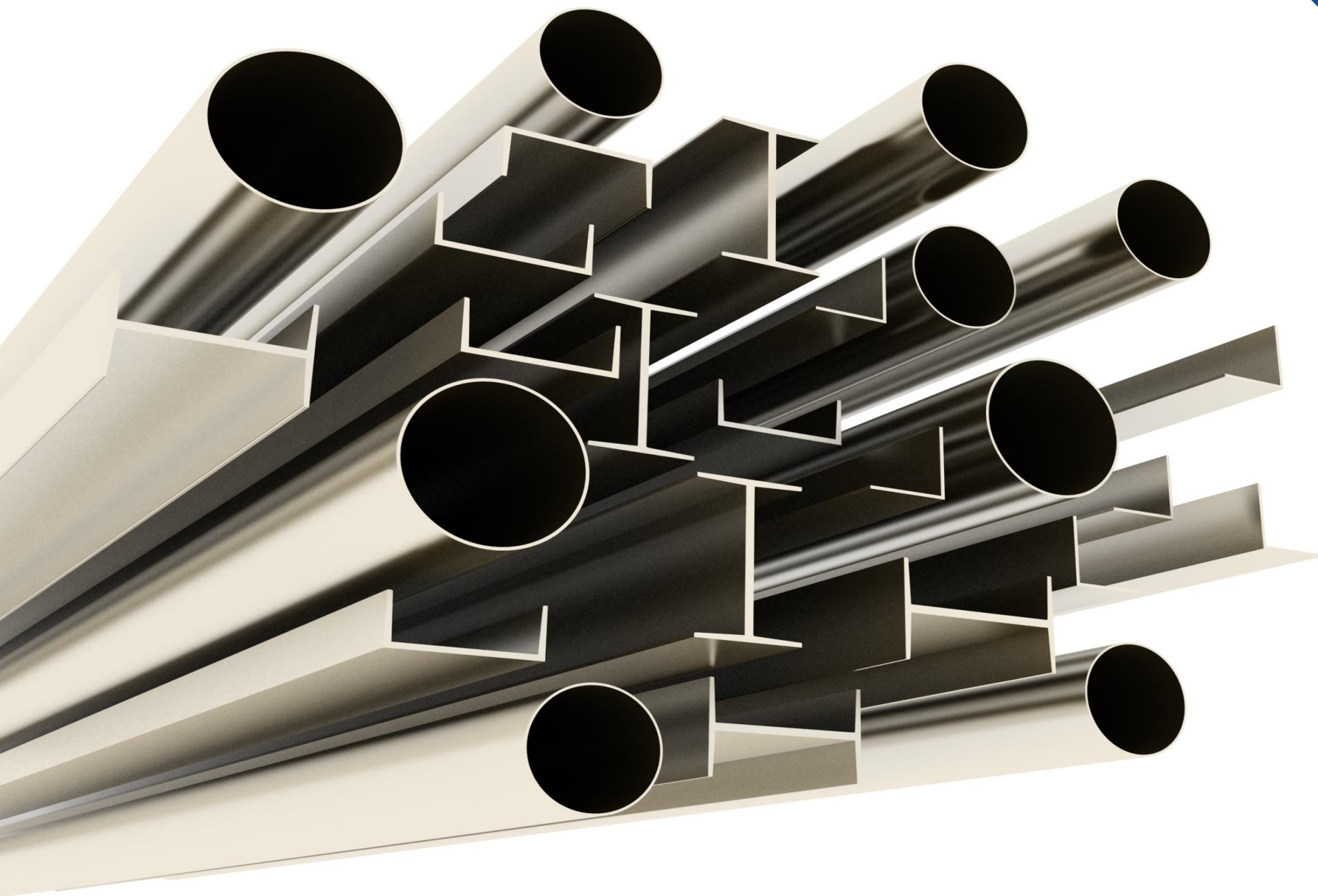


FOR LIVEABLE FUTURE





# About Us

Pantech Aluminyum A.S. was established in 2020 by Panda Group with participation of well experienced industry leaders in aluminium extrusion in order to provide extruded aluminium products especially to Solar and other industries.

