

# exal



Manufacturer of Aluminium profiles



Exal s.r.o.  
Hadovská cesta 5, 945 01 Komárno, Slovakia  
Tel./Fax: +421 35 20 22 222 | E-mail: [info@exal.sk](mailto:info@exal.sk)  
[www.exal.sk](http://www.exal.sk)



Extrusion of Aluminium

**High quality aluminium profiles directly  
from the manufacturer**

# Company Introduction

Exal s.r.o. is a dynamically progressing company in the Komarno city, Slovakia. It was established in 2010 and since then it has expanded its activity with extrusion of aluminium profiles as well. The production is realised within a 25.000 m<sup>2</sup> industrial area in Kolárovo that includes an 8.000 m<sup>2</sup> industrial hall where next to the production line we have a modern horizontal powder painting line and a mechanical workshop as well. In this way, besides profile extrusion we can offer a complete service of powder painting, anodising, wrapping, protect foiling and mechanical processing of profiles. The production is executed on a new, modern extrusion line with high control of quality terms and by the only use of high quality materials.

Strengths of Exal s.r.o. among others are flexibility and short delivery time of the items.

A main and important goal of ours is to maximally satisfy the client's demands and to persistently develop our products, technologies and services at the best possible prices.

Our company guarantees quick and safe arrival of the products by our own logistic department and our own fleet of trucks.





Strengths of Exal s.r.o. are flexibility  
and fast delivery of products



# Manufacturing process

Profiles produced by Exal s.r.o. can be widely used. Besides the production of our own systems, we are able to satisfy the needs and requirements of other industries, such as car industry, logistics, building industry, lighting technology, ventilation technology, furniture industry or heating technology etc.

Extrusion, powder painting, anodising and wrapping are all carried out in our own factory and a special department deals with the mechanical working of the profiles.

Our company provides a full and comprehensive service.



