

**X790 / Y729 - WT Members**  
**Wide Flange Structural Steel "T" Members**  
**CAFCO® 300 Series & ISOLATEK® Type 300 Series**

| ASTM Desig.  | W/D  | Metric Desig. | M/D   | Hp/A  | 1-Hour | 1-1/2 Hour | 2-Hour | 3-Hour | 4-Hour  |
|--------------|------|---------------|-------|-------|--------|------------|--------|--------|---------|
| WT22 x 167.5 | 2.22 | WT560 x 249   | 131.0 | 60.4  | 1/4    | 1/2        | 5/8    | 15/16  | 1-1/4   |
| 145          | 1.95 | 216           | 115.1 | 68.7  | 1/4    | 9/16       | 11/16  | 1-1/16 | 1-3/8   |
| 131          | 1.76 | 195           | 103.8 | 76.1  | 1/4    | 9/16       | 3/4    | 1-1/8  | 1-1/2   |
| 115          | 1.56 | 171           | 92.0  | 85.9  | 1/4    | 9/16       | 13/16  | 1-1/4  | 1-5/8   |
| WT20 x 296.5 | 3.94 | WT500 x 441.5 | 232.5 | 34.0  | 1/4    | 5/16       | 7/16   | 5/8    | 13/16   |
| 251.5        | 3.41 | 374           | 201.2 | 39.3  | 1/4    | 3/8        | 1/2    | 11/16  | 15/16   |
| 196          | 3    | 206           | 177.0 | 44.7  | 1/4    | 3/8        | 1/2    | 3/4    | 1       |
| 215.5        | 2.97 | 321           | 175.2 | 45.1  | 1/4    | 7/16       | 9/16   | 13/16  | 1-1/16  |
| 198.5        | 2.75 | 296           | 162.3 | 48.7  | 1/4    | 7/16       | 9/16   | 7/8    | 1-1/8   |
| 186          | 2.59 | 292           | 152.8 | 51.7  | 1/4    | 7/16       | 5/8    | 7/8    | 1-3/16  |
| 181          | 2.53 | 277           | 149.3 | 53.0  | 1/4    | 1/2        | 5/8    | 15/16  | 1-3/16  |
| 165.5        | 2.58 | 197           | 152.2 | 51.9  | 1/4    | 7/16       | 5/8    | 7/8    | 1-3/16  |
| 163.5        | 2.56 | 186           | 151.0 | 52.3  | 1/4    | 7/16       | 5/8    | 7/8    | 1-3/16  |
| 162          | 2.28 | 270           | 134.5 | 58.8  | 1/4    | 1/2        | 5/8    | 15/16  | 1-3/16  |
| 148.5        | 2.11 | 247           | 124.5 | 63.5  | 1/4    | 1/2        | 11/16  | 1      | 1-5/16  |
| 139          | 2.2  | 175           | 129.8 | 60.9  | 1/4    | 1/2        | 5/8    | 15/16  | 1-1/4   |
| 132          | 2.11 | 161           | 124.5 | 63.5  | 1/4    | 1/2        | 11/16  | 1      | 1-5/16  |
| 138.5        | 1.98 | 244           | 116.8 | 67.7  | 1/4    | 1/2        | 11/16  | 1      | 1-3/8   |
| 124.5        | 1.78 | 241           | 105.0 | 75.3  | 1/4    | 9/16       | 3/4    | 1-1/8  | 1-1/2   |
| 117.5        | 1.89 | 157           | 111.5 | 70.9  | 1/4    | 9/16       | 3/4    | 1-1/16 | 1-7/16  |
| 107.5        | 1.55 | 221           | 91.5  | 86.4  | 1/4    | 9/16       | 13/16  | 1-1/4  | 1-5/8   |
| 105.5        | 1.7  | 148           | 100.3 | 78.8  | 1/4    | 9/16       | 13/16  | 1-3/16 | 1-9/16  |
| 99.5         | 1.44 | 207           | 85.0  | 93.0  | 7/16   | 11/16      | 7/8    | 1-5/16 | 1-3/4   |
| 91.5         | 1.49 | 136           | 87.9  | 89.9  | 1/4    | 9/16       | 13/16  | 1-1/4  | 1-11/16 |
| 83.5         | 1.37 | 124.5         | 80.8  | 97.8  | 7/16   | 11/16      | 15/16  | 1-3/8  | 1-13/16 |
| 74.5         | 1.23 | 111           | 72.6  | 108.9 | 7/16   | 3/4        | 1      | 1-1/2  | 1-15/16 |
| WT18 x 399   | 5.19 | WT460 x 594   | 306.2 | 25.8  | 1/4    | 1/4        | 5/16   | 1/2    | 5/8     |
| 325          | 4.36 | 483.5         | 257.2 | 30.7  | 1/4    | 5/16       | 3/8    | 9/16   | 3/4     |
| 263.5        | 3.63 | 392           | 214.2 | 36.9  | 1/4    | 3/8        | 7/16   | 11/16  | 7/8     |
| 219.5        | 3.09 | 326.5         | 182.3 | 43.4  | 1/4    | 3/8        | 1/2    | 3/4    | 1       |
| 196.5        | 2.8  | 292.5         | 165.2 | 47.9  | 1/4    | 7/16       | 9/16   | 13/16  | 1-1/8   |
| 179.5        | 2.58 | 267           | 152.2 | 51.9  | 1/4    | 7/16       | 5/8    | 7/8    | 1-3/16  |