Panda Group operates in the fields of aluminium, food, energy, mining and venture capital, with the mission of "creating value for our internal and external stakeholders with competitive and sustainable growth". Group's commercial activities started in 1984 and to this day still creating value with its industrialist identity. After investing in the aluminium extrusion business by establishing Pantech Aluminyum, Our Group is continuing its steady growth with help of integrated and organic growth strategies.

Pantech produces aluminium profiles in its integrated facility in Ankara Baskent Organized Industrial Zone in Turkey. The facility is established on 18.000 m<sup>2</sup> closed and 30.000 m<sup>2</sup> total area. Pantech mainly produces industrial profiles, in particular Solar and EPC profiles and standard profiles. The integrated facility incorporates modern equipments, having all new extrusion press, anodizing line, mechanical processing lines, packaging area and a warehouse.

Pantech already takes its place in the international market with thanks to mixture of experts and youngs in an innovative and dynamic team it has. As a proud part of Panda Group, Pantech focuses on customer satisfaction and environmental awareness for sustainable future.



**150+**



**7" and 8"  
Extrusion  
Presses**

Solar Frame Production

**6.000.000**  
sets/year



**%99,7**  
Quality Pass Rate



**Anodising  
Line x2**

**Aging  
Furnace  
x2**

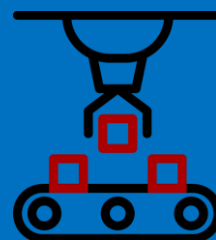
**Cutting  
and  
Milling  
Lines x4**

**3-Axis  
CNC  
Machine**

**Eccentric  
Presses  
x2**



**70%** Export  
**30%** Domestic



**Capacity of Production**

**Mill finish: 18.000 tons / year**

**Anodised: 18.000 tons / year**  
(6.480.000 m<sup>2</sup> / year)

## CERTIFICATES

In compliance with **EN 573, EN 755, EN 10204, EN 12020, EN 15088**



Certified for **ISO 9001: 2015**

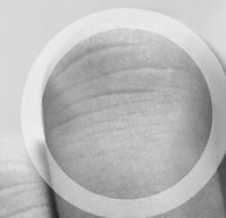
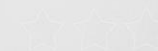
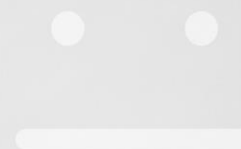
## DOCUMENTS

- CE Certificate
- EN 10204 3.1. Certificate
- Certificate of Analysis
- ASCONA Measurement Report
- Final Inspection Report



## TESTS

- Tensile Strength
- Hardness
- Coating Thickness





# SECTORS

- 01 Renewable Energy
- 02 Transport Vehicles
- 03 Industrial
- 04 Defense
- 05 Construction Profiles
- 06 Standard Profiles

## Renewable Energy

Aluminium plays an important role in wind power plants. The first step to building a wind farm is wind turbines, power generation systems, converter stations, transmission lines, etc. is need to build. Aluminium can be used in these projects, structures and facilities to benefit from the properties of aluminium such as durability and lightness. For example, wings, towers and connectors can be made of aluminium alloy to generate electricity. Many parts, cabinets and brackets in the system and converter station can also be made of aluminium. Except for some of the wires and cables that need to be made of copper wire, the rest can be made of aluminum wire.



Solar power systems fall into three commonly used categories called concentrated solar power (CSP), solar thermal absorbers, and photovoltaic solar cells (PV). Aluminum is ideal for solar panel structures as it is light and easy to transport, strong and robust, and also resistant to corrosion. With high-quality surface treatments, aluminum can be quickly cut, drilled and cut to length to precise specifications; this is a great advantage for mounting PV panels on the ground.

