



## 6061-T4 AND -T6 TREAD SHEET

## TECHNICAL DATA

### C300 Pattern

In response to marketplace requirements for the ultimate in traction, Alcoa has introduced the C300 tread sheet product. The .065 inch minimum button height is unmatched by any other tread product. Alloy 6061 provides strength, durability, ease of welding, corrosion resistance, and economy for a unique package ideally suited for the most demanding high strength flooring applications.

**Button Height** — Only the Alcoa C300 tread pattern offers a .065 inch minimum button height for maximum traction.

**Durability** — The C300 pattern was developed specifically for the most challenging flooring applications. ASTM wear resistance testing has confirmed unmatched durability relative to other tread sheet products tested.

**Skid Resistance** — The unmatched button height exhibited by the C300 pattern was developed specifically to optimize footing.

**Corrosion Resistance** — 6061 alloy provides traditionally excellent corrosion resistance in typical applications.

**Weldability** — 6061 offers unique compatibility in applications where ease of welding and weld strength are important.

### 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	0.04-0.35	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		Min. Button Pattern Height, Inches (Minimum)
	Plus	Minus	
.100	.008	.012	.065
.125	.010	.015	.065
.156	.011	.019	.065
.188	.013	.023	.065

**Surface Finish:** Heat-Treated Mill Finish

**Formability:** Fair

**Weldability:** Good

**Width Tolerance:** Plus  $\frac{3}{8}$  inch

**Widths Available:** .100 - .125 62 inches  
.126 - .188 82 inches

**Length Tolerance:** Up to 144 inches — plus  $\frac{3}{8}$  inch  
Over 144 inches thru 240 inches — plus  $\frac{7}{16}$  inch  
Over 240 inches — plus  $\frac{1}{2}$  inch

**Lateral Bow Tolerance:**  $\frac{1}{8}$  inch in any 10 feet

Squareness Tolerance: Length	Max. Difference in Diagonal
Up to 144 inches	$\frac{3}{8}$ inch
Over 144 thru 240 inches	$\frac{7}{16}$ inch
Over 240 inches	$\frac{1}{2}$ inch

Camber of Pattern Line Tolerance:	Length	Width	
		To 48 inches	Over 48 inches
	Up thru 24 inches	$\frac{1}{8}$ inch	$\frac{1}{8}$ inch
	Over 24 inches thru 72 inches	$\frac{1}{2}$ inch	$\frac{1}{2}$ inch
	Over 72 inches thru 144 inches	$\frac{3}{4}$ inch	1 inch
	Over 144 inches	1 inch	$1\frac{1}{2}$ inch

PRODUCT SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

### ALCOA MILL PRODUCTS

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