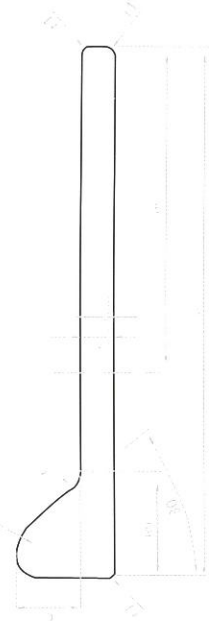
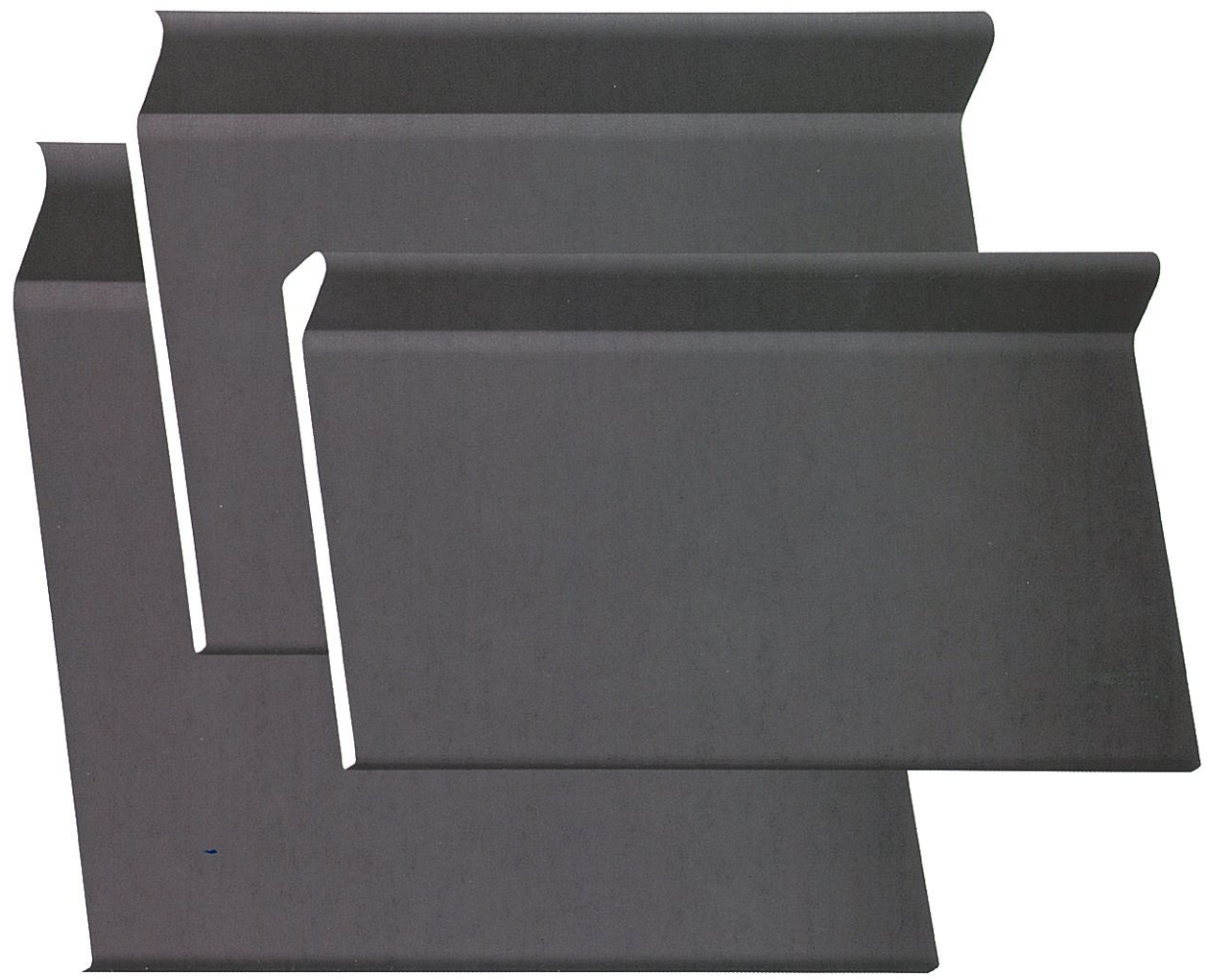


Dimension : EN 10067 1996
Tolerance : EN 10067 1996



DIMENSION, WEIGHTS AND STATIC PARAMETERS FOR BULB FLATS

| SIZE | b | t | c | r | section cm ² | metric weight kg/m | surface area m ² /m | dx cm | Ixx cm ⁴ | Wxx cm ³ |
|-------|-------------|--------------------|------|------|----------------------------|--------------------------|--------------------------------------|----------|------------------------|------------------------|
| 60 x | 60 ±1.5 | 4 +0.7 -0.3 | 13 | 3.5 | 3.58 | 2.81 | 0.146 | 3.82 | 12.2 | 3.20 |
| 60 x | 60 ±1.5 | 5 | | | 4.18 | 3.28 | 0.148 | 3.70 | 14.4 | 3.89 |
| 60 x | 60 ±1.5 | 6 | | | 4.78 | 3.75 | 0.150 | 3.62 | 16.4 | 4.55 |
| 80 x | 80 ±1.5 | 5 +0.7 -0.3 | 14 | 4 | 5.41 | 4.25 | 0.189 | 4.90 | 33.87 | 6.91 |
| 80 x | 80 ±1.5 | 6 | | | 6.21 | 4.88 | 0.191 | 4.78 | 38.7 | 8.15 |
| 80 x | 80 ±1.5 | 7 | | | 7.00 | 5.50 | 0.194 | 4.69 | 43.3 | 9.24 |
| 80 x | 80 ±1.5 | 8 | | | 7.80 | 6.12 | 0.196 | 4.62 | 48.0 | 10.39 |
| 100 x | 100 ±1.5 | 6 +0.7 -0.3 | 15.5 | 4.5 | 7.74 | 6.08 | 0.234 | 5.98 | 76.1 | 12.7 |
| 100 x | 100 ±1.5 | 7 | | | 8.74 | 6.86 | 0.236 | 5.87 | 85.3 | 14.5 |
| 100 x | 100 ±1.5 | 8 | | | 9.74 | 7.65 | 0.238 | 5.78 | 94.3 | 16.3 |
| 120 x | 120 ±1.5 | 6 +0.7 -0.3 | 17 | 5 | 9.32 | 7.32 | 0.276 | 7.21 | 133 | 18.5 |
| 120 x | 120 ±1.5 | 7 | | | 10.52 | 8.26 | 0.278 | 7.07 | 149 | 21.0 |
| 120 x | 120 ±1.5 | 8 | | | 11.72 | 9.2 | 0.280 | 6.96 | 165 | 23.6 |
| 140 x | 140 ±2 | 7 +1 -0.3 | 19 | 5.5 | 12.43 | 9.75 | 0.320 | 8.32 | 241 | 29.0 |
| 140 x | 140 ±2 | 8 | | | 13.83 | 10.85 | 0.322 | 8.18 | 266 | 32.5 |
| 140 x | 140 ±2 | 9 | | | 15.2 | 11.9 | 0.324 | 8.07 | 291 | 36.0 |
