

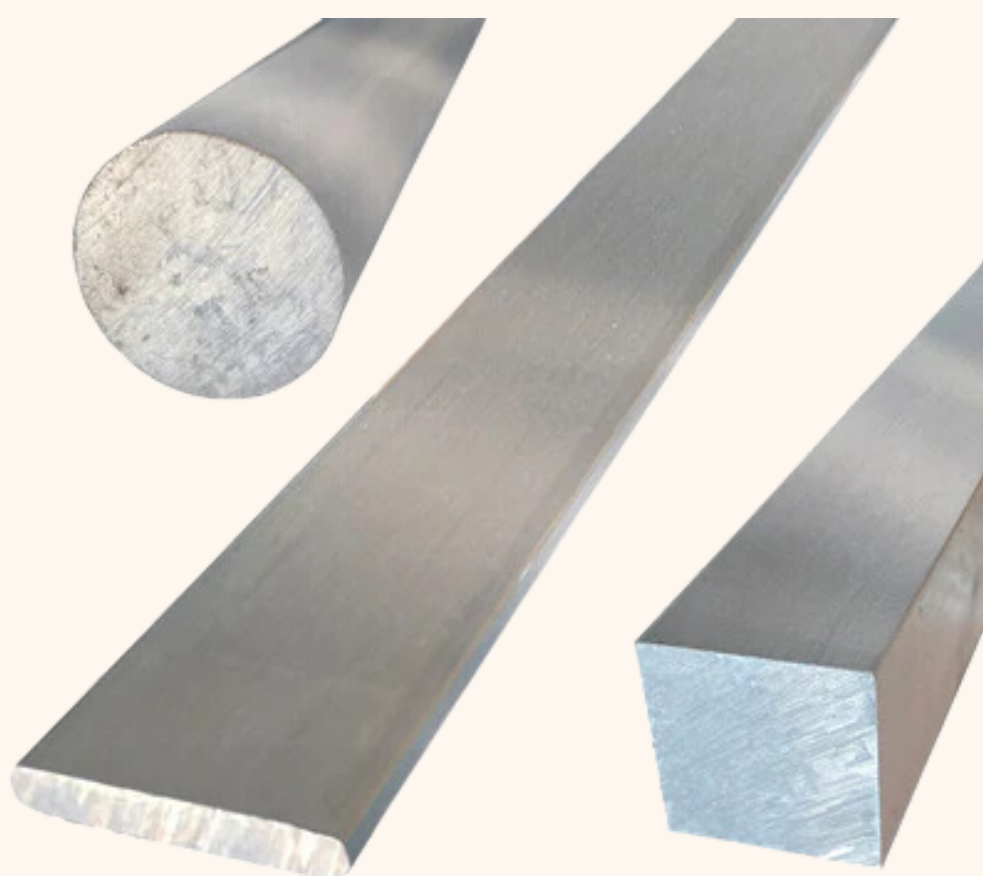


## Industrials

Product specifications  
Installation Manual



The UBI industrial line is for the pro and the hobbyist alike. We have many hard-to-find aluminum extrusions. Enjoy this section as you see many different shapes and profiles of aluminum.



### ★ INTRODUCTION:

Industrial extrusion is a manufacturing process used to create objects of a fixed cross-sectional profile. It involves forcing a material, often in the form of a heated and softened billet or stock, through a die to produce a continuous, shaped profile. This process is commonly used in various industries for producing products with consistent cross-sectional shapes, such as tubing, pipes, rods, wires, and various profiles like those found in the construction, automotive, aerospace, and food processing industries.



## What is Industrials ?

Industrial aluminum extrusions refer to the process of shaping aluminum into various profiles or shapes by forcing the aluminum alloy material through a die, which is a specialized tool designed to create the desired shape. This process is known as extrusion and is commonly used in various industries for producing a wide range of aluminum components, profiles, and products.