| 164          | 2.37 | 244           | 139.8 | 56.5  | 1/4    | 7/16       | 5/8    | 7/8    | 1-3/16  |
| 128          | 2.1  | 172.5         | 123.9 | 63.8  | 1/4    | 1/2        | 11/16  | 1      | 1-5/16  |
| 150          | 2.17 | 223           | 128.0 | 61.7  | 1/4    | 1/2        | 5/8    | 15/16  | 1-1/4   |
| 140          | 2.04 | 208.5         | 120.4 | 65.7  | 1/4    | 1/2        | 11/16  | 1      | 1-5/16  |
| 116          | 1.91 | 171           | 112.7 | 70.1  | 1/4    | 9/16       | 11/16  | 1-1/16 | 1-3/8   |
| 130          | 1.9  | 193.5         | 112.1 | 70.5  | 1/4    | 9/16       | 3/4    | 1-1/16 | 1-7/16  |
| 122.5        | 1.8  | 190.5         | 106.2 | 74.4  | 1/4    | 9/16       | 3/4    | 1-1/8  | 1-7/16  |
| 105          | 1.74 | 156.5         | 102.7 | 77.0  | 1/4    | 9/16       | 3/4    | 1-1/8  | 1-1/2   |
| 115          | 1.69 | 182.5         | 99.7  | 79.3  | 1/4    | 9/16       | 13/16  | 1-3/16 | 1-9/16  |
| 97           | 1.62 | 144.5         | 95.6  | 82.7  | 1/4    | 9/16       | 13/16  | 1-3/16 | 1-5/8   |
| 91           | 1.52 | 135.5         | 89.7  | 88.1  | 1/4    | 9/16       | 13/16  | 1-1/4  | 1-11/16 |
| 85           | 1.43 | 126.5         | 84.4  | 93.7  | 7/16   | 11/16      | 7/8    | 1-5/16 | 1-3/4   |
| 80           | 1.35 | 119           | 79.7  | 99.2  | 7/16   | 11/16      | 15/16  | 1-3/8  | 1-13/16 |
| 75           | 1.27 | 111.5         | 74.9  | 105.5 | 7/16   | 3/4        | 1      | 1-7/16 | 1-15/16 |

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| ASTM Desig.    | W/D  | Metric Desig. | M/D   | Hp/A  | 1-Hour | 1-1/2 Hour | 2-Hour | 3-Hour | 4-Hour  |
|----------------|------|---------------|-------|-------|--------|------------|--------|--------|---------|
| WT18 x 67.5    | 1.15 | WT460 x 100.5 | 67.9  | 116.5 | 7/16   | 13/16      | 1-1/16 | 1-9/16 | 2-1/16  |
| WT16.5 x 193.5 | 2.86 | WT420 x 288   | 168.7 | 46.8  | 1/4    | 7/16       | 9/16   | 13/16  | 1-1/16  |
| 177            | 2.64 | 263.5         | 155.8 | 50.8  | 1/4    | 7/16       | 5/8    | 7/8    | 1-3/16  |
| 159            | 2.39 | 236.5         | 141.0 | 56.1  | 1/4    | 7/16       | 5/8    | 7/8    | 1-3/16  |
| 145.5          | 2.21 | 216.5         | 130.4 | 60.6  | 1/4    | 1/2        | 5/8    | 15/16  | 1-1/4   |
| 131.5          | 2.01 | 196           | 118.6 | 66.7  | 1/4    | 1/2        | 11/16  | 1      | 1-3/8   |
| 120.5          | 1.85 | 179.5         | 109.2 | 72.4  | 1/4    | 9/16       | 3/4    | 1-1/16 | 1-7/16  |
| 110.5          | 1.7  | 164.5         | 100.3 | 78.8  | 1/4    | 9/16       | 13/16  | 1-3/16 | 1-9/16  |
| 100.5          | 1.56 | 149.5         | 92.0  | 85.9  | 1/4    | 9/16       | 13/16  | 1-1/4  | 1-5/8   |
| 76             | 1.36 | 113           | 80.2  | 98.5  | 7/16   | 11/16      | 15/16  | 1-3/8  | 1-13/16 |
| 70.5           | 1.27 | 105           | 74.9  | 105.5 | 7/16   | 3/4        | 1      | 1-7/16 | 1-15/16 |
| 84.5           | 1.21 | 125.5         | 71.4  | 110.7 | 7/16   | 3/4        | 1      | 1-1/2  | 2       |
| 65             | 1.18 | 96.5          | 69.6  | 113.5 | 7/16   | 3/4        | 1      | 1-1/2  | 2       |
| 59             | 1.07 | 88            | 63.1  | 125.2 | 7/16   | 13/16      | 1-1/8  | 1-5/8  | 2-1/8   |
| WT15 x 195.5   | 3.07 | WT380 x 291   | 181.1 | 43.6  | 1/4    | 3/8        | 1/2    | 3/4    | 1       |
| 178.5          | 2.83 | 265.5         | 167.0 | 47.3  | 1/4    | 7/16       | 9/16   | 13/16  | 1-1/16  |
| 163            | 2.61 | 242           | 154.0 | 51.3  | 1/4    | 7/16       | 5/8    | 7/8    | 1-3/16  |
| 146            | 2.36 | 217           | 139.2 | 56.8  | 1/4    | 7/16       | 5/8    | 7/8    | 1-3/16  |
| 130.5          | 2.13 | 194.5         | 125.7 | 62.9  | 1/4    | 1/2        | 11/16  | 1      | 1-5/16  |
