
EVERETT STEEL COMPANIES

ALUMINUM SHEET AND PLATE SPECIALTIES

Tread Plate



3003-H22 ALUMINUM TREAD PLATE

Bright Finish

| Size | Wt. per Sq. Ft. | Wt. per Sheet |
|-----------------|--------------------|------------------|
| .100 x 48 x 192 | 1.60 | 96.0 |
| .100 x 60 x 192 | 1.60 | 128.0 |
| .125 x 48 x 192 | 2.0 | 128.0 |
| .125 x 60 x 192 | 2.0 | 160.0 |

5052-H32 ALUMINUM TREAD PLATE

5086-H34 ALUMINUM TREAD PLATE

Semi Bright Mill Finish

| Size | Wt. per Sq. Ft. | Wt. per Sheet |
|-----------------|--------------------|------------------|
| .125 x 48 x 192 | 2.0 | 128.0 |
| .125 x 60 x 192 | 2.0 | 160.0 |
| .188 x 48 x 192 | 3.0 | 192.0 |
| .188 x 60 x 192 | 3.0 | 240.0 |

6061-T6 ALUMINUM TREAD PLATE

Mill Finish

| Size | Wt. per Sq. Ft. | Wt. per Sheet |
|-----------------|--------------------|------------------|
| .125 x 48 x 192 | 2.0 | 128.0 |
| .125 x 60 x 192 | 2.0 | 160.0 |
| .188 x 48 x 192 | 3.0 | 192.0 |
| .188 x 60 x 192 | 3.0 | 240.0 |
| .250 x 48 x 192 | 3.9 | 249.6 |
| .250 x 60 x 192 | 3.9 | 312.0 |
| .375 x 48 x 192 | 5.6 | 358.4 |
| .375 x 60 x 192 | 5.6 | 448.0 |

EVERETT STEEL COMPANIES

ALUMINUM SHEET AND PLATE SPECIALTIES

Aluminum Diamond Pattern Tread Sheet and Plate Properties, Characteristics and Specifications.

| | 3003-H22 | 5086-H34 | 6061-T6 |
|------------------------|-----------------------|--------------------------------|-----------------------------|
| Properties* | | | |
| Ultimate Strength | 17.0 ksi | 44.0 ksi | 42.0 ksi |
| Yield Strength | 12.0 ksi | 34.0 ksi | 35.0 ksi |
| Elongation | 7% | 6% | 10% |
| Characteristics | | | |
| Weldability | Good | Excellent | Good |
| Formability | Good | Good | Fair |
| Surface Finish | Bright, Reflective | Nonheat-Treated Mill Finish | Heat-Treated Mill Finish |
| Specifications | | | |
| Thickness | .100-.188 in. | .100-.188 in. | .100-.500 in. |
| Width | Up to 72 in. | Up to 60 in. | Up to 72 in. |
| Length | 240 in. | 240 in. | 240 in. |

*Mechanical property limits.

The ultimate and yield strengths of alloy 5086-H34, along with its elongation properties, are essentially the same as those for alloy 6061-T6. But because 5086-H34 is a 5XXX alloy, fatigue strength is 50 percent higher and it exhibits better formability. So alloy 5086-H34 tread plate can be substituted for alloy 6061-T6 tread plate with complete confidence in most situations.

APPROXIMATE RADII FOR 90° COLD BEND C-102 TREAD PLATE

| ALLOY AND TEMPER | THICKNESS | | | | | | | | | |
|------------------------|-----------|----|------|----|------|----|------|----|------|----|
| | .100 | | .125 | | .188 | | .250 | | .375 | |
| | R1 | R2 | R1 | R2 | R1 | R2 | R1 | R2 | R1 | R2 |
| 3003-H22 | 3T | 2T | 3T | 2T | 3T | 2T | — | — | — | — |
| 5086-H34 | — | — | 4T | 3T | 4T | 3T | — | — | — | — |
| 6061-T6 | — | — | 4T | 3T | 6T | 4T | 6T | 4T | 6T | 4T |

T = Thickness