

# Table 1-1 (continued) W Shapes **Dimensions**

|                      | Area,<br>A<br>in. <sup>2</sup><br>29.5 | Dopth,<br>d |       | Web                                 |          |        | Flange              |        |                         |                   | Distance     |         |           |      |                       |
|----------------------|--|-------------|-------|-------------------------------------|----------|--------|---------------------|--------|-------------------------|-------------------|--------------|---------|-----------|------|-----------------------|
| Shape<br>W16×100     |  |             |       | Thickness,<br>f <sub>w</sub><br>in. |          | in.    | Width,<br>Dr<br>in. |        | Thickness,<br>f,<br>in. |                   | k<br>Kan Kan |         | A,        | 7    | Work-<br>able<br>Gage |
|                      |  |             |       |                                     |          |        |                     |        |                         |                   | in.          | im.     | in.       | in.  | in.                   |
|                      |  | 17.0        | 17    | 0.585                               | 7710     | Man.   | 10.4                | 10%    | 0.985                   |                   | 1.39         | 17%     | 15%       | 13%  | 57%                   |
| ×89                  | 26.2                                   | 16.8        |       | 0.525                               | 3/2      | 3/4    | 10.4                | 10%    | 0.875                   | 7/6               | 1.28         | 17/4    | 17m       |      |                       |
| >< 7.7               | 22.6                                   | 16.5        |       | 0.455                               | 7750     | 3/4    | 10.3                | 10/9/4 | 0.760                   | 2/4               | 1.16         | 3.5% ·  | 150m      |      | 346                   |
| ×67*                 | 19.7                                   | 16.3        | 16%   | 0.395                               | 3/4      | West.  | 10.2                | 100%   | 0.665                   | 77/mi             | 1.07         | 1704    | 1         | T    | 7                     |
| W16×57               | 16.8                                   | 16.4        | 16%   | 0.430                               | 77/10    | 3/4    | 7.12                | 7%     | 0.715                   | 2500              | 1.12         | 1200    | 75%       | 135% | 31/50                 |
| ×50°                 | 14.7                                   | 16.3        | 167%  | 0.380                               | 3/6      | 36.00  | 7.07                | 7%     | 0.630                   | 7/6               | 1,03         | 17/20 I | 19/10     |      | 1                     |
| >445°                | 13.3                                   | 16.1        | 16%   | 0.345                               | 3/4      | West   | 7.04                | 7      | 0.565                   | 9/16              | 0.967        | 13/4    | 13/14     |      |                       |
| >×40°                | 11.8                                   | 16.0        | 16    | 0.305                               | N/va.    | 3/14   | 7.00                | 7      | 0.505                   | 1/0               | 0.907        | 13/16 . | 52/10     | 1    |                       |
| ×36°                 | 10.6                                   | 15.9        | 157%  | 0.295                               | N/m      | 2010   | 6.99                | 7      | 0.430                   | 7716              | 0.832        | 1 1/4e  | 3/4       | T    | Y                     |
| W16×31°              | 9.13                                   | 15.9        | 157%  | 0.275                               | 1/4      | 1/6    | 5.53                | 57%    | 0.440                   | 716               | 0.842        | 17%     | 2/4       | 13%  | 3%                    |
| ×26*.*               | 7.68                                   | 15.7        | 15%   | 0.250                               | 5/4      | 3/6    | 5.50                | 57Vz   | 0.345                   | 2/0               | 0.747        | 17/m    | 2/4       | 139% | 31/2                  |
| W14×730 <sup>h</sup> | 215                                    | 22.4        | 22%   | 3.07                                | 37/14    | 197m   | 17.9                | 17%    | 4.91                    | 429/sel           | 5.51         | 67/10   | 29/4      | 10   | 3-7%-35               |
| ×665*                | 196                                    | 21.6        | 21%   | 2.83                                | 2"3/m    | 1.77mm | 17.7                | 1.7%   | 4.52                    | 41/2              | 5.12         | 5779 m  | 25%       |      | 3-7%-3                |
| ×605*                | 178                                    | 20.9        | 20%   | 2.60                                | 2%       | 177m   | 17.4                | 17%    | 4.16                    | 42/mm             | 4.76         | 57/he : | 2%        |      | 3-71/2-3              |
| ×550 <sup>h</sup>    | 162                                    | 20.2        | 20%   | 2.38                                | 2%       | 175 mg | 17.2                | 17%    | 3.82                    | 313/no.           | 4.42         | 51/w    | 2%        |      |                       |
