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## **CHANNELS**

- Plain Channels / Lipped Channels (C-Channels) / U-Channels

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## **HIGH TENSILE GALVANISED Z-PURLINS**

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## **HIGH TENSILE GALVANISED C-PURLINS**

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## **ANGLES**

- Equal Angles / Unequal Angles / Inverted Angles / Tee Shapes / Tee Bars

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## **BARS**

- Flat Bars / Bulb Flats / Square Bars / Deformed Bars / Round Bars

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## **PLATES**

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## **GALVANISED SERRATED GRATINGS (4/1 SERIES)**

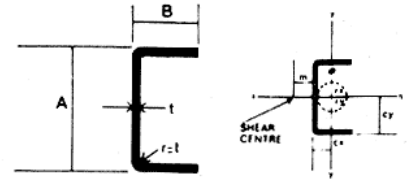
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## **EXPANDED METALS**

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# CHANNELS

## Plain Channels JIS G 3350-1987



| Section size<br>Ax B | Unit Weight<br>M | Thick-ness<br>t | Area<br>A       | Position of Centroid |       | Moment of Inertia |                 | Radius of gyration |      | Modulus of Section |                 | Moment Capacity<br>Mx | Shear Centre<br>M | Column Factor<br>Q |
|----------------------|------------------|-----------------|-----------------|----------------------|-------|-------------------|-----------------|--------------------|------|--------------------|-----------------|-----------------------|-------------------|--------------------|
|                      |                  |                 |                 | Cx                   | Cy    | Ix                | Iy              | Rx                 | Ry   | Zx                 | Zy              |                       |                   |                    |
| mm                   | kg/m             | mm              | cm <sup>2</sup> | cm                   | cm    | cm <sup>4</sup>   | cm <sup>4</sup> | cm                 | cm   | cm <sup>3</sup>    | cm <sup>3</sup> | kg/m                  | cm                |                    |
| 60 x 30              | 1.44             | 1.6             | 1.83            | 0.82                 | 3.00  | 10.33             | 1.63            | 2.37               | 0.94 | 3.44               | 0.75            | 46.08                 | 1.12              | 0.77               |
|                      | 2.03             | 2.3             | 2.58            | 0.85                 | 3.00  | 15.13             | 2.25            | 2.33               | 0.93 | 4.71               | 1.05            | 76.97                 | 1.12              | 0.96               |
| 75 x 45              | 2.00             | 1.6             | 2.55            | 1.30                 | 3.75  | 23.86             | 5.38            | 3.05               | 1.45 | 6.36               | 1.68            | 53.04                 | 1.76              | 0.46               |
|                      | 2.84             | 2.3             | 3.62            | 1.33                 | 3.75  | 33.08             | 7.51            | 3.02               | 1.44 | 8.82               | 2.37            | 114.32                | 1.76              | 0.76               |
|                      | 3.65             | 3.0             | 4.75            | 1.37                 | 3.75  | 41.58             | 9.51            | 2.98               | 1.42 | 11.08              | 3.04            | 169.91                | 1.76              | 0.90               |
| 100 x 50             | 2.44             | 1.6             | 3.11            | 1.32                 | 5.00  | 50.00             | 7.88            | 4.00               | 1.59 | 10.00              | 2.14            | 66.48                 | 1.87              | 0.33               |
|                      | 3.47             | 2.3             | 4.42            | 1.35                 | 5.00  | 69.83             | 11.05           | 3.97               | 1.58 | 13.96              | 3.03            | 165.23                | 1.87              | 0.66               |
|                      | 4.47             | 3.0             | 5.70            | 1.38                 | 5.00  | 88.45             | 14.05           | 3.93               | 1.56 | 17.69              | 3.89            | 255.77                | 1.87              | 0.85               |
| 125 x 50             | 3.92             | 2.3             | 5.00            | 1.21                 | 6.25  | 117.36            | 11.84           | 4.84               | 1.53 | 18.77              | 3.12            | 222.17                | 1.76              | 0.61               |
