### ASTM Desig. W/D Metric Desig. M/D Hp/A 1-Hour 1-1/2 Hour 2-Hour 3-Hour 4-Hour

<table>
<thead>
<tr>
<th>Desig.</th>
<th>W/D</th>
<th>Metric Desig.</th>
<th>M/D</th>
<th>Hp/A</th>
<th>1-Hour</th>
<th>1-1/2 Hour</th>
<th>2-Hour</th>
<th>3-Hour</th>
<th>4-Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>W44 x 335</td>
<td>2.52</td>
<td>W1120 x 498</td>
<td>148.7</td>
<td>53.2</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>5/8</td>
<td>3/4</td>
</tr>
<tr>
<td>290</td>
<td>2.2</td>
<td>432</td>
<td>129.8</td>
<td>60.9</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>11/16</td>
<td>13/16</td>
</tr>
<tr>
<td>262</td>
<td>2</td>
<td>390</td>
<td>118.0</td>
<td>67.0</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>7/8</td>
</tr>
<tr>
<td>230</td>
<td>1.77</td>
<td>342</td>
<td>104.4</td>
<td>75.7</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>13/16</td>
<td>1</td>
</tr>
<tr>
<td>W40 x 593</td>
<td>4.56</td>
<td>W1000 x 883</td>
<td>269.0</td>
<td>29.4</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>7/16</td>
<td>1/2</td>
</tr>
<tr>
<td>503</td>
<td>3.93</td>
<td>748</td>
<td>231.9</td>
<td>34.1</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>7/16</td>
<td>1/2</td>
</tr>
<tr>
<td>397</td>
<td>3.15</td>
<td>591</td>
<td>185.9</td>
<td>42.5</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>5/8</td>
</tr>
<tr>
<td>392</td>
<td>3.38</td>
<td>583</td>
<td>199.4</td>
<td>39.6</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>5/8</td>
</tr>
<tr>
<td>372</td>
<td>2.98</td>
<td>554</td>
<td>175.8</td>
<td>45.0</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>9/16</td>
<td>11/16</td>
</tr>
<tr>
<td>362</td>
<td>2.9</td>
<td>539</td>
<td>171.1</td>
<td>46.2</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>9/16</td>
<td>11/16</td>
</tr>
<tr>
<td>331</td>
<td>2.9</td>
<td>493</td>
<td>171.1</td>
<td>46.2</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>9/16</td>
<td>11/16</td>
</tr>
<tr>
<td>327</td>
<td>2.89</td>
<td>487</td>
<td>170.5</td>
<td>46.4</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>9/16</td>
<td>11/16</td>
</tr>
<tr>
<td>324</td>
<td>2.61</td>
<td>482</td>
<td>154.0</td>
<td>51.3</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>5/8</td>
<td>3/4</td>
</tr>
<tr>
<td>297</td>
<td>2.41</td>
<td>442</td>
<td>142.2</td>
<td>55.6</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>5/8</td>
<td>3/4</td>
</tr>
<tr>
<td>278</td>
<td>2.48</td>
<td>414</td>
<td>146.3</td>
<td>54.0</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>5/8</td>
<td>3/4</td>
</tr>
<tr>
<td>277</td>
<td>2.25</td>
<td>412</td>
<td>132.8</td>
<td>59.5</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>11/16</td>
<td>13/16</td>
</tr>
<tr>
<td>264</td>
<td>2.36</td>
<td>393</td>
<td>139.2</td>
<td>56.8</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>5/8</td>
<td>13/16</td>
</tr>
<tr>
<td>249</td>
<td>2.02</td>
<td>371</td>
<td>119.2</td>
<td>66.3</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>7/8</td>
</tr>
<tr>
<td>235</td>
<td>2.1</td>
<td>350</td>
<td>123.9</td>
<td>63.8</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16</td>
<td>11/16</td>
<td>7/8</td>
</tr>
<tr>
<td>215</td>
<td>1.76</td>
<td>321</td>
<td>103.8</td>
<td>76.1</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>13/16</td>
<td>1</td>
</tr>
<tr>
<td>211</td>
<td>1.9</td>
<td>314</td>
<td>112.1</td>
<td>70.5</td>
<td>7/16</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>15/16</td>
</tr>
<tr>
<td>199</td>
<td>1.64</td>
<td>296</td>
<td>96.8</td>
<td>81.7</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>7/8</td>
<td>1</td>
</tr>
<tr>
<td>183</td>
<td>1.66</td>
<td>272</td>
<td>97.9</td>
<td>80.7</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>7/8</td>
<td>1</td>
</tr>
<tr>
<td>167</td>
<td>1.53</td>
<td>249</td>
<td>90.3</td>
<td>87.6</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>7/8</td>
<td>1/1-1/6</td>
</tr>
<tr>
<td>149</td>
<td>1.37</td>
<td>222</td>
<td>80.8</td>
<td>97.8</td>
<td>1/2</td>
<td>3/4</td>
<td>3/4</td>
<td>15/16</td>
<td>1-3/16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Desig.</th>
<th>W/D</th>
<th>Metric Desig.</th>
<th>M/D</th>
<th>Hp/A</th>
<th>1-Hour</th>
<th>1-1/2 Hour</th>
<th>2-Hour</th>
<th>3-Hour</th>
<th>4-Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>650</td>
<td>5.08</td>
<td>967</td>
<td>299.7</td>
<td>26.4</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>7/16</td>
</tr>
<tr>
<td>527</td>
<td>4.22</td>
<td>784</td>
<td>249.0</td>
<td>31.7</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>7/16</td>
<td>1/2</td>
</tr>
<tr>
<td>439</td>
<td>3.57</td>
<td>653</td>
<td>210.6</td>
<td>37.5</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>9/16</td>
</tr>
<tr>
<td>393</td>
<td>3.25</td>
<td>585</td>
<td>191.8</td>
<td>41.2</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>5/8</td>
</tr>
<tr>
<td>359</td>
<td>2.97</td>
<td>534</td>
<td>175.2</td>
<td>45.1</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>9/16</td>
<td>11/16</td>
</tr>
<tr>
<td>328</td>
<td>2.73</td>
<td>488</td>
<td>161.1</td>
<td>49.1</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>9/16</td>
<td>11/16</td>
</tr>
<tr>
<td>300</td>
<td>2.5</td>
<td>446</td>
<td>147.5</td>
<td>53.6</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>5/8</td>
<td>3/4</td>
</tr>
<tr>
<td>280</td>
<td>2.35</td>
<td>417</td>
<td>138.7</td>
<td>57.0</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>5/8</td>
<td>13/16</td>
</tr>
<tr>
<td>260</td>
<td>2.18</td>
<td>387</td>
<td>128.6</td>
<td>61.5</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>11/16</td>
<td>13/16</td>
</tr>
<tr>
<td>256</td>
<td>2.37</td>
<td>381</td>
<td>139.8</td>
<td>56.5</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>5/8</td>
<td>13/16</td>
</tr>
<tr>
<td>245</td>
<td>2.08</td>
<td>365</td>
<td>122.7</td>
<td>64.4</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16</td>
<td>11/16</td>
<td>7/8</td>
</tr>
<tr>
<td>232</td>
<td>2.15</td>
<td>345</td>
<td>126.9</td>
<td>62.3</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>11/16</td>
<td>7/8</td>
</tr>
<tr>
<td>230</td>
<td>1.95</td>
<td>342</td>
<td>115.1</td>
<td>68.7</td>
<td>7/16</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>15/16</td>
</tr>
</tbody>
</table>
# Protected Roof Deck

CAFCO® BLAZE-SHIELD® II, HP & ISOLATEK® Type II, HP

### ASTM Designation

<table>
<thead>
<tr>
<th>Desig.</th>
<th>W/D</th>
<th>Metric Desig.</th>
<th>M/D</th>
<th>Hp/A</th>
<th>1-Hour</th>
<th>1-1/2 Hour</th>
<th>2-Hour</th>
<th>3-Hour</th>
<th>4-Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>W36 x 210</td>
<td>1.96</td>
<td>W920 x 313</td>
<td>115.6</td>
<td>68.4</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>7/8</td>
</tr>
<tr>
<td>194</td>
<td>1.81</td>
<td>289</td>
<td>106.8</td>
<td>74.0</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>13/16</td>
<td>15/16</td>
</tr>
<tr>
<td>182</td>
<td>1.72</td>
<td>271</td>
<td>101.5</td>
<td>77.9</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>13/16</td>
<td>1</td>
</tr>
<tr>
<td>170</td>
<td>1.6</td>
<td>253</td>
<td>94.4</td>
<td>83.7</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>7/8</td>
<td>1-1/16</td>
</tr>
<tr>
<td>160</td>
<td>1.51</td>
<td>238</td>
<td>89.1</td>
<td>88.7</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>7/8</td>
<td>1-1/16</td>
</tr>
<tr>
<td>150</td>
<td>1.43</td>
<td>223</td>
<td>84.4</td>
<td>93.7</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>15/16</td>
<td>1-1/8</td>
</tr>
<tr>
<td>135</td>
<td>1.29</td>
<td>201</td>
<td>76.1</td>
<td>103.9</td>
<td>9/16</td>
<td>3/4</td>
<td>3/4</td>
<td>1</td>
<td>1-3/16</td>
</tr>
<tr>
<td>W33 x 387</td>
<td>3.31</td>
<td>W840 x 576</td>
<td>195.3</td>
<td>40.5</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>5/8</td>
</tr>
<tr>
<td>354</td>
<td>3.05</td>
<td>527</td>
<td>180.0</td>
<td>43.9</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>9/16</td>
<td>5/8</td>
</tr>
<tr>
<td>318</td>
<td>2.77</td>
<td>473</td>
<td>163.4</td>
<td>48.4</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>9/16</td>
<td>11/16</td>
</tr>
<tr>
<td>291</td>
<td>2.55</td>
<td>433</td>
<td>150.5</td>
<td>52.5</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>5/8</td>
<td>3/4</td>
</tr>
<tr>
<td>263</td>
<td>2.33</td>
<td>392</td>
<td>137.5</td>
<td>57.5</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>11/16</td>
<td>13/16</td>
</tr>
<tr>
<td>241</td>
<td>2.13</td>
<td>359</td>
<td>125.7</td>
<td>62.9</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>11/16</td>
<td>7/8</td>
</tr>
<tr>
<td>221</td>
<td>1.97</td>
<td>329</td>
<td>116.2</td>
<td>68.0</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>7/8</td>
</tr>
<tr>
<td>201</td>
<td>1.79</td>
<td>299</td>
<td>105.6</td>
<td>74.9</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>13/16</td>
<td>15/16</td>
</tr>
<tr>
<td>169</td>
<td>1.7</td>
<td>251</td>
<td>100.3</td>
<td>78.8</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>13/16</td>
<td>1</td>
</tr>
<tr>
<td>152</td>
<td>1.53</td>
<td>226</td>
<td>90.3</td>
<td>87.6</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>7/8</td>
<td>1-1/16</td>
</tr>
<tr>
<td>141</td>
<td>1.43</td>
<td>210</td>
<td>84.4</td>
<td>93.7</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>15/16</td>
<td>1-1/8</td>
</tr>
<tr>
<td>130</td>
<td>1.32</td>
<td>193</td>
<td>77.9</td>
<td>101.5</td>
<td>1/2</td>
<td>3/4</td>
<td>3/4</td>
<td>1</td>
<td>1-3/16</td>
</tr>
<tr>
<td>118</td>
<td>1.21</td>
<td>176</td>
<td>71.4</td>
<td>110.7</td>
<td>9/16</td>
<td>13/16</td>
<td>13/16</td>
<td>1-1/16</td>
<td>1-1/4</td>
</tr>
<tr>
<td>W30 x 391</td>
<td>3.59</td>
<td>W760 x 582</td>
<td>211.8</td>
<td>37.3</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>9/16</td>
</tr>
<tr>
<td>357</td>
<td>3.31</td>
<td>531</td>
<td>195.3</td>
<td>40.5</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>5/8</td>
</tr>
<tr>
<td>326</td>
<td>3.05</td>
<td>484</td>
<td>180.0</td>
<td>43.9</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>9/16</td>
<td>5/8</td>
</tr>
<tr>
<td>292</td>
<td>2.73</td>
<td>434</td>
<td>161.1</td>
<td>49.1</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>9/16</td>
<td>11/16</td>
</tr>
<tr>
<td>261</td>
<td>2.46</td>
<td>389</td>
<td>145.1</td>
<td>54.5</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>5/8</td>
<td>3/4</td>
</tr>
<tr>
<td>235</td>
<td>2.24</td>
<td>350</td>
<td>132.2</td>
<td>59.8</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>11/16</td>
<td>13/16</td>
</tr>
<tr>
<td>211</td>
<td>2.01</td>
<td>314</td>
<td>118.6</td>
<td>66.7</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>7/8</td>
</tr>
<tr>
<td>191</td>
<td>1.85</td>
<td>284</td>
<td>109.2</td>
<td>72.4</td>
<td>7/16</td>
<td>9/16</td>
<td>9/16</td>
<td>13/16</td>
<td>15/16</td>
</tr>
<tr>
<td>173</td>
<td>1.66</td>
<td>257</td>
<td>97.9</td>
<td>80.7</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>7/8</td>
<td>1</td>
</tr>
<tr>
<td>148</td>
<td>1.64</td>
<td>220</td>
<td>96.8</td>
<td>81.7</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>7/8</td>
<td>1</td>
</tr>
<tr>
<td>132</td>
<td>1.47</td>
<td>196</td>
<td>86.7</td>
<td>91.1</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>15/16</td>
<td>1-1/8</td>
</tr>
<tr>
<td>124</td>
<td>1.39</td>
<td>185</td>
<td>82.0</td>
<td>96.4</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>15/16</td>
<td>1-3/16</td>
</tr>
<tr>
<td>116</td>
<td>1.3</td>
<td>173</td>
<td>76.7</td>
<td>103.1</td>
<td>9/16</td>
<td>3/4</td>
<td>3/4</td>
<td>1</td>
<td>1-3/16</td>
</tr>
<tr>
<td>108</td>
<td>1.21</td>
<td>161</td>
<td>71.4</td>
<td>110.7</td>
<td>9/16</td>
<td>13/16</td>
<td>13/16</td>
<td>1-1/16</td>
<td>1-1/4</td>
</tr>
<tr>
<td>99</td>
<td>1.12</td>
<td>147</td>
<td>66.1</td>
<td>119.6</td>
<td>9/16</td>
<td>13/16</td>
<td>13/16</td>
<td>1-1/8</td>
<td>1-5/16</td>
</tr>
<tr>
<td>90</td>
<td>1.02</td>
<td>134</td>
<td>60.2</td>
<td>131.4</td>
<td>5/8</td>
<td>7/8</td>
<td>7/8</td>
<td>1-3/16</td>
<td>1-7/16</td>
</tr>
<tr>
<td>W27 x 539</td>
<td>5.08</td>
<td>W690 x 802</td>
<td>299.7</td>
<td>26.4</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>7/16</td>
</tr>
<tr>
<td>368</td>
<td>3.64</td>
<td>548</td>
<td>214.8</td>
<td>36.8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>7/16</td>
<td>9/16</td>
</tr>
</tbody>
</table>
### ASTM Designation