| ×500°                | 147                                    | 19.6        | 19%   | 2.19                                | 29/1e    | 17%    | 17.0                | 17     | 3.50                    | 31/2              | 4.10         | 477/16  | 29/16     |      |                       |
| ×455*                | 134                                    | 19.0        | 19    | 2.02                                | 2        | 1      | 16.8                | 16%    | 3.21                    | 3 <sup>3</sup> /m | 3.81         | 47%     | 2%4       | 1    |                       |
| 34426°               | 125                                    | 18.7        | 18 1  | 1.88                                | 17%      |        | 16.7                | 162/4  | 3.04                    | 31/mm             | 3.63         | 47/10   | 21/6      |      |                       |
| ×398 <sup>h</sup>    | 117                                    | 18.3        | 187%  |                                     | 196      | 7/6    | 16.6                | 16%    | 2.85                    | 2%                | 3.44         | 47/6    | 2%        |      |                       |
| ×370 <sup>h</sup>    | 109                                    | 17.9        | 17%/a | 1.66                                | 15/e     |        | 16.5                | 16%    | 2.66                    | 2" Vis            | 3.26         | 375/m   | 29/ms     |      |                       |
| ×342*                | 101                                    | 17.5        | 17%2  | B                                   | 1700     | *Wee   | 16.4                | 16%    | 2.47                    | 2%                | 3.07         | 3%      | 2         | 1 1  |                       |
| ×311 <sup>h</sup>    | 91.4                                   | 17.1        | 17%   |                                     | 17/m     | 394    | 16.2                | 165%   | 2.26                    | 2%                | 2.86         | 3% to   | 1 15/m    |      |                       |
| ×283°                | 83.3                                   | 16.7        | 16%   | and the same of                     | 15/m     |        | 16.1                | 16%    | 2.07                    | 25/ha             | 2.67         | 3%      | 17%       |      |                       |
| ×257                 | 75.6                                   | 16.4        | 167%  | 100000                              | 1.2/m    | 766    | 16.0                | 16     | 1.89                    | 17/n              | 2.49         | 37/16   | 1 10/m    |      |                       |
| ×233                 | 68.5                                   | 16.0        | 16    | 1.07                                | 17/m     | 9716   | 15.9                | 15%    | 1.72                    | 12/4              | 2.32         | 3       | 13/4      |      |                       |
| ×211                 | 62.0                                   | 15.7        |       | 0.980                               |          | Va.    | 15.8                | 157/4  | 1.56                    | 19/m.             | 2.16         | 2%      | 1."Yes    |      |                       |
| ×193                 | 56.8                                   | 15.5        | 157/2 |                                     |          | 7/10   | 15.7                | 15%    | 1.44                    | 15/na             | 2.04         | 23%     | 3 5 Visa. |      |                       |
| ×176                 | 51.8                                   | 15.2        |       | 0.830                               | 11 Tyres | 7716   | 15.7                | 15%    | 1.31                    | 15/ns             | 1.91         | 25/4    | 15%       |      |                       |
| ×159                 | 46.7                                   | 15.0        | 15    | 0.745                               | 3/4      | 166    | 15.6                | 15%    | 1.19                    | 12/ms             | 1.79         | 27/2    | 19/16     | 1    | 1                     |
| 34145                | 42.7                                   | 14.8        | 14%   | 0.680                               | 579m     | 200    | 15.5                | 15%    | 1.09                    | 1500              | 1.69         | 2%      | 19/10     |      |                       |
|                      |  |             |       |                                     |          |        |                     |        |                         |                   |              |         |           |      |                       |

Shape is slender for compression with F<sub>e</sub> = 50 ksi.
The actual size, combination, and orientation of fastener components should be compared with the geometry of the cross-section. to ensure compatibility.

<sup>\*</sup> Flange thickness greater than 2 in. Special requirements may apply per ASC Specification Section A3.1c. \* Shape does not meet the  $h/t_{\rm w}$  limit for shear in Specification Section 62.1a with  $F_{\rm p}=50$  ksi.

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**Paul Richards** 



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