 | 17,84 | 21,17 | 24,42 | 27,59 | 33,70 | 39,48 | 44,94 | | |
| 130 | | | 11,88 | 15,69 | 19,41 | 23,06 | | 30,10 | 36,84 | 43,25 | 49,34 | 55,11 | |
| 140 | | | 12,83 | 16,95 | 20,98 | 24,94 | | 32,62 | 39,98 | 47,01 | 53,73 | 60,14 | |
| 150 | | | 13,77 | 18,20 | 22,55 | 26,82 | 31,21 | 35,13 | 43,12 | 50,78 | 58,13 | 65,16 | |
| 160 | | | | 19,46 | 24,12 | 28,71 | | 37,64 | 46,26 | 54,55 | 62,53 | 70,19 | |
| 175 | | | 16,12 | 21,34 | 26,48 | 31,53 | 36,51 | 41,41 | | | | | |



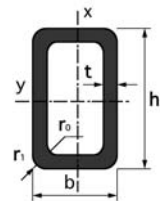
Quadro UNI-EN 10219 1-2:1999

| H | t | | | | | | | | | | | | |
|-----|-----|---|---|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| | 1,5 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 12 | 14 | 16 | 20 |
| 180 | | | | 21,97 | 27,26 | 32,48 | | 42,66 | 52,54 | 62,09 | 71,32 | 80,23 | |
| 200 | | | | 24,48 | 30,40 | 36,24 | 42,01 | 47,69 | 58,82 | 69,62 | 80,11 | 90,28 | |
| 220 | | | | 27,00 | 33,54 | 40,01 | | 52,71 | 65,10 | 77,16 | 88,90 | 100,33 | |
| 250 | | | | 30,76 | 45,66 | 60,25 | | 74,52 | 88,46 | 102,09 | 115,40 | | |
| 260 | | | | 32,02 | | 39,82 | | 47,55 | 62,76 | 77,66 | 92,23 | 106,49 | |
| 300 | | | | | 46,10 | 55,08 | | 72,81 | 90,22 | 107,30 | 124,07 | 140,52 | |
| 325 | | | | | | 59,79 | | | | | | | |
| 350 | | | | | | 64,50 | | 85,37 | 105,92 | 126,14 | 146,05 | 165,64 | |
| 400 | | | | | | 73,92 | | 97,93 | 121,62 | 144,98 | 168,03 | 190,76 | 235,26 |



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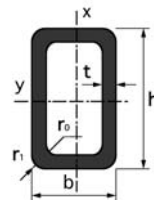
| | | t | | | | | | | | | | | | | | |
|---------|------|------|------|------|---|---|---|---|---|---|----|----|------|------|----|----|
| A x B | 1,5 | 2 | 2,5 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 12,5 | 14,2 | 16 | 20 |
| 15 * 10 | 0,47 | | | | | | | | | | | | | | | |
| 20 * 10 | 0,59 | 0,74 | | | | | | | | | | | | | | |
| 20 * 15 | 0,71 | 0,89 | | | | | | | | | | | | | | |
| 25 * 10 | 0,71 | 0,89 | | | | | | | | | | | | | | |
| 25 * 15 | 0,83 | 1,05 | | | | | | | | | | | | | | |
| 25 * 20 | 0,94 | 1,21 | | | | | | | | | | | | | | |
| 30 * 10 | 0,83 | 1,05 | | | | | | | | | | | | | | |
| 30 * 15 | 0,94 | 1,21 | | | | | | | | | | | | | | |
| 30 * 20 | 1,06 | 1,36 | 1,64 | 1,89 | | | | | | | | | | | | |
| 35 * 10 | 0,94 | 1,21 | | | | | | | | | | | | | | |
| 35 * 15 | 1,06 | 1,36 | | | | | | | | | | | | | | |
| 35 * 20 | 1,18 | 1,52 | | | | | | | | | | | | | | |
| 40 * 10 | 1,06 | 1,36 | | | | | | | | | | | | | | |
| 40 * 15 | 1,18 | 1,52 | | | | | | | | | | | | | | |
| 40 * 20 | 1,30 | 1,68 | 2,03 | 2,36 | | | | | | | | | | | | |
| 40 * 25 | 1,41 | 1,83 | 2,23 | 2,60 | | | | | | | | | | | | |
| 40 * 30 | 1,53 | 1,99 | 2,42 | 4,83 | | | | | | | | | | | | |
| 45 * 10 | 1,18 | 1,52 | | | | | | | | | | | | | | |
| 45 * 15 | 1,30 | 1,68 | | | | | | | | | | | | | | |
| 45 * 20 | 1,41 | 1,83 | | | | | | | | | | | | | | |
| 45 * 30 | 1,65 | 2,15 | | 3,07 | | | | | | | | | | | | |
| 50 * 10 | 1,30 | 1,68 | | | | | | | | | | | | | | |
| 50 * 15 | 1,41 | 1,83 | | | | | | | | | | | | | | |
| 50 * 20 | 1,53 | 1,99 | 2,42 | 2,83 | | | | | | | | | | | | |