<table>
<thead>
<tr>
<th>ASTM Design.</th>
<th>W/D</th>
<th>Metric Design.</th>
<th>M/D</th>
<th>Hp/A</th>
<th>1-Hour</th>
<th>1-1/2 Hour</th>
<th>2-Hour</th>
<th>3-Hour</th>
<th>4-Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>336</td>
<td>3.36</td>
<td>W690 x 500</td>
<td>198.2</td>
<td>39.9</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>5/8</td>
</tr>
<tr>
<td>307</td>
<td>3.11</td>
<td>457 183.5</td>
<td>43.1</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>5/8</td>
<td></td>
</tr>
<tr>
<td>281</td>
<td>2.86</td>
<td>418 168.7</td>
<td>46.8</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>9/16</td>
<td>11/16</td>
<td></td>
</tr>
<tr>
<td>258</td>
<td>2.64</td>
<td>384 155.8</td>
<td>50.8</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>5/8</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>235</td>
<td>2.43</td>
<td>350 143.4</td>
<td>55.1</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>5/8</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>217</td>
<td>2.26</td>
<td>323 133.3</td>
<td>59.3</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>11/16</td>
<td>13/16</td>
<td></td>
</tr>
<tr>
<td>194</td>
<td>2.03</td>
<td>289 119.8</td>
<td>66.0</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>7/8</td>
<td></td>
</tr>
<tr>
<td>178</td>
<td>1.87</td>
<td>265 110.3</td>
<td>71.6</td>
<td>7/16</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>15/16</td>
<td></td>
</tr>
<tr>
<td>161</td>
<td>1.7</td>
<td>240 100.3</td>
<td>78.8</td>
<td>7/16</td>
<td>9/16</td>
<td>9/16</td>
<td>5/8</td>
<td>13/16</td>
<td></td>
</tr>
<tr>
<td>146</td>
<td>1.55</td>
<td>217 91.5</td>
<td>84.4</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>7/8</td>
<td>1-1/16</td>
<td></td>
</tr>
<tr>
<td>129</td>
<td>1.56</td>
<td>192 92.0</td>
<td>85.9</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>7/8</td>
<td>1-1/16</td>
<td></td>
</tr>
<tr>
<td>114</td>
<td>1.39</td>
<td>170 82.0</td>
<td>96.4</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>13/16</td>
<td>1-3/16</td>
<td></td>
</tr>
<tr>
<td>102</td>
<td>1.24</td>
<td>152 73.2</td>
<td>108.1</td>
<td>3/4</td>
<td>3/4</td>
<td>3/4</td>
<td>1</td>
<td>1-1/4</td>
<td></td>
</tr>
<tr>
<td>94</td>
<td>1.15</td>
<td>140 67.9</td>
<td>116.5</td>
<td>9/16</td>
<td>13/16</td>
<td>13/16</td>
<td>1-1/16</td>
<td>1-5/16</td>
<td></td>
</tr>
<tr>
<td>84</td>
<td>1.03</td>
<td>125 60.8</td>
<td>130.1</td>
<td>5/8</td>
<td>7/8</td>
<td>7/8</td>
<td>1-3/16</td>
<td>1-3/8</td>
<td></td>
</tr>
<tr>
<td>W24 x 370</td>
<td>3.98</td>
<td>W610 x 551</td>
<td>234.8</td>
<td>33.7</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>7/16</td>
<td>1/2</td>
</tr>
<tr>
<td>336</td>
<td>3.66</td>
<td>496 215.9</td>
<td>36.6</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>7/16</td>
<td>9/16</td>
<td></td>
</tr>
<tr>
<td>279</td>
<td>3.11</td>
<td>415 183.5</td>
<td>43.1</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>5/8</td>
<td></td>
</tr>
<tr>
<td>250</td>
<td>2.81</td>
<td>372 165.8</td>
<td>47.7</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>9/16</td>
<td>11/16</td>
<td></td>
</tr>
<tr>
<td>229</td>
<td>2.6</td>
<td>341 153.4</td>
<td>51.5</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>5/8</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>207</td>
<td>2.36</td>
<td>307 139.2</td>
<td>56.8</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>5/8</td>
<td>13/16</td>
<td></td>
</tr>
<tr>
<td>192</td>
<td>2.2</td>
<td>285 129.8</td>
<td>60.9</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>11/16</td>
<td>13/16</td>
<td></td>
</tr>
<tr>
<td>176</td>
<td>2.03</td>
<td>262 119.8</td>
<td>66.0</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>7/8</td>
<td></td>
</tr>
<tr>
<td>162</td>
<td>1.88</td>
<td>241 110.9</td>
<td>71.3</td>
<td>7/16</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>15/16</td>
<td></td>
</tr>
<tr>
<td>146</td>
<td>1.7</td>
<td>217 100.3</td>
<td>78.8</td>
<td>7/16</td>
<td>9/16</td>
<td>5/8</td>
<td>13/16</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>131</td>
<td>1.54</td>
<td>195 90.9</td>
<td>87.0</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>7/8</td>
<td>1-1/16</td>
<td></td>
</tr>
<tr>
<td>117</td>
<td>1.38</td>
<td>174 81.4</td>
<td>97.1</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>15/16</td>
<td>1-3/16</td>
<td></td>
</tr>
<tr>
<td>104</td>
<td>1.24</td>
<td>155 73.2</td>
<td>108.1</td>
<td>9/16</td>
<td>3/4</td>
<td>3/4</td>
<td>1</td>
<td>1-1/4</td>
<td></td>
</tr>
<tr>
<td>103</td>
<td>1.4</td>
<td>153 82.6</td>
<td>95.7</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>15/16</td>
<td>1-1/8</td>
<td></td>
</tr>
<tr>
<td>94</td>
<td>1.28</td>
<td>140 75.5</td>
<td>104.7</td>
<td>9/16</td>
<td>3/4</td>
<td>3/4</td>
<td>1</td>
<td>1-1/4</td>
<td></td>
</tr>
<tr>
<td>84</td>
<td>1.15</td>
<td>125 67.9</td>
<td>116.5</td>
<td>9/16</td>
<td>13/16</td>
<td>13/16</td>
<td>1-1/16</td>
<td>1-5/16</td>
<td></td>
</tr>
<tr>
<td>76</td>
<td>1.05</td>
<td>113 62.0</td>
<td>127.6</td>
<td>5/8</td>
<td>7/8</td>
<td>7/8</td>
<td>1-1/8</td>
<td>1-3/8</td>
<td></td>
</tr>
<tr>
<td>68</td>
<td>0.94</td>
<td>101 55.5</td>
<td>142.5</td>
<td>5/8</td>
<td>15/16</td>
<td>15/16</td>
<td>1-1/4</td>
<td>1-2</td>
<td></td>
</tr>
<tr>
<td>62</td>
<td>0.93</td>
<td>92 54.9</td>
<td>144.1</td>
<td>11/16</td>
<td>15/16</td>
<td>15/16</td>
<td>1-1/4</td>
<td>1-2</td>
<td></td>
</tr>
<tr>
<td>55</td>
<td>0.82</td>
<td>82 48.4</td>
<td>163.4</td>
<td>11/16</td>
<td>1</td>
<td>1</td>
<td>1-5/16</td>
<td>1-5/8</td>
<td></td>
</tr>
</tbody>
</table>

### W21 x 201

| W21 x 201 | 2.5 | W530 x 300 | 147.5 | 53.6 | 3/8 | 1/2 | 1/2 | 5/8 | 3/4 |
| 182        | 2.28| 272 134.5   | 58.8 | 3/8 | 1/2 | 1/2 | 11/16| 13/16|
### Protected Roof Deck

