

ANNEXURE - VI
WEIGHT OF STRUCTURAL STEEL SECTION
A : EQUAL ANGLES

| Size x B x t mm | A in | Sectional area (a) cm ² | Weight per metre (w) kg | Size x B x t mm | A in | Sectional area (a) cm ² | Weight per metre (w) kg |
|-----------------------|---------|--|-------------------------------|-----------------------|---------|--|-------------------------------|
| 20 x 20 x 3 | | 1.12 | 0.9 | 70 x 70 x 5 | | 6.77 | 5.3 |
| 20 x 20 x 4 | | 1.45 | 1.1 | 70 x 70 x 6 | | 8.06 | 6.3 |
| | | | | 70 x 70 x 8 | | 10.58 | 8.3 |
| 25 x 25 x 3 | | 1.41 | 1.1 | 70 x 70 x 10 | | 13.02 | 10.2 |
| 25 x 25 x 4 | | 1.84 | 1.4 | | | | |
| 25 x 25 x 5 | | 2.25 | 1.8 | 75 x 75 x 5 | | 7.27 | 5.7 |
| | | | | 75 x 75 x 6 | | 8.66 | 6.8 |
| 30 x 30 x 3 | | 1.73 | 1.4 | 75 x 75 x 8 | | 11.38 | 8.9 |
| 30 x 30 x 4 | | 2.26 | 1.8 | 75 x 75 x 10 | | 14.02 | 11.0 |
| 30 x 30 x 5 | | 2.77 | 2.2 | | | | |
| | | | | 80 x 80 x 6 | | 9.29 | 7.3 |
| 35 x 35 x 3 | | 2.03 | 1.6 | 80 x 80 x 8 | | 12.21 | 9.6 |
| 35 x 35 x 4 | | 2.66 | 2.1 | 80 x 80 x 10 | | 15.05 | 11.8 |
| 35 x 35 x 5 | | 3.27 | 2.6 | 80 x 80 x 12 | | 17.81 | 14.0 |
| 35 x 35 x 6 | | 3.86 | 3.0 | | | | |
| | | | | 90 x 90 x 6 | | 10.47 | 8.2 |
| 40 x 40 x 3 | | 2.34 | 1.8 | 90 x 90 x 8 | | 13.79 | 10.8 |
| 40 x 40 x 4 | | 3.07 | 2.4 | 90 x 90 x 10 | | 17.03 | 13.4 |
| 40 x 40 x 5 | | 3.78 | 3.0 | 90 x 90 x 12 | | 20.19 | 15.8 |
| 40 x 40 x 6 | | 4.47 | 3.5 | | | | |
| | | | | 100 x 100 x 6 | | 11.67 | 9.2 |
| 45 x 45 x 3 | | 2.64 | 2.1 | 100 x 100 x 8 | | 15.39 | 12.1 |
| 45 x 45 x 4 | | 3.47 | 2.7 | 100 x 100 x 10 | | 19.03 | 14.9 |

