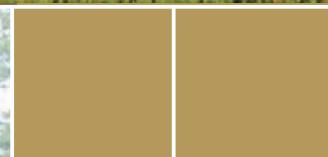
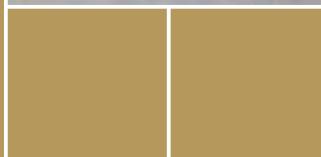




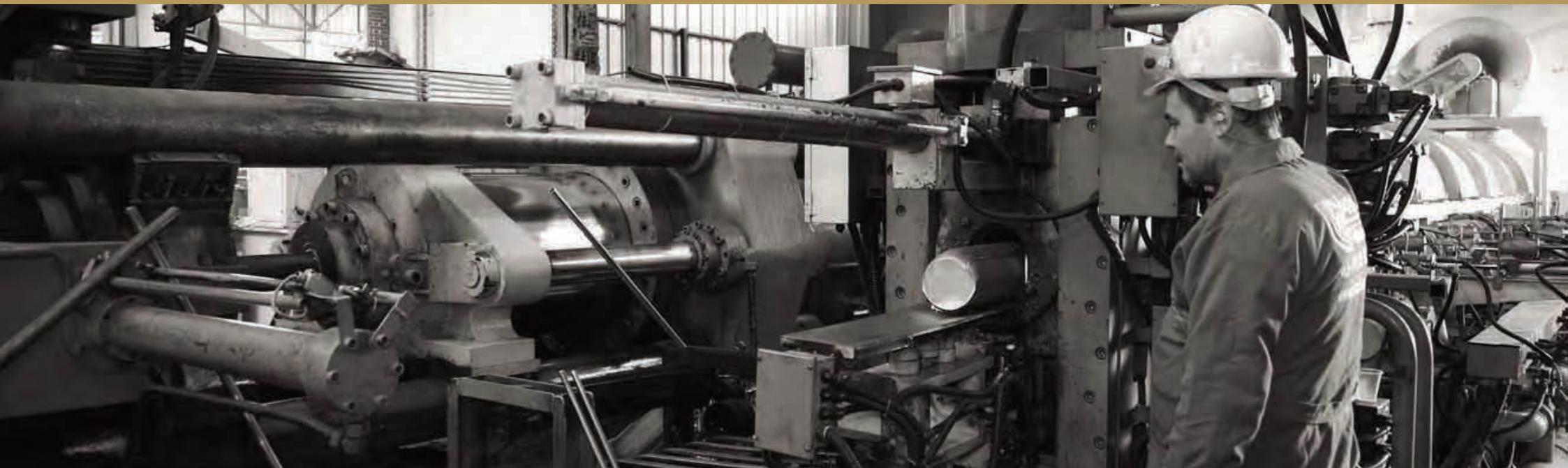
“in every aspect of life”



“in every aspect of life”



 **burak**
alüminyum



HISTORY

It started manufacturing aluminium sheet in Istanbul Bayrampaşa in **1984**. It founded its first extrusion project in **1991** to manufacture aluminium profiles. In **1994**, it moved to Hadimkoy Plants. In **1995**, electrostatic powder coating unit and foundry was installed. It implemented its first export in **1996**. And the second extrusion line was commissioned in **1997**. Extrusion lines were revised, and the foundry's capacity was increased in **1998**. Manufacture of aluminium building system was commenced with

the brand alu-line in **2002**. 1.400 and 2.000 tons of extrusion lines, anodization unit CNC mechanical processing machinery were commissioned, and the 1st phase construction of **12.500** sqm Lüleburgaz plant was completed between **2003-2008**. The foundation of Lüleburgaz plant was completed in **2011**. **Aksan Alüminyum** joined the group in **2012**. In **2013**, total **200.000** sqm Lüleburgaz plant with **40.000** sqm indoor space was completed and set into operation.

Burak Aluminium set up the first extrusion press to start aluminium profile production.

First export sales reaalized.

Foundation of the plants in Lüleburgaz, Kırklareli.

Production started at Aksan and Burak Lüleburgaz Plant.

1984

1991

1994

1996

2009

2011

2012

2013

2014

Started to produce aluminium sheet in Bayrampaşa.

Burak Aluminium moved to the facilities in Hadımköy,İstanbul.

Project on extrusion of medium and high resistant alloys was approved by TÜBİTAK.

Aksan Aluminyum joined the group of companies.