extrusion



mechanical processing



anodising



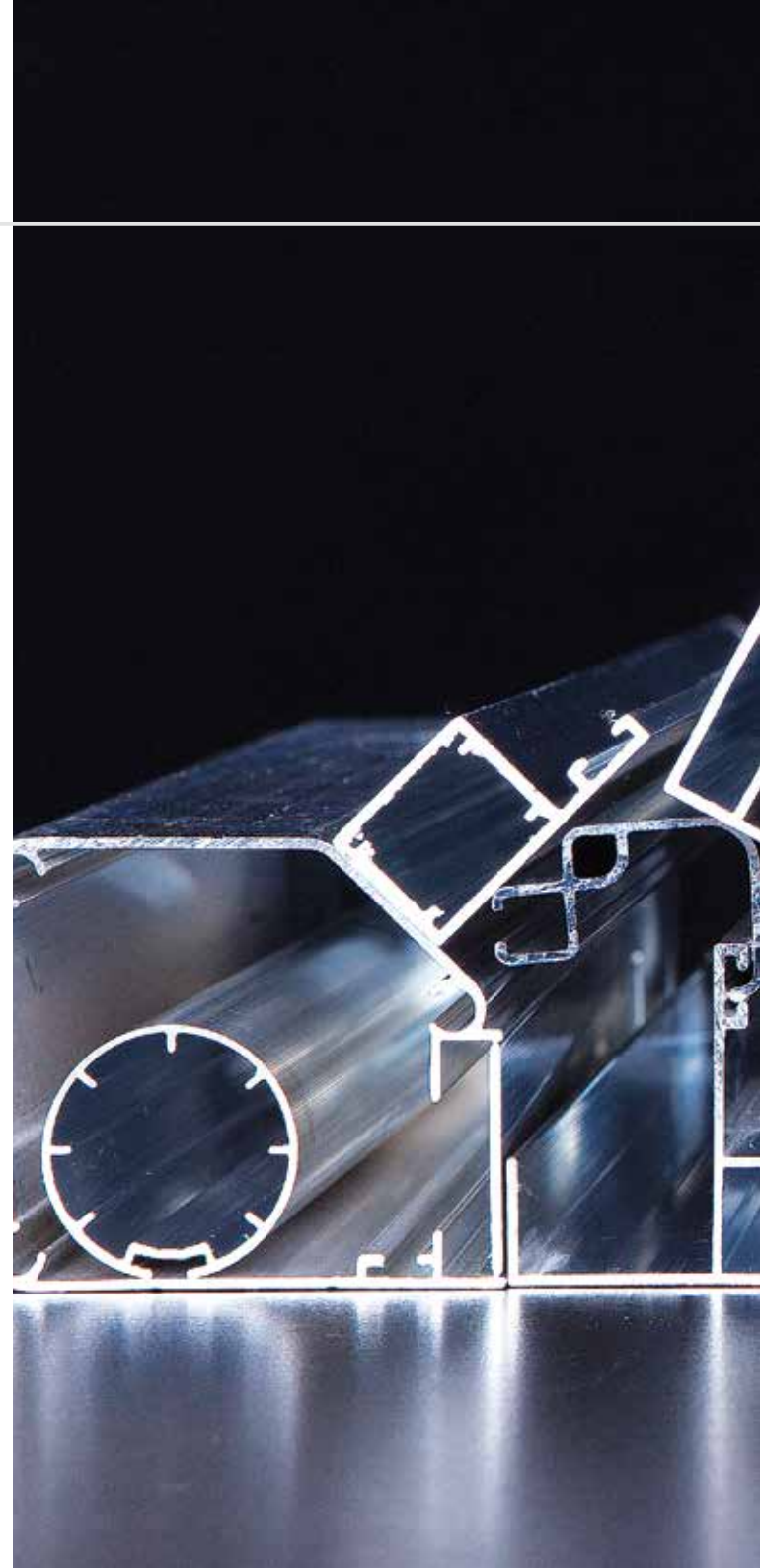
wrapping



powder painting

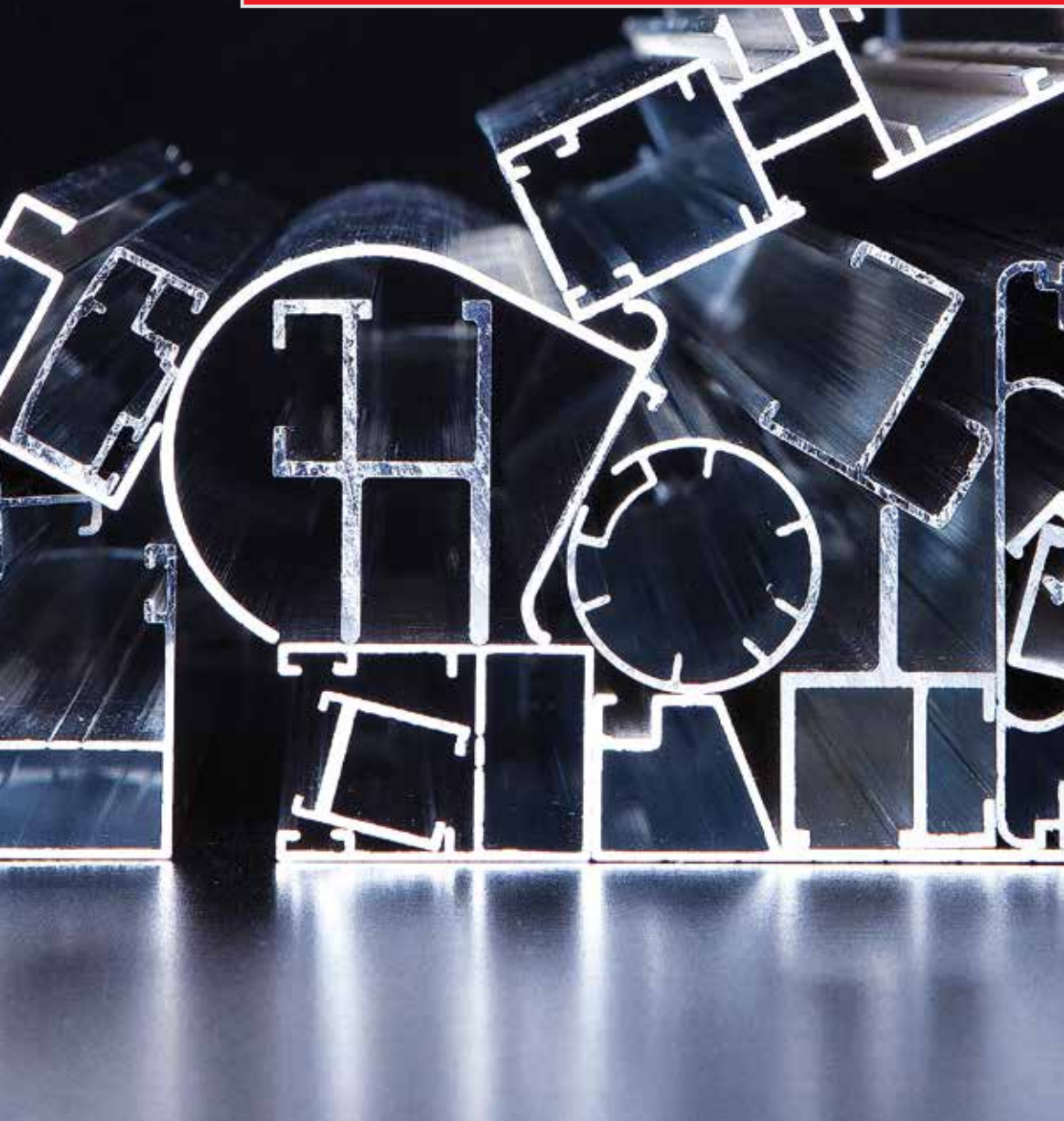


packaging





We offer full service



# Design

At our department of designs 3 well-trained engineers are dealing with the designing of profiles. By using the most modern devices and technology of informatics they are able to realize the client's idea in the most efficient way. Our crew is prepared to attend the customers' needs quickly regarding both designing and consultancy.

Our construction department helps to plan the plastic accessories that suit to the aluminium profiles and systems. Our technologic staff collaborates with the best tool manufacturers, therefore we guarantee to deliver the best product in a short period of time and at a favourable price.