CAFCO® BLAZE-SHIELD® II, HP & ISOLATEK® Type II, HP

<table>
<thead>
<tr>
<th>ASTM Desig.</th>
<th>W/D</th>
<th>Metric Desig.</th>
<th>M/D</th>
<th>Hp/A</th>
<th>1-Hour</th>
<th>1-1/2 Hour</th>
<th>2-Hour</th>
<th>3-Hour</th>
<th>4-Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>W21 x 166</td>
<td>2.09</td>
<td>W530 x 248</td>
<td>123.3</td>
<td>64.1</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16</td>
<td>11/16</td>
<td>7/8</td>
</tr>
<tr>
<td>147</td>
<td>1.87</td>
<td>219</td>
<td>110.3</td>
<td>71.6</td>
<td>7/16</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>15/16</td>
</tr>
<tr>
<td>132</td>
<td>1.68</td>
<td>196</td>
<td>99.1</td>
<td>79.8</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>13/16</td>
<td>1</td>
</tr>
<tr>
<td>122</td>
<td>1.57</td>
<td>182</td>
<td>92.6</td>
<td>85.3</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>7/8</td>
<td>1-1/16</td>
</tr>
<tr>
<td>111</td>
<td>1.43</td>
<td>165</td>
<td>84.4</td>
<td>93.7</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>15/16</td>
<td>1-1/8</td>
</tr>
<tr>
<td>101</td>
<td>1.3</td>
<td>150</td>
<td>76.7</td>
<td>103.1</td>
<td>9/16</td>
<td>3/4</td>
<td>3/4</td>
<td>1</td>
<td>1-3/16</td>
</tr>
<tr>
<td>93</td>
<td>1.4</td>
<td>138</td>
<td>82.6</td>
<td>95.7</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>15/16</td>
<td>1-1/8</td>
</tr>
<tr>
<td>83</td>
<td>1.26</td>
<td>123</td>
<td>74.3</td>
<td>106.3</td>
<td>9/16</td>
<td>3/4</td>
<td>3/4</td>
<td>1</td>
<td>1-1/4</td>
</tr>
<tr>
<td>73</td>
<td>1.11</td>
<td>109</td>
<td>65.5</td>
<td>120.7</td>
<td>9/16</td>
<td>13/16</td>
<td>13/16</td>
<td>1-1/8</td>
<td>1-5/16</td>
</tr>
<tr>
<td>68</td>
<td>1.04</td>
<td>101</td>
<td>61.4</td>
<td>128.8</td>
<td>5/8</td>
<td>7/8</td>
<td>7/8</td>
<td>1-1/8</td>
<td>3-3/8</td>
</tr>
<tr>
<td>62</td>
<td>0.95</td>
<td>92</td>
<td>56.1</td>
<td>141.0</td>
<td>5/8</td>
<td>15/16</td>
<td>15/16</td>
<td>1-3/16</td>
<td>1-1/2</td>
</tr>
<tr>
<td>57</td>
<td>0.95</td>
<td>85</td>
<td>56.1</td>
<td>141.0</td>
<td>5/8</td>
<td>15/16</td>
<td>15/16</td>
<td>1-3/16</td>
<td>1-1/2</td>
</tr>
<tr>
<td>55</td>
<td>0.85</td>
<td>82</td>
<td>50.2</td>
<td>157.6</td>
<td>11/16</td>
<td>1</td>
<td>1</td>
<td>1-5/16</td>
<td>1-9/16</td>
</tr>
<tr>
<td>50</td>
<td>0.83</td>
<td>74</td>
<td>49.0</td>
<td>161.4</td>
<td>11/16</td>
<td>1</td>
<td>1</td>
<td>1-5/16</td>
<td>1-5/8</td>
</tr>
<tr>
<td>48</td>
<td>0.75</td>
<td>72</td>
<td>44.3</td>
<td>178.6</td>
<td>3/4</td>
<td>1-1/16</td>
<td>1-1/16</td>
<td>1-3/8</td>
<td>1-11/16</td>
</tr>
<tr>
<td>44</td>
<td>0.74</td>
<td>66</td>
<td>43.7</td>
<td>181.1</td>
<td>3/4</td>
<td>1-1/16</td>
<td>1-1/16</td>
<td>1-3/8</td>
<td>1-11/16</td>
</tr>
</tbody>
</table>

| W18 x 175  | 2.46| W460 x 260    | 145.1| 54.5 | 3/8    | 1/2       | 1/2    | 5/8    | 3/4    |
| 158         | 2.24| 235           | 132.2| 59.8 | 3/8    | 1/2       | 1/2    | 11/16  | 13/16  |
| 143         | 2.05| 213           | 121.0| 65.4 | 3/8    | 9/16      | 9/16   | 3/4    | 7/8    |
| 130         | 1.88| 193           | 110.9| 71.3 | 7/16   | 9/16      | 9/16   | 3/4    | 15/16  |
| 119         | 1.72| 177           | 101.5| 77.9 | 7/16   | 5/8       | 5/8    | 13/16  | 1      |
| 106         | 1.55| 158           | 91.5 | 86.4 | 1/2    | 11/16     | 11/16  | 7/8    | 1-1/16 |
| 97          | 1.42| 144           | 83.8 | 94.4 | 1/2    | 11/16     | 11/16  | 15/16  | 1-1/8  |
| 86          | 1.27| 128           | 74.9 | 105.5| 9/16   | 3/4       | 3/4    | 1      | 1-1/4  |
| 76          | 1.13| 113           | 66.7 | 118.6| 9/16   | 13/16     | 13/16  | 1-1/8  | 1-5/16 |
| 71          | 1.22| 106           | 72.0 | 109.8| 9/16   | 3/4       | 3/4    | 1-1/16 | 1-1/4  |
| 65          | 1.13| 97            | 66.7 | 118.6| 9/16   | 13/16     | 13/16  | 1-1/8  | 1-5/16 |
| 60          | 1.04| 89            | 61.4 | 128.8| 5/8    | 7/8       | 7/8    | 1-1/8  | 3-3/8  |
| 55          | 0.96| 82            | 56.6 | 139.6| 5/8    | 7/8       | 7/8    | 1-3/16 | 1-7/16 |
| 50          | 0.88| 74            | 51.9 | 152.3| 11/16  | 15/16     | 15/16  | 1-1/4  | 1-9/16 |
| 46          | 0.87| 68            | 51.3 | 154.0| 11/16  | 15/16     | 15/16  | 1-5/16 | 1-9/16 |
| 40          | 0.76| 60            | 44.8 | 176.3| 3/4    | 1         | 1      | 1-3/8  | 1-11/16|
| 35          | 0.67| 52            | 39.5 | 200.0| 13/16  | 1-1/8     | 1-1/8  | 1-1/2  | 1-13/16|

| W16 x 100  | 1.59| W410 x 149    | 93.8 | 84.3 | 1/2    | 5/8       | 5/8    | 7/8    | 1-1/16 |
| 89          | 1.43| 132           | 84.4 | 93.7 | 1/2    | 11/16     | 11/16  | 15/16  | 1-1/8  |
| 77          | 1.25| 114           | 73.8 | 107.2| 9/16   | 3/4       | 3/4    | 1      | 1-1/4  |
| 67          | 1.09| 100           | 64.3 | 122.9| 5/8    | 13/16     | 13/16  | 1-1/8  | 3-3/8  |
| 57          | 1.09| 85            | 64.3 | 122.9| 5/8    | 13/16     | 13/16  | 1-1/8  | 3-3/8  |
| 50          | 0.96| 74            | 56.6 | 139.6| 5/8    | 7/8       | 7/8    | 1-3/16 | 1-7/16 |
| 45          | 0.87| 67            | 51.3 | 154.0| 11/16  | 15/16     | 15/16  | 1-5/16 | 1-9/16 |
### S805

**Protected Roof Deck**

**CAFCO® BLAZE-SHIELD® II, HP & ISOLATEK® Type II, HP**

<table>
<thead>
<tr>
<th>ASTM Desig.</th>
<th>W/D</th>
<th>Metric Desig.</th>
<th>M/D</th>
<th>Hp/A</th>
<th>1-Hour</th>
<th>1-1/2 Hour</th>
<th>2-Hour</th>
<th>3-Hour</th>
<th>4-Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>W16 x 40</td>
<td>0.78</td>
<td>W410 x 60</td>
<td>46.0</td>
<td>171.8</td>
<td>3/4</td>
<td>1</td>
<td>1</td>
<td>1-3/8</td>
<td>1-5/8</td>
</tr>
<tr>
<td>36</td>
<td>0.7</td>
<td>53</td>
<td>41.3</td>
<td>191.4</td>
<td>3/4</td>
<td>1-1/16</td>
<td>1-1/16</td>
<td>1-7/16</td>
<td>1-3/4</td>
</tr>
<tr>
<td>31</td>
<td>0.66</td>
<td>46</td>
<td>38.9</td>
<td>203.0</td>
<td>13/16</td>
<td>1-1/8</td>
<td>1-1/8</td>
<td>1-1/2</td>
<td>1-13/16</td>
</tr>
<tr>
<td>26</td>
<td>0.55</td>
<td>39</td>
<td>32.5</td>
<td>243.6</td>
<td>7/8</td>
<td>1-3/16</td>
<td>1-3/16</td>
<td>1-5/8</td>
<td>2</td>
</tr>
<tr>
<td>W14 x 808</td>
<td>8.75</td>
<td>W360 x 1202</td>
<td>516.3</td>
<td>15.3</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
</tr>
<tr>
<td>730</td>
<td>8.08</td>
<td>1086</td>
<td>476.7</td>
<td>16.6</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
</tr>
<tr>
<td>665</td>
<td>7.49</td>
<td>990</td>
<td>441.9</td>
<td>17.9</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
</tr>
<tr>
<td>500</td>
<td>5.95</td>
<td>744</td>
<td>351.1</td>
<td>22.5</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
</tr>
<tr>
<td>311</td>
<td>3.98</td>
<td>463</td>
<td>234.8</td>
<td>33.7</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>7/16</td>
</tr>
<tr>
<td>283</td>
<td>3.66</td>
<td>421</td>
<td>215.9</td>
<td>36.6</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>7/16</td>
</tr>
<tr>
<td>233</td>
<td>3.08</td>
<td>347</td>
<td>181.7</td>
<td>43.5</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>7/16</td>
</tr>
<tr>
<td>211</td>
<td>2.81</td>
<td>314</td>
<td>165.8</td>
<td>47.7</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>7/16</td>
<td>9/16</td>
</tr>
<tr>
<td>193</td>
<td>2.6</td>
<td>287</td>
<td>153.4</td>
<td>51.5</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>7/16</td>
<td>9/16</td>
</tr>
<tr>
<td>176</td>
<td>2.38</td>
<td>262</td>
<td>140.4</td>
<td>56.3</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>5/8</td>
</tr>
<tr>
<td>159</td>
<td>2.16</td>
<td>237</td>
<td>127.4</td>
<td>62.0</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>11/16</td>
</tr>
<tr>
<td>145</td>
<td>1.99</td>
<td>216</td>
<td>117.4</td>
<td>67.3</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>7/8</td>
</tr>
<tr>
<td>132</td>
<td>1.89</td>
<td>196</td>
<td>111.5</td>
<td>70.9</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>15/16</td>
</tr>
<tr>
<td>120</td>
<td>1.71</td>
<td>179</td>
<td>100.9</td>
<td>78.4</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>3/16</td>
<td>1</td>
</tr>
<tr>
<td>109</td>
<td>1.57</td>
<td>162</td>
<td>92.6</td>
<td>85.3</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>7/8</td>
<td>1-1/16</td>
</tr>
<tr>
<td>99</td>
<td>1.43</td>
<td>147</td>
<td>84.4</td>
<td>93.7</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>15/16</td>
<td>1-1/8</td>
</tr>
<tr>
<td>90</td>
<td>1.31</td>
<td>134</td>
<td>77.3</td>
<td>102.3</td>
<td>3/4</td>
<td>3/4</td>
<td>1</td>
<td>3-1/16</td>
<td></td>
</tr>
<tr>
<td>82</td>
<td>1.45</td>
<td>122</td>
<td>85.6</td>
<td>92.4</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>15/16</td>
<td>1-1/8</td>
</tr>
<tr>
<td>74</td>
<td>1.32</td>
<td>110</td>
<td>77.9</td>
<td>101.5</td>
<td>1/2</td>
<td>3/4</td>
<td>1</td>
<td>3-1/16</td>
<td></td>
</tr>
<tr>
<td>68</td>
<td>1.22</td>
<td>101</td>
<td>72.0</td>
<td>109.8</td>
<td>3/4</td>
<td>3/4</td>
<td>1-1/16</td>
<td>1-1/4</td>
<td></td>
</tr>
<tr>
<td>61</td>
<td>1.1</td>
<td>91</td>
<td>64.9</td>
<td>121.8</td>
<td>3/8</td>
<td>5/8</td>
<td>13/16</td>
<td>1-1/8</td>
<td>3-3/8</td>
</tr>
<tr>
<td>53</td>
<td>1.06</td>
<td>79</td>
<td>62.5</td>
<td>126.4</td>
<td>5/8</td>
<td>7/8</td>
<td>7/8</td>
<td>1-1/8</td>
<td>3-3/8</td>
</tr>
<tr>
<td>48</td>
<td>0.97</td>
<td>72</td>
<td>57.2</td>
<td>138.1</td>
<td>5/8</td>
<td>7/8</td>
<td>7/8</td>
<td>1-1/2</td>
<td>1-3/16</td>
</tr>
<tr>
<td>43</td>
<td>0.87</td>
<td>64</td>
<td>51.3</td>
<td>154.0</td>
<td>11/16</td>
<td>15/16</td>
<td>15/16</td>
<td>1-3/4</td>
<td>1-7/16</td>
</tr>
<tr>
<td>38</td>
<td>0.8</td>
<td>57</td>
<td>47.2</td>
<td>167.5</td>
<td>11/16</td>
<td>1</td>
<td>1</td>
<td>1-3/8</td>
<td>1-5/8</td>
</tr>
<tr>
<td>34</td>
<td>0.72</td>
<td>51</td>
<td>42.5</td>
<td>186.1</td>
<td>3/4</td>
<td>1-1/16</td>
<td>1-1/16</td>
<td>1-7/16</td>
<td>1-3/4</td>
</tr>
<tr>
<td>30</td>
<td>0.64</td>
<td>45</td>
<td>37.8</td>
<td>209.3</td>
<td>13/16</td>
<td>1-1/8</td>
<td>1-1/8</td>
<td>1-1/2</td>
<td>1-13/16</td>
</tr>
<tr>
<td>26</td>
<td>0.62</td>
<td>39</td>
<td>36.6</td>
<td>216.1</td>
<td>13/16</td>
<td>1-1/8</td>
<td>1-1/8</td>
<td>1-9/16</td>
<td>1-7/8</td>
</tr>
<tr>
<td>22</td>
<td>0.53</td>
<td>33</td>
<td>31.3</td>
<td>252.8</td>
<td>7/8</td>
<td>1-1/4</td>
<td>1-1/4</td>
<td>1-11/16</td>
<td></td>
</tr>
</tbody>
</table>

