



6061-T4 AND -T6 TREAD SHEET

TECHNICAL DATA

C102 (Diamond) Pattern

Strength, skid resistance, and durability are the major attributes of Alcoa's 6061-T6 tread sheet and plate. A wide range of sheet and plate thicknesses are offered as standard products and are available in a variety of widths and lengths.

Strength — 6061 tread sheet and plate is heat treated and aged to the -T6 temper to provide the highest strength standard tread product available. This property makes 6061 tread ideally suited for consideration in applications where heaviest loading is involved.

Durability — Long-term performance in loading ramp, trench cover, dock board, dock plate, flooring, stair tread, and other similar applications has established 6061-T6 tread as a preferred product. High strength is combined with corrosion resistance and light weight to highlight 6061 compatibility with many applications.

Skid Resistance — The raised diamond tread design provides improved footing where needed. Improved footing is maintained due to high durability.

CHEMICAL COMPOSITION

(Weight Percent) Maximum Unless Shown As A Range

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others		Aluminum
								Each	Total	
0.4-0.8	0.7	0.15-0.4	0.15	0.8-1.2	0.4-0.35	0.25	0.15	0.05	0.15	Remainder

MECHANICAL PROPERTIES

	Ultimate Strength KSI	Yield Strength KSI	Elongation % in 2 inches
Minimum 6061-T6	42	35	6
T4	30	16	14

PHYSICAL CHARACTERISTICS

Thickness	Thickness Tolerance Inches		Button Pattern Height, Inches (Minimum)	Thickness	Thickness Tolerance Inches		Button Pattern Height, Inches (Minimum)
	Plus	Minus			Plus	Minus	
.100	.008	.012	.040	.375	.025	.045	.040
.125	.010	.015	.040	.500	.035	.060	.040
.156	.011	.019	.040	.625	.044	.075	.040
.188	.013	.023	.040	.750	.052	.090	.040
.250	.018	.030	.040				

Surface Finish: Heat-Treated Mill Finish

Formability: Fair

Weldability: Good

Width Tolerance: Plus 3/8 inch

Widths Available:	.100 - .125	82 inches		.189 - .500	72 inches
	.126 - .188	82 inches		.501 - .750	72 inches

Length Tolerance:	Up to 144 inches	– plus 3/8 inch
	Over 144 inches thru 240 inches	– plus 7/16 inch
	Over 240 inches	– plus 1/2 inch

Lateral Bow Tolerance: 1/8 inch in any 10 feet

Squareness Tolerance:	Length	Max. Difference in Diagonal
	Up to 144 inches	3/8 inch
	Over 144 thru 240 inches	7/16 inch
	Over 240 inches	1/2 inch

Camber of Pattern Line Tolerance:	Length	Width	
		To 48 inches	Over 48 inches
	Up thru 24 inches	1/8 inch	1/8 inch
	Over 24 inches thru 72 inches	1/2 inch	1/2 inch
	Over 72 inches thru 144 inches	3/4 inch	1 inch
	Over 144 inches	1 inch	1 1/2 inch

PRODUCT SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

ALCOA MILL PRODUCTS

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February 2005

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