We carry out your ideas

# Extrusion

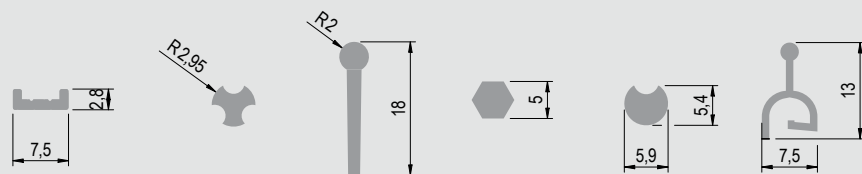
- 2000 tons extrusion press with billet diameter 7"
- 1800 tons extrusion press with billet diameter 6"
- We work with high quality press tools made by the best international tool producers
- ISO 9001 qualification
- EN 755-9 and EN 12020 in accordance with European standards
- EN 755-2:2009 –T4-T5-T6-T64-T66
- Heat treatment in accordance with European standards
- Production of standard profiles
- Profiles by individual drawings

## Alloys

Depending on the request of the customer and the application of profiles we produce from following alloys:

- EN AW-6005
- EN AW-6060
- EN AW-6061
- EN AW-6063
- EN AW-6082
- EN AW-6101
- EN AW-6463

Our modern technology makes us possible to produce aluminium profiles in excellent quality from 0,8 mm wall thickness and we undertake micro extrusion as well.





Profiles in accordance with your needs



# Powder painting

With our new horizontal painting process we are able to solve the powder painting of aluminium profiles. The surface treatment begins with a 9 phase immersion in a passivating bath. The profiles are coated with a passive green chromate layer which creates a very strong coat on the surface of aluminium against corrosion. We control and monitor the process of surface treatment in a high-quality laboratory of ours in accordance with requirements of qualifier institutions. For the passive coat that evolves during the process of passivation, the supplier guarantees a 1500 hours salt spray test which means at least 10 years of corrosion resistance of the coat.