*Unrestrained Beam*
### ASTM Desig.  W/D  Metric Desig.  M/D  Hp/A  1-Hour  1-1/2 Hour  2-Hour  3-Hour  4-Hour

<table>
<thead>
<tr>
<th>W12 x 336</th>
<th>4.85</th>
<th>W310 x 500</th>
<th>286.2</th>
<th>27.6</th>
<th>3/8</th>
<th>3/8</th>
<th>3/8</th>
<th>3/8</th>
<th>7/16</th>
</tr>
</thead>
<tbody>
<tr>
<td>252</td>
<td>3.84</td>
<td>375 226.6</td>
<td>34.9</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>7/16</td>
<td>9/16</td>
</tr>
<tr>
<td>210</td>
<td>3.27</td>
<td>313 192.9</td>
<td>41.0</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>5/8</td>
</tr>
<tr>
<td>190</td>
<td>3</td>
<td>283 177.0</td>
<td>44.7</td>
<td>3/8</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>9/16</td>
<td>5/8</td>
</tr>
<tr>
<td>170</td>
<td>2.72</td>
<td>253 160.5</td>
<td>49.3</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>9/16</td>
<td>11/16</td>
<td></td>
</tr>
<tr>
<td>152</td>
<td>2.45</td>
<td>225 144.6</td>
<td>54.7</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>5/8</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>136</td>
<td>2.23</td>
<td>202 131.6</td>
<td>60.1</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>11/16</td>
<td>13/16</td>
<td></td>
</tr>
<tr>
<td>120</td>
<td>1.99</td>
<td>179 117.4</td>
<td>67.3</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>7/8</td>
<td></td>
</tr>
<tr>
<td>106</td>
<td>1.77</td>
<td>158 104.4</td>
<td>75.7</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>13/16</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>96</td>
<td>1.61</td>
<td>143 95.0</td>
<td>83.2</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>7/8</td>
<td>1-1/16</td>
<td></td>
</tr>
<tr>
<td>87</td>
<td>1.47</td>
<td>129 86.7</td>
<td>91.1</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>15/16</td>
<td>1-1/8</td>
<td></td>
</tr>
<tr>
<td>79</td>
<td>1.34</td>
<td>117 79.1</td>
<td>100.0</td>
<td>1/2</td>
<td>3/4</td>
<td>3/4</td>
<td>1</td>
<td>1-3/16</td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>1.23</td>
<td>107 72.6</td>
<td>108.9</td>
<td>9/16</td>
<td>3/4</td>
<td>3/4</td>
<td>1-1/16</td>
<td>1-1/4</td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>1.11</td>
<td>97 65.5</td>
<td>120.7</td>
<td>9/16</td>
<td>13/16</td>
<td>13/16</td>
<td>1-1/8</td>
<td>1-5/16</td>
<td></td>
</tr>
<tr>
<td>58</td>
<td>1.1</td>
<td>86 64.9</td>
<td>121.8</td>
<td>5/8</td>
<td>13/16</td>
<td>13/16</td>
<td>1-1/8</td>
<td>1-3/8</td>
<td></td>
</tr>
<tr>
<td>53</td>
<td>1.02</td>
<td>79 60.2</td>
<td>131.4</td>
<td>5/8</td>
<td>7/8</td>
<td>7/8</td>
<td>1-3/16</td>
<td>1-7/16</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>1.06</td>
<td>74 62.5</td>
<td>126.4</td>
<td>5/8</td>
<td>7/8</td>
<td>7/8</td>
<td>1-1/8</td>
<td>1-3/8</td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>0.97</td>
<td>67 57.2</td>
<td>138.1</td>
<td>5/8</td>
<td>7/8</td>
<td>7/8</td>
<td>1-3/16</td>
<td>1-7/16</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>0.86</td>
<td>60 50.7</td>
<td>155.8</td>
<td>11/16</td>
<td>15/16</td>
<td>15/16</td>
<td>1-5/16</td>
<td>1-9/16</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>0.81</td>
<td>52 47.8</td>
<td>165.4</td>
<td>11/16</td>
<td>1</td>
<td>1</td>
<td>1-5/16</td>
<td>1-5/8</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>0.89</td>
<td>45 40.7</td>
<td>194.2</td>
<td>3/4</td>
<td>1-1/16</td>
<td>1-1/16</td>
<td>1-7/16</td>
<td>1-3/4</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>0.61</td>
<td>39 36.0</td>
<td>219.6</td>
<td>13/16</td>
<td>1-1/8</td>
<td>1-1/8</td>
<td>1-9/16</td>
<td>1-7/8</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>0.62</td>
<td>33 36.6</td>
<td>216.1</td>
<td>13/16</td>
<td>1-1/8</td>
<td>1-1/8</td>
<td>1-9/16</td>
<td>1-7/8</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>0.54</td>
<td>28 31.9</td>
<td>248.1</td>
<td>7/8</td>
<td>1-1/4</td>
<td>1-1/4</td>
<td>1-5/8</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>0.45</td>
<td>24 26.6</td>
<td>297.7</td>
<td>15/16</td>
<td>1-5/16</td>
<td>1-5/16</td>
<td>1-13/16</td>
<td>2-3/16</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>0.4</td>
<td>21 23.6</td>
<td>335.0</td>
<td>1</td>
<td>1-3/8</td>
<td>1-3/8</td>
<td>1-7/8</td>
<td>2-1/4</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>W10 x 112</th>
<th>2.17</th>
<th>W250 x 167</th>
<th>128.0</th>
<th>61.7</th>
<th>3/8</th>
<th>1/2</th>
<th>1/2</th>
<th>11/16</th>
<th>13/16</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>1.97</td>
<td>149 116.2</td>
<td>68.0</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>7/8</td>
<td></td>
</tr>
<tr>
<td>88</td>
<td>1.74</td>
<td>131 102.7</td>
<td>77.0</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>13/16</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>77</td>
<td>1.54</td>
<td>115 90.9</td>
<td>87.0</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>7/8</td>
<td>1-1/16</td>
<td></td>
</tr>
<tr>
<td>68</td>
<td>1.38</td>
<td>101 81.4</td>
<td>97.1</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>15/16</td>
<td>1-3/16</td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>1.22</td>
<td>89 72.0</td>
<td>109.8</td>
<td>9/16</td>
<td>3/4</td>
<td>3/4</td>
<td>1-1/16</td>
<td>1-1/4</td>
<td></td>
</tr>
<tr>
<td>54</td>
<td>1.11</td>
<td>80 65.5</td>
<td>120.7</td>
<td>9/16</td>
<td>13/16</td>
<td>13/16</td>
<td>1-1/8</td>
<td>1-5/16</td>
<td></td>
</tr>
<tr>
<td>49</td>
<td>1.01</td>
<td>73 59.6</td>
<td>132.7</td>
<td>5/8</td>
<td>7/8</td>
<td>7/8</td>
<td>1-3/16</td>
<td>1-7/16</td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>1.06</td>
<td>67 62.5</td>
<td>126.4</td>
<td>5/8</td>
<td>7/8</td>
<td>7/8</td>
<td>1-1/8</td>
<td>1-3/8</td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>0.92</td>
<td>58 54.3</td>
<td>145.6</td>
<td>11/16</td>
<td>15/16</td>
<td>15/16</td>
<td>1-1/4</td>
<td>1-1/2</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>0.78</td>
<td>49 46.0</td>
<td>171.8</td>
<td>3/4</td>
<td>1</td>
<td>1</td>
<td>1-3/8</td>
<td>1-5/8</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>0.8</td>
<td>45 47.2</td>
<td>167.5</td>
<td>11/16</td>
<td>1</td>
<td>1</td>
<td>1-3/8</td>
<td>1-5/8</td>
<td></td>
</tr>
</tbody>
</table>
# Protected Roof Deck

**CAFCO® BLAZE-SHIELD® II, HP & ISOLATEK® Type II, HP**

## ASTM Designation Table

<table>
<thead>
<tr>
<th>ASTM Desig.</th>
<th>W/D</th>
<th>Metric Desig.</th>
<th>M/D</th>
<th>Hp/A</th>
<th>1-Hour</th>
<th>1-1/2 Hour</th>
<th>2-Hour</th>
<th>3-Hour</th>
<th>4-Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>W10 x 26</td>
<td>0.7</td>
<td>W10 x 39</td>
<td>41.3</td>
<td>191.4</td>
<td>3/4</td>
<td>1-1/16</td>
<td>1-1/16</td>
<td>1-7/16</td>
<td>1-3/4</td>
</tr>
<tr>
<td>22</td>
<td>0.6</td>
<td>33</td>
<td>35.4</td>
<td>223.3</td>
<td>13/16</td>
<td>1-3/16</td>
<td>1-3/16</td>
<td>1-9/16</td>
<td>1-7/8</td>
</tr>
<tr>
<td>19</td>
<td>0.6</td>
<td>28</td>
<td>35.4</td>
<td>223.3</td>
<td>13/16</td>
<td>1-3/16</td>
<td>1-3/16</td>
<td>1-9/16</td>
<td>1-7/8</td>
</tr>
<tr>
<td>17</td>
<td>0.54</td>
<td>25</td>
<td>31.9</td>
<td>248.1</td>
<td>7/8</td>
<td>1-1/4</td>
<td>1-1/4</td>
<td>1-5/8</td>
<td>2</td>
</tr>
<tr>
<td>15</td>
<td>0.48</td>
<td>22</td>
<td>28.3</td>
<td>279.1</td>
<td>15/16</td>
<td>1-5/16</td>
<td>1-5/16</td>
<td>1-3/4</td>
<td>2-1/8</td>
</tr>
<tr>
<td>12</td>
<td>0.39</td>
<td>18</td>
<td>23.0</td>
<td>343.5</td>
<td>1</td>
<td>1-3/8</td>
<td>1-3/8</td>
<td>1-7/8</td>
<td>2-5/16</td>
</tr>
</tbody>
</table>