| | | | | | |
|--------------|-------|-----|----------------|-------|------|
| 45 x 45 x 5 | 4.28 | 3.4 | 100 x 100 x 12 | 22.59 | 17.7 |
| 45 x 45 x 6 | 5.07 | 4.0 | | | |
| | | | 110 x 110 x 8 | 17.02 | 13.4 |
| 50 x 50 x 3 | 2.95 | 2.3 | 110 x 110 x 10 | 21.06 | 16.5 |
| 50 x 50 x 4 | 3.88 | 3.0 | 110 x 110 x 12 | 25.02 | 19.6 |
| 50 x 50 x 5 | 4.74 | 3.8 | 110 x 110 x 15 | 36.81 | 24.2 |
| 50 x 50 x 6 | 5.68 | 4.5 | | | |
| | | | 130 x 130 x 8 | 20.22 | 15.9 |
| 55 x 55 x 5 | 5.27 | 4.1 | 130 x 130 x 10 | 25.06 | 19.7 |
| 55 x 55 x 6 | 6.26 | 4.9 | 130 x 130 x 12 | 29.82 | 23.4 |
| 55 x 55 x 8 | 8.18 | 6.4 | 130 x 130 x 15 | 36.81 | 28.9 |
| 55 x 55 x 10 | 10.02 | 7.9 | | | |
| | | | 150 x 150 x 10 | 29.03 | 22.8 |
| 60 x 60 x 5 | 5.75 | 4.5 | 150 x 150 x 12 | 34.59 | 27.2 |
| 60 x 60 x 6 | 6.84 | 5.4 | 150 x 150 x 15 | 42.78 | 33.6 |
| 60 x 60 x 8 | 8.96 | 7.0 | 150 x 150 x 18 | 50.79 | 39.9 |
| 60 x 60 x 10 | 11.00 | 8.6 | | | |
| | | | 200 x 200 x 12 | 46.61 | 36.6 |
| 65 x 65 x 5 | 6.25 | 4.9 | 200 x 200 x 15 | 57.8 | 45.4 |
| 65 x 65 x 6 | 7.44 | 5.8 | 200 x 200 x 18 | 68.81 | 54.0 |
| 65 x 65 x 8 | 9.76 | 7.7 | 200 x 200 x 25 | 93.8 | 73.6 |
| 65 x 65 x 10 | 12.00 | 9.4 | | | |

B : UNEQUAL ANGLES

| Size x B x t mm | A in | Sectional area (a) cm ² | Weight per metre (w) kg | Size x B x t mm | A in | Sectional area (a) cm ² | Weight per metre (w) kg |
|-----------------------|---------|--|-------------------------------|-----------------------|---------|--|-------------------------------|
| 30 x 20 x 3 | | 1.41 | 1.1 | 100 x 65 x 6 | | 9.55 | 7.5 |
| 30 x 20 x 4 | | 1.84 | 1.4 | 100 x 65 x 8 | | 12.57 | 9.9 |
| 30 x 20 x 5 | | 2.25 | 1.8 | 100 x 65 x 10 | | 15.51 | 12.2 |
| 40 x 25 x 3 | | 1.88 | 1.5 | 100 x 75 x 6 | | 10.14 | 8.0 |
| 40 x 25 x 4 | | 2.46 | 1.9 | 100 x 75 x 8 | | 13.36 | 10.5 |
| 40 x 25 x 5 | | 3.02 | 2.4 | 100 x 75 x 10 | | 16.50 | 13.0 |
| 40 x 25 x 6 | | 3.56 | 2.8 | 100 x 75 x 12 | | 19.56 | 15.4 |
| 50 x 30 x 3 | | 2.34 | 1.8 | 125 x 75 x 6 | | 11.66 | 9.2 |
| 50 x 30 x 4 | | 3.07 | 2.4 | 125 x 75 x 8 | | 15.38 | 12.1 |
| 50 x 30 x 5 | | 3.78 | 3.0 | 125 x 75 x 10 | | 19.02 | 14.9 |
| 50 x 30 x 6 | | 4.47 | 3.5 | 125 x 95 x 6 | | 12.86 | 10.1 |
| 60 x 40 x 5 | | 4.76 | 3.7 | 125 x 95 x 8 | | 16.98 | 13.3 |
| 60 x 40 x 6 | | 5.65 | 4.4 | 125 x 95 x 10 | | 21.02 | 16.5 |
| 60 x 40 x 8 | | 7.37 | 5.8 | 125 x 95 x 12 | | 24.98 | 19.6 |
| 65 x 45 x 5 | | 5.26 | 4.1 | 150 x 75 x 8 | | 17.42 | 13.7 |
| 65 x 45 x 6 | | 6.25 | 4.9 | 150 x 75 x 10 | | 21.56 | 16.9 |
| 65 x 45 x 8 | | 8.17 | 6.4 | 150 x 75 x 12 | | 25.62 | 20.1 |
| 70 x 45 x 5 | | 5.52 | 4.3 | 150 x 115 x 10 | | 20.58 | 16.2 |
| 70 x 45 x 6 | | 6.56 | 5.2 | 150 x 115 x 12 | | 25.52 | 20.0 |
| 70 x 45 x 8 | | 8.58 | 6.7 | 150 x 115 x 15 | | 30.38 | 23.8 |