| 117.5          | 1.93 | 175           | 113.9 | 69.4  | 1/4    | 9/16       | 11/16  | 1-1/16 | 1-3/8   |
| 105.5          | 1.75 | 157           | 103.3 | 76.6  | 1/4    | 9/16       | 3/4    | 1-1/8  | 1-1/2   |
| 95.5           | 1.59 | 142           | 93.8  | 84.3  | 1/4    | 9/16       | 13/16  | 1-1/4  | 1-5/8   |
| 74             | 1.46 | 110           | 86.1  | 91.8  | 7/16   | 11/16      | 7/8    | 1-5/16 | 1-3/4   |
| 86.5           | 1.45 | 128.5         | 85.6  | 92.4  | 7/16   | 11/16      | 7/8    | 1-5/16 | 1-3/4   |
| 62             | 1.23 | 92.5          | 72.6  | 108.9 | 7/16   | 3/4        | 1      | 1-1/2  | 1-15/16 |
| 66             | 1.3  | 98            | 76.7  | 103.1 | 7/16   | 3/4        | 15/16  | 1-7/16 | 1-7/8   |
| 58             | 1.16 | 86.5          | 68.4  | 115.5 | 7/16   | 13/16      | 1-1/16 | 1-9/16 | 2-1/16  |
| 54             | 1.08 | 80.5          | 63.7  | 124.1 | 7/16   | 13/16      | 1-1/16 | 1-5/8  | 2-1/8   |
| 49.5           | 0.99 | 73.5          | 58.4  | 135.3 | 7/16   | 13/16      | 1-1/8  | 1-5/8  | 2-1/8   |
| 45             | 0.9  | 67            | 53.1  | 148.9 | 7/16   | 13/16      | 1-1/8  | 1-5/8  | 2-1/8   |
| WT13.5 x 296.5 | 4.32 | WT345 x 401   | 254.9 | 31.0  | 1/4    | 5/16       | 3/8    | 9/16   | 3/4     |
| 184            | 3.12 | 274           | 184.1 | 42.9  | 1/4    | 3/8        | 1/2    | 3/4    | 1       |
| 168            | 2.88 | 250           | 169.9 | 46.5  | 1/4    | 7/16       | 9/16   | 13/16  | 1-1/16  |
| 153.5          | 2.66 | 228.5         | 156.9 | 50.4  | 1/4    | 7/16       | 9/16   | 7/8    | 1-1/8   |
| 140.5          | 2.46 | 209           | 145.1 | 54.5  | 1/4    | 7/16       | 9/16   | 7/8    | 1-1/8   |
| 129            | 2.27 | 192           | 133.9 | 59.0  | 1/4    | 1/2        | 5/8    | 15/16  | 1-3/16  |
| 117.5          | 2.09 | 175           | 123.3 | 64.1  | 1/4    | 1/2        | 11/16  | 1      | 1-5/16  |
| 108.5          | 1.94 | 161.5         | 114.5 | 69.1  | 1/4    | 9/16       | 11/16  | 1-1/16 | 1-3/8   |
| 97             | 1.75 | 144.5         | 103.3 | 76.6  | 1/4    | 9/16       | 3/4    | 1-1/8  | 1-1/2   |
| 89             | 1.61 | 132.5         | 95.0  | 83.2  | 1/4    | 9/16       | 13/16  | 1-3/16 | 1-5/8   |
| 80.5           | 1.47 | 120           | 86.7  | 91.1  | 1/4    | 9/16       | 13/16  | 1-1/4  | 1-11/16 |
| 64.5           | 1.38 | 96            | 81.4  | 97.1  | 7/16   | 11/16      | 15/16  | 1-3/8  | 1-13/16 |
| 73             | 1.34 | 108.5         | 79.1  | 100.0 | 7/16   | 11/16      | 15/16  | 1-3/8  | 1-13/16 |

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| ASTM Desig.    | W/D  | Metric Desig. | M/D   | Hp/A  | 1-Hour | 1-1/2 Hour | 2-Hour | 3-Hour  | 4-Hour  |
|----------------|------|---------------|-------|-------|--------|------------|--------|---------|---------|
| WT13.5 x 57    | 1.22 | WT345 x 85    | 72.0  | 109.8 | 7/16   | 3/4        | 1      | 1-1/2   | 2       |
| 51             | 1.1  | 76            | 64.9  | 121.8 | 7/16   | 13/16      | 1-1/16 | 1-5/8   | 2-1/8   |
| 47             | 1.02 | 70            | 60.2  | 131.4 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 42             | 0.91 | 62.5          | 53.7  | 147.2 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| WT12 x 185     | 3.39 | WT305 x 275.5 | 200.0 | 39.5  | 1/4    | 3/8        | 1/2    | 11/16   | 15/16   |
| 167.5          | 3.11 | 249           | 183.5 | 43.1  | 1/4    | 3/8        | 1/2    | 3/4     | 1       |
| 153            | 2.88 | 227.5         | 169.9 | 46.5  | 1/4    | 7/16       | 9/16   | 13/16   | 1-1/16  |
| 139.5          | 2.65 | 207.5         | 156.4 | 50.6  | 1/4    | 7/16       | 9/16   | 7/8     | 1-1/8   |