Was switched to automated systems. Full capacity have begun to be studied.



Sunshading Systems



AL - 68
Reinforced Facade

FIELDS OF ACTIVITY

Burak Alüminyum Industrial:

Burak Alüminyum also performs special alloy aluminium profile manufacture besides standard alloy extrusion profile. Besides serving industries such as automotive, aviation industry, heating-cooling, furniture promotions and rail systems which need qualified design from A to Z, it manufactures solar energy, semi-finished and finished products composed of aluminium such as caravan, automotive, industrial fridges, and radiators.

Burak Alüminyum Architectural Systems:

Burak develops architectural solutions with its alu-line® brand as well. Manufacturing facade, doors and windows, sliding, office partition systems, handrail profiles and their compatible accessories, Burak also manufactures aluminium composite panels via its **BURAKBOND®** and **alu-linebond®** brands and exports these products to **36** countries.



MURATLI FACILITY	
Extrusion	24,000 tons
Anodizing	22,200 tons - 8,70 mt
Powder coating	9,600 tons - 10 mt
Insulation Barrier	3,000 tons / ~1,200 km
Worker	450 personnel



The ability to produce special alloys



RAW MATERIAL

- The production's raw material is aluminium billets.
- To manufacture products with the best mechanic properties **6063, 6082, 6061, 1050, 1070, 5754, 6005** billet alloys are preferred.
- Burak provides the optimization of the casting parameters in its own foundry and manufactures high quality billets through the homogenization heat treatment applied post casting.
- Burak also uses **HYDRO** Brand 1st quality aluminium billets.
- Our raw materials are checked according to **TS EN 573-3** standards.



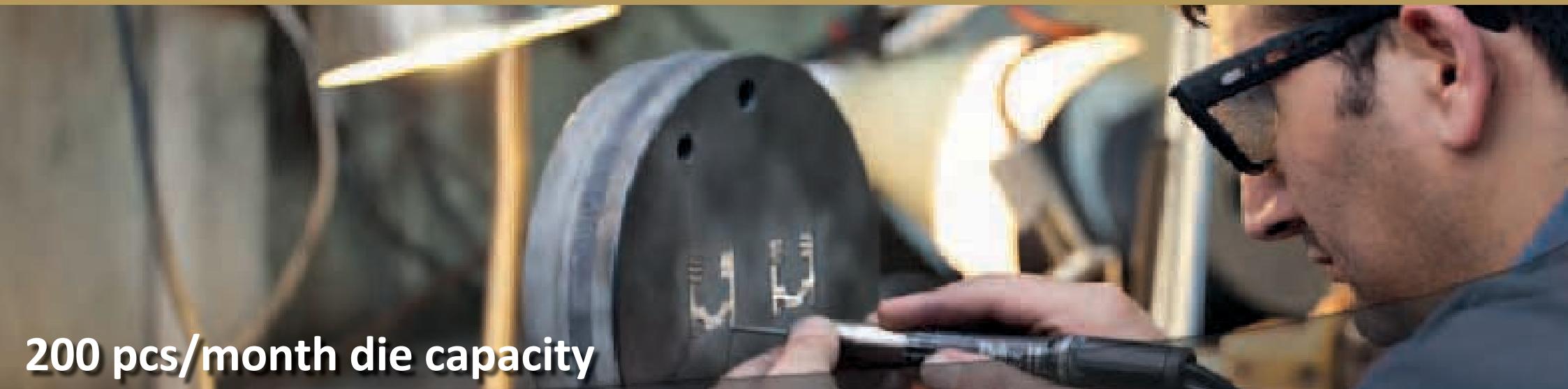
Custom mold design



DESIGN AND MOLDING

The design techniques used and **CAD-CAM** systems are combined with an experienced specialized staff to serve our customers, optimize the manufacturability and prices of the products and make profile designs based on customers' desires. Through the cutting-edge technology product CNC counters, all kinds of extrusion molds are manufactured in the most efficient and affordable manner.