| | | | | | |
|--------------|-------|------|----------------|-------|------|
| 70 x 45 x 10 | 10.52 | 8.3 | 150 x 115 x 18 | 37.52 | 29.5 |
| 75 x 50 x 5 | 6.02 | 4.7 | 200 x 100 x 10 | 29.03 | 22.8 |
| 75 x 50 x 6 | 7.16 | 5.6 | 200 x 100 x 12 | 34.59 | 27.2 |
| 75 x 50 x 8 | 9.38 | 7.4 | 200 x 100 x 15 | 42.78 | 33.6 |
| 75 x 50 x 10 | 11.52 | 9.0 | | | |
| | | | 200 x 150 x 10 | 34.00 | 26.7 |
| 80 x 50 x 5 | 6.27 | 4.9 | 200 x 150 x 12 | 40.56 | 31.8 |
| 80 x 50 x 6 | 7.46 | 5.9 | 200 x 150 x 15 | 50.25 | 39.4 |
| 80 x 50 x 8 | 9.78 | 7.7 | 200 x 150 x 18 | 59.76 | 46.9 |
| 80 x 50 x 10 | 12.02 | 9.4 | | | |
| 90 x 60 x 5 | 8.65 | 6.8 | | | |
| 90 x 60 x 6 | 11.37 | 8.9 | | | |
| 90 x 60 x 8 | 14.01 | 11.0 | | | |
| 90 x 60 x 10 | 16.57 | 13.0 | | | |

C : ROLLED STEEL REAMS

| Size D | B x in mm | Flange thickness t_f mm | Web thickness T_w mm | Sectional area (a) mm | Weigh t per metre (w) kg |
|-----------|-----------------|------------------------------------|---------------------------------|--------------------------------|--------------------------------------|
| 50 x 150 | | 4.6 | 3.0 | 9.01 | 7.1 |
| 50 x 175 | | 4.8 | 3.2 | 10.28 | 8.1 |
| 60 x 200 | | 5.0 | 3.4 | 12.64 | 9.9 |
| 80 x 225 | | 5.0 | 3.7 | 16.28 | 12.8 |
| 50 x 75 | | 5.0 | 3.7 | 7.71 | 6.1 |
| 50 x 100 | | 6.4 | 4.0 | 10.21 | 8.0 |
| 75 x 125 | | 6.5 | 4.4 | 15.12 | 11.9 |
| 80 x 150 | | 6.8 | 4.8 | 18.08 | 14.2 |
| 90 x 175 | | 6.9 | 5.1 | 21.30 | 16.7 |
| 100 x 200 | | 7.3 | 5.4 | 25.27 | 19.88 |
| 100 x 225 | | 8.6 | 5.8 | 29.92 | 23.5 |
| 125 x 250 | | 8.2 | 6.1 | 35.53 | 27.9 |
| 140 x 275 | | 8.8 | 6.4 | 42.02 | 33.0 |
| 150 x 300 | | 9.4 | 6.7 | 48.08 | 37.7 |
| 165 x 325 | | 9.8 | 7.0 | 54.90 | 43.1 |
| 165 x 350 | | 11.4 | 7.4 | 63.01 | 49.5 |
| 165 x 400 | | 12.5 | 8.0 | 72.43 | 56.9 |
| 170 x 450 | | 13.4 | 8.6 | 83.14 | 65.3 |
| 180 x 500 | | 14.1 | 9.2 | 95.50 | 75.0 |