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Rettangolo UNI-EN 10219 1-2:1999

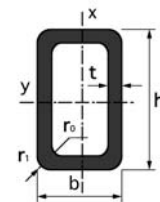
| t | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|-------|---|---|---|----|----|------|------|----|----|
| A(D) B | 1,5 | 2 | 2,5 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 12,5 | 14,2 | 16 | 20 |
| 50 * 25 | 1,65 | 2,15 | 2,62 | 3,07 | | | | | | | | | | | | |
| 50 * 30 | 1,77 | 2,31 | 2,82 | 3,30 | 4,20 | | | | | | | | | | | |
| 50 * 40 | 2,00 | 2,62 | 3,21 | 3,77 | 4,83 | | | | | | | | | | | |
| 60 * 10 | 1,53 | 1,99 | | | | | | | | | | | | | | |
| 60 * 15 | 1,65 | 2,15 | | | | | | | | | | | | | | |
| 60 * 20 | 1,77 | 2,31 | 2,82 | 3,30 | | | | | | | | | | | | |
| 60 * 25 | 1,89 | 2,46 | 3,01 | 3,54 | | | | | | | | | | | | |
| 60 * 30 | 2,00 | 2,62 | 3,21 | 3,77 | 4,83 | | | | | | | | | | | |
| 60 * 40 | 2,24 | 2,93 | 3,60 | 4,25 | 5,45 | 6,56 | 7,56 | | | | | | | | | |
| 60 * 50 | 2,47 | 3,25 | 3,99 | 4,72 | 6,08 | | | | | | | | | | | |
| 70 * 20 | 2,00 | 2,62 | 3,21 | | | | | | | | | | | | | |
| 70 * 30 | 2,24 | 2,93 | 3,60 | 4,25 | 5,45 | | | | | | | | | | | |
| 70 * 40 | 2,47 | 3,25 | 3,99 | 4,72 | 6,08 | 7,34 | 8,50 | | | | | | | | | |
| 70 * 50 | 2,71 | 3,56 | 4,39 | 5,19 | 6,71 | 8,13 | 9,44 | | | | | | | | | |
| 80 * 20 | 2,24 | 2,93 | | 4,25 | | | | | | | | | | | | |
| 80 * 25 | | | | 4,48 | | | | | | | | | | | | |
| 80 * 30 | 2,47 | 3,25 | 3,99 | 4,72 | 6,08 | | | | | | | | | | | |
| 80 * 40 | 2,71 | 3,56 | 4,39 | 5,19 | 6,71 | 8,13 | 9,44 | | | | | | | | | |
| 80 * 50 | 2,95 | 3,88 | 4,78 | 5,66 | 7,34 | 8,91 | 10,39 | | | | | | | | | |
| 80 * 60 | 3,18 | 4,19 | 5,17 | 6,13 | 7,97 | 9,70 | 11,33 | | | | | | | | | |
| 90 * 20 | 2,47 | 3,25 | | | | | | | | | | | | | | |
| 90 * 30 | 2,71 | 3,56 | 4,39 | 5,19 | 6,71 | | | | | | | | | | | |
| 90 * 40 | 2,95 | 3,88 | | 5,66 | 7,34 | 8,91 | | | | | | | | | | |
| 90 * 50 | 3,18 | 4,19 | | 6,13 | 7,97 | 9,70 | 11,33 | | | | | | | | | |



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Rettangolo UNI-EN 10219 1-2:1999