| W8 x 67    | 1.65| W200 x 100    | 97.4| 81.2 | 7/16   | 5/8       | 5/8    | 7/8    | 1      |
| 58          | 1.44| 86            | 85.0| 93.0 | 1/2    | 11/16     | 11/16  | 15/16  | 1-1/8  |
| 48          | 1.21| 71            | 71.4| 110.7| 9/16   | 13/16     | 13/16  | 1-1/16 | 1-1/4  |
| 40          | 1.03| 59            | 60.8| 130.1| 5/8    | 7/8       | 7/8    | 1-3/16 | 1-3/8  |
| 35          | 0.9 | 52            | 53.1| 148.9| 11/16  | 15/16     | 15/16  | 1-1/4  | 1-1/2  |
| 30          | 0.8 | 46            | 47.2| 167.5| 11/16  | 1        | 1      | 1-3/8  | 1-5/8  |
| 28          | 0.81| 42            | 47.8| 165.4| 11/16  | 1        | 1      | 1-5/16 | 1-5/8  |
| 24          | 0.7 | 36            | 41.3| 191.4| 3/4    | 1-1/16    | 1-1/16 | 1-7/16 | 1-3/4  |
| 21          | 0.67| 31            | 39.5| 200.0| 13/16  | 1-1/8     | 1-1/8  | 1-1/2  | 1-13/16|
| 18          | 0.58| 27            | 34.2| 231.0| 7/8    | 1-3/16    | 1-3/16 | 1-9/16 | 1-15/16|
| 15          | 0.55| 22            | 32.5| 243.6| 7/8    | 1-3/16    | 1-3/16 | 1-5/8  | 2      |
| 13          | 0.48| 19            | 28.3| 279.1| 15/16  | 1-5/16    | 1-5/16 | 1-3/4  | 2-1/8  |
| 10          | 0.37| 15            | 21.8| 362.1| 1      | 1-7/16    | 1-7/16 | 1-15/16| 2-5/16 |

| W6 x 25    | 0.83| W150 x 37     | 49.0| 161.4| 11/16  | 1        | 1      | 1-5/16 | 1-5/8  |
| 20          | 0.67| 30            | 39.5| 200.0| 13/16  | 1-1/8     | 1-1/8  | 1-1/2  | 1-13/16|
| 16          | 0.68| 24            | 40.1| 197.0| 3/4    | 1-1/16    | 1-1/16 | 1-7/16 | 1-3/4  |
| 15          | 0.52| 22            | 30.7| 257.7| 7/8    | 1-1/4     | 1-1/4  | 1-11/16| 2      |
| 12          | 0.52| 18            | 30.7| 257.7| 7/8    | 1-1/4     | 1-1/4  | 1-11/16| 2      |
| 9           | 0.39| 14            | 23.0| 343.5| 1      | 1-3/8     | 1-3/8  | 1-7/8  | 2-5/16 |
| 8.5        | 0.37| 13            | 21.8| 362.1| 1      | 1-7/16    | 1-7/16 | 1-15/16| 2-5/16 |

| W5 x 19    | 0.77| W130 x 28     | 45.4| 174.0| 3/4    | 1        | 1      | 1-3/8  | 1-11/16|
| 16          | 0.66| 24            | 38.9| 203.0| 13/16  | 1-1/8     | 1-1/8  | 1-1/2  | 1-13/16|

| W4 x 13    | 0.67| W100 x 19     | 39.5| 200.0| 13/16  | 1-1/8     | 1-1/8  | 1-1/2  | 1-13/16|
## S805
Protected Roof Deck
**CAFCO® BLAZE-SHIELD® II, HP & ISOLATEK® Type II, HP**

<table>
<thead>
<tr>
<th>ASTM Desig.</th>
<th>W/D Metric Desig.</th>
<th>M/D</th>
<th>Hp/A</th>
<th>1-Hour</th>
<th>1-1/2 Hour</th>
<th>2-Hour</th>
<th>3-Hour</th>
<th>4-Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>W44 x 335</td>
<td>2.52 W120 x 498</td>
<td>148.7</td>
<td>53.2</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>5/8</td>
<td>3/4</td>
</tr>
<tr>
<td>290</td>
<td>2.2</td>
<td>432</td>
<td>60.9</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>5/8</td>
<td>11/16</td>
</tr>
<tr>
<td>262</td>
<td>2</td>
<td>390</td>
<td>67.0</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>7/8</td>
</tr>
<tr>
<td>230</td>
<td>1.77</td>
<td>342</td>
<td>75.7</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>13/16</td>
<td>1</td>
</tr>
</tbody>
</table>

| W40 x 593  | 4.56 W1000 x 883  | 269.0 | 29.4 | 3/8    | 3/8        | 3/8    | 3/8    | 7/16   |
| 503        | 3.93              | 748  | 34.1 | 3/8    | 3/8        | 3/8    | 7/16   | 1/2    |
| 397        | 3.15              | 591  | 42.5 | 3/8    | 3/8        | 3/8    | 1/2    | 5/8    |
| 392        | 3.38              | 583  | 39.6 | 3/8    | 3/8        | 3/8    | 1/2    | 5/8    |
| 372        | 2.98              | 554  | 45.0 | 3/8    | 7/16       | 7/16   | 9/16   | 11/16  |
| 362        | 2.9               | 539  | 46.2 | 3/8    | 7/16       | 7/16   | 9/16   | 11/16  |
| 331        | 2.9               | 493  | 46.2 | 3/8    | 7/16       | 7/16   | 9/16   | 11/16  |
| 327        | 2.89              | 487  | 46.4 | 3/8    | 7/16       | 7/16   | 9/16   | 11/16  |
| 324        | 2.61              | 482  | 51.3 | 3/8    | 7/16       | 7/16   | 5/8    | 3/4    |
| 297        | 2.41              | 442  | 55.6 | 3/8    | 1/2        | 1/2    | 5/8    | 3/4    |
| 278        | 2.48              | 414  | 54.0 | 3/8    | 1/2        | 1/2    | 5/8    | 3/4    |
| 277        | 2.25              | 412  | 59.5 | 3/8    | 1/2        | 1/2    | 11/16  | 13/16  |
| 264        | 2.36              | 393  | 56.8 | 3/8    | 1/2        | 1/2    | 5/8    | 13/16  |
| 249        | 2.02              | 371  | 66.3 | 3/8    | 9/16       | 9/16   | 3/4    | 7/8    |
| 235        | 2.1               | 350  | 63.8 | 3/8    | 9/16       | 9/16   | 11/16  | 7/8    |
| 215        | 1.76              | 321  | 76.1 | 3/8    | 7/16       | 5/8    | 13/16  | 1      |
| 211        | 1.9               | 314  | 70.5 | 7/16   | 9/16       | 9/16   | 3/4    | 15/16  |
| 199        | 1.64              | 296  | 81.7 | 7/16   | 5/8        | 5/8    | 7/8    | 1      |
| 183        | 1.66              | 272  | 80.7 | 7/16   | 5/8        | 5/8    | 7/8    | 1      |
| 167        | 1.53              | 249  | 87.6 | 1/2    | 11/16      | 11/16  | 7/8    | 1-1/16 |
| 149        | 1.37              | 222  | 97.8 | 1/2    | 3/4        | 3/4    | 15/16  | 1-3/16 |

| 650        | 5.08              | 967  | 26.4 | 3/8    | 3/8        | 3/8    | 3/8    | 7/16   |
| 527        | 4.22              | 784  | 31.7 | 3/8    | 3/8        | 3/8    | 7/16   | 1/2    |
| 439        | 3.57              | 653  | 37.5 | 3/8    | 3/8        | 3/8    | 1/2    | 9/16   |
| 393        | 3.25              | 585  | 41.2 | 3/8    | 3/8        | 3/8    | 1/2    | 5/8    |
| 359        | 2.97              | 534  | 45.1 | 3/8    | 7/16       | 7/16   | 9/16   | 11/16  |
| 328        | 2.73              | 488  | 49.1 | 3/8    | 7/16       | 7/16   | 9/16   | 11/16  |
| 300        | 2.5               | 446  | 53.6 | 3/8    | 1/2        | 1/2    | 5/8    | 3/4    |
| 280        | 2.35              | 417  | 57.0 | 3/8    | 1/2        | 1/2    | 5/8    | 3/4    |
| 260        | 2.18              | 387  | 61.5 | 3/8    | 1/2        | 1/2    | 11/16  | 13/16  |
| 256        | 2.37              | 381  | 56.5 | 3/8    | 1/2        | 1/2    | 5/8    | 13/16  |
| 245        | 2.08              | 365  | 64.4 | 3/8    | 9/16       | 9/16   | 11/16  | 7/8    |
| 232        | 2.15              | 345  | 62.3 | 3/8    | 1/2        | 1/2    | 11/16  | 7/8    |
| 230        | 1.95              | 342  | 68.7 | 7/16   | 9/16       | 9/16   | 3/4    | 15/16  |
S805
Protected Roof Deck
CAFCO® BLAZE-SHIELD® II, HP & ISOLATEK® Type II, HP

<table>
<thead>
<tr>
<th>W/D</th>
<th>W/D</th>
<th>M/D</th>
<th>Hp/A</th>
<th>1-Hour</th>
<th>1-1/2 Hour</th>
<th>2-Hour</th>
<th>3-Hour</th>
<th>4-Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>W36 x 210</td>
<td>W920 x 313</td>
<td>115.6</td>
<td>68.4</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>7/8</td>
</tr>
<tr>
<td>194</td>
<td>289</td>
<td>106.8</td>
<td>74.0</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>13/16</td>
<td>15/16</td>
</tr>
<tr>
<td>182</td>
<td>271</td>
<td>101.5</td>
<td>77.9</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>13/16</td>
<td>1</td>
</tr>
<tr>
<td>170</td>
<td>253</td>
<td>94.4</td>
<td>83.7</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>7/8</td>
<td>1-1/16</td>
</tr>
<tr>
<td>160</td>
<td>238</td>
<td>89.1</td>
<td>88.7</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>7/8</td>
<td>1-1/16</td>
</tr>
<tr>
<td>150</td>
<td>223</td>
<td>84.4</td>
<td>93.7</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>15/16</td>
<td>1-1/8</td>
</tr>
<tr>
<td>135</td>
<td>201</td>
<td>76.1</td>
<td>103.9</td>
<td>9/16</td>
<td>3/4</td>
<td>3/4</td>
<td>1</td>
<td>1-3/16</td>
</tr>
</tbody>
</table>

| W33 x 387 | W840 x 576 | 195.3    | 40.5   | 3/8    | 3/8        | 3/8    | 1/2    | 5/8    |
| 354        | 527        | 180.0    | 43.9   | 3/8    | 3/8        | 3/8    | 9/16   | 5/8    |
| 318        | 473        | 163.4    | 48.4   | 3/8    | 7/16       | 7/16   | 9/16   | 11/16  |
| 291        | 433        | 150.5    | 52.5   | 3/8    | 7/16       | 7/16   | 5/8    | 3/4    |
| 263        | 392        | 137.5    | 57.5   | 3/8    | 1/2        | 1/2    | 11/16  | 13/16  |
| 241        | 359        | 125.7    | 62.9   | 3/8    | 1/2        | 1/2    | 11/16  | 7/8    |
| 221        | 329        | 116.2    | 68.0   | 3/8    | 9/16       | 9/16   | 3/4    | 7/8    |
| 201        | 299        | 105.6    | 74.9   | 7/16   | 5/8        | 5/8    | 13/16  | 15/16  |
| 169        | 251        | 100.3    | 78.8   | 7/16   | 5/8        | 5/8    | 13/16  | 1      |
| 152        | 226        | 90.3     | 87.6   | 1/2    | 11/16      | 11/16  | 7/8    | 1-1/16 |
| 141        | 210        | 84.4     | 93.7   | 1/2    | 11/16      | 11/16  | 15/16  | 1-1/8  |
| 130        | 193        | 77.9     | 101.5  | 1/2    | 3/4        | 3/4    | 1      | 1-3/16 |
| 118        | 176        | 71.4     | 110.7  | 9/16   | 13/16      | 13/16  | 1-1/16 | 1-1/4  |

| W30 x 391 | W760 x 582 | 211.8    | 37.3   | 3/8    | 3/8        | 3/8    | 1/2    | 9/16   |
| 357        | 531        | 195.3    | 40.5   | 3/8    | 3/8        | 3/8    | 1/2    | 5/8    |
| 326        | 484        | 180.0    | 43.9   | 3/8    | 3/8        | 3/8    | 9/16   | 5/8    |
| 292        | 434        | 161.1    | 49.1   | 3/8    | 7/16       | 7/16   | 9/16   | 11/16  |
| 261        | 389        | 145.1    | 54.5   | 3/8    | 1/2        | 1/2    | 5/8    | 3/4    |
| 235        | 350        | 132.2    | 59.8   | 3/8    | 1/2        | 1/2    | 11/16  | 13/16  |
| 211        | 314        | 118.6    | 66.7   | 3/8    | 9/16       | 9/16   | 3/4    | 7/8    |
| 191        | 284        | 109.2    | 72.4   | 7/16   | 9/16       | 9/16   | 13/16  | 15/16  |
| 173        | 257        | 97.9     | 80.7   | 7/16   | 5/8        | 5/8    | 7/8    | 1      |
| 148        | 220        | 96.8     | 81.7   | 7/16   | 5/8        | 5/8    | 7/8    | 1      |
| 132        | 196        | 86.7     | 91.1   | 1/2    | 11/16      | 11/16  | 15/16  | 1-1/8  |
| 124        | 185        | 82.0     | 96.4   | 1/2    | 11/16      | 11/16  | 15/16  | 1-3/16 |
| 116        | 173        | 76.7     | 103.1  | 9/16   | 3/4        | 3/4    | 1      | 1-3/16 |
| 108        | 161        | 71.4     | 110.7  | 9/16   | 13/16      | 13/16  | 1-1/16 | 1-1/4  |
| 99         | 147        | 66.1     | 119.6  | 9/16   | 13/16      | 13/16  | 1-1/6  | 1-5/16 |
| 90         | 134        | 60.2     | 131.4  | 5/8    | 7/8        | 7/8    | 1-3/16 | 1-7/16 |
| 9         | 99         | 53.8     | 152.4  | 3/8    | 3/8        | 3/8    | 3/8    | 3/8    |