|                      | 5.06             | 3.0             | 6.45            | 1.24                 | 6.25  | 149.25            | 15.07           | 4.80               | 1.52 | 23.88              | 5.01            | 345.27                | 1.75              | 0.81               |
|                      | 7.42             | 4.5             | 9.45            | 1.31                 | 6.25  | 211.76            | 31.43           | 4.73               | 1.50 | 33.88              | 5.81            | 571.75                | 1.75              | 1.00               |
| 150 x 65             | 4.91             | 2.3             | 6.26            | 1.61                 | 7.50  | 218.16            | 25.86           | 5.90               | 2.03 | 29.08              | 5.29            | 239.92                | 2.34              | 0.40               |
|                      | 6.36             | 3.0             | 8.10            | 1.64                 | 7.50  | 278.84            | 33.12           | 5.86               | 2.02 | 37.17              | 6.82            | 441.26                | 2.34              | 0.63               |
|                      | 9.36             | 4.5             | 11.93           | 1.71                 | 7.50  | 400.15            | 47.69           | 5.79               | 1.99 | 53.35              | 9.96            | 832.81                | 2.34              | 0.91               |
| 175 x 75             | 5.73             | 2.3             | 7.30            | 1.83                 | 8.75  | 346.87            | 40.19           | 6.89               | 2.34 | 39.64              | 7.09            | 240.68                | 2.69              | 0.28               |
|                      | 7.42             | 3.0             | 9.45            | 1.86                 | 8.75  | 444.65            | 51.59           | 6.85               | 2.33 | 50.81              | 9.15            | 515.38                | 2.69              | 0.51               |
|                      | 10.95            | 4.5             | 13.95           | 1.93                 | 8.75  | 642.23            | 74.74           | 6.78               | 2.31 | 73.39              | 13.42           | 1061.21               | 2.69              | 0.82               |
| 200 x 75             | 6.18             | 2.3             | 7.87            | 1.70                 | 10.00 | 473.31            | 41.76           | 7.75               | 2.30 | 47.33              | 7.21            | 287.35                | 2.48              | 0.26               |
|                      | 8.01             | 3.0             | 10.20           | 1.73                 | 10.00 | 607.58            | 53.63           | 7.71               | 2.29 | 60.75              | 9.31            | 616.21                | 2.58              | 0.48               |
|                      | 11.84            | 4.5             | 15.08           | 1.80                 | 10.00 | 880.30            | 77.78           | 7.63               | 2.27 | 88.03              | 13.65           | 1272.76               | 2.58              | 0.79               |
| 225 x 75             | 6.63             | 2.3             | 8.45            | 1.59                 | 11.25 | 624.36            | 43.12           | 8.59               | 2.25 | 55.49              | 7.30            | 336.94                | 2.49              | 0.24               |
|                      | 8.59             | 3.0             | 10.95           | 1.63                 | 11.25 | 802.40            | 55.40           | 8.55               | 2.24 | 71.32              | 9.43            | 723.37                | 2.48              | 0.45               |
|                      | 12.72            | 4.5             | 16.20           | 1.69                 | 11.25 | 1145.51           | 80.39           | 8.47               | 2.22 | 103.60             | 13.85           | 1497.89               | 2.48              | 0.76               |
| 250 x 75             | 7.08             | 2.3             | 9.02            | 1.50                 | 12.50 | 801.81            | 44.31           | 9.42               | 2.21 | 64.14              | 7.39            | 389.44                | 2.39              | 0.23               |
|                      | 9.18             | 3.0             | 11.70           | 1.53                 | 12.50 | 1031.46           | 56.94           | 9.38               | 2.20 | 82.51              | 9.54            | 836.88                | 2.39              | 0.43               |
|                      | 13.60            | 4.5             | 17.33           | 1.60                 | 12.50 | 1501.38           | 82.67           | 9.30               | 2.18 | 120.11             | 14.01           | 1736.58               | 2.39              | 0.72               |