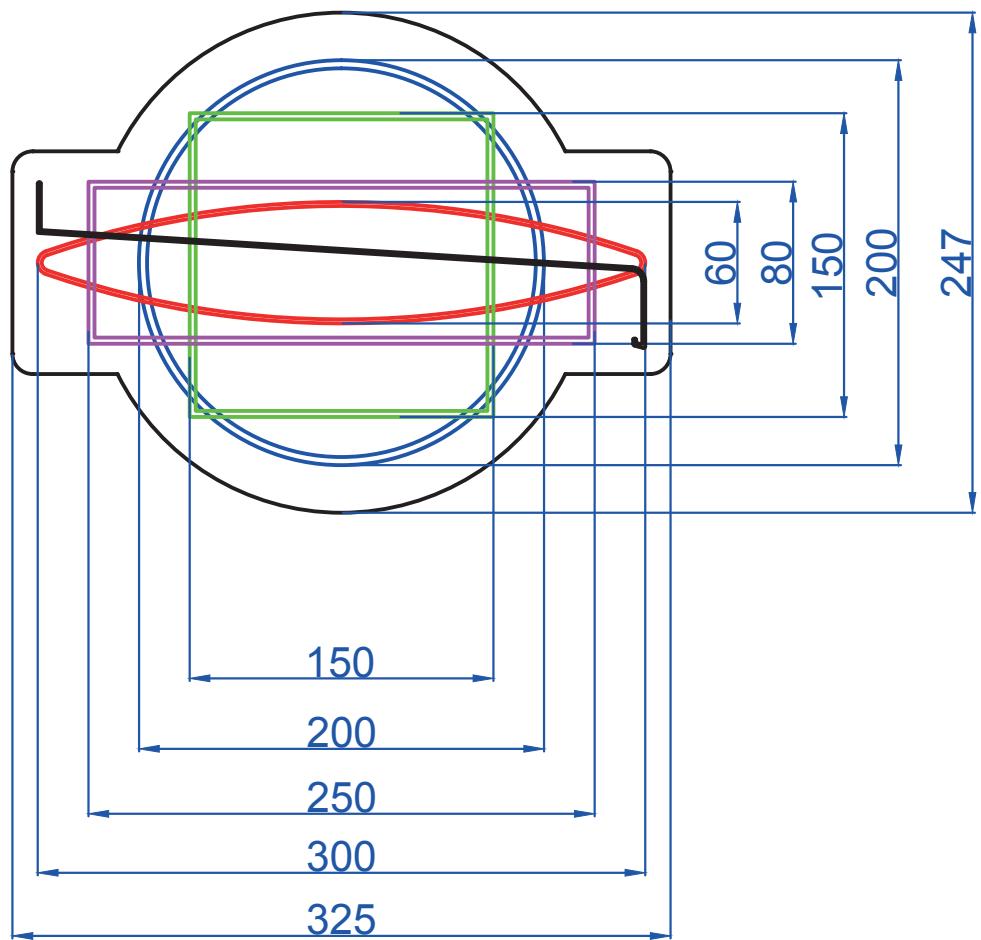
Our molds are in conformity with **TS-EN 12020-1** standard and manufactured according to **TS-EN 12020-2** sensitive tolerances. Mold manufacture is made by Computer Based **CNC** Machines. Molds are regularly subjected to **Nitration** (Tenifer) process. More than **20 thousand** molds in various sizes and designs are available at Burak Alüminyum mold archives.



TOOLING

Line	Power	Dimension
Process 1	SES 3000	CNC
Process 2	Erosion Cutting	CNC Wire EDM
Process 3	Erosion Cutting	CNC EDM
Process 4	Lathe	Lathe

MANUFACTURABILITY



Alloys can be produced:

6063-6082-6061-1050-1070-5754-6005

Produced in hardness profiles:

F13,F18,F22,F25,F27

Recoverable profile size:

Anodizing: 7,60M

Paint:10M

Press: 12M



EXTRUSION

Burak Alüminyum has the opportunity to manufacture wide variety of profiles thanks to total of advanced PLC controlled extrusion press lines, namely, **3 1400, 3 2000, 1 each 2250** and **2750** tons. Thanks to its advanced technology, it is able to perform production optimization and control outage amounts.

Our aluminium billet Induction furnace allows us to obtain the most excellent anodic quality thanks to isothermal extrusion. Our programmable conveyor and tensioning system constitutes one of the most advanced extrusion plants along with our thermic furnace.



