

# Industry Standard 6005 Alloy



## Difference in Strength?

There is NO significant difference in strength between 6061 and 6005 Aluminum Alloys.

The Aluminum Association, Inc., based in Arlington, Virginia states in their Aluminum Manual that 6061 and 6005 have the exact same mechanical properties. (See Spec Chart Below)

In addition, Town & Country Industries conducted it's own testing at an independent test lab, testing both the 6005 Aluminum Alloy and the 6061 Aluminum Alloy and the test results were nearly identical.

Minimum Mechanical Properties for Aluminum Alloys Extrusions:

METAL:	6005 T5	6061 T6
TENSILE:	38,000	38,000
YEILD:	35,000	35,000
ELONGATION:	8%	8%
COMPRESSION:	10,100	10,100



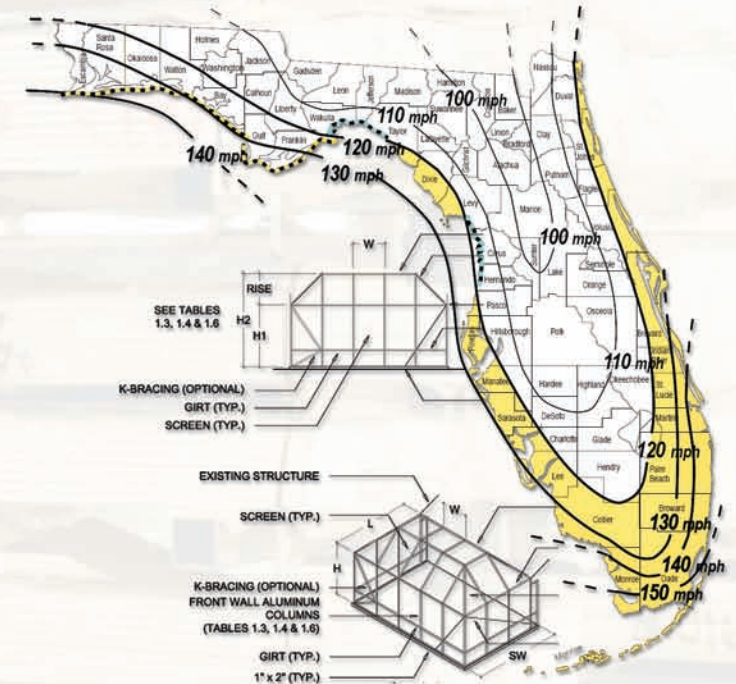
At Town & Country Industries, our mission is to manufacture and distribute the highest quality Exterior Building Products, Hurricane Protection and Industrial Metals. We are dedicated to the growth and success of our Associates and Customers while providing World Class Service with emphasis on Safety and Ethical business practices.

Protect your investments and your loved ones. Contact us today and enjoy the peace of mind that comes from the best in storm protection.

Town and Country Industries...  
Your partner in Hurricane Protection.

Available through...

# T&C Alloy Aluminum Engineering



### Wind-borne Debris Region

- 120 mph & above (ASCE 7-98)
- 110 mph 1 mile of coast (ASCE 7-98)
- 1 mile of Coast (Exception)

### Basic Wind Speed

- 1) Values are nominal design, 3-second gust, wind speeds in miles per hour (mph) at 33 feet (10 m) above ground for Exposure C Category.
- 2) This map is accurate to the county. Local governments establish specific wind speed/wind-borne debris lines using physical landmarks such as major roads, canals, rivers, and shorelines.
- 3) Islands and coastal areas outside the last contour shall use the last wind-speed contour of the coastal area.
- 4) Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.
- 5) Wind speeds are American Society of Civil Engineers Standard (ASCE 7-98) 50 - 100 - year peak gusts.



**The Aluminum Patio Construction Industry** has gone through a revolutionary transition over the past several years. As a result of hurricane damage, stricter building codes, and the demand for more sophisticated and durable aluminum structures, a transformation has taken place in the types of products that are being manufactured for aluminum construction.

The most significant change in this transition has been the shift from manufacturing aluminum-building components with 6063 alloys to a stronger 6005 alloy.



## 6005 Alloy, The Better Choice!

### Availability

A Majority of Suppliers Have Converted Beams and Uprights to 6005: The Aluminum Contractor has always relied on a network of suppliers with standard shapes and alloys. There is a very limited distribution network for 6061 Aluminum Patio shapes. Don't get trapped into "Single Sourcing" your company's Patio product needs.

Produced Domestically as well as Imported: Patio extrusions in the 6005 alloy are produced domestically, as well as imported. This results in faster replenishment when inventories run low. Domestic mills in the Southeastern United States will not run 6061 in the necessary wall thickness for patio shapes.



### Superior Quality

Prime Aluminum/"Virgin" Aluminum:  
At Town & Country, we buy our 6005 alloy from our overseas and domestic mills and their material is 100% Prime Aluminum Alloy Metal, which means there is no "recycled" aluminum in it.

Better Corrosion Resistance:  
6005 alloy has a superior corrosion protection/resistance over 6061 and 6003 alloys.

Better Finish:  
Typically, 6061 alloy is not recommended for a paint application because of its rough finish, and that is one key factor for domestic mills refusal to run it in such light gauge patio shapes.



### Authentic Mill "Certification"

Our extrusion is run by lot. Each lot is tested for consistency, temper, alloy and other properties. The testing is then numbered and identified with the mill's name, and test results. Some companies offer external die lines and state it's "Patent Pending". Die lines have been around for decades, and are simply used to identify which distributor you bought it from, or which mill ran the product.

### Better Value

With NO Up-charge:  
Some importers of 6061 have an up-charge. Are you paying a premium up-charge for 6061? We here at Town & Country have been providing our 6005 Aluminum on all of our self-mating beams and uprights for well over a year with "NO up-charge" to you!