The configuration of Swiss made GEMA cabins with their extra modern (spraying) guns offer a perfect combination of high productivity and perfect painted surface.

The finishing process happens in a special oven, where as a result of the high temperature the powder lacquer solidifies to the surface. This machine which works with a quality automatic ventilation is tuned within totally precise quality borders. Thanks to this it satisfies all demands and needs. We always carry out and document the adhesional features and the mechanical properties of the painting on workpieces. In addition, it is confirmed by a quality certificate.

We work with acclaimed international suppliers such as Tiger, Akzo Nobel or Dupont, that guarantees the perfect and unimpeachable quality of painting.

## Range of colours

- all RAL colours

## Quality certificate





Electrostatic powder painting  
for well-executed and steady surface

The collage consists of four images. The top-left image shows a yellow industrial frame with blue components. The top-right image shows a close-up of a white, glossy, curved surface. The bottom-left image shows a large industrial oven with multiple racks of metal parts inside, and a control panel on the left. The bottom-right image shows a variety of colorful, extruded metal profiles in yellow, red, green, and blue, arranged in a fan-like pattern.





# Wrapping

Our company uses the most modern equipment for the wrapping of aluminium profiles that guarantees the correct fitting and the perfect gluing of the foil.

## Technology:

Onto the surface of profiles we wrap Renolit or Hornschuch type PVC foil with a two-component warm PU glue. The foil is UV-stabile and resists the weather conditions. Moreover, it has a very long durability.

## Range of colours

- Renolit/Hornschuch

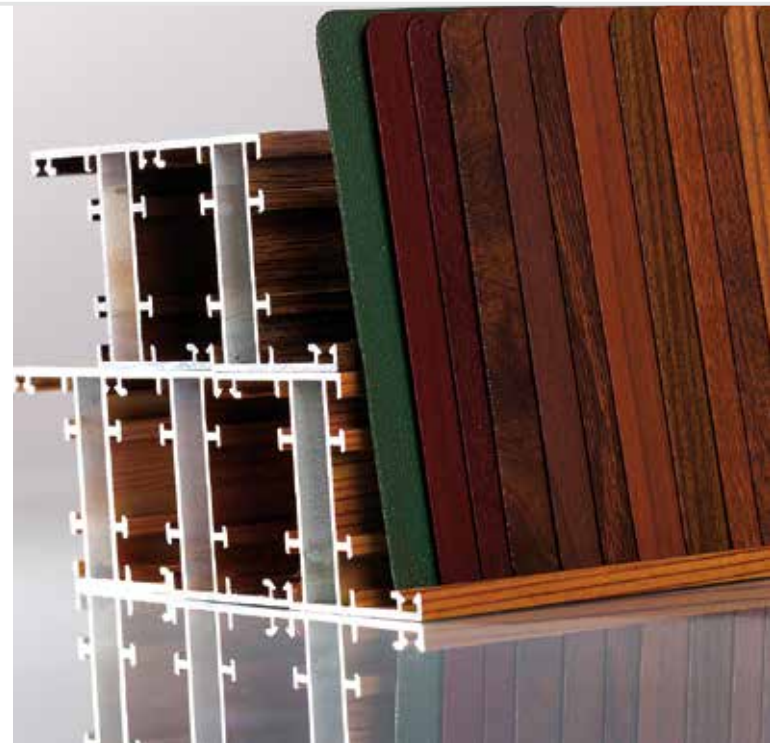


# Wood decoration

To the configuration of decorative surfaces we offer the type of painting called Decoral System that is a wood-pattern painting-method executed by sublimal technology. The excellent wood-pattern painting has been used more and more widely throughout the world such as in case of doors or windows. What belongs to its advantages are among others that it increases the aesthetical appearance of profiles and it is durable, scratch resistant and UV-stabile.

