**Parameters of GB/T9945-2012 Hot Rolled Bulb Flats**

|  |  |  |  |
| --- | --- | --- | --- |
| Model  | Nominal Dimension mm | Sectional Area cm2 | Nominal Weight kg/m |
| b | t | h | r1 | r |
| 80×5 | 80 | 5 | 19 | 4 | ≦1.5 | 5.41 | 4.25 |
| 80×6 | 80 | 6 | 20 | 4 | ≦2 | 6.21 | 4.88 |
| 100×7 | 100 | 7 | 22.5 | 4.5 | ≦2 | 8.74 | 6.86 |
| 100×8 | 100 | 8 | 23.5 | 4.5 | ≦2 | 9.74 | 7.65 |
| 120×6 | 120 | 6 | 23 | 5 | ≦2 | 9.32 | 7.32 |
| 120×7 | 120 | 7 | 24 | 5 | ≦2 | 10.52 | 8.26 |
| 120×8 | 120 | 8 | 25 | 5 | ≦2 | 11.72 | 9.20 |
| 140×7 | 140 | 7 | 26 | 5.5 | ≦2 | 12.43 | 9.75 |
| 140×8 | 140 | 8 | 27 | 5.5 | ≦2 | 13.93 | 10.85 |
| 140×10 | 140 | 10 | 29 | 5.5 | ≦3 | 16.63 | 13.05 |
| 160×7 | 160 | 7 | 29 | 6 | ≦2 | 14.60 | 11.46 |
| 160×8 | 160 | 8 | 30 | 6 | ≦2 | 16.20 | 12.72 |
| 160×9 | 160 | 9 | 31 | 6 | ≦2 | 17.80 | 13.97 |
| 160×11 | 160 | 11 | 33 | 6 | ≦3 | 21.00 | 16.49 |
| 180×8 | 180 | 8 | 33 | 7 | ≦2 | 18.86 | 14.80 |
| 180×9 | 180 | 19 | 34 | 7 | ≦2 | 20.66 | 16.22 |
| 180×10 | 180 | 10 | 35 | 7 | ≦3 | 22.46 | 17.63 |
| 180×11 | 180 | 11 | 36 | 7 | ≦3 | 24.26 | 19.04 |
| 200×9 | 200 | 9 | 37 | 8 | ≦2 | 23.66 | 18.57 |
| 200×10 | 200 | 10 | 38 | 8 | ≦3 | 25.66 | 20.14 |
| 200×11 | 200 | 11 | 39 | 8 | ≦3 | 27.66 | 21.71 |
| 200×12 | 200 | 12 | 40 | 8 | ≦3 | 29.66 | 23.28 |
| 220×10 | 220 | 10 | 41 | 9 | ≦3 | 29.00 | 22.77 |
| 220×11 | 220 | 11 | 42 | 9 | ≦3 | 31.20 | 24.50 |
| 220×12 | 220 | 12 | 43 | 9 | ≦3 | 33.40 | 26.22 |
| 240×10 | 240 | 10 | 44 | 10 | ≦3 | 32.49 | 25.50 |
| 240×11 | 240 | 11 | 45 | 10 | ≦3 | 34.89 | 27.39 |
| 240×12 | 240 | 12 | 46 | 10 | ≦3 | 37.29 | 29.27 |
| 260×10 | 260 | 10 | 47 | 11 | ≦3 | 36.11 | 28.35 |
| 260×11 | 260 | 11 | 48 | 11 | ≦3 | 38.71 | 30.39 |
| 260×12 | 260 | 12 | 49 | 11 | ≦3 | 41.31 | 32.43 |
| 280×11 | 280 | 11 | 51 | 12 | ≦3 | 42.68 | 33.50 |
| 280×12 | 280 | 12 | 52 | 12 | ≦3 | 45.48 | 35.70 |
| 280×13 | 280 | 13 | 53 | 12 | ≦3 | 48.28 | 37.90 |
| 300×11 | 300 | 11 | 54 | 13 | ≦3 | 46.78 | 36.70 |
| 300×12 | 300 | 12 | 55 | 13 | ≦3 | 49.79 | 39.09 |
| 300×13 | 300 | 13 | 56 | 13 | ≦3 | 52.79 | 41.44 |
| 320×12 | 320 | 12 | 58 | 14 | ≦3 | 54.25 | 42.60 |
| 320×13 | 320 | 13 | 59 | 14 | ≦3 | 57.25 | 45.09 |
| 320×14 | 320 | 14 | 60 | 14 | ≦4 | 60.85 | 47.60 |
| 340×12 | 340 | 12 | 61 | 15 | ≦3 | 58.84 | 46.20 |
| 340×13 | 340 | 13 | 62 | 15 | ≦3 | 62.24 | 48.86 |
| 340×14 | 340 | 14 | 63 | 15 | ≦4 | 65.54 | 51.50 |
| 370×13 | 370 | 13 | 66.5 | 16.5 | ≦3 | 69.70 | 54.70 |
| 370×14 | 370 | 14 | 67.5 | 16.5 | ≦4 | 73.40 | 57.60 |
| 370×15 | 370 | 15 | 68.5 | 16.5 | ≦4 | 77.10 | 60.50 |
| 400×14 | 400 | 14 | 72 | 18 | ≦4 | 81.48 | 63.96 |
| 400×15 | 400 | 15 | 73 | 18 | ≦4 | 85.48 | 67.10 |
| 400×16 | 400 | 16 | 74 | 18 | ≦4 | 89.48 | 70.20 |
| 430×14 | 430 | 14 | 76.5 | 19.5 | ≦4 | 89.70 | 70.60 |
| 430×15 | 430 | 15 | 77.5 | 19.5 | ≦4 | 94.19 | 73.90 |
| 430×17 | 430 | 17 | 79.5 | 19.5 | ≦4 | 102.79 | 80.70 |
| 430×19 | 430 | 19 | 81.5 | 19.5 | ≦4 | 111.39 | 87.40 |
| 430×20 | 430 | 20 | 82.5 | 19.5 | ≦4 | 115.00 | 90.80 |

Tolerance on Dimensions

|  |  |
| --- | --- |
| Nominal Sizes (mm) | Allowable Deviation (mm) |
| b | t | h |
| 80~120 | ±1.5 | +0.7-0.3 | ±0.5 |
| >120~180 | ±2.0 | +1.0-0.3 | ±0.8 |
| >180~300 | ±3.0 | +1.1-0.3 | ±1.0 |
| >300~430 | ±4.0 | +1.3-0.3 | ±1.1 |