

## 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>4</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>4</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 | 530                    | 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                   |
| W40x190 | 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>4</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>4</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                 | 79.5                  |
| W40x264 | 390                    | 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                    | 34800                             | 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                  |

# Aisc Steel Manual Combined Code 14th

**Ryszard Daniel, Tim Paulus**



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