## PV Panel Frames

### Capacity

Daily 20.000 set, Monthly 500.000 set, Annual 6.000.000 set production

### Tolerances

**Extruded profile tolerances:** EN 755-9, EN 12020-2 or special tolerances

**Cutting length tolerances:**  $\pm 0,3$  mm

**Cutting angle tolerances:**  $45^\circ \pm 10'$

**Marking depth tolerances:**  $\pm 0,1$  mm

**Milling and punching tolerances:**  $\pm 0,2$  mm (water holes, installation holes, grounding marks)

### Production

#### **Workpiece range:**

Long side; between 1500-2500 mm

Short side; between 750-1500 mm

**Smallest frame we can produce:** 1500 x 750 mm

**Biggest frame we can produce:** 2500 x 1500 mm

**Anodizing thickness:** AA 10  $\mu\text{m}$ , AA 15  $\mu\text{m}$ , Minimum 12  $\mu\text{m}$ , Minimum 15  $\mu\text{m}$  or special request

**Color options:** Natural (silver/gray) matte anodizing or black matte anodizing (Shades of bronze also available)





# PV Panel Frames

## Quality

**Dimensional errors:** Our production line has %99,7 pass rate for tolerances stated in Tolerances section above. By maintaining this rate we minimize negative effects of dimensional errors to our customers such as; waste of time and labor ship, reduced efficiency in production, broken panels and similar problems caused by wrong cutting length, angle or milling.

**Surface and coating quality:** As renewable energy growing and becoming more common, the interest of end-user customers are also increasing, therefore PV panels are required to be visually attractive as well as being functional and efficient. We, as Pantech, are using primary aluminum raw material to ensure best surface and coating quality.

**Aluminium chips:** We know aluminium chips have unwanted negative effects in PV panel assembly process and those small chips can even cause significant problems like production stop if they jam into the critical parts of assembly machines. We prevent these problems by using vacuum machines in automatic production line and chips are being vacuumed when they are occurred.



## Transport Vehicles

In the world where we experience the effects of global warming more and more dramatically, reducing carbon emission and increasing energy efficiency are among our priorities.



The fact that aluminium is light, durable, resistant to corrosion and abrasion, being stainless, 100% recyclable and providing a high level of energy absorption gradually increases its use in the automotive sector. We also produce aluminum products for vehicle components that are lightweight but do not compromise on safety, support long-term use and high performance.



# Industrial

In a wide range from electric bikes to lockers, from elevators to busbars; We offer industrial product solutions with aluminium, which is highly resistant to environmental factors such as heat, light, sound, humidity and gas, and is easily shaped.



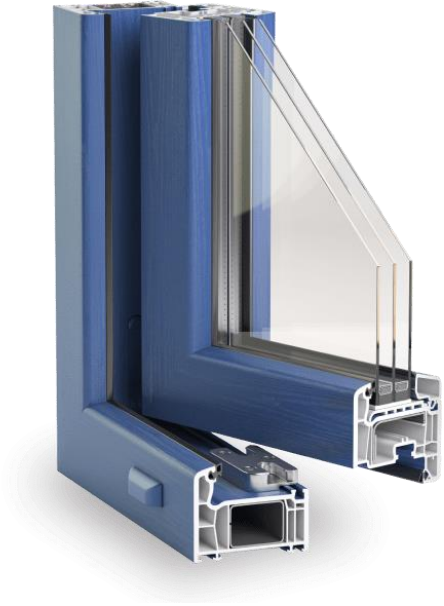
## Defense

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Aerospace and defense industries need aluminium. Pantech Aluminium produces high quality aluminium products for the defense industry.

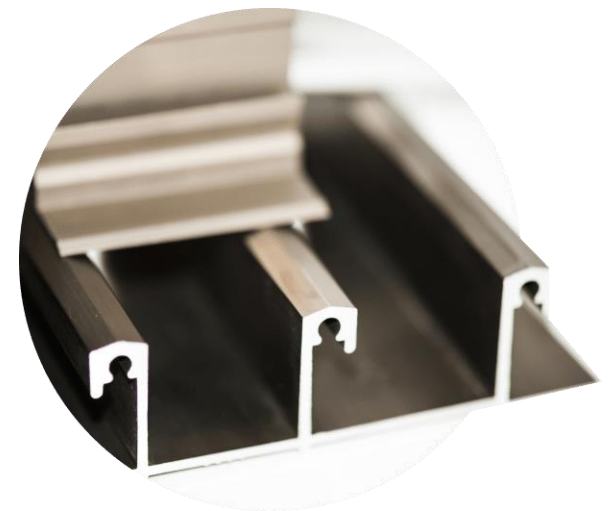


## Construction Profiles



Aluminium is widely used in buildings due to its unique lightness and corrosion resistance properties.