| Size | Flange | Web | Sectional | Weight |
|-----------|----------------|----------------|-----------|--------|
| D | thickness | thickness | area | t per |
| B x | t _f | T _w | (a) | metre |
| in | mm | mm | mm | (w) |
| mm | | | | kg |
| 190 x 550 | 15.0 | 9.9 | 109.97 | 86.3 |
| 210 x 600 | 15.5 | 10.5 | 126.69 | 99.5 |
| 75 x 100 | 7.2 | 4.0 | 14.60 | 11.5 |
| 75 x 125 | 7.6 | 4.4 | 16.60 | 13.0 |
| 80 x 150 | 7.6 | 4.8 | 19.00 | 14.9 |
| 90 x 175 | 8.6 | 5.5 | 24.62 | 19.3 |
| 100 x 200 | 10.8 | 5.7 | 32.33 | 25.4 |
| 110 x 225 | 11.8 | 6.5 | 39.72 | 31.2 |
| 125 x 250 | 12.5 | 6.9 | 47.55 | 37.3 |
| 140 x 300 | 12.4 | 7.5 | 56.26 | 44.2 |
| 140 x 350 | 14.2 | 8.1 | 66.71 | 52.4 |
| 140 x 400 | 16.0 | 8.9 | 78.46 | 61.6 |
| 150 x 450 | 17.4 | 9.4 | 92.27 | 72.4 |

Available in lengths from 6.5 metres to 13.5 metres rising by 250 mm.

| Size | Flange | Web | Sectional | Weight |
|-----------|----------------|----------------|-----------|--------|
| D | thickness | thickness | area | t per |
| B x | t _f | T _w | (a) | metre |
| in | mm | mm | mm | (w) |
| mm | | | | kg |
| 180 x 500 | 17.2 | 10.2 | 110.74 | 86.9 |
| 190 x 550 | 19.3 | 11.2 | 132.11 | 103.7 |
| 210 x 600 | 20.8 | 12.0 | 156.21 | 122.6 |
| 100 x 150 | 7.0 | 5.4 | 21.67 | 17.0 |
| 125 x 175 | 7.4 | 5.8 | 28.11 | 22.1 |
| 140 x 200 | 9.0 | 6.1 | 36.71 | 28.8 |
| 150 x 225 | 9.9 | 6.4 | 43.24 | 33.9 |
| 200 x 250 | 9.0 | 6.7 | 52.05 | 40.9 |
| 200 x 300 | 10.0 | 7.4 | 61.33 | 48.1 |
| 200 x 350 | 11.4 | 8.0 | 72.50 | 56.9 |
| 200 x 400 | 13.0 | 8.6 | 85.01 | 66.7 |
| 200 x 450 | 15.4 | 9.2 | 101.15 | 79.4 |
| 250 x 500 | 14.7 | 9.9 | 121.22 | 95.2 |
| 250 x 550 | 17.6 | 10.5 | 143.34 | 112.5 |
| 250 x 600 | 21.3 | 11.2 | 170.38 | 133.7 |
| 250 x 600 | 23.6 | 11.8 | 184.86 | 145.1 |

