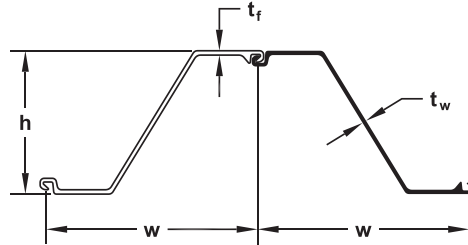


# AZ

AZ Hot Rolled Steel Sheet Pile



# skylinesteel I

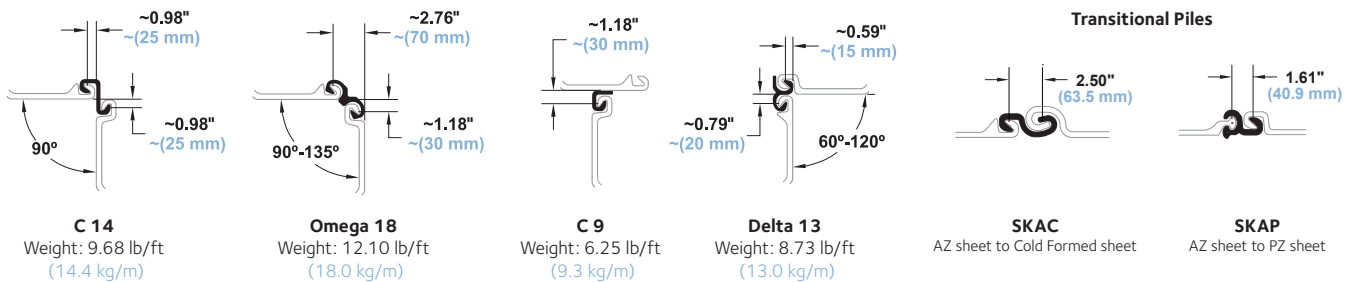


| SECTION    | Width (w)<br>in<br>(mm) | Height (h)<br>in<br>(mm) | THICKNESS                              |                                     | Cross Sectional Area<br>in <sup>2</sup> /ft<br>(cm <sup>2</sup> /m) | WEIGHT                  |  | SECTION MODULUS  |  | Moment of Inertia<br>in <sup>4</sup> /ft<br>(cm <sup>4</sup> /m) | COATING AREA   |   |
|------------|-------------------------|--------------------------|--|-------------------------------------|---|-------------------------|--|--|--|--|--|---|
|            |                         |                          | Flange (t <sub>f</sub> )<br>in<br>(mm) | Web (t <sub>w</sub> )<br>in<br>(mm) |   | Pile<br>lb/ft<br>(kg/m) | Wall<br>lb/ft <sup>2</sup><br>(kg/m <sup>2</sup> ) | Elastic<br>in <sup>3</sup> /ft<br>(cm <sup>3</sup> /m) | Plastic<br>in <sup>3</sup> /ft<br>(cm <sup>3</sup> /m) |  | Both Sides<br>ft <sup>2</sup> /ft of single<br>(m <sup>2</sup> /m) | Wall Surface<br>ft <sup>2</sup> /ft <sup>2</sup><br>(m <sup>2</sup> /m <sup>2</sup> ) |
| AZ 12-700R | 27.56<br>700            | 12.36<br>314             | 0.335<br>8.5                           | 0.335<br>8.5                        | 5.81<br>123   | 45.49<br>67.7           | 19.80<br>96.7                                      | 22.4<br>1205   | 26.32<br>1415  | 137.8<br>18880   | 5.64<br>1.72   | 1.22<br>1.22  |
| AZ 13-700R | 27.56<br>700            | 12.40<br>315             | 0.374<br>9.5                           | 0.374<br>9.5                        | 6.37<br>135   | 49.73<br>74.0           | 21.65<br>105.7                                     | 24.3<br>1305   | 28.64<br>1540  | 149.9<br>20540   | 5.64<br>1.72   | 1.22<br>1.22  |
| AZ 14-700R | 27.56<br>700            | 12.44<br>316             | 0.413<br>10.5                          | 0.413<br>10.5                       | 6.89<br>146   | 53.96<br>80.3           | 23.49<br>114.7                                     | 26.1<br>1405   | 30.97<br>1665  | 162.0<br>22190   | 5.64<br>1.72   | 1.22<br>1.22  |
| AZ 12-770  | 30.31<br>770            | 13.52<br>343.5           | 0.335<br>8.50                          | 0.335<br>8.50                       | 5.67<br>120.1   | 48.78<br>72.60          | 19.31<br>94.30                                     | 23.2<br>1245   | 27.5<br>1480   | 156.9<br>21430   | 6.10<br>1.86   | 1.20<br>1.20  |
| AZ 13-770  | 30.31<br>770            | 13.54<br>344.0           | 0.354<br>9.00                          | 0.354<br>9.00                       | 5.94<br>125.8   | 51.14<br>76.10          | 20.24<br>98.80                                     | 24.2<br>1300   | 28.8<br>1546   | 163.7<br>22360   | 6.10<br>1.86   | 1.20<br>1.20  |
| AZ 14-770  | 30.31<br>770            | 13.56<br>344.5           | 0.375<br>9.50                          | 0.375<br>9.50                       | 6.21<br>131.5   | 53.42<br>79.50          | 21.14<br>103.20                                    | 25.2<br>1355   | 30.0<br>1611   | 170.6<br>23300   | 6.10<br>1.86   | 1.20<br>1.20  |
| AZ 17      | 24.80<br>630            | 14.92<br>379.0           | 0.335<br>8.50                          | 0.335<br>8.50                       | 6.53<br>138.3   | 45.96<br>68.40          | 22.24<br>108.60                                    | 31.0<br>1665   | 36.2<br>1944   | 231.3<br>31580   | 5.64<br>1.72   | 1.35<br>1.35  |
| AZ 18      | 24.80<br>630            | 14.96<br>380.0           | 0.375<br>9.50                          | 0.375<br>9.50                       | 7.11<br>150.4   | 49.99<br>74.40          | 24.19<br>118.10                                    | 33.5<br>1800   | 39.1<br>2104   | 250.4<br>34200   | 5.64<br>1.72   | 1.35<br>1.35  |
| AZ 19      | 24.80<br>630            | 15.00<br>381.0           | 0.413<br>10.50                         | 0.413<br>10.50                      | 7.74<br>163.8   | 54.43<br>81.00          | 26.34<br>128.60                                    | 36.1<br>1940   | 42.3<br>2275   | 270.8<br>36980   | 5.64<br>1.72   | 1.35<br>1.35  |
| AZ 17-700  | 27.56<br>700            | 16.52<br>419.5           | 0.335<br>8.50                          | 0.335<br>8.50                       | 6.28<br>133.0   | 49.12<br>73.10          | 21.38<br>104.40                                    | 32.2<br>1730   | 37.7<br>2027   | 265.3<br>36230   | 6.10<br>1.86   | 1.33<br>1.33  |