<p>| W27 x 539 | W690 x 802 | 299.7    | 26.4   | 3/8    | 3/8        | 3/8    | 7/16   | 9/16   |
| 368        | 548        | 214.8    | 36.8   | 3/8    | 3/8        | 3/8    | 7/16   | 9/16   |</p>
<table>
<thead>
<tr>
<th>ASTM</th>
<th>Desig.</th>
<th>W/D</th>
<th>Metric Desig.</th>
<th>M/D</th>
<th>Hp/A</th>
<th>1-Hour</th>
<th>1-1/2 Hour</th>
<th>2-Hour</th>
<th>3-Hour</th>
<th>4-Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>W27 x 336</td>
<td>3.36</td>
<td>W690 x 500</td>
<td>198.2</td>
<td>39.9</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>5/8</td>
<td></td>
</tr>
<tr>
<td>307</td>
<td>3.11</td>
<td>457</td>
<td>183.5</td>
<td>43.1</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>5/8</td>
<td></td>
</tr>
<tr>
<td>281</td>
<td>2.86</td>
<td>418</td>
<td>168.7</td>
<td>46.8</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>5/8</td>
<td>9/16</td>
<td>11/16</td>
</tr>
<tr>
<td>258</td>
<td>2.64</td>
<td>384</td>
<td>155.8</td>
<td>50.8</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>5/8</td>
<td>9/16</td>
<td>11/16</td>
</tr>
<tr>
<td>235</td>
<td>2.43</td>
<td>350</td>
<td>143.4</td>
<td>55.1</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>5/8</td>
<td>9/16</td>
<td>11/16</td>
</tr>
<tr>
<td>217</td>
<td>2.26</td>
<td>323</td>
<td>133.3</td>
<td>59.3</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>5/8</td>
<td>9/16</td>
<td>11/16</td>
</tr>
<tr>
<td>194</td>
<td>2.03</td>
<td>289</td>
<td>119.8</td>
<td>66.0</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>5/8</td>
<td>9/16</td>
<td>11/16</td>
</tr>
<tr>
<td>178</td>
<td>1.87</td>
<td>265</td>
<td>110.3</td>
<td>71.6</td>
<td>7/16</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>15/16</td>
<td></td>
</tr>
<tr>
<td>161</td>
<td>1.7</td>
<td>240</td>
<td>100.3</td>
<td>78.8</td>
<td>7/16</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>15/16</td>
<td></td>
</tr>
<tr>
<td>146</td>
<td>1.55</td>
<td>217</td>
<td>91.5</td>
<td>84.4</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>7/8</td>
<td>1-1/16</td>
<td></td>
</tr>
<tr>
<td>129</td>
<td>1.56</td>
<td>192</td>
<td>92.0</td>
<td>85.9</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>7/8</td>
<td>1-1/16</td>
<td></td>
</tr>
<tr>
<td>114</td>
<td>1.39</td>
<td>170</td>
<td>82.0</td>
<td>96.4</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>15/16</td>
<td>1-3/16</td>
<td></td>
</tr>
<tr>
<td>102</td>
<td>1.24</td>
<td>152</td>
<td>73.2</td>
<td>108.1</td>
<td>9/16</td>
<td>3/4</td>
<td>3/4</td>
<td>1</td>
<td>1-1/4</td>
<td></td>
</tr>
<tr>
<td>94</td>
<td>1.15</td>
<td>140</td>
<td>67.9</td>
<td>116.5</td>
<td>9/16</td>
<td>13/16</td>
<td>13/16</td>
<td>1-1/16</td>
<td>1-5/16</td>
<td></td>
</tr>
<tr>
<td>84</td>
<td>1.03</td>
<td>125</td>
<td>60.8</td>
<td>130.1</td>
<td>5/8</td>
<td>7/8</td>
<td>7/8</td>
<td>1-3/16</td>
<td>1-3/8</td>
<td></td>
</tr>
</tbody>
</table>

| W24 x 370 | 3.98 | W610 x 551 | 234.8 | 33.7 | 3/8 | 3/8 | 3/8 | 7/16 | 1/2 |
| 335 | 3.66 | 498 | 215.9 | 36.6 | 3/8 | 3/8 | 3/8 | 7/16 | 9/16 |
| 306 | 3.37 | 455 | 198.8 | 39.8 | 3/8 | 3/8 | 3/8 | 7/16 | 9/16 |
| 279 | 3.11 | 415 | 183.5 | 43.1 | 3/8 | 3/8 | 3/8 | 7/16 | 9/16 |
| 250 | 2.81 | 372 | 165.8 | 47.7 | 3/8 | 3/8 | 7/16 | 9/16 | 11/16 |
| 229 | 2.6 | 341 | 153.4 | 51.5 | 3/8 | 3/8 | 7/16 | 9/16 | 11/16 |
| 207 | 2.36 | 307 | 139.2 | 56.8 | 3/8 | 3/8 | 3/8 | 3/4 | 15/16 |
| 192 | 2.2 | 285 | 129.8 | 60.9 | 3/8 | 3/8 | 3/8 | 3/4 | 15/16 |
| 176 | 2.03 | 262 | 119.8 | 66.0 | 3/8 | 3/8 | 3/8 | 3/4 | 15/16 |
| 162 | 1.88 | 241 | 110.9 | 71.3 | 7/16 | 9/16 | 9/16 | 3/4 | 15/16 |
| 146 | 1.7 | 217 | 100.3 | 78.8 | 7/16 | 9/16 | 9/16 | 3/4 | 15/16 |
| 131 | 1.54 | 195 | 90.9 | 87.0 | 1/2 | 11/16 | 11/16 | 7/8 | 1-1/16 |
| 117 | 1.38 | 174 | 81.4 | 97.1 | 1/2 | 11/16 | 11/16 | 15/16 | 1-3/16 |
| 104 | 1.24 | 155 | 73.2 | 108.1 | 9/16 | 3/4 | 3/4 | 1 | 1-1/4 |
| 103 | 1.4 | 153 | 82.6 | 95.7 | 1/2 | 11/16 | 11/16 | 15/16 | 1-1/8 |
| 94 | 1.28 | 140 | 75.5 | 104.7 | 9/16 | 3/4 | 3/4 | 1 | 1-1/4 |
| 84 | 1.15 | 125 | 67.9 | 116.5 | 9/16 | 13/16 | 13/16 | 1-1/16 | 1-5/16 |
| 76 | 1.05 | 113 | 62.0 | 127.6 | 5/8 | 7/8 | 7/8 | 1-1/8 | 1-5/8 |
| 68 | 0.94 | 101 | 55.5 | 142.5 | 5/8 | 15/16 | 15/16 | 1-1/4 | 1-1/2 |
| 62 | 0.93 | 92 | 54.9 | 144.1 | 11/16 | 15/16 | 15/16 | 1-1/4 | 1-1/2 |
| 55 | 0.82 | 82 | 48.4 | 163.4 | 11/16 | 1 | 1 | 1-5/16 | 1-5/8 |

| W21 x 201 | 2.5 | W530 x 300 | 147.5 | 53.6 | 3/8 | 1/2 | 1/2 | 5/8 | 3/4 |
| 182 | 2.28 | 272 | 134.5 | 58.8 | 3/8 | 1/2 | 1/2 | 11/16 | 13/16 |
## S805

**Protected Roof Deck**

**CAFCO® BLAZE-SHIELD® II, HP & ISOLATEK® Type II, HP**

<table>
<thead>
<tr>
<th>ASTM Desig.</th>
<th>W/D</th>
<th>Metric Desig.</th>
<th>M/D</th>
<th>Hp/A</th>
<th>1-Hour</th>
<th>1-1/2 Hour</th>
<th>2-Hour</th>
<th>3-Hour</th>
<th>4-Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>W21 x 166</td>
<td>2.09</td>
<td>W530 x 248</td>
<td>123.3</td>
<td>64.1</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16</td>
<td>11/16</td>
<td>7/8</td>
</tr>
<tr>
<td>147</td>
<td>1.87</td>
<td>219</td>
<td>110.3</td>
<td>71.6</td>
<td>7/16</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>15/16</td>
</tr>
<tr>
<td>132</td>
<td>1.68</td>
<td>196</td>
<td>99.1</td>
<td>79.8</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>13/16</td>
<td>1</td>
</tr>
<tr>
<td>122</td>
<td>1.57</td>
<td>182</td>
<td>92.6</td>
<td>85.3</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>7/8</td>
<td>1-1/16</td>
</tr>
<tr>
<td>111</td>
<td>1.43</td>
<td>165</td>
<td>84.4</td>
<td>93.7</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>15/16</td>
<td>1-1/8</td>
</tr>
<tr>
<td>101</td>
<td>1.3</td>
<td>150</td>
<td>76.7</td>
<td>103.1</td>
<td>9/16</td>
<td>3/4</td>
<td>3/4</td>
<td>1</td>
<td>1-3/16</td>
</tr>
<tr>
<td>93</td>
<td>1.4</td>
<td>138</td>
<td>82.6</td>
<td>95.7</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>15/16</td>
<td>1-1/8</td>
</tr>
<tr>
<td>83</td>
<td>1.26</td>
<td>123</td>
<td>74.3</td>
<td>106.3</td>
<td>9/16</td>
<td>3/4</td>
<td>3/4</td>
<td>1</td>
<td>1-1/4</td>
</tr>
<tr>
<td>73</td>
<td>1.11</td>
<td>109</td>
<td>65.5</td>
<td>120.7</td>
<td>9/16</td>
<td>13/16</td>
<td>13/16</td>
<td>1-1/8</td>
<td>1-5/16</td>
</tr>
<tr>
<td>68</td>
<td>1.04</td>
<td>101</td>
<td>61.4</td>
<td>128.8</td>
<td>5/8</td>
<td>7/8</td>
<td>7/8</td>
<td>1-1/8</td>
<td>1-3/8</td>
</tr>
<tr>
<td>62</td>
<td>0.95</td>
<td>92</td>
<td>56.1</td>
<td>141.0</td>
<td>5/8</td>
<td>15/16</td>
<td>15/16</td>
<td>1-3/16</td>
<td>1-1/2</td>
</tr>
<tr>
<td>57</td>
<td>0.95</td>
<td>85</td>
<td>56.1</td>
<td>141.0</td>
<td>5/8</td>
<td>15/16</td>
<td>15/16</td>
<td>1-3/16</td>
<td>1-1/2</td>
</tr>
<tr>
<td>55</td>
<td>0.85</td>
<td>82</td>
<td>50.2</td>
<td>157.6</td>
<td>11/16</td>
<td>1</td>
<td>1</td>
<td>1-5/16</td>
<td>1-9/16</td>
</tr>
<tr>
<td>50</td>
<td>0.83</td>
<td>74</td>
<td>49.0</td>
<td>161.4</td>
<td>11/16</td>
<td>1</td>
<td>1</td>
<td>1-5/16</td>
<td>1-5/8</td>
</tr>
<tr>
<td>48</td>
<td>0.75</td>
<td>72</td>
<td>44.3</td>
<td>178.6</td>
<td>3/4</td>
<td>1-1/16</td>
<td>1-1/16</td>
<td>1-3/8</td>
<td>1-11/16</td>
</tr>
<tr>
<td>44</td>
<td>0.74</td>
<td>66</td>
<td>43.7</td>
<td>181.1</td>
<td>3/4</td>
<td>1-1/16</td>
<td>1-1/16</td>
<td>1-3/8</td>
<td>1-11/16</td>
</tr>
</tbody>
</table>