| Size | Flange | Web | Sectional | Weight |
|-----------|----------------|----------------|-----------|--------|
| D | thickness | thickness | area | t per |
| B x | t _f | T _w | (a) | metre |
| in | mm | mm | mm | (w) |
| mm | | | | kg |
| 150 x 150 | 9.0 | 5.4 | 34.48 | 27.1 |
| 150 x 150 | 9.0 | 8.4 | 38.98 | 30.6 |
| 150 x 150 | 9.0 | 11.8 | 44.08 | 34.6 |
| 200 x 200 | 9.0 | 6.1 | 47.54 | 37.3 |
| 200 x 200 | 9.0 | 7.8 | 50.94 | 40.0 |
| 225 x 225 | 9.1 | 6.5 | 54.94 | 43.1 |
| 225 x 225 | 9.1 | 8.6 | 59.66 | 46.8 |
| 250 x 250 | 9.7 | 6.9 | 64.96 | 51.0 |
| 250 x 250 | 9.7 | 8.8 | 69.71 | 54.7 |
| 250 x 300 | 10.6 | 7.6 | 74.85 | 58.8 |
| 250 x 300 | 10.6 | 9.4 | 80.85 | 63.0 |
| 250 x 350 | 11.6 | 8.3 | 85.91 | 67.4 |
| 250 x 350 | 11.6 | 10.1 | 92.21 | 72.4 |
| 250 x 400 | 12.7 | 9.1 | 98.66 | 77.4 |
| 250 x 400 | 12.7 | 10.6 | 104.66 | 82.2 |
| 250 x 450 | 13.7 | 9.8 | 111.14 | 87.2 |
| 250 x 450 | 13.7 | 11.3 | 117.89 | 92.5 |

D : CHANNEL SECTIONS

| Size | Flange | Web | Sectional | Weight |
|-----------|-----------|-----------|-----------|--------|
| D | thickness | thickness | area | t per |
| B x | t_f | T_w | (a) | metre |
| in | mm | mm | mm | (w) |
| mm | | | | kg |
| 45 x 100 | 5.1 | 3.0 | 7.41 | 5.8 |
| 50 x 125 | 6.6 | 3.0 | 10.07 | 7.9 |
| 55 x 150 | 6.9 | 3.6 | 12.65 | 9.9 |
| 60 x 175 | 6.9 | 3.6 | 14.24 | 11.2 |
| 70 x 200 | 7.1 | 4.1 | 17.77 | 13.9 |
| 40 x 75 | 6.0 | 3.7 | 7.26 | 5.7 |
| 50 x 100 | 6.4 | 4.0 | 10.02 | 7.9 |
| 65 x 125 | 6.6 | 4.4 | 13.67 | 10.70 |
| 75 x 150 | 7.8 | 4.8 | 18.36 | 14.4 |
| 75 x 175 | 9.5 | 5.1 | 22.40 | 17.6 |
| 75 x 200 | 10.8 | 5.5 | 26.22 | 20.6 |
| 90 x 225 | 10.2 | 5.8 | 30.53 | 24.0 |
| 100 x 250 | 10.7 | 6.1 | 35.65 | 28.0 |
| 100 x 300 | 11.6 | 6.7 | 42.11 | 33.1 |
| 100 x 350 | 12.5 | 7.4 | 49.47 | 38.8 |
| 100 x 400 | 14.0 | 8.0 | 58.25 | 45.7 |
| 40 x 75 | 7.3 | 4.4 | 8.67 | 6.8 |
| 50 x 100 | 7.5 | 4.7 | 11.7 | 9.2 |

| Size | B x | Flange | Web | Sectional | Weight |
|-----------|-----|----------------|----------------|-----------|--------|
| D | in | thickness | thickness | area | t per |
| mm | | t _f | T _w | (a) | metre |
| | | mm | mm | mm | (w) |
| | | | | | kg |
| 65 x 125 | | 8.1 | 5.0 | 16.19 | 12.7 |
| 75 x 150 | | 9.0 | 5.4 | 20.88 | 16.4 |
| 75 x 175 | | 10.2 | 5.7 | 24.38 | 19.1 |
| 75 x 200 | | 11.4 | 6.1 | 28.21 | 22.1 |
| 80 x 225 | | 12.4 | 6.4 | 33.01 | 25.9 |
| 80 x 250 | | 14.1 | 7.1 | 38.67 | 30.4 |
| 90 x 300 | | 13.6 | 7.6 | 45.64 | 35.8 |
| 100 x 350 | | 13.5 | 8.1 | 53.66 | 42.1 |
| 100 x 400 | | 15.3 | 8.6 | 62.93 | 49.4 |

Available in lengths from 6.5 metres to 13.5 metres rising by 250 mm.