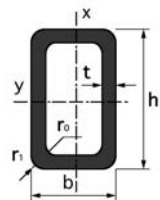
| A x B | t | | | | | | | | | | | | | | | |
|-----------|------|------|------|-------|-------|-------|-------|-------|-------|---|----|-------|-------|-------|----|----|
| | 1,5 | 2 | 2,5 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 12,5 | 14,2 | 16 | 20 |
| 90 * 60 | | | | | | | 12,27 | | | | | | | | | |
| 100 * 20 | 2,71 | 3,56 | | 5,19 | | | | | | | | | | | | |
| 100 * 30 | 2,95 | 3,88 | | 5,66 | 7,34 | | | | | | | | | | | |
| 100 * 40 | 3,18 | 4,19 | 5,17 | 6,13 | 7,97 | 9,70 | 11,33 | | | | | | | | | |
| 100 * 50 | 3,42 | 4,50 | 5,56 | 6,60 | 8,59 | 10,48 | 12,27 | | | | | | | | | |
| 100 * 60 | | 4,82 | 5,96 | 7,07 | 9,22 | 11,27 | 13,21 | 14,72 | 16,36 | | | | | | | |
| 100 * 80 | | 5,45 | | 8,01 | 10,48 | 12,04 | 15,10 | 16,92 | 18,87 | | | | | | | |
| 110 * 70 | | | | 8,01 | 10,48 | | | | | | | | | | | |
| 120 * 30 | | | | 6,60 | | | | | | | | | | | | |
| 120 * 40 | | 4,82 | | 7,07 | 9,22 | 11,27 | 13,21 | | | | | | | | | |
| 120 * 50 | | | | 7,54 | 9,85 | 12,05 | | | | | | | | | | |
| 120 * 60 | | 5,45 | | 8,01 | 10,48 | 12,84 | 15,10 | 16,92 | 18,87 | | | 25,56 | | | | |
| 120 * 80 | | 6,07 | 7,53 | 8,96 | 11,73 | 14,41 | 16,98 | 19,12 | 21,38 | | | 28,70 | | | | |
| 120 * 100 | | | | 12,99 | 15,98 | 18,86 | 21,32 | 23,89 | | | | | | | | |
| 140 * 50 | | | | 8,48 | | | | | | | | 25,56 | | | | |
| 140 * 60 | | 6,07 | | 8,96 | 11,73 | 14,41 | 16,98 | 19,12 | 21,38 | | | 27,13 | | | | |
| 140 * 70 | | | | 9,43 | 12,36 | 15,19 | 17,92 | 20,22 | 22,64 | | | 28,70 | | | | |
| 140 * 80 | | | | 9,90 | 12,99 | 15,98 | 18,86 | 21,32 | 23,89 | | | 25,56 | | | | |
| 150 * 50 | | 6,07 | | 8,96 | 11,73 | 14,41 | 16,98 | 19,12 | 21,38 | | | 28,70 | | | | |
| 150 * 70 | | | | 9,90 | 12,99 | 15,98 | 18,86 | 21,32 | 23,89 | | | | | | | |
| 150 * 75 | | | | 10,13 | 13,30 | 16,37 | 19,34 | 21,87 | 24,52 | | | | | | | |
| 150 * 100 | | | | 11,31 | 17,87 | 18,33 | 21,69 | 24,61 | 27,66 | | | 33,41 | 37,72 | 38,88 | | |
| 160 * 80 | | | | 10,84 | 14,25 | 17,55 | 20,75 | 23,51 | 26,41 | | | 31,84 | 35,83 | 36,92 | | |
| 160 * 90 | | | | | | 18,33 | 21,69 | 24,61 | 27,66 | | | 33,41 | 37,72 | 38,88 | | |