| 125            | 2.4  | 186           | 141.6 | 55.8  | 1/4    | 7/16       | 5/8    | 7/8     | 1-3/16  |
| 114.5          | 2.23 | 170.5         | 131.6 | 60.1  | 1/4    | 1/2        | 5/8    | 15/16   | 1-1/4   |
| 103.5          | 2.03 | 153.5         | 119.8 | 66.0  | 1/4    | 1/2        | 11/16  | 1       | 1-5/16  |
| 96             | 1.9  | 142.5         | 112.1 | 70.5  | 1/4    | 9/16       | 3/4    | 1-1/16  | 1-7/16  |
| 88             | 1.75 | 131           | 103.3 | 76.6  | 1/4    | 9/16       | 3/4    | 1-1/8   | 1-1/2   |
| 81             | 1.61 | 120.5         | 95.0  | 83.2  | 1/4    | 9/16       | 13/16  | 1-3/16  | 1-5/8   |
| 73             | 1.47 | 108.5         | 86.7  | 91.1  | 1/4    | 9/16       | 13/16  | 1-1/4   | 1-11/16 |
| 65.5           | 1.33 | 97.5          | 78.5  | 100.7 | 7/16   | 11/16      | 15/16  | 1-3/8   | 1-7/8   |
| 51.5           | 1.23 | 76.5          | 72.6  | 108.9 | 7/16   | 3/4        | 1      | 1-1/2   | 1-15/16 |
| 58.5           | 1.19 | 87            | 70.2  | 112.6 | 7/16   | 3/4        | 1      | 1-1/2   | 2       |
| 47             | 1.12 | 70            | 66.1  | 119.6 | 7/16   | 13/16      | 1-1/16 | 1-9/16  | 2-1/8   |
| 52             | 1.07 | 77.5          | 63.1  | 125.2 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 42             | 1.01 | 62.5          | 59.6  | 132.7 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 38             | 0.92 | 56.5          | 54.3  | 145.6 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 31             | 0.83 | 46            | 49.0  | 161.4 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 34             | 0.82 | 50.5          | 48.4  | 163.4 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 27.5           | 0.74 | 41            | 43.7  | 181.1 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| WT10.5 x 100.5 | 2.12 | WT265 x 150   | 125.1 | 63.2  | 1/4    | 1/2        | 11/16  | 1       | 1-5/16  |
| 91             | 1.94 | 136           | 114.5 | 69.1  | 1/4    | 9/16       | 11/16  | 1-1/16  | 1-3/8   |
| 83             | 1.79 | 124           | 105.6 | 74.9  | 1/4    | 9/16       | 3/4    | 1-1/8   | 1-1/2   |
| 73.5           | 1.59 | 109.5         | 93.8  | 84.3  | 1/4    | 9/16       | 13/16  | 1-1/4   | 1-5/8   |
| 66             | 1.44 | 98            | 85.0  | 93.0  | 7/16   | 11/16      | 7/8    | 1-5/16  | 1-3/4   |
| 61             | 1.33 | 91            | 78.5  | 100.7 | 7/16   | 11/16      | 15/16  | 1-3/8   | 1-7/8   |
| 46.5           | 1.23 | 69            | 72.6  | 108.9 | 7/16   | 3/4        | 1      | 1-1/2   | 1-15/16 |
| 55.5           | 1.22 | 82.5          | 72.0  | 109.8 | 7/16   | 3/4        | 1      | 1-1/2   | 2       |
| 50.5           | 1.12 | 75            | 66.1  | 119.6 | 7/16   | 13/16      | 1-1/16 | 1-9/16  | 2-1/8   |
| 41.5           | 1.11 | 61.5          | 65.5  | 120.7 | 7/16   | 13/16      | 1-1/16 | 1-9/16  | 2-1/8   |
| 36.5           | 0.98 | 54.5          | 57.8  | 136.7 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 34             | 0.91 | 50.5          | 53.7  | 147.2 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 28.5           | 0.84 | 37            | 49.6  | 159.5 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 31             | 0.84 | 46            | 49.6  | 159.5 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 25             | 0.75 | 36            | 44.3  | 178.6 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 27.5           | 0.74 | 42.5          | 43.7  | 181.1 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 22             | 0.66 | 33            | 38.9  | 203.0 | 5/8    | 1          | 1-5/16 | 1-7/8   | 2-3/8   |
| 24             | 0.66 | 41            | 38.9  | 203.0 | 5/8    | 1          | 1-5/16 | 1-7/8   | 2-3/8   |