| W18 x 175  | 2.46| W460 x 260   | 145.1| 54.5 | 3/8    | 1/2       | 1/2    | 5/8    | 3/4    |
| 158         | 2.24| 235          | 132.2| 59.8 | 3/8    | 1/2       | 1/2    | 11/16  | 13/16  |
| 143         | 2.05| 213          | 121.0| 65.4 | 3/8    | 9/16      | 9/16   | 3/4    | 7/8    |
| 130         | 1.88| 193          | 110.9| 71.3 | 7/16   | 9/16      | 9/16   | 3/4    | 15/16  |
| 119         | 1.72| 177          | 101.5| 77.9 | 7/16   | 5/8       | 5/8    | 13/16  | 1      |
| 106         | 1.55| 158          | 91.5 | 86.4 | 1/2    | 11/16     | 11/16  | 7/8    | 1-1/16 |
| 97          | 1.42| 144          | 83.8 | 94.4 | 1/2    | 11/16     | 11/16  | 15/16  | 1-1/8  |
| 86          | 1.27| 128          | 74.9 | 105.5| 9/16   | 3/4       | 3/4    | 1      | 1-1/4  |
| 76          | 1.13| 113          | 66.7 | 118.6| 9/16   | 13/16     | 13/16  | 1-1/8  | 1-5/16 |
| 71          | 1.22| 106          | 72.0 | 109.8| 9/16   | 3/4       | 3/4    | 1-1/16 | 1-1/4  |
| 65          | 1.13| 97           | 66.7 | 118.6| 9/16   | 13/16     | 13/16  | 1-1/8  | 1-5/16 |
| 60          | 1.04| 89           | 61.4 | 128.8| 5/8    | 7/8       | 7/8    | 1-1/8  | 3-3/8  |
| 55          | 0.96| 82           | 56.6 | 139.6| 5/8    | 7/8       | 7/8    | 1-3/16 | 1-7/16 |
| 50          | 0.88| 74           | 51.9 | 152.3| 11/16  | 15/16     | 15/16  | 1-1/4  | 9-19/16|
| 48          | 0.87| 68           | 51.3 | 154.0| 11/16  | 15/16     | 15/16  | 1-5/16 | 1-9/16 |
| 40          | 0.76| 60           | 44.8 | 176.3| 3/4    | 1         | 1      | 1-3/8  | 1-11/16|
| 35          | 0.67| 52           | 39.5 | 200.0| 13/16  | 1-1/8     | 1-1/8  | 1-1/2  | 1-13/16|

| W16 x 100  | 1.59| W410 x 149   | 93.8 | 84.3 | 1/2    | 5/8       | 5/8    | 7/8    | 1-1/16 |
| 89          | 1.43| 132          | 84.4 | 93.7 | 1/2    | 11/16     | 11/16  | 15/16  | 1-1/8  |
| 77          | 1.25| 114          | 73.8 | 107.2| 9/16   | 3/4       | 3/4    | 1      | 1-1/4  |
| 67          | 1.09| 100          | 64.3 | 122.9| 5/8    | 13/16     | 13/16  | 1-1/8  | 3-3/8  |
| 57          | 1.09| 85           | 64.3 | 122.9| 5/8    | 13/16     | 13/16  | 1-1/8  | 3-3/8  |
| 50          | 0.96| 74           | 56.6 | 139.6| 5/8    | 7/8       | 7/8    | 1-3/16 | 1-7/16 |
| 45          | 0.87| 67           | 51.3 | 154.0| 11/16  | 15/16     | 15/16  | 1-5/16 | 1-9/16 |
## Unrestrained Beam

**Protected Roof Deck**

**CAFCO® BLAZE-SHIELD® II, HP & ISOLATEK® Type II, HP**

### ASTM Desig.

<table>
<thead>
<tr>
<th>W/D</th>
<th>W/D</th>
<th>M/D</th>
<th>Hp/A</th>
<th>1-Hour</th>
<th>1-1/2 Hour</th>
<th>2-Hour</th>
<th>3-Hour</th>
<th>4-Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>W16 x 40</td>
<td>0.78</td>
<td>46.0</td>
<td>171.8</td>
<td>3/4</td>
<td>1</td>
<td>1</td>
<td>1-3/8</td>
<td>1-5/8</td>
</tr>
<tr>
<td>36</td>
<td>0.7</td>
<td>53</td>
<td>41.3</td>
<td>191.4</td>
<td>3/4</td>
<td>1</td>
<td>1-1/16</td>
<td>1-7/16</td>
</tr>
<tr>
<td>31</td>
<td>0.66</td>
<td>46</td>
<td>38.9</td>
<td>203.0</td>
<td>3/4</td>
<td>1</td>
<td>1-1/8</td>
<td>1-1/2</td>
</tr>
<tr>
<td>26</td>
<td>0.55</td>
<td>39</td>
<td>32.5</td>
<td>243.6</td>
<td>7/8</td>
<td>1-3/16</td>
<td>1-5/8</td>
<td>2</td>
</tr>
</tbody>
</table>

| W14 x 808 | 8.75| W360 x 1202 | 516.3 | 15.3 | 3/8 | 3/8 | 3/8 | 3/8 |
| 730       | 8.08| 1086 | 476.7 | 16.6 | 3/8 | 3/8 | 3/8 | 3/8 |
| 665       | 7.49| 990  | 441.9 | 17.9 | 3/8 | 3/8 | 3/8 | 3/8 |
| 500       | 5.95| 744  | 351.1 | 22.5 | 3/8 | 3/8 | 3/8 | 3/8 |
| 455       | 5.53| 677  | 326.3 | 24.2 | 3/8 | 3/8 | 3/8 | 3/8 |
| 398       | 4.93| 592  | 290.9 | 27.2 | 3/8 | 3/8 | 3/8 | 3/8 |
| 342       | 4.32| 509  | 254.9 | 31.0 | 3/8 | 3/8 | 3/8 | 3/8 |
| 311       | 3.98| 463  | 234.8 | 33.7 | 3/8 | 3/8 | 3/8 | 3/8 |
| 233       | 3.08| 347  | 181.7 | 43.5 | 3/8 | 3/8 | 3/8 | 3/8 |
| 211       | 2.81| 314  | 165.8 | 47.7 | 3/8 | 7/16 | 7/16 | 7/16 |
| 193       | 2.6 | 287  | 153.4 | 51.5 | 3/8 | 7/16 | 7/16 | 7/16 |
| 176       | 2.38| 262  | 140.4 | 56.3 | 3/8 | 7/16 | 7/16 | 7/16 |
| 159       | 2.16| 237  | 127.4 | 62.0 | 3/8 | 7/16 | 7/16 | 7/16 |
| 145       | 1.99| 216  | 117.4 | 67.3 | 3/8 | 7/16 | 7/16 | 7/16 |
| 132       | 1.89| 196  | 111.5 | 70.9 | 7/16 | 7/16 | 7/16 | 7/16 |
| 120       | 1.71| 179  | 100.9 | 78.4 | 7/16 | 7/16 | 7/16 | 7/16 |
| 109       | 1.57| 162  | 92.6  | 85.3 | 7/16 | 7/16 | 7/16 | 7/16 |
| 99        | 1.43| 147  | 84.4  | 93.7 | 7/16 | 7/16 | 7/16 | 7/16 |
| 90        | 1.31| 134  | 77.3  | 102.3 | 9/16 | 7/16 | 7/16 | 7/16 |
| 82        | 1.45| 122  | 85.6  | 92.4 | 7/16 | 7/16 | 7/16 | 7/16 |
| 74        | 1.32| 110  | 77.9  | 101.5 | 7/16 | 7/16 | 7/16 | 7/16 |
| 68        | 1.22| 101  | 72.0  | 109.8 | 7/16 | 7/16 | 7/16 | 7/16 |
| 61        | 1.1 | 91   | 64.9  | 121.8 | 7/16 | 7/16 | 7/16 | 7/16 |
| 53        | 1.06| 79   | 62.5  | 126.4 | 7/16 | 7/16 | 7/16 | 7/16 |
| 48        | 0.97| 72   | 57.2  | 138.1 | 7/16 | 7/16 | 7/16 | 7/16 |
| 43        | 0.87| 64   | 51.3  | 154.0 | 7/16 | 7/16 | 7/16 | 7/16 |
| 38        | 0.8 | 57   | 47.2  | 167.5 | 7/16 | 7/16 | 7/16 | 7/16 |
| 34        | 0.72| 51   | 42.5  | 186.1 | 7/16 | 7/16 | 7/16 | 7/16 |
| 30        | 0.64| 45   | 37.8  | 209.3 | 7/16 | 7/16 | 7/16 | 7/16 |
| 26        | 0.62| 39   | 36.6  | 216.1 | 7/16 | 7/16 | 7/16 | 7/16 |
| 22        | 0.53| 33   | 31.3  | 252.8 | 7/16 | 7/16 | 7/16 | 7/16 |
### Unrestrained Beam