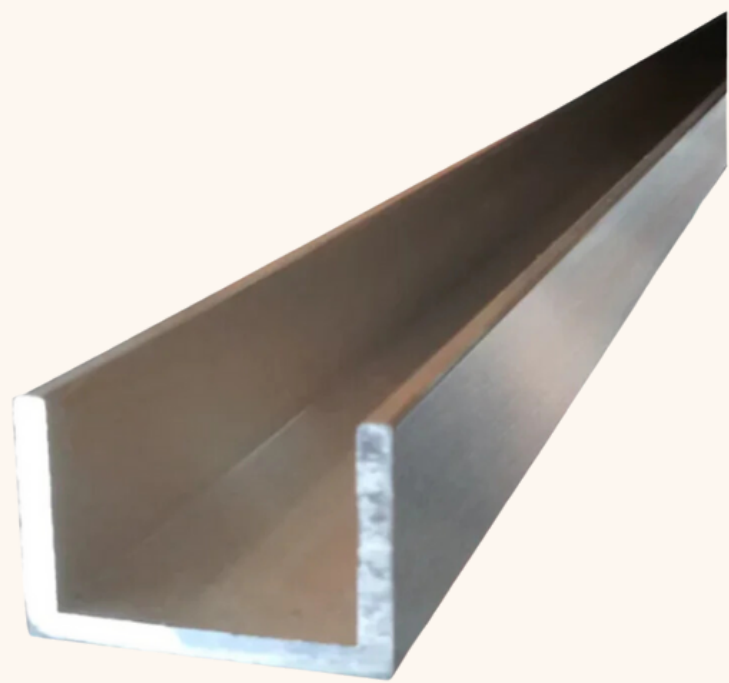


## OUR OFFERINGS

### Industrial Channel

#### SIZE:

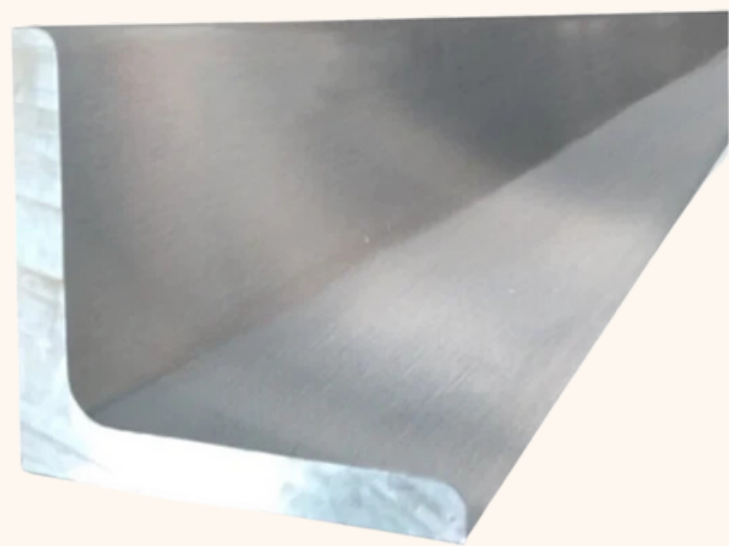
- $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{16}$
- $\frac{1}{2} \times \frac{1}{2} \times .093$
- $\frac{3}{4} \times \frac{3}{4} \times \frac{1}{8}$
- $1 \times 1 \times \frac{1}{8}$
- $1\frac{1}{4} \times 1\frac{1}{2} \times \frac{1}{8}$
- $1\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{8}$
- $1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{8}$
- $1\frac{3}{4} \times \frac{3}{4} \times \frac{1}{8}$
- $2 \times \frac{1}{2} \times \frac{1}{8}$
- $2 \times 2 \times \frac{1}{8}$
- $2\frac{1}{4} \times \frac{7}{8} \times \frac{1}{8}$
- $5 \times 2\frac{1}{4} \times \frac{1}{4} \text{ ST}$
- $6 \times 2\frac{1}{2} \times \frac{1}{4} \text{ ST}$



