A M A S P R O

AMERICA & ASIA PRODUCTS INC.

ALUMINUM
EXTRUDED PROFILE
Product







Tube & Pipe | Round Bar & Billet | Flat, Square & Angle Bar
Channel | Architectural & Industrial Profile

VISION

To be a leading international metal enterprise by creating diversified products, attracting elite people, and maximizing our strength.

We will continue to create the best values for the clients with the specialized team, the most professional channel, information technology, management, and exceptional customer service.

3 CORE VALUES

AMASPRO. strives to deliver unparalleled value and cutting-edge solutions to our clients. We are guided and motivated by the following 3 core values.

Professional

Our specialized team is dedicated to high quality of our services and excellence in our work. AMASPRO. prides itself on the professional relationship we develop with all clients.

Reliable

We are reliable because we know the market, we are honest, truthful and we will meet our promise to our clients. Our clients' success becomes our success. We provide our clients with the best value products in an effort to grow their reputation within their industry.

Efficient

We are committed to delivering a total solution of metal products, metal processing, logistics and technical services to fulfill our client's requirements in the most efficient and cost effective manner.

This valuable metal possesses the whiteness of silver, the indestructibility of gold, the tenacity of iron, the fusibility of copper, the lightness of glass.
It is easily wrought, is very widely distributed, forming the base of most rocks, is three times lighter than iron, and seems to have been created for express purpose of furnishing us with the material for our projectile.

- Jules Vernes, "From the Earth to the Moon", 1865





ADVANTAGES



- LONG-LASTING
- STRONG
- BEAUTIFUL
- LIGHT
- ABUNDANT

- EASY FORMING
- VERY DUCTILE
- COST SAVING
- ODORLESS & HARMLESS
- EXCELLENT HEAT CONDUCTOR
- HIGHLY CORROSION RESISTANT
- EXCELLENT ELECTRICAL CONDUCTOR
- GOOD REFLECTIVE PROPERTIES
- INFINITELY RECYCLABLE
- ENERGY CONSERVATION

➢STANDARD SPECIFICATION

The products will be strictly produced according to national or international standard, or sometimes to mutually agreed standard.

CHINESE STANDARD

GB/T 5237	Aluminum Alloy Extruded Profiles for Architecture
GB/T 6892	Wrought Aluminum and Aluminum Alloys Extruded Profiles for General Engineering
GB/T 6893	Aluminum and Aluminum Alloys Cold Drawn (Rolled) Seamless Tubes

EUROPEAN STANDARD

EN 754	Aluminum and Aluminum Alloys Cold Drawn Rod, Bar and Tube
EN 755	Aluminum and Aluminum Alloys Extruded Rod, Bar, Tube and Profiles
EN 12020	Aluminum and Aluminum Alloys Extruded Precision Profiles in Alloys EN AW-6060 and EN AW-6063

AMERICAN STANDARD

ASTM B221	Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes
ANSI 35.1	Alloy and Temper Designa﷽on Systems for Aluminum
ANSI 35.2	Dimensional Tolerances for Aluminum Mill Products



➢ALLOY DESIGNATIONS

Comparison of Alloy Designations for Profiles

ALLOY SERIES	CHINESE STANDARD	AMERICAN STANDARD	EUROPEAN STANDARD
2xxx Series	-	-	EN AW-2007
	-	-	EN AW-2011
	2024	2024	EN AW-2024
5xxx Series	5754	-	EN AW-5754
	5083	5083	EN AW-5083
6xxx Series	6005	6005	-
	6060	6060	EN AW-6060
	6061	6061	EN AW-6061
	6063	6063	EN AW-6063
	6082	6082	EN AW-6082
	6463	6463	-

➢CHEMICAL COMPOSITION

Chemical Composition conforms to Chinese, American and European standard specification