**S805**

**Protected Roof Deck**

**CAFCO® BLAZE-SHIELD® II, HP & ISOLATEK® Type II, HP**

<table>
<thead>
<tr>
<th>ASTM</th>
<th>W/D</th>
<th>Metric Desig.</th>
<th>M/D</th>
<th>Hp/A</th>
<th>1-Hour</th>
<th>1-1/2 Hour</th>
<th>2-Hour</th>
<th>3-Hour</th>
<th>4-Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>W12 x 336</td>
<td>4.85</td>
<td>W310 x 500</td>
<td>286.2</td>
<td>27.6</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>7/16</td>
</tr>
<tr>
<td>279</td>
<td>4.19</td>
<td>415 247.2</td>
<td>32.0</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>7/16</td>
<td>1/2</td>
</tr>
<tr>
<td>252</td>
<td>3.84</td>
<td>375 226.6</td>
<td>34.9</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>7/16</td>
<td>9/16</td>
</tr>
<tr>
<td>210</td>
<td>3.27</td>
<td>313 192.9</td>
<td>41.0</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
<td>5/8</td>
</tr>
<tr>
<td>190</td>
<td>3</td>
<td>283 177.0</td>
<td>44.7</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>7/16</td>
<td>9/16</td>
<td>5/8</td>
</tr>
<tr>
<td>170</td>
<td>2.72</td>
<td>253 160.5</td>
<td>49.3</td>
<td>3/8</td>
<td>7/16</td>
<td>7/16</td>
<td>9/16</td>
<td>11/16</td>
<td></td>
</tr>
<tr>
<td>152</td>
<td>2.45</td>
<td>225 144.6</td>
<td>54.7</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>5/8</td>
<td>3/4</td>
</tr>
<tr>
<td>136</td>
<td>2.23</td>
<td>202 131.6</td>
<td>60.1</td>
<td>3/8</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>11/16</td>
<td>13/16</td>
</tr>
<tr>
<td>120</td>
<td>1.99</td>
<td>179 117.4</td>
<td>67.3</td>
<td>3/8</td>
<td>9/16</td>
<td>9/16</td>
<td>3/4</td>
<td>7/8</td>
<td></td>
</tr>
<tr>
<td>106</td>
<td>1.77</td>
<td>158 104.4</td>
<td>75.7</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>13/16</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>96</td>
<td>1.61</td>
<td>143 95.0</td>
<td>83.2</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>7/8</td>
<td>1-1/16</td>
<td></td>
</tr>
<tr>
<td>87</td>
<td>1.47</td>
<td>129 86.7</td>
<td>91.1</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>15/16</td>
<td>1-1/8</td>
<td></td>
</tr>
<tr>
<td>79</td>
<td>1.34</td>
<td>117 79.1</td>
<td>100.0</td>
<td>1/2</td>
<td>3/4</td>
<td>3/4</td>
<td>1</td>
<td>1-3/16</td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>1.23</td>
<td>107 72.6</td>
<td>108.9</td>
<td>9/16</td>
<td>3/4</td>
<td>3/4</td>
<td>1-1/16</td>
<td>1-1/4</td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>1.11</td>
<td>97 65.5</td>
<td>120.7</td>
<td>9/16</td>
<td>13/16</td>
<td>13/16</td>
<td>1-1/8</td>
<td>1-5/16</td>
<td></td>
</tr>
<tr>
<td>58</td>
<td>1.1</td>
<td>86 64.9</td>
<td>121.8</td>
<td>5/8</td>
<td>13/16</td>
<td>13/16</td>
<td>1-1/8</td>
<td>1-3/8</td>
<td></td>
</tr>
<tr>
<td>53</td>
<td>1.02</td>
<td>79 60.2</td>
<td>131.4</td>
<td>5/8</td>
<td>7/8</td>
<td>7/8</td>
<td>1-3/16</td>
<td>1-7/16</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>1.06</td>
<td>74 62.5</td>
<td>126.4</td>
<td>5/8</td>
<td>7/8</td>
<td>7/8</td>
<td>1-1/8</td>
<td>1-3/8</td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>0.97</td>
<td>67 57.2</td>
<td>138.1</td>
<td>5/8</td>
<td>7/8</td>
<td>7/8</td>
<td>1-3/16</td>
<td>1-7/16</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>0.86</td>
<td>60 50.7</td>
<td>155.8</td>
<td>11/16</td>
<td>15/16</td>
<td>15/16</td>
<td>1-5/16</td>
<td>1-9/16</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>0.81</td>
<td>52 47.8</td>
<td>165.4</td>
<td>11/16</td>
<td>1</td>
<td>1</td>
<td>1-5/16</td>
<td>1-5/8</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>0.69</td>
<td>45 40.7</td>
<td>194.2</td>
<td>3/4</td>
<td>1-1/16</td>
<td>1-1/16</td>
<td>1-7/16</td>
<td>1-3/4</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>0.61</td>
<td>39 36.0</td>
<td>219.6</td>
<td>13/16</td>
<td>1-1/8</td>
<td>1-1/8</td>
<td>1-9/16</td>
<td>1-7/8</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>0.62</td>
<td>33 36.6</td>
<td>216.1</td>
<td>13/16</td>
<td>1-1/8</td>
<td>1-1/8</td>
<td>1-9/16</td>
<td>1-7/8</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>0.54</td>
<td>28 31.9</td>
<td>248.1</td>
<td>7/8</td>
<td>1-1/4</td>
<td>1-1/4</td>
<td>1-5/8</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>0.45</td>
<td>24 26.6</td>
<td>297.7</td>
<td>15/16</td>
<td>1-5/16</td>
<td>1-5/16</td>
<td>1-13/16</td>
<td>2-3/16</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>0.4</td>
<td>21 23.6</td>
<td>335.0</td>
<td>1</td>
<td>1-3/8</td>
<td>1-3/8</td>
<td>1-7/8</td>
<td>2-1/4</td>
<td></td>
</tr>
</tbody>
</table>

| W10 x 112 | 2.17 | W250 x 167 | 128.0| 61.7 | 3/8    | 1/2        | 1/2    | 11/16  | 13/16  |
| 100        | 1.97 | 149 116.2   | 68.0 | 3/8  | 9/16   | 9/16       | 3/4    | 7/8    |
| 88         | 1.74 | 131 102.7   | 77.0 | 7/16 | 5/8    | 5/8        | 13/16  | 1     |
| 77         | 1.54 | 115 90.9    | 87.0 | 1/2  | 11/16  | 11/16      | 7/8    | 1-1/16 |
| 68         | 1.38 | 101 81.4    | 97.1 | 1/2  | 11/16  | 11/16      | 15/16  | 1-3/16 |
| 60         | 1.22 | 89 72.0     | 109.8| 9/16 | 3/4    | 3/4        | 1-1/16 | 1-1/4  |
| 54         | 1.11 | 80 65.5     | 120.7| 9/16 | 13/16  | 13/16      | 1-1/8  | 1-5/16 |
| 49         | 1.01 | 73 59.6     | 132.7| 5/8  | 7/8    | 7/8        | 1-3/16 | 1-7/16 |
| 45         | 1.06 | 67 62.5     | 126.4| 5/8  | 7/8    | 7/8        | 1-1/8  | 1-3/8  |
| 39         | 0.92 | 58 54.3     | 145.6| 11/16| 15/16  | 15/16      | 1-1/4  | 1-1/2  |
| 33         | 0.78 | 49 46.0     | 171.8| 3/4  | 1      | 1         | 1-3/8  | 1-5/8  |
| 30         | 0.8  | 45 47.2     | 167.5| 11/16| 1      | 1         | 1-3/8  | 1-5/8  |
### ASTM Designations

<table>
<thead>
<tr>
<th>W/D</th>
<th>Metric Design.</th>
<th>M/D</th>
<th>Hp/A</th>
<th>1-Hour</th>
<th>1-1/2 Hour</th>
<th>2-Hour</th>
<th>3-Hour</th>
<th>4-Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>W10 x 26</td>
<td>W10 x 39</td>
<td>41.3</td>
<td>191.4</td>
<td>3/4</td>
<td>1-1/16</td>
<td>1-1/16</td>
<td>1-7/16</td>
<td>1-3/4</td>
</tr>
<tr>
<td>22</td>
<td>33</td>
<td>35.4</td>
<td>223.3</td>
<td>13/16</td>
<td>1-3/16</td>
<td>1-3/16</td>
<td>1-9/16</td>
<td>1-7/8</td>
</tr>
<tr>
<td>19</td>
<td>28</td>
<td>35.4</td>
<td>223.3</td>
<td>13/16</td>
<td>1-3/16</td>
<td>1-3/16</td>
<td>1-9/16</td>
<td>1-7/8</td>
</tr>
<tr>
<td>17</td>
<td>25</td>
<td>31.9</td>
<td>248.1</td>
<td>7/8</td>
<td>1-1/4</td>
<td>1-1/4</td>
<td>1-5/8</td>
<td>2</td>
</tr>
<tr>
<td>15</td>
<td>22</td>
<td>28.3</td>
<td>279.1</td>
<td>15/16</td>
<td>1-5/16</td>
<td>1-5/16</td>
<td>1-3/4</td>
<td>2-1/8</td>
</tr>
<tr>
<td>12</td>
<td>18</td>
<td>23.0</td>
<td>343.5</td>
<td>1</td>
<td>1-3/8</td>
<td>1-3/8</td>
<td>1-7/8</td>
<td>2-5/16</td>
</tr>
<tr>
<td>W8 x 67</td>
<td>W200 x 100</td>
<td>97.4</td>
<td>81.2</td>
<td>7/16</td>
<td>5/8</td>
<td>5/8</td>
<td>7/8</td>
<td>1</td>
</tr>
<tr>
<td>58</td>
<td>86</td>
<td>85.0</td>
<td>93.0</td>
<td>1/2</td>
<td>11/16</td>
<td>11/16</td>
<td>15/16</td>
<td>1-1/8</td>
</tr>
<tr>
<td>48</td>
<td>71</td>
<td>71.4</td>
<td>110.7</td>
<td>9/16</td>
<td>13/16</td>
<td>13/16</td>
<td>1-1/16</td>
<td>1-1/4</td>
</tr>
<tr>
<td>40</td>
<td>59</td>
<td>60.8</td>
<td>130.1</td>
<td>5/8</td>
<td>7/8</td>
<td>7/8</td>
<td>1-3/16</td>
<td>1-3/8</td>
</tr>
<tr>
<td>35</td>
<td>52</td>
<td>53.1</td>
<td>148.9</td>
<td>11/16</td>
<td>15/16</td>
<td>15/16</td>
<td>1-1/4</td>
<td>1-1/2</td>
</tr>
<tr>
<td>31</td>
<td>46</td>
<td>47.2</td>
<td>167.5</td>
<td>11/16</td>
<td>1</td>
<td>1</td>
<td>1-3/8</td>
<td>1-5/8</td>
</tr>
<tr>
<td>28</td>
<td>42</td>
<td>47.8</td>
<td>165.4</td>
<td>11/16</td>
<td>1</td>
<td>1</td>
<td>1-5/16</td>
<td>1-5/8</td>
</tr>
<tr>
<td>24</td>
<td>36</td>
<td>41.3</td>
<td>191.4</td>
<td>3/4</td>
<td>1-1/16</td>
<td>1-1/16</td>
<td>1-7/16</td>
<td>1-3/4</td>
</tr>
<tr>
<td>21</td>
<td>31</td>
<td>39.5</td>
<td>200.0</td>
<td>13/16</td>
<td>1-1/8</td>
<td>1-1/8</td>
<td>1-1/2</td>
<td>1-13/16</td>
</tr>
<tr>
<td>18</td>
<td>27</td>
<td>34.2</td>
<td>231.0</td>
<td>7/8</td>
<td>1-3/16</td>
<td>1-3/16</td>
<td>1-9/16</td>
<td>1-15/16</td>
</tr>
<tr>
<td>15</td>
<td>22</td>
<td>32.5</td>
<td>243.6</td>
<td>7/8</td>
<td>1-3/16</td>
<td>1-3/16</td>
<td>1-5/8</td>
<td>2</td>
</tr>
<tr>
<td>13</td>
<td>19</td>
<td>28.3</td>
<td>279.1</td>
<td>15/16</td>
<td>1-5/16</td>
<td>1-5/16</td>
<td>1-3/4</td>
<td>2-1/8</td>
</tr>
<tr>
<td>10</td>
<td>15</td>
<td>21.8</td>
<td>362.1</td>
<td>1</td>
<td>1-7/16</td>
<td>1-7/16</td>
<td>1-15/16</td>
<td>2-5/16</td>
</tr>
<tr>
<td>W6 x 25</td>
<td>W150 x 37</td>
<td>49.0</td>
<td>161.4</td>
<td>11/16</td>
<td>1</td>
<td>1</td>
<td>1-5/16</td>
<td>1-5/8</td>
</tr>
<tr>
<td>20</td>
<td>30</td>
<td>39.5</td>
<td>200.0</td>
<td>13/16</td>
<td>1-1/8</td>
<td>1-1/8</td>
<td>1-1/2</td>
<td>1-13/16</td>
</tr>
<tr>
<td>16</td>
<td>24</td>
<td>40.1</td>
<td>197.0</td>
<td>3/4</td>
<td>1-1/16</td>
<td>1-1/16</td>
<td>1-7/16</td>
<td>1-3/4</td>
</tr>
<tr>
<td>15</td>
<td>22</td>
<td>30.7</td>
<td>257.7</td>
<td>7/8</td>
<td>1-1/4</td>
<td>1-1/4</td>
<td>1-11/16</td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>18</td>
<td>30.7</td>
<td>257.7</td>
<td>7/8</td>
<td>1-1/4</td>
<td>1-1/4</td>
<td>1-11/16</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>14</td>
<td>23.0</td>
<td>343.5</td>
<td>1</td>
<td>1-3/8</td>
<td>1-3/8</td>
<td>1-7/8</td>
<td>2-5/16</td>
</tr>
<tr>
<td>8.5</td>
<td>13</td>
<td>21.8</td>
<td>362.1</td>
<td>1</td>
<td>1-7/16</td>
<td>1-7/16</td>
<td>1-15/16</td>
<td>2-5/16</td>
</tr>
<tr>
<td>W5 x 19</td>
<td>W130 x 28</td>
<td>45.4</td>
<td>174.0</td>
<td>3/4</td>
<td>1</td>
<td>1</td>
<td>1-3/8</td>
<td>1-11/16</td>
</tr>
<tr>
<td>16</td>
<td>24</td>
<td>38.9</td>
<td>203.0</td>
<td>13/16</td>
<td>1-1/8</td>
<td>1-1/8</td>
<td>1-1/2</td>
<td>1-13/16</td>
</tr>
<tr>
<td>W4 x 13</td>
<td>W100 x 19</td>
<td>39.5</td>
<td>200.0</td>
<td>13/16</td>
<td>1-1/8</td>
<td>1-1/8</td>
<td>1-1/2</td>
<td>1-13/16</td>
</tr>
</tbody>
</table>