Dynamic extrusion forces

PRESS LINES

Line	Power	Dimension	Brand	Annual Capacity
Press 1	1400 tons	6 inches	Domestic	10800 Tons/Year
Press 2	1400 tons	6 inches	Domestic	10800 Tons/Year
Press 3	1400 tons	6 inches	Tecalex	10800 Tons/Year
Press 4	2000 tons	7 inches	Domestic	15600 Tons/Year
Press 5	2000 tons	7 inches	Lindemann	15600 Tons/Year
Press 6	2000 tons	7 inches	Presezzi	15600 Tons/Year
Press 7	2750 tons	8 inches	Presezzi	15000 Tons/Year



MACHINING AND MECHANICAL PROCESSES

- At our machining unit we can make; drilling, milling, sensitive cutting, bending, welding and assembling processes.
- We are able to make bending processes in accordance with the product specifications in our bending and plastic shaping machines.
- In line with the demands of the customers; manufacturing is performed in international standards through **TIG** and **MIG** welds when caravan doors, frames, combined profiles are desired to be readily assembled.

- Heat insulation profiles are also manufactured for exterior, automotive and Air conditioning industries. Our **HERMANN MULLER** brand full automatic heat barrier assembly line manufactures heat insulated profiles with the least outage and the highest quality and speed with automatic pressure control based on the technical properties of the profile and the heat barrier.



MECHANICAL PROCESS LINES

Line	Model	Number	Dimension
Mechanical 1	Elumatec SBZ 150	1	5 axis CNC
Mechanical 2	Elumatec SBZ 140	4	4 axis CNC
Mechanical 3	Elumatec DG 142	2	Double head cutting
Mechanical 4	Elumatec SAS 142	1	Serial cutting
Mechanical 5	30 tons, 25 tons, 20 tons	1,2,2	Eccentrik Pres
Mechanical 6	TIG and MIG	5	Aluminium Welding
Mechanical7	Aluminium bending	Project based	Project based Bending machines



ISOLATION BARRIER LINES

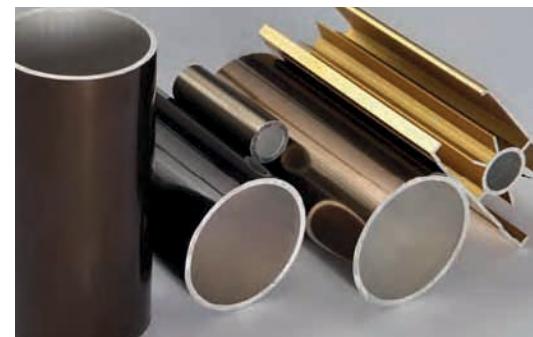
Line	Brand	Model	Annual Capacity
Barrier	H. Muller	Full Automatic	1,200 km / 3000 tons



Produce 8.70 mt anodised profiles

ANODIC OXIDATION

- 18,000 tons of anodized profiles can be made per year thanks to **3 25,000 A, 4 10,000 A** flow capacity rectifier anodic baths and **3 10,000 A** electrolytic colouring transformers at our Anodic plants.
- The specifications of the anodized products are determined by **QUALANOD®** specifications.
- Anodic oxidation process can be made up to **8.7 meters** profile at our plant.
- German **ALUFINISH** chemical products are used at our plant.
- Our full automatic anodic oxidation plant was founded by Italian company **MONTi**.
- Based on our customers' demands; we offer various surface processes such as brightening, grinding, brushing and sanding blasting.





Lenghts up to 10 mt available

POWDER COATING

- We apply pre-coating process of surface cleaning, acidic surface corrosion, chrome-free coating.
- After surface improvement, profiles are checked and their surfaces are cleaned.
- Coating is made via automatic **Tribô System**.
- Coating and surface improvement quality is made in **QUALICOAT®** standards.
- Production samples and production details are regularly kept to take measures against the potential problems in the future and improve quality.
- Powder coating can be applied up to **10 mt.** profiles.
- Our facility, 9,000 tons / year staining is capable of.





PACKAGING

Aluminium profiles need to be maintained safe from against environmental factors during transfer, shipment or stock. For the protection of aluminium extrusion profile surfaces, they need to be taped and film covered, bulk case packaging with nylon and craft paper; and they also need separate packaging so that they can be carried by forklifts, cranes or trucks in intercity or import shipments.

Burak Alüminyum produces palets within the framework of national and international standards and it provides custom size palets which is defined according to the stocking requirements of the customer.