### Structural Angle

#### SIZE:

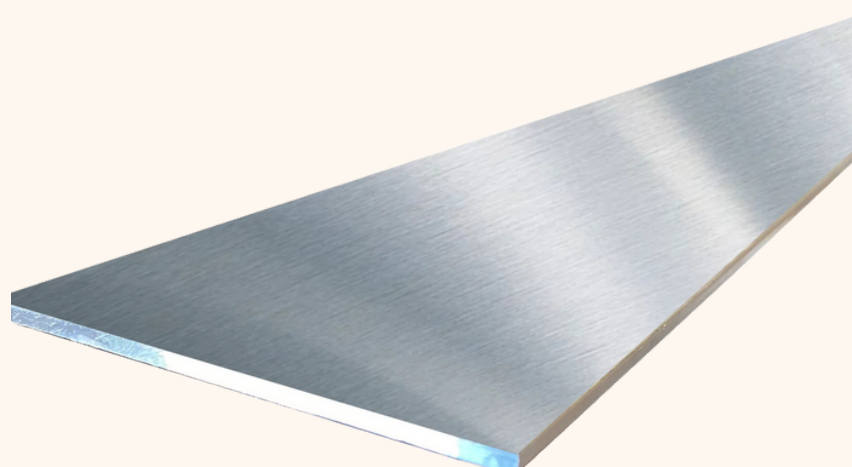
- $1 \times 1 \times \frac{1}{4} \text{ ST}$
- $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{4} \text{ ST}$
- $2 \times 2 \times \frac{1}{4} \text{ ST}$
- $3 \times 3 \times \frac{3}{8} \text{ ST}$
- $2 \times 4 \times \frac{1}{4} \text{ ST}$
- $3 \times 5 \times \frac{3}{8} \text{ ST}$



### INDUSTRIAL FLATS

#### Flat Stock

**SIZE:** 4" X  $\frac{1}{8}$ , 4" X  $\frac{1}{4}$ , 1 1/2" X  $\frac{1}{8}$ ,



## Flats 3 X 1/8

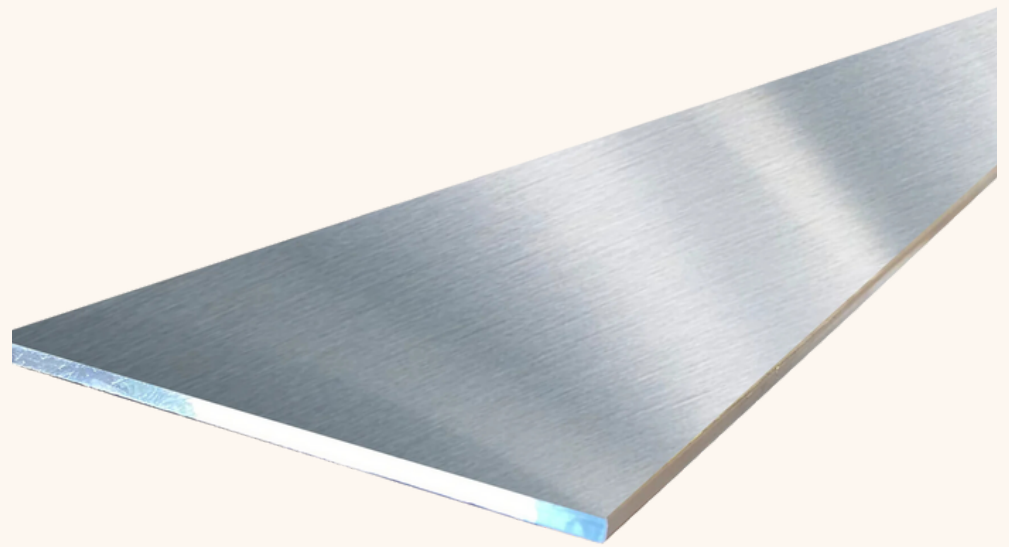
### SIZE:

- 1 x 1/16
- 1 1/2 x 1/16
- 2" x 1/16
- 2 1/2 x 1/16
- 3" x 1/16
- 4" x 1/16
- 6" x 1/16
- 8" x 1/16
- 10" x 1/16
- 12" x 1/16

- 1 x 1/8
- 1 1/2 x 1/8
- 2" x 1/8
- 3" x 1/8
- 4" x 1/8
- 6" x 1/8
- 8" x 1/8
- 10" x 1/8
- 12" x 1/8

- 1 x 1/4
- 1 1/2 x 1/4
- 2" x 1/4
- 2 1/2 x 1/4
- 3" x 1/4
- 4" x 1/4
- 6" x 1/4
- 8" x 1/4
- 10" x 1/4
- 12" x 1/4

Sold by foot (all max length is 12') online max 8'



## SOLIDS

### SIZE:

- 3/8
- 1/2
- 3/4
- 1"
- 1" 1/4
- 1" 1/2
- 1" 3/4
- 2"
- 2" 1/2



# ROUND SOLIDS

SIZE:

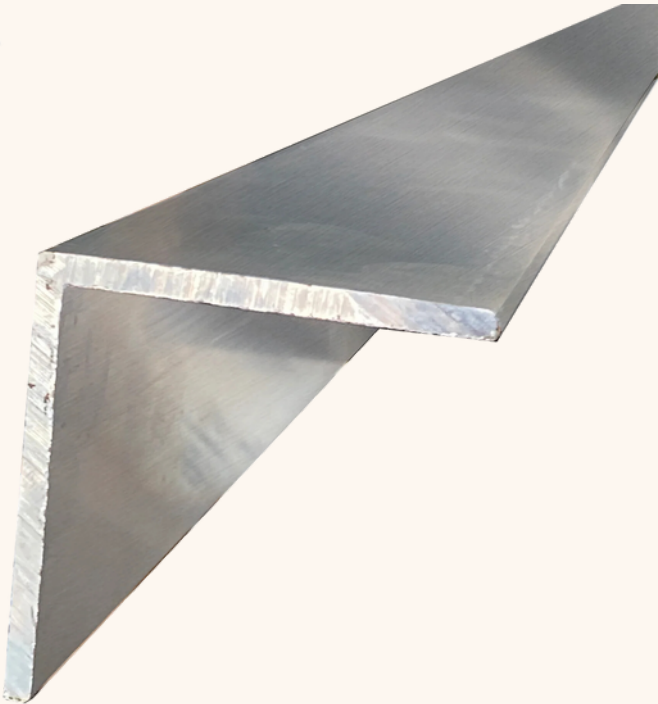
- 1/4
- 1/2
- 3/4
- 1"
- 1 1/4
- 1 1/2
- 1 3/4
- 2
- 2 1/2



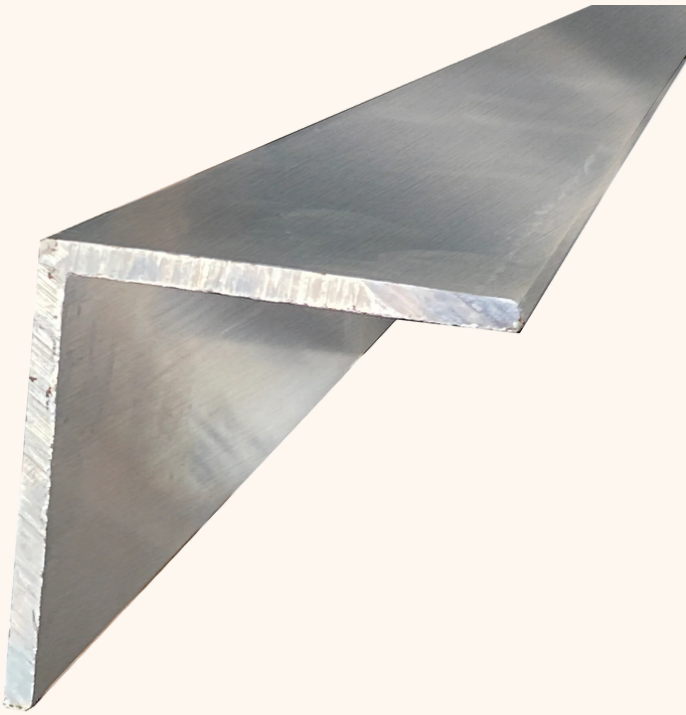
# ANGLE

Angle 2 X 2 X 1/8

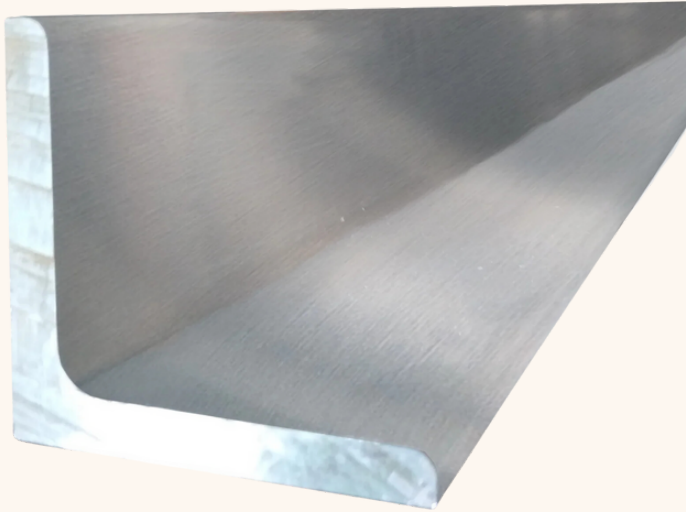
COLOR OPTIONS:



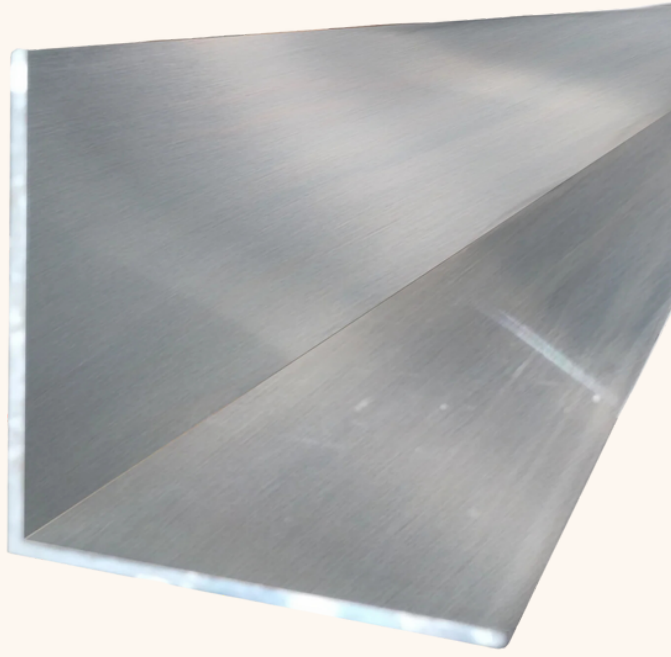
Angle 2 X 2 X 1/8 MILL



Angle 2 X 2 X 1/4 Structural



## Angle 2 X 2 X 1/16



## Industrial Angle

**SIZE:**  $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{6}$   
 $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{8}$



## Industrial Angle

**COLOR OPTIONS:**



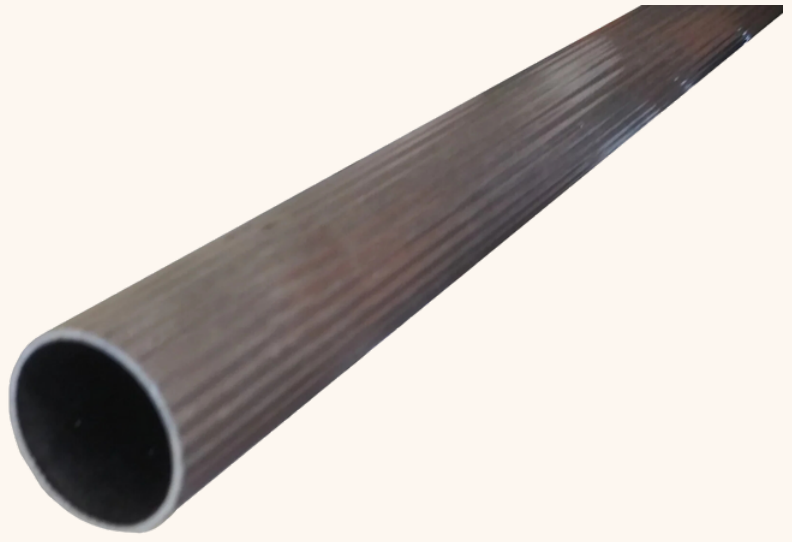
**SIZE:**

$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{16}$   
 $\frac{3}{4} \times \frac{3}{4} \times \frac{1}{8}$   
 $\frac{1}{2} \times 1 \times \frac{1}{8}$   
 $\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8}$   
 $1 \times 1 \times \frac{1}{6}$   
 $1 \times 1 \times \frac{1}{8}$   
 $1\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{8}$   
 $2 \times 1\frac{1}{2} \times \frac{1}{8}$   
 $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{16}$   
 $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8}$   
 $1 \times 2 \times \frac{1}{16}$   
 $1 \times 2 \times \frac{1}{8}$   
 $2 \times 2 \times \frac{1}{16}$   
 $2 \times 2 \times \frac{1}{8}$   
 $2 \times 2 \times \frac{1}{4}$   
 $1 \times 3 \times \frac{1}{16}$   
 $1 \times 4 \times \frac{1}{16}$   
 $3 \times 3 \times \frac{1}{8}$   
 $3 \times 3 \times \frac{1}{4}$   
 $2 \times 4 \times \frac{1}{8}$   
 $2 \times 4 \times \frac{1}{4}$   
 $2 \times 7 \times \frac{1}{4}$