| WT9 x 87.5     | 2.08 | WT230 x 130   | 122.7 | 64.4  | 1/4    | 1/2        | 11/16  | 1       | 1-5/16  |
| 79             | 1.9  | 117.5         | 112.1 | 70.5  | 1/4    | 9/16       | 3/4    | 1-1/16  | 1-7/16  |

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|-------------|------|---------------|-------|-------|--------|------------|--------|---------|---------|
| WT9 x 71.5  | 1.74 | WT230 x 106.5 | 102.7 | 77.0  | 1/4    | 9/16       | 3/4    | 1-1/8   | 1-1/2   |
| 65          | 1.59 | 96.5          | 93.8  | 84.3  | 1/4    | 9/16       | 13/16  | 1-1/4   | 1-5/8   |
| 59.5        | 1.46 | 88.5          | 86.1  | 91.8  | 7/16   | 11/16      | 7/8    | 1-5/16  | 1-3/4   |
| 53          | 1.31 | 79            | 77.3  | 102.3 | 7/16   | 3/4        | 15/16  | 1-7/16  | 1-7/8   |
| 48.5        | 1.21 | 72            | 71.4  | 110.7 | 7/16   | 3/4        | 1      | 1-1/2   | 2       |
| 43          | 1.08 | 64            | 63.7  | 124.1 | 7/16   | 13/16      | 1-1/16 | 1-5/8   | 2-1/8   |
| 35.5        | 1.07 | 53            | 63.1  | 125.2 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 32.5        | 0.98 | 48.5          | 57.8  | 136.7 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 38          | 0.96 | 56.5          | 56.6  | 139.6 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 30          | 0.91 | 44.5          | 53.7  | 147.2 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 27.5        | 0.84 | 41            | 49.6  | 159.5 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 25          | 0.77 | 37            | 45.4  | 174.0 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 23          | 0.77 | 34            | 45.4  | 174.0 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 20          | 0.68 | 30            | 40.1  | 197.0 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 17.5        | 0.6  | 26            | 35.4  | 223.3 | 5/8    | 1          | 1-5/16 | 1-7/8   | 2-3/8   |
| WT8 x 50    | 1.35 | WT205 x 74.5  | 79.7  | 99.2  | 7/16   | 11/16      | 15/16  | 1-3/8   | 1-13/16 |
| 44.5        | 1.21 | 66            | 71.4  | 110.7 | 7/16   | 3/4        | 1      | 1-1/2   | 2       |
| 38.5        | 1.06 | 57            | 62.5  | 126.4 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 28.5        | 0.94 | 42.5          | 55.5  | 142.5 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 33.5        | 0.93 | 50            | 54.9  | 144.1 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 25          | 0.83 | 37            | 49.0  | 161.4 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 22.5        | 0.76 | 33.5          | 44.8  | 176.3 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 20          | 0.68 | 30            | 40.1  | 197.0 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 18          | 0.61 | 26.5          | 36.0  | 219.6 | 5/8    | 1          | 1-5/16 | 1-7/8   | 2-3/8   |
| 15.5        | 0.58 | 23            | 34.2  | 231.0 | 5/8    | 1          | 1-5/16 | 1-7/8   | 2-3/8   |
| 13          | 0.49 | 19.5          | 28.9  | 273.4 | 13/16  | 1-1/8      | 1-7/16 | 2       | 2-9/16  |
| WT7 x 404   | 6.86 | WT180 x 601   | 404.7 | 19.5  | 1/4    | 1/4        | 1/4    | 3/8     | 1/2     |
| 365         | 6.39 | 543           | 377.0 | 21.0  | 1/4    | 1/4        | 1/4    | 3/8     | 1/2     |
| 332.5       | 5.95 | 495           | 351.1 | 22.5  | 1/4    | 1/4        | 5/16   | 7/16    | 9/16    |
| 302.5       | 5.53 | 450           | 326.3 | 24.2  | 1/4    | 1/4        | 5/16   | 7/16    | 9/16    |
| 275         | 5.14 | 409           | 303.3 | 26.1  | 1/4    | 1/4        | 5/16   | 1/2     | 5/8     |
| 250         | 4.76 | 372           | 280.8 | 28.1  | 1/4    | 1/4        | 3/8    | 1/2     | 11/16   |