| 160 x | 160 ±2 | 7 +1 -0.3 | 22 | 6 | 14.6 | 11.46 | 0.365 | 9.55 | 373 | 38.6 |
| 160 x | 160 ±2 | 8 | | | 16.2 | 12.72 | 0.367 | 9.50 | 411 | 43.9 |
| 160 x | 160 ±2 | 9 | | | 17.8 | 13.97 | 0.369 | 9.37 | 449 | 47.9 |
| 180 x | 180 ±2 | 8 +1 -0.3 | 25 | 7 | 18.86 | 14.8 | 0.411 | 10.89 | 609 | 55.9 |
| 180 x | 180 ±2 | 9 | | | 20.86 | 16.22 | 0.413 | 10.73 | 664 | 61.8 |
| 180 x | 180 ±2 | 10 | | | 22.46 | 17.63 | 0.415 | 10.59 | 717 | 67.7 |
| 180 x | 180 ±2 | 11 | | | 24.26 | 19.04 | 0.417 | 10.47 | 770 | 73.5 |
| 200 x | 200 ±3.0 | 9 +1 -0.4 | 28 | 8 | 23.66 | 18.57 | 0.457 | 12.12 | 942 | 77.7 |
| 200 x | 200 ±3.0 | 10 | | | 25.66 | 20.14 | 0.459 | 11.96 | 1017 | 85.1 |
| 200 x | 200 ±3.0 | 11 | | | 27.66 | 21.71 | 0.461 | 11.82 | 1091 | 92.3 |
| 200 x | 200 ±3.0 | 12 | | | 29.66 | 23.28 | 0.463 | 11.69 | 1164 | 99.5 |
| 220 x | 220 ±3.0 | 10 +1 -0.4 | 31 | 9 | 29 | 22.77 | 0.503 | 13.35 | 1396 | 105 |
| 220 x | 220 ±3.0 | 11 | | | 31.2 | 24.5 | 0.506 | 13.19 | 1496 | 114 |
| 220 x | 220 ±3.0 | 12 | | | 33.4 | 26.22 | 0.507 | 13.04 | 1595 | 122 |
| 240 x | 240 ±3.0 | 10 +1 -0.4 | 34 | 10 | 32.49 | 25.5 | 0.547 | 14.77 | 1865 | 126 |
| 240 x | 240 ±3.0 | 11 | | | 34.89 | 27.39 | 0.549 | 14.58 | 1997 | 137 |
| 240 x | 240 ±3.0 | 12 | | | 37.29 | 29.27 | 0.551 | 14.42 | 2127 | 148 |
| 260 x | 260 ±3.0 | 10 +1 -0.4 | 37 | 11 | 36.11 | 28.35 | 0.591 | 16.22 | 2434 | 150 |
| 260 x | 260 ±3.0 | 11 | | | 38.71 | 30.39 | 0.593 | 16 | 2605 | 163 |
| 260 x | 260 ±3.0 | 12 | | | 41.31 | 32.43 | 0.595 | 15.81 | 2774 | 175 |
| 280 x | 280 ±3.0 | 11 +1 -0.4 | 40 | 12 | 42.68 | 33.5 | 0.637 | 17.44 | 3333 | 191 |
| 280 x | 280 ±3.0 | 12 | | | 45.48 | 35.7 | 0.639 | 17.23 | 3647 | 206 |