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others		Al
									Each	Total	Min.
2007[A]	0.8	0.8	3.3-4.6	0.5-1.0	0.4-1.8	0.10	0.8	0.20	0.10	0.30	remainder
2011[B]	0.40	0.7	5.0-6.0				0.30		0.05	0.15	remainder
2024	0.50	0.50	3.8~4.9	0.3~0.9	1.2~1.8	0.10	0.25	0.15	0.05	0.15	remainder
5754	0.40	0.40	0.10	0.50	2.6~3.6	0.30	0.20	0.15	0.05	0.15	remainder
5083	0.40	0.40	0.10	0.4~1.0	4.0~4.9	0.05~0.25	0.25	0.15	0.05	0.15	remainder
6060	0.30-0.6	0.10-0.3	0.10	0.10	0.35-0.6	0.5	0.15	0.10	0.05	0.15	remainder
6061	0.40~0.8	0.70	0.15~0.4	0.15	0.8~1.2	0.04~0.35	0.25	0.15	0.05	0.15	remainder
6063	0.20-0.6	0.35	0.10	0.10	0.45-0.9	0.10	0.10	0.10	0.05	0.15	remainder
6082	0.70~1.3	0.50	0.10	0.4~1.0	0.6~1.2	0.25	0.20	0.10	0.05	0.15	remainder
6463	0.20-0.6	0.15	0.20	0.05	0.45-0.9		0.05		0.05	0.15	remainder

**Note: Limits are in mass percent maximum unless shown as a range or sated otherwise*

A： 2007 contents 0.20 Ni, 0.20 Bi, 0.8 -1.5 Pb, 0.2 Sn

B： 2011 contents 0.20-0.6 Bi, 0.20-0.6 Pb

➢ ALLOY DESIGNATIONS

TEMPER	DEFINITION
O	Annealed
H112	Slightly strain harden from working at an elevated temperature or from limited amount of cold work
T3	Soluﬁon heat-treated, cold worked and naturally aged
T3511	Soluﬁon heat-treaded, stress-relieved by stretching a controlled amount (permanent set 1% to 3% for extruded rod, bar, shapes and tube, 0.5% to 3% for drawn tube) and naturally aged.
T4	Soluﬁon heat-treated and naturally aged
T5	Cooled from an elevated temperature shaping process and then arﬁcially aged
T6	Soluﬁon heat-treated and then arﬁcially aged
T651	Soluﬁon heat-treated, stress-relieved by stretching a controlled amount (permanent set 1% to 3% for rolled or cold-finished rod and bar) and then arﬁcially aged. The products receive no further straightening aﬁer stretching
T66	Soluﬁon heat-treated and then arﬁcially aged-mechanical property level higher than T6 achieved through special control of the process 6000 series alloys
T6511	Soluﬁon heated-treated, stress-relieved by stretching a controlled amount (permanent set 1% to 3% for extruded rod, bar, shapes and tube, 0.5% to 3% for drawn tube) and then arﬁcially aged. Minor straightening is allowed aﬁer stretching to comply with standard tolerances



ALUMINUM ALLOY STANDARD PROFILE TUBE & PIPE

STANDARD SPECIFICATION:

GB/T 6892, GB/T 6893, ASTM B221, EN 754, EN 755

ALLOY AND TEMPER:

Alloy	Temper
5xxx: 5052, 5083, 5754	O, H14, H112
6xxx: 6005, 6060, 6061, 6063, 6082, 6463	T4, T5, T6, T66, T651, T6511

AVAILABLE SIZE RANGE

Dimension	Range
Outside Diameter:	8.0~350mm for Round 15x15mm~250x250mm for Square 10x20mm~200x250mm for Rectangle
Wall Thickness:	1.0~40mm
Length:	1,000~6,000mm



PRODUCTION PROCESS

Extruded, Cold Drawn



FORM

Round, Square, Rectangle

SURFACE FINISH

Mill Finish, unless otherwise specified



SURFACE PROTECTION

Paper interleaved

ALUMINUM ALLOY STANDARD PROFILE ROUND BAR & BILLET

STANDARD SPECIFICATION:

GB/T 6892, ASTM B221, EN 754, EN 755

ALLOY AND TEMPER:

Alloy	Temper
2xxx: 2007, 2011, 2024	O, T3, T4, T3511
5xxx: 5083	O, H112
6xxx: 6005, 6060, 6061, 6063, 6082, 6463	O, H112, T5, T6, T66, T6511

**Alloy can be customized for billet*

AVAILABLE SIZE RANGE

Dimension	Range
Diameter:	6.0~350mm for Bar
	101.6~406.4mm for Billet
Length:	1,000~6,000mm for Bar
	500~5,800mm for Billet



PRODUCTION PROCESS

Extruded, Cold Drawn



FORM

Round

SURFACE FINISH

Mill Finish, unless otherwise specified



SURFACE PROTECTION

Paper interleaved for bar

Naked for billet

ALUMINUM ALLOY STANDARD PROFILE
FLAT BAR & SQUARE BAR

STANDARD SPECIFICATION:

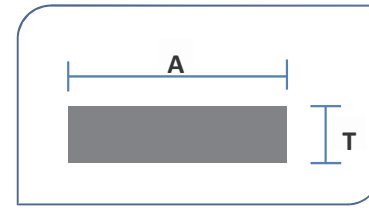
GB/T 6892, ASTM B221, EN 754, EN 755

ALLOY AND TEMPER:

Alloy	Temper
2xxx: 2024	T3511
5xxx: 5083, 5754	O, H112
6xxx: 6005, 6060, 6061, 6063, 6082	T5, T6, T66, T651, T6511

AVAILABLE SIZE RANGE

Dimension	Range
A:	18.0~152.4mm
T:	2.0~152.4mm
Length:	1,000~6,000mm



PRODUCTION PROCESS

Extruded, Cold Drawn

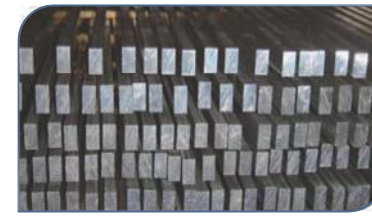


FORM

Flat (rectangle), Square

SURFACE FINISH

Mill Finish, unless otherwise specified



SURFACE PROTECTION

Paper interleaved

ALUMINUM ALLOY STANDARD PROFILE ANGLE BAR

STANDARD SPECIFICATION:

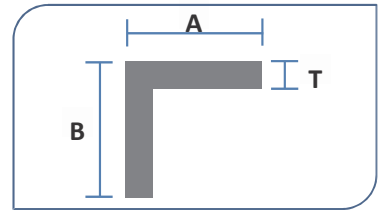
GB/T 6892, ASTM B221, EN 754, EN 755

ALLOY AND TEMPER:

Alloy	Temper
5xxx: 5083	O, H112
6xxx: 6005, 6060, 6061, 6063, 6082, 6463	T5, T6, T66, T6511

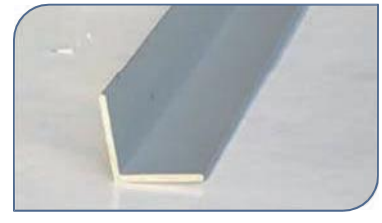
AVAILABLE SIZE RANGE

Dimension	Range
A:	10.0~200mm
B:	10.0~200mm
T:	1.0~15.0mm
Length:	1,000~6,000mm



PRODUCTION PROCESS

Extruded



FORM

Equal Angle, Unequal Angle

SURFACE FINISH

Mill Finish, unless otherwise specified



SURFACE PROTECTION

Paper interleaved

ALUMINUM ALLOY STANDARD PROFILE CHANNEL

STANDARD SPECIFICATION:

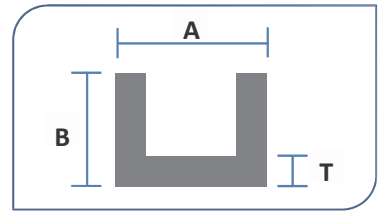
GB/T 6892, ASTM B221, EN 754, EN 755

ALLOY AND TEMPER:

Alloy	Temper
5xxx: 5083	O, H112
6xxx: 6005, 6060, 6061, 6063, 6082, 6463	T5, T6, T66, T6511

AVAILABLE SIZE RANGE

Dimension	Range
A:	10.0~200mm
B:	10.0~300mm
T:	1.0~15.0mm
Length:	1,000~6,000mm



PRODUCTION PROCESS

Extruded

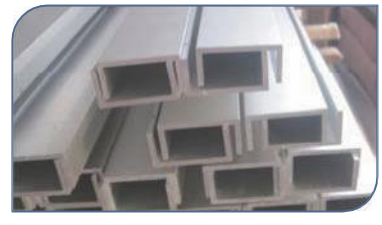


FORM

Equal Angle, Unequal Angle

SURFACE FINISH

Mill Finish, unless otherwise specified



SURFACE PROTECTION

Paper interleaved

ALUMINUM ALLOY ARCHITECTURAL PROFILE

STANDARD SPECIFICATION:

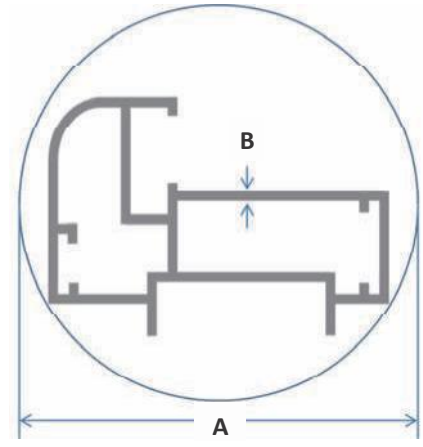
GB/T 5237
ASTM B221 and EN 755 as reference

ALLOY AND TEMPER:

Alloy	Temper
6xxx: 6005, 6060, 6061, 6063, 6463	T4, T5, T6

AVAILABLE SIZE RANGE

Dimension	Range
Circumscribing Circle (A):	20~350mm
Wall Thickness (B):	>1.0 mm
Length:	1,000~6,000mm

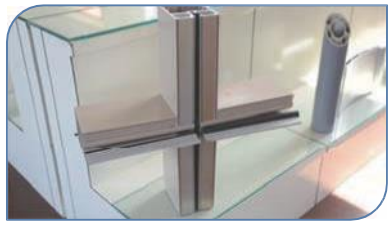


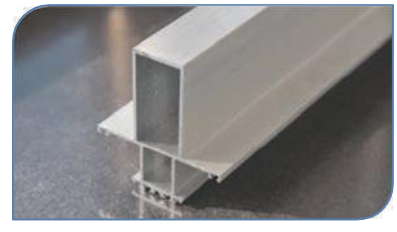
PRODUCTION PROCESS

Extruded

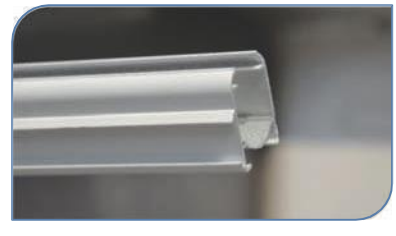
FORM & IMAGE

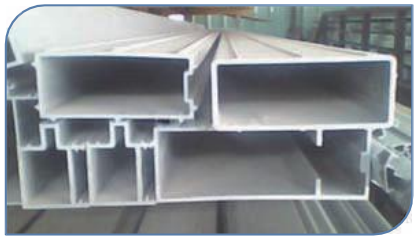
Standard Form, or as per confirmed drawings

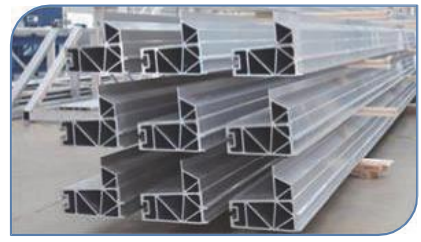


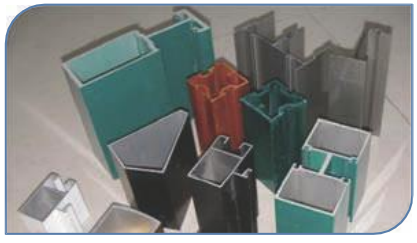


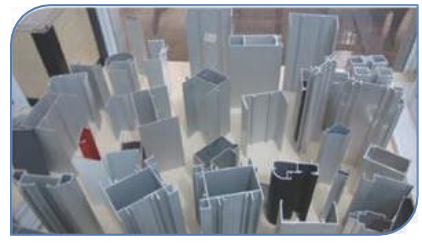












SURFACE FINISH

Mill Finish as default

Anodized

Electrophoretic Coating

Powder Coating

PVDF Coating

Paint, Film Thickness, Color to be clarified when ordering

SURFACE PROTECTION

PVC film, Plastics bag packaging, Paper interleaved

ALUMINUM ALLOY INDUSTRIAL PROFILE

STANDARD SPECIFICATION:

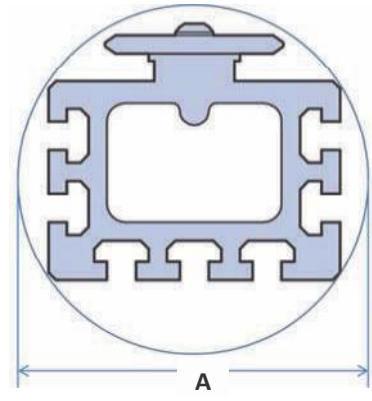
GB/T 6892, ASTM B221, EN 755

ALLOY AND TEMPER:

Alloy	Temper
5xxx: 5052	H112
6xxx: 6005, 6060, 6061, 6063, 6463	T4, T5, T6

AVAILABLE SIZE RANGE

Dimension	Range
Circumscribing Circle (A):	<400mm
Length:	1,000~6,000mm

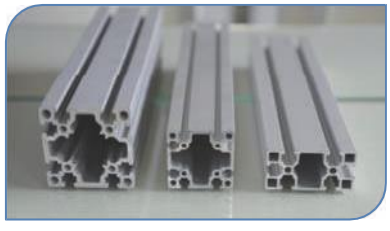


PRODUCTION PROCESS

Extruded

FORM & IMAGE

Standard Form, or as per confirmed drawings









ALUMINUM ALLOY CUSTOMIZED PROFILE

STANDARD SPECIFICATION:

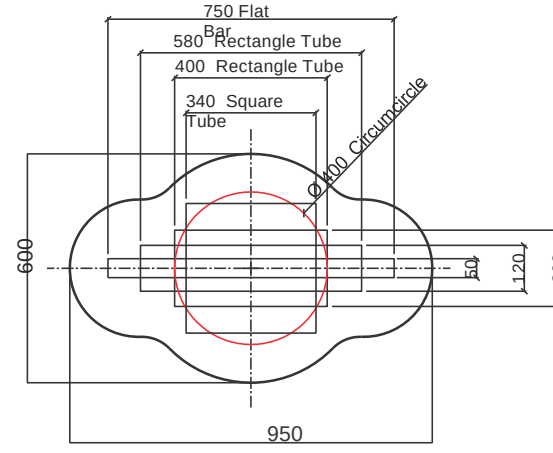
By agreement and by confirmed drawings
GB/T 6892, ASTM B221 and EN 755 as reference

ALLOY AND TEMPER:

Alloy	Temper
6xxx: 6005, 6060, 6061, 6063, 6463	T4, T5, T6

AVAILABLE SIZE RANGE

Dimension	Range
Circumscribing Circle: (theoretical)	<400mm
Length:	1,000~6,000mm



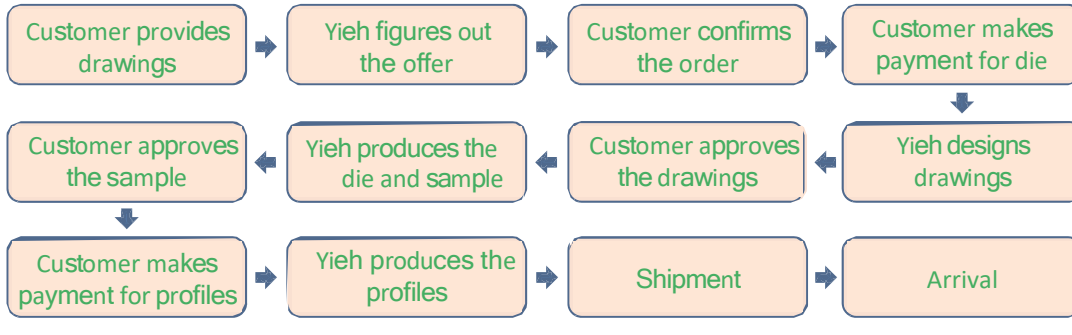
PRODUCTION PROCESS

Extruded

FORM

Customized

ORDERING PROCEDURE



Note：The cost of die will be refunded as long as the order quan﷿ty reaches required volume.

APPLICATION

Aluminum & its alloy are used in more than 90% of the industries in the world, especially in transportation, construction, building, appliances and equipment.



TRANSPORTATION

Aircra• & Aerospace
Automobile, Bus, Truck, Tank
Train, Metro Line, Bicycle
Ship, Boat, Yacht



BUILDING & CONSTRUCTION

Roofing, Decora•on
Celling, Door, Window
Framework
Structure



ELECTRONICS & APPLIANCES

Computer, Laptop
Communica•on Tools
Consumer Electric
Heat Exchanger



MACHINE & EQUIPMENT

Catering Equipment
Tex•le Machinery
Precision
Instrument
Medical Equipment



OTHERS

Furniture, Hardware
Accessories
Sports Goods
Medical Supplies









- Immediate processing of your requests
- Fast Dispatch
- Constant quality control of our products

ADRESS:

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PROFESSIONAL
RELIABLE
EFFICIENT

AMASPRO INC.,

www.amaspro.com