| 227.5       | 4.42 | 338.5         | 260.8 | 30.3  | 1/4    | 5/16       | 3/8    | 9/16    | 3/4     |
| 213         | 4.18 | 317           | 246.6 | 32.1  | 1/4    | 5/16       | 3/8    | 9/16    | 3/4     |
| 199         | 3.95 | 296           | 233.1 | 33.9  | 1/4    | 5/16       | 7/16   | 5/8     | 13/16   |
| 185         | 3.71 | 275.5         | 218.9 | 36.1  | 1/4    | 5/16       | 7/16   | 5/8     | 7/8     |
| 171         | 3.21 | 254.5         | 189.4 | 41.7  | 1/4    | 3/8        | 1/2    | 3/4     | 1       |
| 155.5       | 2.96 | 231.5         | 174.6 | 45.3  | 1/4    | 7/16       | 9/16   | 13/16   | 1-1/16  |
| 141.5       | 2.72 | 210.5         | 160.5 | 49.3  | 1/4    | 7/16       | 9/16   | 7/8     | 1-1/8   |
| 128.5       | 2.49 | 191           | 146.9 | 53.8  | 1/4    | 7/16       | 9/16   | 7/8     | 1-1/8   |
| 116.5       | 2.28 | 173.5         | 134.5 | 58.8  | 1/4    | 1/2        | 5/8    | 15/16   | 1-3/16  |
| 105.5       | 2.11 | 157           | 124.5 | 63.5  | 1/4    | 1/2        | 11/16  | 1       | 1-5/16  |
| 96.5        | 1.93 | 143.5         | 113.9 | 69.4  | 1/4    | 9/16       | 11/16  | 1-1/16  | 1-3/8   |
| 88          | 1.76 | 131           | 103.8 | 76.1  | 1/4    | 9/16       | 3/4    | 1-1/8   | 1-1/2   |
| 79.5        | 1.62 | 118.5         | 95.6  | 82.7  | 1/4    | 9/16       | 13/16  | 1-3/16  | 1-5/8   |
| 72.5        | 1.53 | 108           | 90.3  | 87.6  | 1/4    | 9/16       | 13/16  | 1-1/4   | 1-11/16 |
| 66          | 1.4  | 98            | 82.6  | 95.7  | 7/16   | 11/16      | 15/16  | 1-3/8   | 1-13/16 |

**X790 / Y729 - WT Members**  
**Wide Flange Structural Steel "T" Members**  
**CAFCO® 300 Series & ISOLATEK® Type 300 Series**

| ASTM Desig. | W/D  | Metric Desig. | M/D   | Hp/A  | 1-Hour | 1-1/2 Hour | 2-Hour | 3-Hour  | 4-Hour  |
|-------------|------|---------------|-------|-------|--------|------------|--------|---------|---------|
| WT7 x 60    | 1.29 | WT180 x 89.5  | 76.1  | 103.9 | 7/16   | 3/4        | 15/16  | 1-7/16  | 1-7/8   |
| 41          | 1.21 | 61            | 71.4  | 110.7 | 7/16   | 3/4        | 1      | 1-1/2   | 2       |
| 54.5        | 1.17 | 81            | 69.0  | 114.5 | 7/16   | 13/16      | 1-1/16 | 1-9/16  | 2-1/16  |
| 37          | 1.1  | 55            | 64.9  | 121.8 | 7/16   | 13/16      | 1-1/16 | 1-5/8   | 2-1/8   |
| 49.5        | 1.07 | 73.5          | 63.1  | 125.2 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 45          | 1.07 | 67            | 63.1  | 125.2 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 34          | 1.02 | 50.5          | 60.2  | 131.4 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 30.5        | 0.92 | 45.5          | 54.3  | 145.6 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 26.5        | 0.9  | 39.5          | 53.1  | 148.9 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 24          | 0.82 | 36            | 48.4  | 163.4 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 21.5        | 0.74 | 32            | 43.7  | 181.1 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 19          | 0.7  | 28.5          | 41.3  | 191.4 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 17          | 0.63 | 25.5          | 37.2  | 212.7 | 5/8    | 1          | 1-5/16 | 1-7/8   | 2-3/8   |
| 15          | 0.56 | 22.5          | 33.0  | 239.3 | 13/16  | 1-1/8      | 1-7/16 | 2       | 2-9/16  |
| 13          | 0.55 | 19.5          | 32.5  | 243.6 | 13/16  | 1-1/8      | 1-7/16 | 2       | 2-9/16  |
| 11          | 0.47 | 16.5          | 27.7  | 285.1 | 13/16  | 1-1/8      | 1-7/16 | 2       | 2-9/16  |
| WT6 x 168   | 3.93 | WT155 x 250   | 231.9 | 34.1  | 1/4    | 5/16       | 7/16   | 5/8     | 13/16   |