Aluminium is used in exteriors, roofs and walls, windows and doors, stairs, railings, shelves and various other applications.



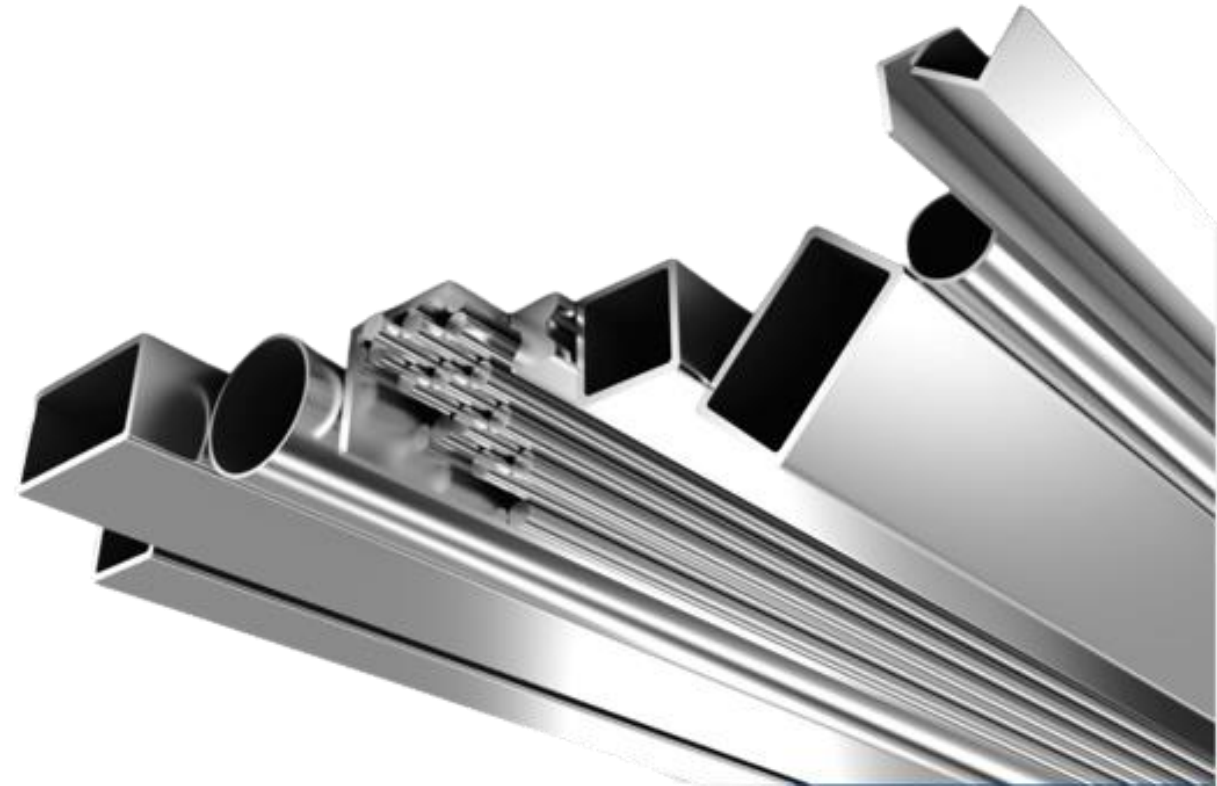


## Standard Profiles

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With our experience in the aluminum industry, we produce high quality products and services for our customers. Aluminum profiles provide both durable and aesthetic appearance.

For detailed product list , please check the [link](#).





We can work on your specific designs and projects.  
Send your drawings and inquiries to [sales@pantechalu.com.tr](mailto:sales@pantechalu.com.tr)  
For more details and further assistance, do not hesitate to get in contact.