## Range of colours

- wood effect







Aesthetic look  
– satisfying all demands

# Anodising

The aluminium profiles are coated with thin oxide-coat by an electrochemical way in order to prevent it from corrosion.

## Advantages:

- it protects the surface of aluminium profile from further corrosion
- it gives an aesthetic appearance to the product
- it makes the surface of aluminium harder, and therefore better
- the porous oxide coating that evolves during the process of anodising makes it possible to colour the surface according to individual wishes (for example black, blue, silver, gold, etc.)
- the surface treatment upgrades the properties of aluminium, for example thermal conduction by heatsinks





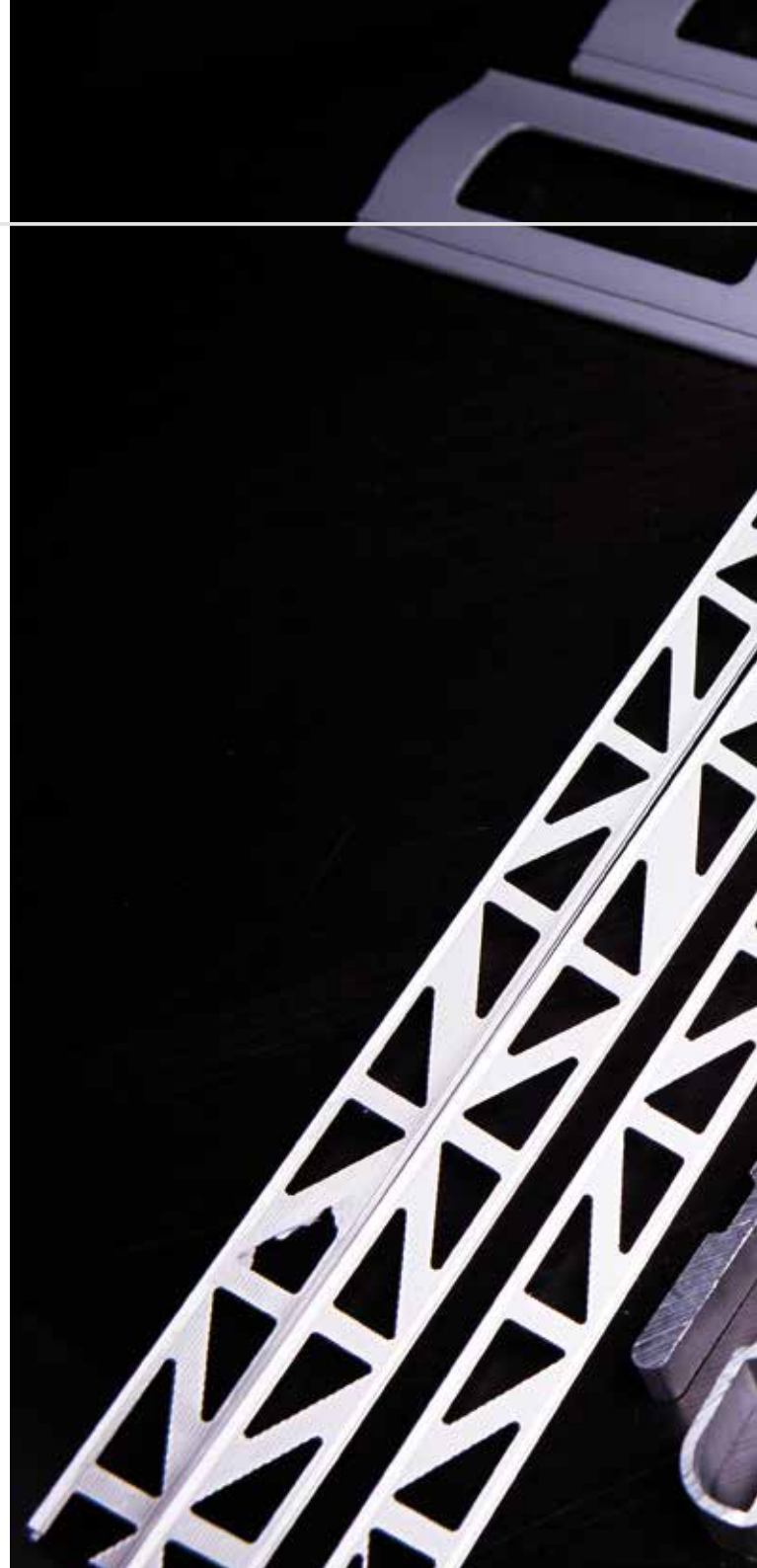
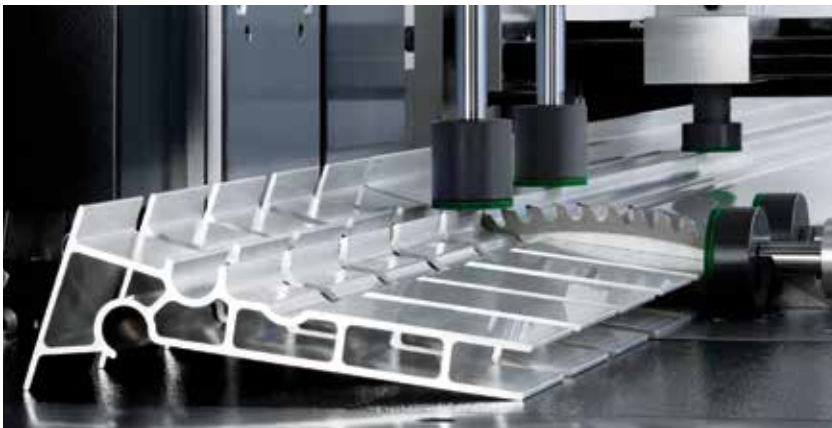




