

# Products

## Aluminium Bright Tread Plates

ELVAL offers Aluminium Bright Finish Tread Plates in coils or sheets in 3003-H22/24 and 5052-H32 alloys, with Diamond or Quintet (5-Bar) pattern.

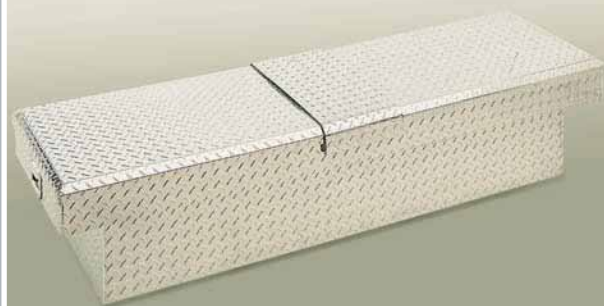
ELVAL Bright Tread Plates have obtained quality and service recognition over a long period of time. ELVAL provides mirror-bright material with superior finish and outstanding mechanical and bending properties. Bright Tread Plates are produced in a wide range of plate dimensions and tolerances that can be used in a great spectrum of applications including:

**Tool boxes for pick up trucks**

**Fire Engines**

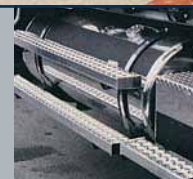
**Special floors for buildings**

**Decorative applications**



## Quality Certification

According to AA, ASTM and EN standards.



## Production Range

### Dimension Range

	inches	mm
Gauge	0.056 - 0.250	1.42 - 6.35
Width	60 max.	1,524 max.

### Height of pattern

	inches	mm
Max.	0.472	1.20
Min.	0.030 <sup>①</sup>	0.76

### Coil Geometry

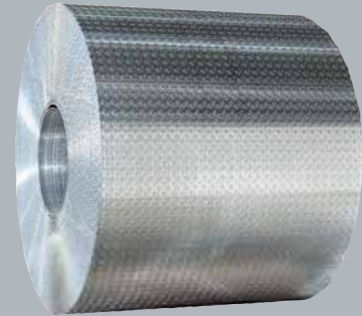
Inside Diameter 500 mm

Outside Diameter 1,800 mm max.<sup>②</sup>

### Packing

Coils: On wooden skids, well secured against transit damage.

Sheets: In wooden pallets, well secured against transit damage.

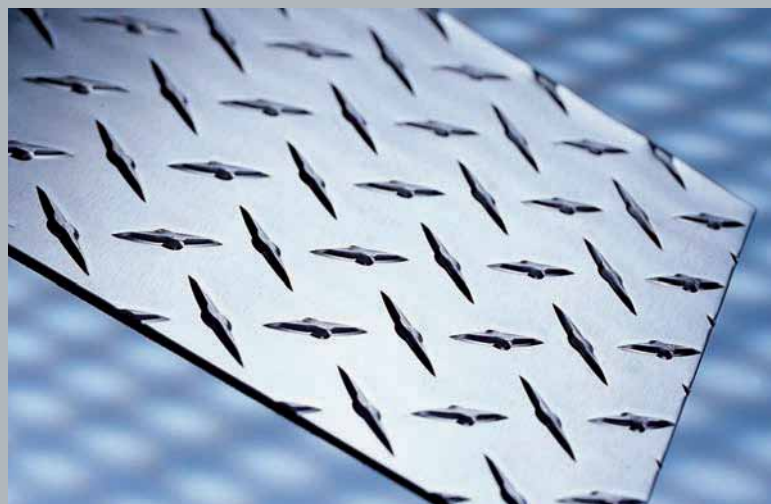


## Chemical Composition (wt%)

Alloy		Si	Fe	Mn	Mg	Cu	Cr	Ti	Zn	Others	Al
3003	min.	-	-	1.00	-	0.05	-	-	-	-	Remainder
	max.	0.60	0.70	1.50	-	0.20	-	-	0.10	0.05	
5052	min.	-	-	-	2.20	-	0.15	-	-	-	Remainder
	max.	0.25	0.40	0.10	2.80	0.10	0.35	-	0.10	0.05	

## Mechanical Properties

	3003 H22/24		5052 H32	
	Ksi	N/mm <sup>2</sup>	Ksi	N/mm <sup>2</sup>
Tensile Strength (min.)	19.0	131.0	31.9	220.0
Yield Strength (min.)	13.0	89.6	23.2	160.0
Elongation (min. %)	7.0		5.5	
Cold Bending 90° inside min. radius	1.0 x thickness <sup>③</sup>		2.5 x thickness	



① For 3003 Tread Plates with gauge over 0.070", minimum height of pattern is 0.040" (1.016 mm)

② Typically 1,500 - 1,600 mm

③ For gauges within the range of 0,081" - 0,125" and 0,126" - 0,250", the cold bending 90° inside min. radius is 1,25 at 2 times the thickness respectively.



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