## Round Tube

Rounds 1 X .050 Fluted



## Round Tube

SIZE: .25 SCH 40

$\frac{3}{4}$  x  $\frac{1}{6}$

1" x  $\frac{1}{8}$

1"  $\frac{1}{4}$  x  $\frac{1}{8}$

1"  $\frac{1}{2}$  x  $\frac{1}{6}$

1"  $\frac{1}{2}$  x  $\frac{1}{8}$

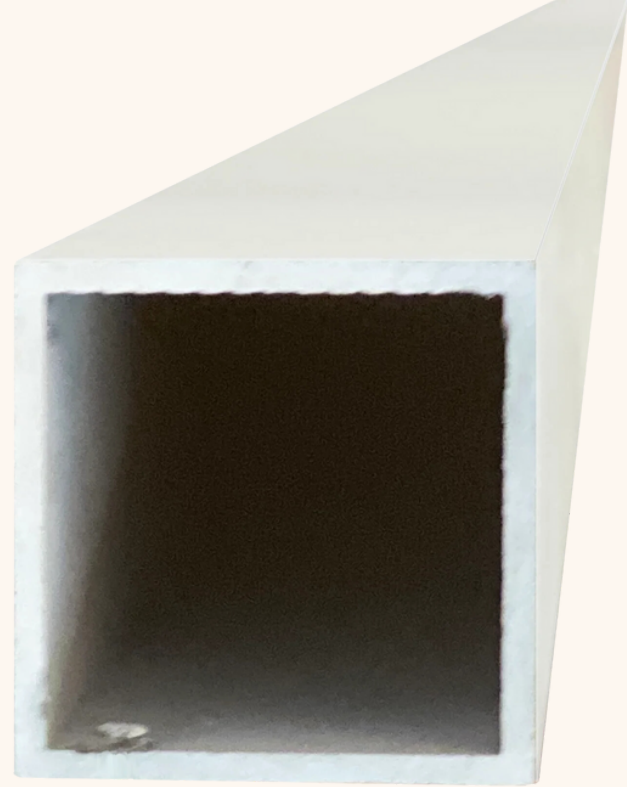
2" x  $\frac{1}{8}$

1"  $\frac{3}{4}$  x  $\frac{1}{8}$



## SQUARE TUBE

Square Tube 2 X 2 X  $\frac{1}{8}$  White



## SQUARE TUBE

SIZE:  $\frac{3}{4}$  X  $\frac{3}{4}$  X  $\frac{1}{6}$

$\frac{3}{4}$  X  $\frac{3}{4}$  X  $\frac{1}{8}$

1 x 1 x  $\frac{1}{6}$

1 x 1 x  $\frac{1}{8}$

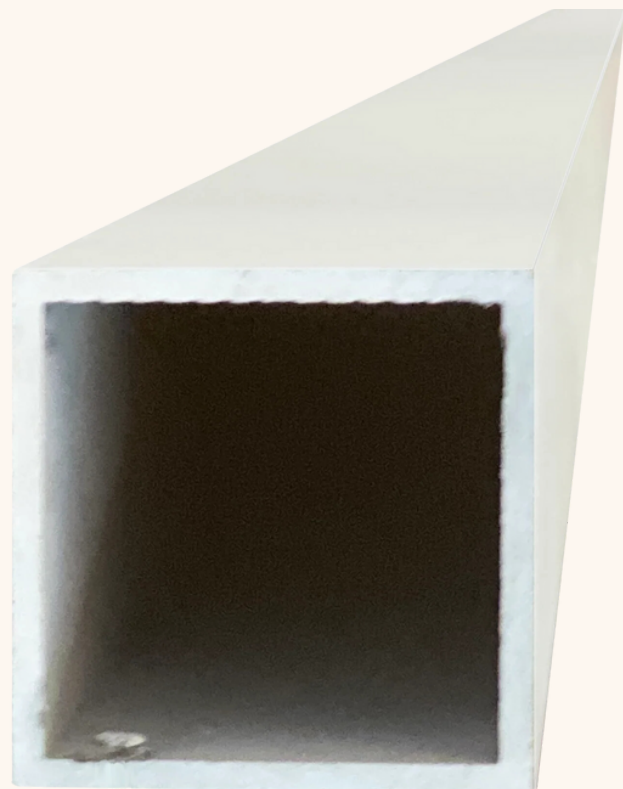
1  $\frac{1}{4}$  x 1  $\frac{1}{4}$  x  $\frac{1}{6}$