| AZ 18-700  | 27.56<br>700            | 16.54<br>420.0           | 0.354<br>9.00                          | 0.354<br>9.00                       | 6.58<br>139.2   | 51.41<br>76.50          | 22.39<br>109.30                                    | 33.5<br>1800   | 39.4<br>2116   | 276.8<br>37800   | 6.10<br>1.86   | 1.33<br>1.33  |
| AZ 19-700  | 27.56<br>700            | 16.56<br>420.5           | 0.375<br>9.50                          | 0.375<br>9.50                       | 6.88<br>145.6   | 53.76<br>80.00          | 23.41<br>114.30                                    | 34.8<br>1870   | 41.0<br>2206   | 288.4<br>39380   | 6.10<br>1.86   | 1.33<br>1.33  |
| AZ 25      | 24.80<br>630            | 16.77<br>426.0           | 0.472<br>12.00                         | 0.441<br>11.20                      | 8.74<br>185.0   | 61.49<br>91.50          | 29.74<br>145.20                                    | 45.7<br>2455   | 53.4<br>2873   | 382.6<br>52250   | 5.91<br>1.80   | 1.41<br>1.41  |
| AZ 26      | 24.80<br>630            | 16.81<br>427.0           | 0.512<br>13.00                         | 0.480<br>12.20                      | 9.35<br>198.0   | 65.72<br>97.80          | 31.79<br>155.20                                    | 48.4<br>2600   | 56.9<br>3059   | 406.5<br>55510   | 5.91<br>1.80   | 1.41<br>1.41  |
| AZ 28      | 24.80<br>630            | 16.85<br>428.0           | 0.551<br>14.00                         | 0.520<br>13.20                      | 9.97<br>211.1   | 70.15<br>104.40         | 33.94<br>165.70                                    | 51.2<br>2755   | 60.5<br>3252   | 431.6<br>58940   | 5.91<br>1.80   | 1.41<br>1.41  |
| AZ 24-700  | 27.56<br>700            | 18.07<br>459.0           | 0.441<br>11.20                         | 0.441<br>11.20                      | 8.23<br>174.1   | 64.30<br>95.70          | 28.00<br>136.70                                    | 45.2<br>2430   | 53.5<br>2867   | 408.8<br>55820   | 6.33<br>1.93   | 1.38<br>1.38  |
| AZ 26-700  | 27.56<br>700            | 18.11<br>460.0           | 0.480<br>12.20                         | 0.480<br>12.20                      | 8.84<br>187.2   | 69.12<br>102.90         | 30.10<br>146.90                                    | 48.4<br>2600   | 57.1<br>3070   | 437.3<br>59720   | 6.33<br>1.93   | 1.38<br>1.38  |
| AZ 28-700  | 27.56<br>700            | 18.15<br>461.0           | 0.520<br>13.20                         | 0.520<br>13.20                      | 9.46<br>200.2   | 73.93<br>110.00         | 32.19<br>157.20                                    | 51.3<br>2760   | 60.9<br>3273   | 465.9<br>63620   | 6.33<br>1.93   | 1.38<br>1.38  |
| AZ 36-700N | 27.56<br>700            | 19.65<br>499.0           | 0.591<br>15.00                         | 0.441<br>11.20                      | 10.20<br>216.0  | 79.70<br>118.60         | 34.61<br>169.00                                    | 66.8<br>3590   | 76.5<br>4110   | 656.2<br>89610   | 6.76<br>2.06   | 1.46<br>1.47  |
| AZ 38-700N | 27.56<br>700            | 19.69<br>500.0           | 0.630<br>16.00                         | 0.480<br>12.20                      | 10.87<br>230.0  | 84.94<br>126.40         | 37.07<br>181.00                                    | 70.6<br>3795   | 81.1<br>4360   | 694.5<br>94840   | 6.76<br>2.06   | 1.46<br>1.47  |
| AZ 40-700N | 27.56<br>700            | 19.72<br>501.0           | 0.669<br>17.00                         | 0.520<br>13.20                      | 11.53<br>244.0  | 90.18<br>134.20         | 39.32<br>192.00                                    | 74.3<br>3995   | 85.7<br>4605   | 732.9<br>100080  | 6.76<br>2.06   | 1.46<br>1.46  |
| AZ 46      | 22.83<br>580            | 18.94<br>481.0           | 0.709<br>18.00                         | 0.551<br>14.00                      | 13.76<br>291.2  | 89.10<br>132.60         | 46.82<br>228.60                                    | 85.5<br>4595   | 98.5<br>5295   | 808.8<br>110450  | 6.23<br>1.90   | 1.63<br>1.63  |
| AZ 48      | 22.83<br>580            | 18.98<br>482.0           | 0.748<br>19.00                         | 0.591<br>15.00                      | 14.48<br>306.5  | 93.81<br>139.60         | 49.28<br>240.60                                    | 89.3<br>4800   | 103.3<br>5553  | 847.1<br>115670  | 6.23<br>1.90   | 1.63<br>1.63  |
| AZ 50      | 22.83<br>580            | 19.02<br>483.0           | 0.787<br>20.00                         | 0.630<br>16.00                      | 15.22<br>322.2  | 98.58<br>146.70         | 51.80<br>252.9                                     | 93.3<br>5015   | 108.2<br>5816  | 886.5<br>121060  | 6.23<br>1.90   | 1.63<br>1.63  |