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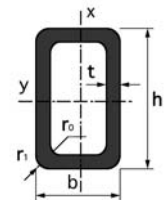
| A x B | t | | | | | | | | | | | | | | | | |
|----------|-----|---|-----|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|----|----|--|
| | 1,5 | 2 | 2,5 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 12,5 | 14,2 | 16 | 20 | |
| 160*120 | | | | 12,72 | 16,76 | 20,69 | 24,52 | 27,91 | 31,43 | | 38,12 | 43,37 | 44,77 | | | | |
| 160*140 | | | | 13,67 | 18,01 | 22,26 | 26,40 | 30,11 | 33,94 | | | | | | | | |
| 180 * 60 | | | | 10,84 | 14,25 | | 20,75 | | | | | | | | | | |
| 180 * 80 | | | | 11,78 | 15,50 | 19,12 | 22,63 | 25,71 | 28,92 | | 34,98 | 39,60 | 40,84 | | | | |
| 180 *100 | | | | 12,72 | 16,76 | 20,69 | 24,52 | 27,91 | 31,43 | 34,83 | 38,12 | 43,37 | 44,77 | | | | |
| 180 *120 | | | | 13,67 | 18,01 | 22,26 | 26,40 | 30,11 | 33,94 | | 41,26 | 47,14 | 48,69 | | | | |
| 180 *140 | | | | 14,61 | 19,27 | 23,83 | | 32,32 | 36,45 | | | | | | | | |
| 180 *150 | | | | | | | 29,23 | | | | | | | | | | |
| 200 * 80 | | | | 12,72 | 16,76 | 20,69 | 24,52 | | 31,43 | | 41,26 | 47,14 | 48,69 | | | | |
| 200 *100 | | | | 13,67 | 18,01 | 22,26 | 26,40 | 30,11 | 33,94 | | 44,40 | 50,91 | 52,62 | | | | |
| 200 *120 | | | | 14,61 | 19,27 | 23,83 | 28,28 | 32,31 | 36,45 | | 49,11 | 56,56 | 58,51 | | | | |
| 200 *150 | | | | 16,02 | 21,15 | 26,18 | 31,11 | 35,60 | 40,22 | | 50,68 | 58,44 | 60,47 | 67,12 | | | |
| 200 *160 | | | | 16,49 | 21,78 | 26,97 | 32,05 | 36,70 | 41,48 | | 47,54 | 54,67 | 56,54 | 62,66 | | | |
| 220 *120 | | | | | | | 30,17 | 34,50 | 38,97 | | | | | | | | |
| 220 *140 | | | | | | | 32,05 | 36,70 | 41,48 | | 49,11 | 56,56 | 58,61 | 64,89 | | | |
| 250 *100 | | | | 16,02 | 21,15 | 26,18 | 31,11 | 35,60 | 40,22 | | 56,96 | 65,98 | 68,32 | 76,04 | | | |
| 250 *150 | | | | | 24,29 | 30,11 | 35,82 | 41,10 | 46,50 | | 64,81 | 75,40 | 78,13 | 87,19 | | | |
| 250 *200 | | | | | 27,43 | 34,03 | 40,53 | 46,59 | 52,78 | | 56,96 | 65,98 | 68,32 | 76,04 | | | |
| 260 *140 | | | | | | | 35,82 | | 46,50 | | 63,24 | 73,51 | 76,17 | 84,96 | | | |
| 260 *180 | | | | | | | 39,59 | | 51,53 | | 56,96 | 65,98 | 68,32 | 76,04 | | | |
| 300 *100 | | | | | 24,29 | 30,11 | 35,82 | | 46,50 | | 64,81 | 75,40 | 78,13 | 87,19 | | | |
| 300 *150 | | | | | 27,43 | 34,03 | 40,53 | | 52,78 | | 72,66 | 84,82 | 87,94 | 98,33 | | | |
| 300 *200 | | | | | 30,57 | 37,96 | 45,24 | 52,09 | 59,06 | | 75,80 | 88,59 | 91,87 | 102,79 | | | |
| 300 *220 | | | | | | 39,53 | 47,12 | 54,29 | 61,57 | 80,05 | 88,36 | 103,66 | 107,57 | 120,63 | | | |