| 152.5       | 3.64 | 227           | 214.8 | 36.8  | 1/4    | 5/16       | 7/16   | 5/8     | 7/8     |
| 139.5       | 3.38 | 207.5         | 199.4 | 39.6  | 1/4    | 3/8        | 1/2    | 11/16   | 15/16   |
| 126         | 3.1  | 187.5         | 182.9 | 43.2  | 1/4    | 3/8        | 1/2    | 3/4     | 1       |
| 115         | 2.87 | 171           | 169.3 | 46.7  | 1/4    | 7/16       | 9/16   | 13/16   | 1-1/16  |
| 105         | 2.66 | 156.5         | 156.9 | 50.4  | 1/4    | 7/16       | 9/16   | 7/8     | 1-1/8   |
| 95          | 2.44 | 141.5         | 144.0 | 54.9  | 1/4    | 7/16       | 9/16   | 7/8     | 1-1/8   |
| 85          | 2.21 | 126.5         | 130.4 | 60.6  | 1/4    | 1/2        | 5/8    | 15/16   | 1-1/4   |
| 76          | 2.01 | 112.5         | 118.6 | 66.7  | 1/4    | 1/2        | 11/16  | 1       | 1-3/8   |
| 68          | 1.81 | 101           | 106.8 | 74.0  | 1/4    | 9/16       | 3/4    | 1-1/8   | 1-7/16  |
| 60          | 1.62 | 89.5          | 95.6  | 82.7  | 1/4    | 9/16       | 13/16  | 1-3/16  | 1-5/8   |
| 53          | 1.45 | 79            | 85.6  | 92.4  | 7/16   | 11/16      | 7/8    | 1-5/16  | 1-3/4   |
| 48          | 1.32 | 71.5          | 77.9  | 101.5 | 7/16   | 11/16      | 15/16  | 1-3/8   | 1-7/8   |
| 43.5        | 1.21 | 64.5          | 71.4  | 110.7 | 7/16   | 3/4        | 1      | 1-1/2   | 2       |
| 39.5        | 1.1  | 58.5          | 64.9  | 121.8 | 7/16   | 13/16      | 1-1/16 | 1-5/8   | 2-1/8   |
| 36          | 1.01 | 53.5          | 59.6  | 132.7 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 29          | 0.92 | 43            | 54.3  | 145.6 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 32.5        | 0.91 | 48.5          | 53.7  | 147.2 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 25          | 0.9  | 37            | 53.1  | 148.9 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 26.5        | 0.84 | 39.5          | 49.6  | 159.5 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 22.5        | 0.81 | 33.5          | 47.8  | 165.4 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 20          | 0.73 | 30            | 43.1  | 183.5 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 17.5        | 0.7  | 26            | 41.3  | 191.4 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 15          | 0.6  | 22.5          | 35.4  | 223.3 | 5/8    | 1          | 1-5/16 | 1-7/8   | 2-3/8   |
| 13          | 0.52 | 19.5          | 30.7  | 257.7 | 13/16  | 1-1/8      | 1-7/16 | 2       | 2-9/16  |
| 11          | 0.55 | 16.5          | 32.5  | 243.6 | 13/16  | 1-1/8      | 1-7/16 | 2       | 2-9/16  |
| 9.5         | 0.48 | 14            | 28.3  | 279.1 | 13/16  | 1-1/8      | 1-7/16 | 2       | 2-9/16  |
| 8           | 0.41 | 12            | 24.2  | 326.8 | 15/16  | 1-1/4      | 1-9/16 | 2-1/8   | 2-11/16 |
| 7           | 0.36 | 10.5          | 21.2  | 372.2 | 15/16  | 1-1/4      | 1-9/16 | 2-1/8   | 2-11/16 |
| WT5 x 56    | 1.77 | WT125 x 83.5  | 104.4 | 75.7  | 1/4    | 9/16       | 3/4    | 1-1/8   | 1-1/2   |
| 50          | 1.61 | 74.5          | 95.0  | 83.2  | 1/4    | 9/16       | 13/16  | 1-3/16  | 1-5/8   |

**X790 / Y729 - WT Members**  
**Wide Flange Structural Steel "T" Members**  
**CAFCO® 300 Series & ISOLATEK® Type 300 Series**

| ASTM Desig. | W/D  | Metric Desig. | M/D  | Hp/A  | 1-Hour | 1-1/2 Hour | 2-Hour | 3-Hour  | 4-Hour  |
|-------------|------|---------------|------|-------|--------|------------|--------|---------|---------|
| WT5 x 44    | 1.43 | WT125 x 65.5  | 84.4 | 93.7  | 7/16   | 11/16      | 7/8    | 1-5/16  | 1-3/4   |
| 38.5        | 1.27 | 57.5          | 74.9 | 105.5 | 7/16   | 3/4        | 1      | 1-7/16  | 1-15/16 |
