

# AISC STEEL SHAPES (SI)

# STEEL CONSTRUCTION



## MANUAL

AMERICAN INSTITUTE  
OF  
STEEL CONSTRUCTION  
INC.

THIRTEENTH EDITION

PREPARED BY:  
**ENGR. B.G GARWAGEO, MSCE**  
Assistant Professor

# AISC STEEL SHAPES – W-SECTIONS

| Section | W <sub>x</sub><br>kg/m | A <sub>g</sub><br>mm <sup>2</sup> | d<br>mm | b <sub>f</sub><br>mm | t <sub>f</sub><br>mm | t <sub>w</sub><br>mm | I <sub>x</sub><br>10 <sup>9</sup> mm <sup>4</sup> | J <sub>x</sub><br>10 <sup>7</sup> mm <sup>2</sup> | S <sub>x</sub><br>10 <sup>3</sup> mm <sup>3</sup> | r <sub>x</sub><br>mm | I <sub>y</sub><br>10 <sup>9</sup> mm <sup>4</sup> | J <sub>y</sub><br>10 <sup>7</sup> mm <sup>2</sup> | S <sub>y</sub><br>10 <sup>3</sup> mm <sup>3</sup> | r <sub>y</sub><br>mm | r <sub>ts</sub><br>mm |
|---------|------------------------|-----------------------------------|---------|----------------------|----------------------|----------------------|---|---|---|----------------------|---|---|---|----------------------|-----------------------|
| W44x335 | 499                    | 63300                             | 1120    | 404                  | 45.0                 | 26.2                 | 12900   | 26500   | 23100   | 452                  | 499   | 3870  | 2460  | 88.6                 | 108                   |
| W44x290 | 433                    | 55100                             | 1110    | 400                  | 40.1                 | 22.0                 | 11200   | 23100   | 20300   | 452                  | 433   | 3360  | 2160  | 88.6                 | 107                   |
| W44x262 | 390                    | 49800                             | 1100    | 400                  | 36.1                 | 19.9                 | 10000   | 20800   | 18200   | 450                  | 384   | 2980  | 1920  | 88.1                 | 106                   |
| W44x230 | 343                    | 43700                             | 1090    | 400                  | 31.0                 | 18.0                 | 8660  | 18000   | 15900   | 445                  | 331   | 2570  | 1660  | 87.1                 | 105                   |
| W40x590 | 883                    | 112000                            | 1090    | 424                  | 82.0                 | 45.5                 | 21000   | 45200   | 38300   | 432                  | 1050  | 7680  | 4950  | 96.5                 | 118                   |
| W40x503 | 748                    | 95500                             | 1070    | 417                  | 70.1                 | 39.1                 | 17300   | 38000   | 32400   | 427                  | 849   | 6460  | 4080  | 94.5                 | 114                   |
| W40x431 | 642                    | 81900                             | 1050    | 411                  | 59.9                 | 34.0                 | 14500   | 32100   | 27700   | 422                  | 703   | 5370  | 3410  | 92.7                 | 112                   |
| W40x397 | 591                    | 73500                             | 1040    | 409                  | 55.9                 | 31.0                 | 13300   | 29500   | 25600   | 422                  | 641   | 4920  | 3130  | 92.5                 | 111                   |
| W40x372 | 554                    | 71000                             | 1030    | 409                  | 52.1                 | 29.5                 | 12300   | 27500   | 23900   | 419                  | 591   | 4540  | 2900  | 91.4                 | 110                   |
| W40x362 | 539                    | 68400                             | 1030    | 406                  | 51.1                 | 28.4                 | 12000   | 26000   | 23300   | 419                  | 574   | 4420  | 2830  | 91.4                 | 110                   |
| W40x324 | 483                    | 61500                             | 1020    | 404                  | 46.0                 | 25.4                 | 10700   | 23900   | 21000   | 417                  | 508   | 3920  | 2510  | 90.9                 | 108                   |
| W40x297 | 443                    | 56300                             | 1010    | 401                  | 41.9                 | 23.6                 | 9660  | 21800   | 19200   | 414                  | 454   | 3520  | 2260  | 89.9                 | 107                   |
| W40x277 | 412                    | 52600                             | 1010    | 401                  | 40.1                 | 21.1                 | 9120  | 20500   | 18000   | 417                  | 433   | 3340  | 2160  | 90.9                 | 108                   |
| W40x249 | 371                    | 47400                             | 1000    | 401                  | 36.1                 | 19.1                 | 8160  | 18400   | 16300   | 414                  | 383   | 2980  | 1930  | 90.2                 | 107                   |
| W40x215 | 321                    | 41000                             | 991     | 401                  | 31.0                 | 16.5                 | 6950  | 15800   | 14100   | 411                  | 334   | 2560  | 1660  | 89.9                 | 106                   |
| W40x199 | 296                    | 37900                             | 983     | 401                  | 27.2                 | 16.5                 | 6200  | 14200   | 12600   | 406                  | 289   | 2250  | 1450  | 87.6                 | 105                   |
| W40x192 | 284                    | 34800                             | 1060    | 315                  | 44.0                 | 36.1                 | 12400   | 28000   | 23600   | 409                  | 334   | 3470  | 2130  | 67.1                 | 83.8                  |
| W40x131 | 494                    | 63000                             | 1040    | 310                  | 54.1                 | 31.0                 | 10300   | 23400   | 19800   | 404                  | 268   | 2820  | 1740  | 65.3                 | 81.5                  |
| W40x127 | 466                    | 61900                             | 1040    | 307                  | 54.1                 | 30.0                 | 10200   | 23100   | 19700   | 406                  | 266   | 2790  | 1720  | 65.5                 | 81.5                  |
| W40x124 | 436                    | 55600                             | 1030    | 305                  | 49.0                 | 28.9                 | 9120  | 20800   | 17700   | 404                  | 234   | 2460  | 1530  | 64.8                 | 80.3                  |

