



5086-H32 AND -H34 TREAD SHEET

TECHNICAL DATA

C102 (Diamond) Pattern

Appearance, strength, durability, and skid resistance have been the major selling points of 5086 tread sheet. Combined with excellent welding characteristics and corrosion resistance, 5086 offers economical high strength flooring for a wide variety of commercial transportation and industrial applications.

Appearance — 5086 tread sheet has a clean mill finish appearance without the dark heat-treated surface associated with high strength tread sheet.

Durability — Extensive use as flooring in the most demanding of applications has proven this product suitable for the toughest kind of use.

Skid Resistance — The diamond tread design improves footing in many applications.

Corrosion Resistance — 5086 alloy provides traditionally excellent corrosion resistance in typical applications.

Weldability — 5086 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	
0.40	0.50	0.10	0.2-0.7	3.5-4.5	0.05-0.25	0.25	0.15	0.05	0.15	Remainder

MECHANICAL PROPERTIES

	Ultimate Strength KSI	Yield Strength KSI	Elongation % in 2 inches
Minimum 5086-H32	40	28	8
Minimum 5086-H34	44	34	6

PHYSICAL CHARACTERISTICS

Thickness	Thickness Tolerance	Button Pattern
	Plus/Minus, Inches	Height, Inches (Minimum)
.100	.010	.040
.125	.0125	.040
.156	.015	.040
.188	.018	.040

Surface Finish:	Non Heat-Treated Mill Finish		
Formability:	5086-H32 Good / 5086-H34 Fair		
Weldability:	Excellent		
Width Tolerance:	Plus $\frac{3}{8}$ inch		
Widths Available:	Up to 72 inches (Flat and Coil)		
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:			Width
	Length	To 48 inches	Over 48 inches
	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

SUPPLYING THE WORLD'S BEST



PRODUCT SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

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