

## Precision5<sup>®</sup> Aluminum Tooling Plate

ELLWOOD has created a better way to source aluminum tooling plate with our aluminum casthouse in Hubbard, Ohio and our fully automated Aluminum Tooling Plate processing facility in New Castle, Pennsylvania. Delivering unrivaled capacity, our facilities will always get you the Aluminum Tooling Plate you need, when you need it, at a competitive price.

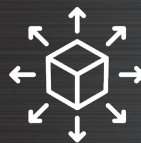
## Why Precision5<sup>®</sup>

At ELLWOOD, we noticed our customers faced a relative scarcity of Aluminum Tooling Plate, forcing them to assume high material costs and hold inventory. We decided to do something about this by building a facility for the large-scale processing of our own brand of Aluminum Tooling Plate, Precision5<sup>®</sup>. ELLWOOD's Aluminum Tooling Plate grants our distribution and manufacturing customers the following advantages:



### Always Available

Reduce your holding inventory by letting us stock the plate sizes you need. Access anytime.



### Ideal Dimensions

Starting at ¼" thick, Precision5<sup>™</sup> comes in ⅛" increments up to 1", then ¼" increments up to 6".



### Unbeatable Price

Our production efficiency and scale support competitive per-pound prices that let you save on material costs.



## Applications

- Aircraft Components
- Automotive Tooling
- CNC Routing Tables
- Drill Jigs
- Food Machinery Components
- Foundry Patterns
- Index Tables
- Mounting Plates
- Packing Machinery
- Templates & Gages
- Vacuum Chucks
- Welding Fixtures

## Characteristics

Precision5® meets or exceeds all industry requirements and can be substituted for other Aluminum Tooling Plate brands specified in RFPs. The plates are produced from a fine-grain custom chemistry 5083 aluminum alloy that is free from internal stresses, making them highly resistant to corrosion and distortion.



Lightweight material that reduces the load on ways and screws



Holds strength after welding



Superior anodizing capabilities



Excellent corrosion resistance



Smooth surface ready for use



Consistent mechanical properties



Designed for high-speed cutting



Internally stable; doesn't move during machining



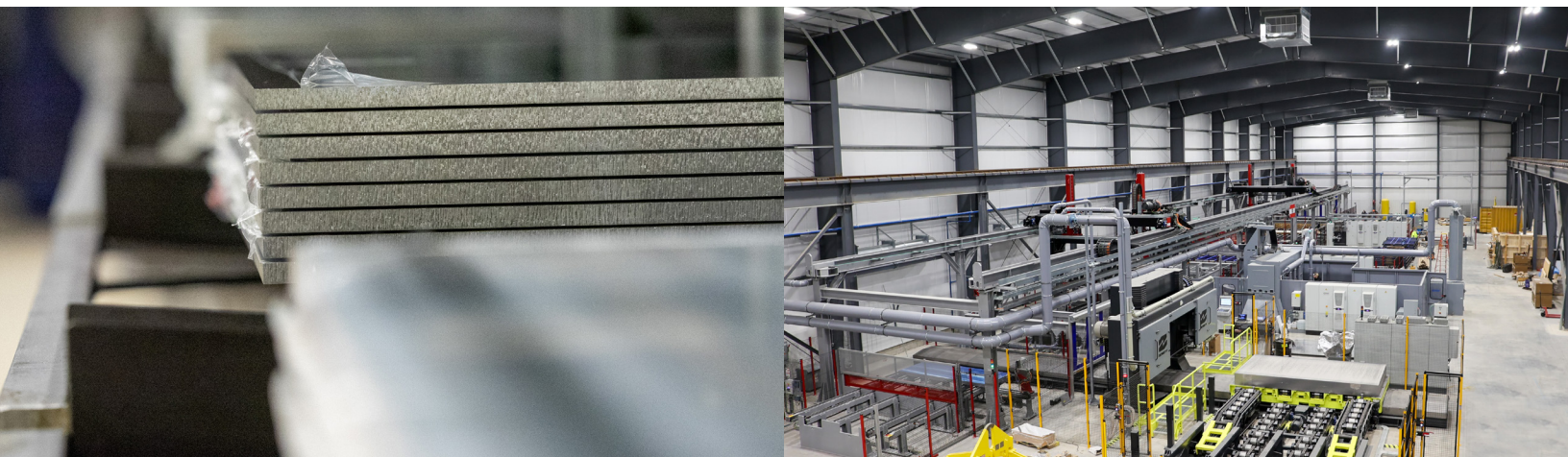
Good polishing capabilities



Exceptional performance in extreme environments



Food grade



## Properties

Tensile Strength	42 ksi
Yield	18 ksi
Elongation	10–20%
Brinell Hardness	72 HB
Density	0.096 lb./in.3
Coefficient of Expansion	13.2 x 10 <sup>-6</sup> (68° - 212 ° F)
Electrical Conductivity	29% (I.A.C.S.)
Microstructure	Vacuum Tight
Thermal Conductivity	69 Btu/ft. x h x ° F
Modulus of Elasticity	10.3 KSI x 10 <sup>3</sup>

*Information provided does not imply guarantee of properties or capability of manufacturing or use.*

## Standard Sizes

Thickness	0.25–6.00"
Width	Standard widths: <ul style="list-style-type: none"> <li>• 48.50"</li> <li>• 60.50"</li> <li>• 72.50"</li> </ul> Custom widths up to 85"
Length	144.50" and 168.50"
Tolerances	<ul style="list-style-type: none"> <li>• Thickness +/-0.005"</li> <li>• Width/Length +0.500/0.000"</li> <li>• Flatness .015" on .25" to .50"</li> <li>• .005" on .625" to 6"</li> </ul>
Surface Finish	18 RMS or better



## Why ELLWOOD

ELLWOOD Specialty Metals is much more than its Aluminum Tooling Plate product offering. Our historical strengths make us a partner that can help you consolidate orders, meet requirements, and overcome technical challenges.



### One Source

ELLWOOD supplies many other aluminum and steel products, so you can place orders on one PO.



### Made in USA

Our facilities are in the U.S. Shipping costs are low and products qualify for the Buy American Act.



### Technical Experts

We lead the industry in metallurgy and engineering and share this knowledge with our customers.

## The ELLWOOD Group

ELLWOOD is a family-owned company with over 2,000 team members and a footprint that includes more than 25 facilities across North America. Since our founding in 1910, we've consistently invested in companies and capabilities that give us full control over our products, processes, and supply chain.