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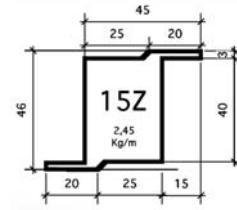
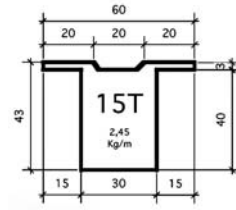
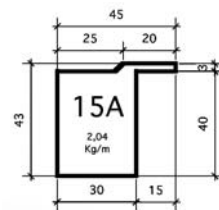
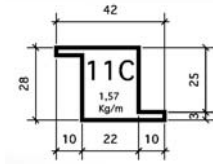
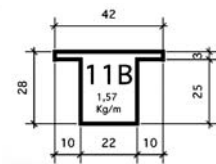
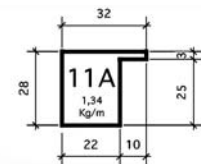
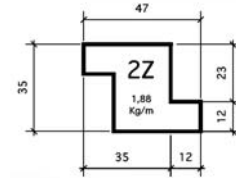
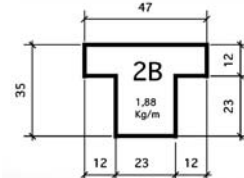
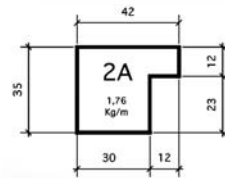
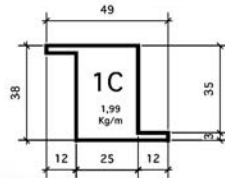
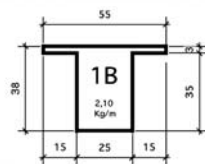
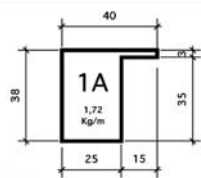
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| A x B | t | | | | | | | | | | | | | | | |
|---------|-----|---|-----|---|---|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| | 1,5 | 2 | 2,5 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 12,5 | 14,2 | 16 | 20 |
| 400*200 | | | | | | 45,81 | 54,66 | 63,08 | 71,62 | 94,18 | 104,06 | 122,50 | 127,19 | 142,92 | 159,16 | 193,74 |
| 400*300 | | | | | | | 64,08 | 74,07 | 84,18 | 94,18 | 104,06 | 122,50 | 127,19 | 142,92 | 159,16 | 193,74 |
| 450*250 | | | | | | | 64,08 | 74,07 | 84,18 | 94,18 | 104,06 | 122,50 | 127,19 | 142,92 | 159,16 | 193,74 |
| 500*200 | | | | | | | 64,08 | 74,07 | 84,18 | 108,31 | 119,76 | 141,34 | 146,82 | 165,21 | 184,28 | 225,14 |
| 500*300 | | | | | | | | | 96,74 | | | | | | | |

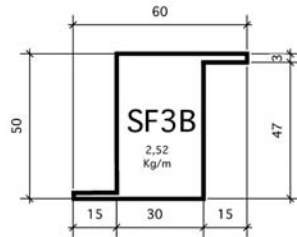
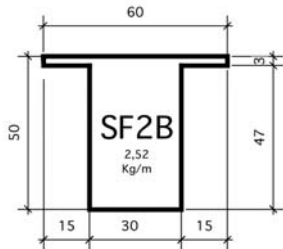
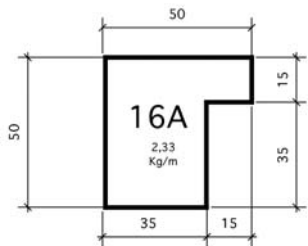
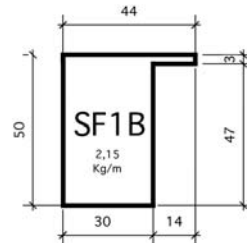
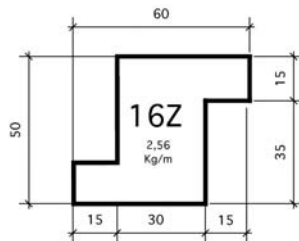
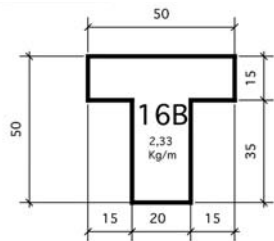
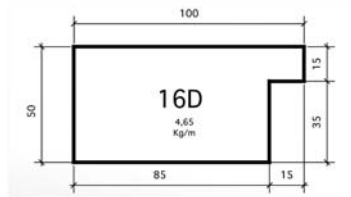


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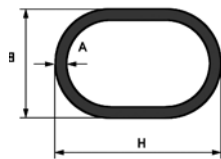


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| H x B | A | | |
|---------|------|------|------|
| | 1,5 | 2 | 3 |
| 30 x 15 | 0,86 | 1,13 | |
| 36 x 18 | 1,05 | 1,38 | |
| 40 x 20 | 1,12 | 1,47 | |
| 50 x 25 | 1,50 | 1,95 | 2,86 |
| 60 x 30 | 1,87 | 2,47 | 2,63 |



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| H x B | A | | |
|---------|------|------|------|
| | 1,5 | 2 | 3 |
| 30 x 15 | 0,86 | 1,13 | |
| 40 x 22 | 1,18 | 1,55 | |
| 60 x 30 | 1,78 | 2,35 | 3,45 |