## APPENDIX A – AISC STEEL SHAPES

| Section | W <sub>x</sub><br>kg/m | A <sub>g</sub><br>mm <sup>2</sup> | d<br>mm | b <sub>f</sub><br>mm | t <sub>f</sub><br>mm | t <sub>w</sub><br>mm | I <sub>x</sub><br>10 <sup>9</sup> mm <sup>4</sup> | J <sub>x</sub><br>10 <sup>7</sup> mm <sup>2</sup> | S <sub>x</sub><br>10 <sup>3</sup> mm <sup>3</sup> | r <sub>x</sub><br>mm | I <sub>y</sub><br>10 <sup>9</sup> mm <sup>4</sup> | J <sub>y</sub><br>10 <sup>7</sup> mm <sup>2</sup> | S <sub>y</sub><br>10 <sup>3</sup> mm <sup>3</sup> | r <sub>y</sub><br>mm | r <sub>ts</sub><br>mm |
|---------|------------------------|-----------------------------------|---------|----------------------|----------------------|----------------------|---|---|---|----------------------|---|---|---|----------------------|-----------------------|
| W40x278 | 413                    | 53100                             | 1020    | 305                  | 46.0                 | 26.2                 | 8530  | 19500   | 14700   | 401                  | 217   | 2290  | 1430  | 64.0                 | 79.4                  |
| W40x264 | 393                    | 49900                             | 1020    | 302                  | 43.9                 | 24.4                 | 8070  | 18500   | 13900   | 401                  | 205   | 2160  | 1350  | 64.0                 | 79.2                  |
| W40x235 | 358                    | 44600                             | 1010    | 302                  | 40.1                 | 21.1                 | 7240  | 16400   | 14300   | 404                  | 185   | 1950  | 1230  | 64.5                 | 79.0                  |
| W40x211 | 314                    | 40100                             | 1000    | 300                  | 36.1                 | 19.1                 | 6450  | 14800   | 12900   | 401                  | 162   | 1720  | 1080  | 63.8                 | 78.0                  |
| W40x183 | 272                    | 34400                             | 991     | 300                  | 30.5                 | 16.5                 | 5490  | 12700   | 11100   | 399                  | 138   | 1430  | 918   | 63.2                 | 77.2                  |
| W40x167 | 249                    | 31800                             | 980     | 300                  | 26.2                 | 16.5                 | 4830  | 11400   | 9830  | 389                  | 118   | 1250  | 785   | 61.0                 | 75.7                  |

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