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

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