# Mechanical processing

Exal s.r.o. offers to carry out the following additional mechanical processes on its aluminium profiles in accordance to the needs of the client:

- cutting to measure
- CNC working center
- drilling
- milling
- punching
- bending
- assembly of thermally broken system
- fixing of pile weatherstrips
- fixing of rubber
- mounting of two sided adhesive tape





We offer tailor-made solutions



# Packaging

On demand we deliver the painted / anodised aluminium profiles with a special protect foil to ensure the perfect protection of the surface. This way the profiles can be protected against scratches or any other damages on their surface.



# Transport

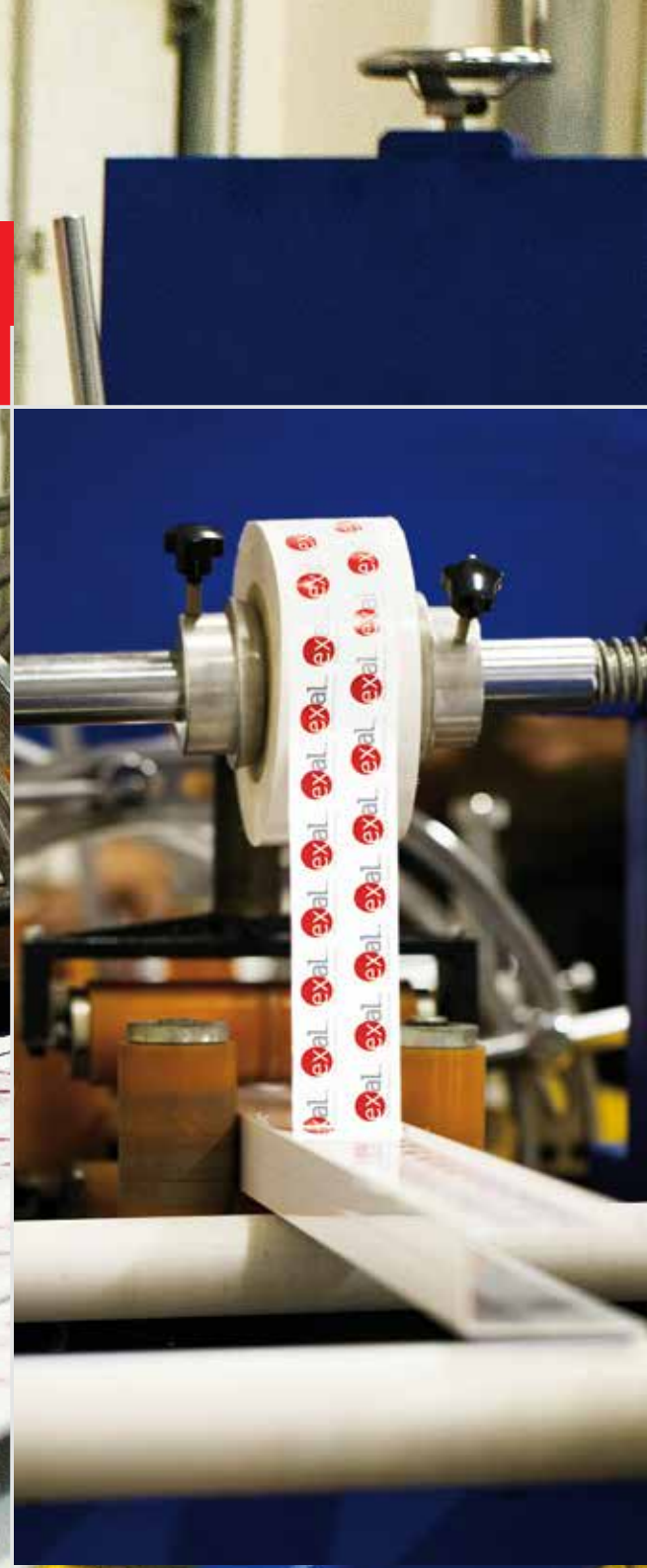
With our fleet of trucks and the contribution of our logistic network we guarantee that the ordered items are delivered in the appropriate time to our customers.







We protect the surface of painted  
and anodised profiles





# Ecology

We recycle the waste of aluminium at a 100 % rate.

Thanks to our own cleaning system the wastewater created during the painting process does not pollute the environment. We give the rest of the waste that we have from the cleaning process to expert waste-processors.





Environmental protection  
is important for us





# Industry

Aluminium and its alloys are nowadays widely used in different kind of industries because of their many positive attributes:

- easy malleability, tractability, good weldability
- small weight - big solidity
- corrosion resistant
- very durable



## ARCHITECTURE

Doors  
Windows  
Fences  
Winter gardens  
Automatic doors  
Barriers  
Window sills

## CONSTRUCTION PROFILES

Facade structures  
Ventilators  
Cable channels  
Safety fences

## INTERIOR BUILDING

Picture frames  
Floor coverings  
Curtain rails  
Shower boxes  
Doormats  
Handrails  
Shading  
Insect screens

## TRANSPORT AUTO-MOTIVE INDUSTRY

Automotive industry  
Truck and trailer bodies  
Bus doors, windows  
Train interiors  
Bus stations  
Bicycle wheels  
Traffic signs







**We are present everywhere...**

### **HEATING, COOLING PROFILES**

Solar collectors  
Photovoltaic structures  
Air condition  
and ventilation  
Grills and diffusers  
Radiators



### **FURNITURE PROFILES**

Wardrobes  
Tables  
Chairs



### **OTHER APPLICATIONS**

Exhibition stands  
Showcases  
Display units  
Lighting equipments  
Hospital equipments  
Conveyors  
Aquariums  
Solariums  
Swimming pool covers  
Mail boxes  
Refrigerators  
Household appliances  
Suitcases

### **STANDARD PROFILES**

Angles  
Rods  
Tubes  
L profiles  
T profiles  
U profiles  
Rectangular tubing





Extrusion of Aluminium

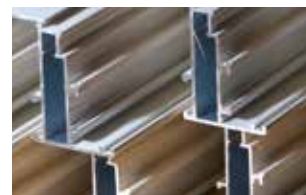
**Feel free to get in touch with us!**





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