| 34          | 1.13 | 50.5          | 66.7 | 118.6 | 7/16   | 13/16      | 1-1/16 | 1-9/16  | 2-1/16  |
| 30          | 1.01 | 44.5          | 59.6 | 132.7 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 27          | 0.91 | 40            | 53.7 | 147.2 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 22.5        | 0.88 | 33.5          | 51.9 | 152.3 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 24.5        | 0.83 | 36.5          | 49.0 | 161.4 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 19.5        | 0.77 | 29            | 45.4 | 174.0 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 15          | 0.69 | 22.5          | 40.7 | 194.2 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 16.5        | 0.65 | 24.5          | 38.4 | 206.1 | 5/8    | 1          | 1-5/16 | 1-7/8   | 2-3/8   |
| 13          | 0.61 | 19.5          | 36.0 | 219.6 | 5/8    | 1          | 1-5/16 | 1-7/8   | 2-3/8   |
| 9.5         | 0.53 | 14            | 31.3 | 252.8 | 13/16  | 1-1/8      | 1-7/16 | 2       | 2-9/16  |
| 11          | 0.51 | 16.5          | 30.1 | 262.7 | 13/16  | 1-1/8      | 1-7/16 | 2       | 2-9/16  |
| 8.5         | 0.48 | 12.5          | 28.3 | 279.1 | 13/16  | 1-1/8      | 1-7/16 | 2       | 2-9/16  |
| 7.5         | 0.42 | 11            | 24.8 | 319.0 | 15/16  | 1-1/4      | 1-9/16 | 2-1/8   | 2-11/16 |
| 6           | 0.34 | 9             | 20.1 | 394.1 | 15/16  | 1-1/4      | 1-9/16 | 2-1/8   | 2-11/16 |
| WT4 x 33.5  | 1.34 | WT100 x 50    | 79.1 | 100.0 | 7/16   | 11/16      | 15/16  | 1-3/8   | 1-13/16 |
| 29          | 1.18 | 43            | 69.6 | 113.5 | 7/16   | 3/4        | 1      | 1-1/2   | 2       |
| 24          | 0.99 | 35.5          | 58.4 | 135.3 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 20          | 0.84 | 29.5          | 49.6 | 159.5 | 7/16   | 13/16      | 1-1/8  | 1-5/8   | 2-1/8   |
| 17.5        | 0.74 | 26            | 43.7 | 181.1 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 14          | 0.67 | 21            | 39.5 | 200.0 | 5/8    | 1          | 1-5/16 | 1-7/8   | 2-3/8   |
| 15.5        | 0.66 | 23            | 38.9 | 203.0 | 5/8    | 1          | 1-5/16 | 1-7/8   | 2-3/8   |
| 12          | 0.58 | 18            | 34.2 | 231.0 | 5/8    | 1          | 1-5/16 | 1-7/8   | 2-3/8   |
| 10.5        | 0.57 | 15.5          | 33.6 | 235.1 | 13/16  | 1-1/8      | 1-7/16 | 2       | 2-9/16  |
| 9           | 0.49 | 13.5          | 28.9 | 273.4 | 13/16  | 1-1/8      | 1-7/16 | 2       | 2-9/16  |
| 7.5         | 0.47 | 11            | 27.7 | 285.1 | 13/16  | 1-1/8      | 1-7/16 | 2       | 2-9/16  |
| 6.5         | 0.41 | 9.5           | 24.2 | 326.8 | 15/16  | 1-1/4      | 1-9/16 | 2-1/8   | 2-11/16 |
|             |      |               |      |       | 15/16  | 2-13/16    | 3-3/4  | 5-5/8   | 7-1/2   |
| WT3 x 12.5  | 0.69 | WT75 x 18.5   | 40.7 | 194.2 | 9/16   | 15/16      | 1-1/4  | 1-13/16 | 2-5/16  |
| 8           | 0.57 | 11            | 33.6 | 235.1 | 13/16  | 1-1/8      | 1-7/16 | 2       | 2-9/16  |
| 10          | 0.56 | 15            | 33.0 | 239.3 | 13/16  | 1-1/8      | 1-7/16 | 2       | 2-9/16  |
| 6           | 0.44 | 9             | 26.0 | 304.5 | 13/16  | 1-1/8      | 1-7/16 | 2       | 2-9/16  |
| 7.5         | 0.42 | 12            | 24.8 | 319.0 | 15/16  | 1-1/4      | 1-9/16 | 2-1/8   | 2-11/16 |
| 4.5         | 0.33 | 7             | 19.5 | 406.0 | 15/16  | 1-1/4      | 1-9/16 | 2-1/8   | 2-11/16 |
| WT2.5 x 9.5 | 0.63 | WT65 x 14     | 37.2 | 212.7 | 5/8    | 1          | 1-5/16 | 1-7/8   | 2-3/8   |
| 8           | 0.54 | 12            | 31.9 | 248.1 | 13/16  | 1-1/8      | 1-7/16 | 2       | 2-9/16  |
| WT2 x 6.5   | 0.54 | WT50 x 9.5    | 31.9 | 248.1 | 13/16  | 1-1/8      | 1-7/16 | 2       | 2-9/16  |