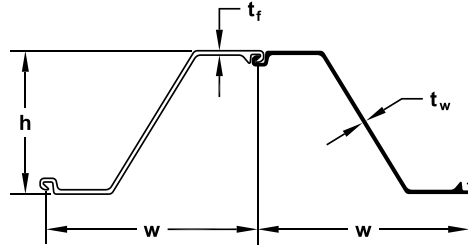


# AZ

AZ Hot Rolled Steel Sheet Piling



# skylinesteel I



| SECTION   |              |                | 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   |   |
|-----------|--------------|----------------|--------------------------|-----------------------|---|-----------------|--|---|---|--|--|---|
|           | Width (w)    | Height (h)     | Flange (t <sub>f</sub> ) | Web (t <sub>w</sub> ) |   | Pile            | Wall                                       | Elastic                                     | Plastic                                     |  | Both Sides   | Wall Surface  |
|           | in<br>(mm)   | in<br>(mm)     | in<br>(mm)               | in<br>(mm)            |   | lb/ft<br>(kg/m) | lb/ft <sup>2</sup><br>(kg/m <sup>2</sup> ) | in <sup>3</sup> /ft<br>(cm <sup>3</sup> /m) | in <sup>3</sup> /ft<br>(cm <sup>3</sup> /m) |  | ft <sup>2</sup> /ft of single<br>(m <sup>2</sup> /m) | ft <sup>2</sup> /ft <sup>2</sup><br>(m <sup>2</sup> /m <sup>2</sup> ) |
| AZ 12     | 26.38<br>670 | 11.89<br>302.0 | 0.335<br>8.50            | 0.335<br>8.50         | 5.94<br>125.7   | 44.42<br>66.10  | 20.22<br>98.70                             | 22.3<br>1200                                | 26.2<br>1409                                | 132.8<br>21430   | 5.45<br>1.66   | 1.23<br>1.23  |
| AZ 13     | 26.38<br>670 | 11.93<br>303.0 | 0.375<br>9.50            | 0.375<br>9.50         | 6.47<br>136.9   | 48.38<br>72.00  | 22.02<br>107.50                            | 24.2<br>1300                                | 28.4<br>1528                                | 144.3<br>19700   | 5.45<br>1.66   | 1.23<br>1.23  |
| AZ 14     | 26.38<br>670 | 11.97<br>304.0 | 0.413<br>10.50           | 0.413<br>10.50        | 7.03<br>148.9   | 52.62<br>78.30  | 23.94<br>116.90                            | 26.0<br>1400                                | 30.7<br>1651                                | 156.0<br>21300   | 5.45<br>1.66   | 1.23<br>1.23  |
| 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 37-700 | 27.56<br>700 | 19.65<br>499.0 | 0.669<br>17.00           | 0.480<br>12.20        | 10.68<br>226.0  | 83.46<br>124.20 | 36.33<br>177.40                            | 68.9<br>3705                                | 79.2<br>4260                                | 676.6<br>92400   | 6.76<br>2.06   | 1.46<br>1.46  |
| AZ 39-700 | 27.56<br>700 | 19.69<br>500.0 | 0.709<br>18.00           | 0.520<br>13.20        | 11.34<br>240.0  | 88.63<br>131.90 | 38.59<br>188.40                            | 72.5<br>3900                                | 83.7<br>4500                                | 714.0<br>97500   | 6.76<br>2.06   | 1.46<br>1.46  |
| AZ 41-700 | 27.56<br>700 | 19.72<br>501.0 | 0.748<br>19.00           | 0.559<br>14.20        | 12.00<br>254.0  | 93.74<br>139.50 | 40.84<br>199.40                            | 76.2<br>4095                                | 88.3<br>4745                                | 751.4<br>102610  | 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  |

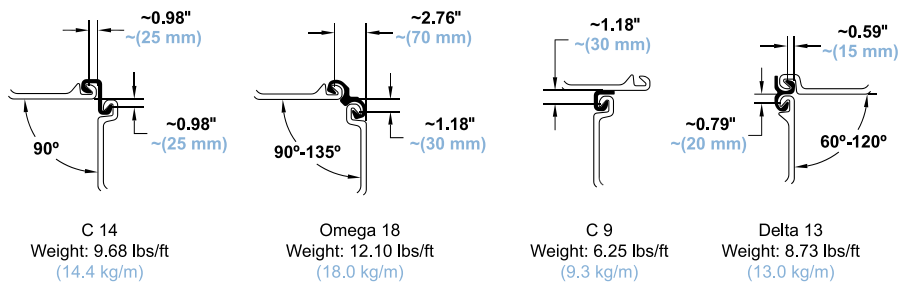


## AZ Hot Rolled Steel Sheet Piling

| 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.