1  $\frac{1}{4}$  x 1  $\frac{1}{4}$  x  $\frac{1}{8}$

1  $\frac{1}{2}$  x 1  $\frac{1}{2}$  x  $\frac{1}{6}$

1  $\frac{1}{2}$  x 1  $\frac{1}{2}$  x  $\frac{1}{8}$

2 X 2 X  $\frac{1}{6}$

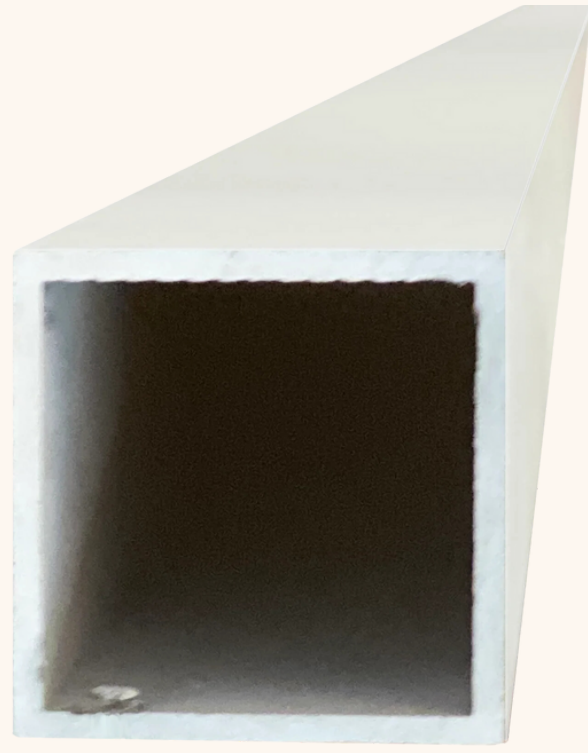


## SQUARE TUBE

COLOR OPTIONS:



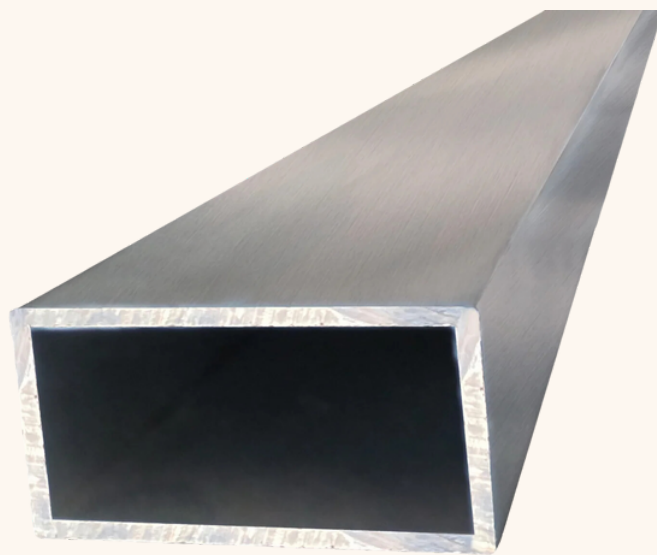
SIZE: 2 X 2 X 1/8



## INDUSTRIALS RECTANGLE TUBE

SIZE:

1 X 1/2 x 0.93  
1 1/2 X 3/4 x 1/8  
1 3/4 X 3/4 x 1/8  
1 X 2 x 1/6

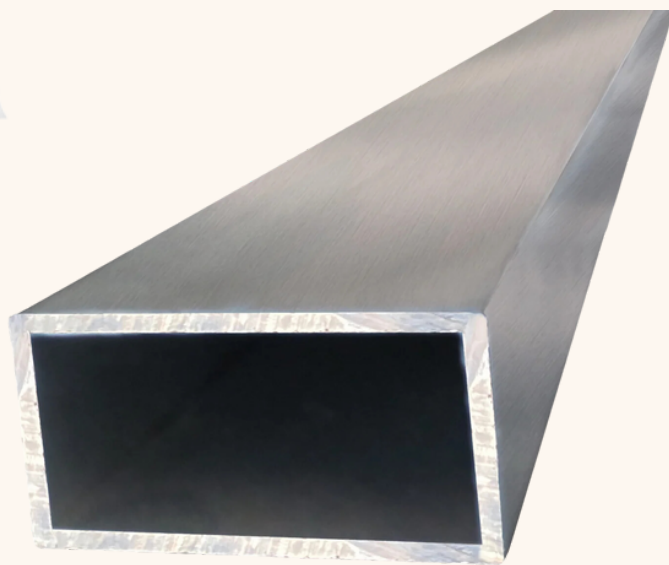


## INDUSTRIALS RECTANGLE TUBE

COLOR OPTIONS:



SIZE:  
1 X 2 x 1/8  
2 X 3 x 1/8  
1 X 3 x 1/8  
1 X 4 x 1/8



## Why is Industrials Important?



Aluminum is considered to be the top metal of choice for manufacturing industry professionals. This is due in part to its corrosion resistance, high strength, and low-density properties. Aluminum is also non-toxic which makes it ideal for any application which involves the packaging of food items.

# Do-It-Yourself

## How to Install Industrials Safely

To install industrial aluminum safely, follow these comprehensive steps:

### Planning and Preparation:

- Understand the project thoroughly, including design and materials.
- Identify and assess potential safety hazards.
- Gather the necessary tools, equipment, and personal protective gear (PPE).

### Personal Protective Equipment (PPE):

- Wear safety glasses, hearing protection, gloves, and steel-toed boots.
- Consider additional PPE such as hard hats or respiratory protection as needed.

### Safety Training:

- Ensure all involved individuals are properly trained in working with aluminum and installation methods.
- For machinery operation, ensure operators are certified.

### Secure the Work Area:

- Establish a controlled work area with clear boundaries.
- Implement fall protection measures if working at heights.
- Erect warning signs and barriers if required.

### Handling Aluminum Materials:

- Use appropriate lifting equipment or techniques.
- Exercise caution when handling sharp or rough-edged aluminum.
- Store materials securely and organized to prevent tripping hazards.

### Installation Procedures:

- Follow manufacturer's or engineering specifications.
- Ensure all connections, fasteners, and supports are secure.
- Adhere to welding and cutting safety procedures when necessary.

### Communication:

- Maintain effective communication within the team to coordinate tasks and ensure safety.
- Establish an emergency communication system.

### Regular Inspections:

- Conduct periodic inspections to identify and address safety issues.
- Verify the installation's structural soundness and compliance with safety standards.

### Emergency Preparedness:

- Keep first aid supplies and fire extinguishers accessible.
- Establish and practice emergency evacuation plans.

### Documentation:

- Keep records of the installation process.
- Document any deviations from the original plan and safety measures taken.

By following these steps, you can safely install industrial aluminum for your project, whether it's for construction, manufacturing, or other applications. Prioritizing safety is crucial in any DIY installation. If you're uncertain about any aspect, seek guidance from experts or professionals with experience in working with industrial aluminum.

## FAQs

### About Industrials Installation

#### 1. What are the advantages of using aluminum extrusions in industry?

Advantages include lightweight and durable structures, corrosion resistance, excellent thermal conductivity, electrical conductivity, and the ability to create complex shapes and designs.

#### 2. What types of industries use aluminum extrusions?

Industries such as construction, automotive, aerospace, electronics, transportation, renewable energy, and manufacturing often utilize aluminum extrusions for various applications.

#### 3. Can I install Industrial on my own?

Yes, it is possible to install industrial aluminum extrusions yourself, depending on the complexity of the project, your familiarity with the process, and your access to the necessary tools and equipment. While some DIY enthusiasts can successfully install industrial aluminum extrusions for various projects, it's essential to assess your skills and the project's complexity before proceeding. For more intricate or high-stakes applications, involving professionals with expertise in aluminum extrusion may be the safest and most effective approach.