| 280 x | 280 ±3.0 | 13 | | | 48.28 | 37.9 | 0.641 | 17.04 | 3757 | 221 |
| 300 x | 300 ±3.0 | 11 +1.2 -0.4 | 43 | 13 | 46.78 | 36.7 | 0.681 | 18.9 | 4192 | 222 |
| 300 x | 300 ±3.0 | 12 | | | 49.79 | 39.09 | 0.683 | 18.7 | 4459 | 239 |
| 300 x | 300 ±3.0 | 13 | | | 52.79 | 41.44 | 0.685 | 18.45 | 4722 | 256 |
| 320 x | 320 ±4.0 | 12 +1.2 -0.4 | 46 | 14 | 54.25 | 42.6 | 0.728 | 20.12 | 5525 | 275 |
| 320 x | 320 ±4.0 | 13 | | | 57.45 | 45.09 | 0.73 | 19.89 | 5849 | 294 |
| 320 x | 320 ±4.0 | 14 | | | 60.85 | 47.6 | 0.732 | 19.68 | 6168 | 313 |
| 340 | 340 ±4.0 | 12 +1.2 -0.4 | 49 | 15 | 58.84 | 46.20 | 0.772 | 21.69 | 6757 | 313 |
| 340 | 340 ±4.0 | 13 | | | 62.24 | 48.86 | 0.774 | 21.34 | 7152 | 335 |
| 340 | 340 ±4.0 | 14 | | | 65.54 | 51.50 | 0.776 | 21.10 | 7540 | 357 |
| 370 | 370 ±4.0 | 13 +1.2 -0.4 | 53.5 | 16.5 | 69.70 | 54.70 | 0.840 | 23.54 | 9469 | 402 |
| 370 | 370 ±4.0 | 14 | | | 73.40 | 57.60 | 0.842 | 23.29 | 9980 | 429 |
| 370 | 370 ±4.0 | 15 | | | 77.10 | 60.50 | 0.844 | 23.06 | 10483 | 456 |
| 400 | 400 ±4.0 | 14 +1.2 -0.4 | 58 | 18 | 81.48 | 63.96 | 0.908 | 25.49 | 12924 | 507 |
| 400 | 400 ±4.0 | 15 | | | 85.48 | 67.10 | 0.910 | 25.24 | 13573 | 538 |
| 400 | 400 ±4.0 | 16 | | | 89.48 | 70.20 | 0.912 | 25.00 | 14211 | 568 |
| 430 | 430 ±4.0 | 14 +1.2 -0.4 | 62.5 | 19.5 | 89.70 | 70.60 | 0.975 | 27.70 | 16460 | 594 |
| 430 | 430 ±4.0 | 15 | | | 94.19 | 73.90 | 0.976 | 27.46 | 17249 | 629 |
| 430 | 430 ±4.0 | 17 | | | 102.79 | 80.70 | 0.980 | 26.95 | 18853 | 700 |
| 430 | 430 ±4.0 | 19 | | | 111.39 | 87.40 | 0.984 | 26.53 | 20413 | 770 |
| 430 | 430 ±4.0 | 20 | | | 115.00 | 90.80 | 0.986 | 26.30 | 21180 | 804 |



* For special sizes contact the mill please