| Available Steel Grades |                |       |             |                |       |          |                |       |
|------------------------|----------------|-------|-------------|----------------|-------|----------|----------------|-------|
| AMERICAN               |                |       | CANADIAN    |                |       | EUROPEAN |                |       |
| ASTM                   | YIELD STRENGTH |       | CSA G40.21  | YIELD STRENGTH |       | EN 10248 | YIELD STRENGTH |       |
|                        | (ksi)          | (MPa) |             | (ksi)          | (MPa) |          | (ksi)          | (MPa) |
| A 328                  | 39             | 270   | Grade 260 W | 38             | 260   | S 240 GP | 35             | 240   |
| A 572 Grade 42         | 42             | 290   | Grade 300 W | 43             | 297   | S 270 GP | 39             | 270   |
| A 572 Grade 50         | 50             | 345   | Grade 350 W | 51             | 355   | S 320 GP | 46             | 315   |
| A 572 Grade 55         | 55             | 380   | Grade 400 W | 58             | 400   | S 355 GP | 51             | 355   |
| A 572 Grade 60         | 60             | 415   |             |                |       | S 390 GP | 57             | 390   |
| A 572 Grade 65         | 65             | 450   |             |                |       | S 430 GP | 62             | 430   |
| A 690                  | 50             | 345   |             |                |       | S 460 AP | 67             | 460   |
| A 690*                 | 57             | 390   |             |                |       |          |                |       |

\*Not available for AZ 37-700 and larger.

### Corner Piles



### Delivery Conditions & Tolerances

|                    | ASTM A 6                   | EN 10248                                     |
|--------------------|----------------------------|--|
| Mass               | ± 2.5%                     | ± 5%   |
| Length             | + 5 inches      - 0 inches | ± 200 mm                                     |
| Height             |                            | ± 7 mm                                       |
| Thickness          |                            | ≤ 8.5 mm      ± 0.5 mm<br>> 8.5 mm      ± 6% |
| Width              |                            | ± 2%   |
| Double Pile Width  |                            | ± 3%   |
| Straightness       |                            | 0.2% of the length                           |
| Ends out of Square |                            | 2% of the width                              |

### Maximum Rolled Lengths\*

|          |            |          |
|----------|------------|----------|
| AZ       | 101.7 feet | (31.0 m) |
| C 9      | 59.1 feet  | (18.0 m) |
| C 14     | 59.1 feet  | (18.0 m) |
| Delta 13 | 59.1 feet  | (18.0 m) |
| Omega 18 | 52.0 feet  | (16.0 m) |

\* Longer lengths may be possible upon request.