PRODUCT RANGE

ALUMINUM ARCHITECTURAL SYSTEMS

- Doors and Windows
- Interior Partitioning
- Curtain Wall
- Winter Garden
- Skylight
- Brise Soleil

CONSTRUCTION PROFILES

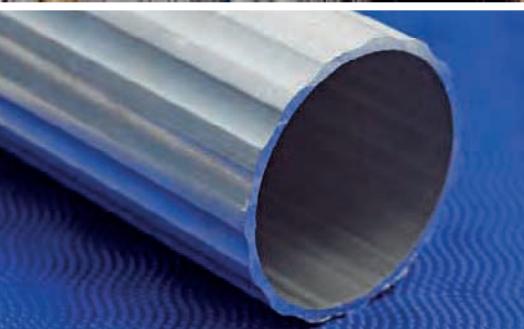
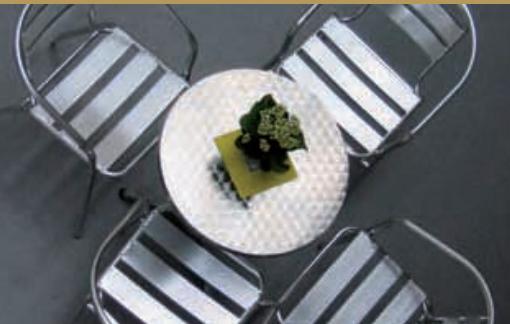
- Ceramic Tiles
- Garden Gates and Fences
- Louvers and Shutters
- Awnings
- Cable Channels
- Elevators
- Window Sills
- Ladders and Scaffolding
- Safety Fences
- Ceilings
- Roofs
- Door Thresholds

BUILDING INTERIOR PROFILES

- Picture Frames
- Floor Coverings
- Curtain Rails
- Shower Cabins
- Doormats
- Handrails
- Insect Screens

AUTOMOTIVE AND TRANSPORT PROFILES

- Automotive Equipments
- Truck and Trailer Bodies
- Caravan
- Bus Doors,
- Windows and Interiors
- Train Interiors
- Bus Stations
- Bicycle Wheels
- Traffic Signs



ENERGY, HEATING, COOLING PROFILES

- Solar Collectors
- Photovoltaic Structures
- Air Condition and Ventilation
- Grills and Diffusers
- Radiators

FURNITURE PROFILES

- Wardrobes
- Tables and Tripods
- Cupboards
- Chairs
- Furniture handles and accessories

PROFILES FOR VARIOUS APPLICATIONS

- | | |
|--|---|
| <ul style="list-style-type: none"> - Exhibition Stands - Showcases - Display Units - Hospital Equipments - Signboards - Machinery Basements and Frames | <ul style="list-style-type: none"> - Lightning Equipments - Conveyors - Aquariums - Solariums - Swimming Pool Covers and Protections - Mail Boxes - Home Appliance |
|--|---|

STANDARD

- Angles
- Tubes
- Plates
- Rods, etc.



KS-50



AG-50



AL - 68

FACADE SYSTEMS

Curtain Wall

Curtain walling system with cap reflects for the most part a steady stance in the building. Aluminium horizontal and vertical covers can be seen in between the glass indicates the building's style with a stronger and solid stance.

Silicon Curtain Walling

This system was virtually created in the axis to avoid aluminium to be seen from outside of building. It not only allows integrity in the wall but it can also reflect corporate identity by the colour of the glass.

Steel-reinforced Facade

The static values of aluminium cannot bear above a certain height. In this case, a facade is created through this system which is assembled on steel columns. This system is suitable for highrise buildings with steel construction.



SW - 11

Sunshading Systems

It is a system actually developed for people indoor to avoid being influenced and disturbed by the sun at sunrise and sunset, this system creates a functional effect on the facade. An aesthetic appearance is obtained as a result of using sunshaders especially at storey gaps in the whole building.

Skylight Systems

Being applied in the new generation buildings and more frequently on the roofs of the shopping malls, this system enables solar control in creating ecological buildings. It allows light to enter into the building from the appropriate points, and it is effective both for natural lighting and internal heat.



EY-45



S-55



Y-55

DOORS AND WINDOW SYSTEMS

ES-45

It can be conveniently used in all kinds of applications of trade centres, housings and public offices which does not contact with external weather conditions. It can also applied in wet ground ventilation windows.

EY-45

It is preferable in regions with not too much heat changes and in projects which prioritize cost.

S-55 / S-58

These are uninsulated systems which can be used in interior parts of the buildings as well as exterior applications in regions without harsh weather conditions. Frequently preferred particularly in the shop front applications of stores and shops locations, S-55/S-58 was promoted by reinforced frame profiles to provide maximum visual space and designed to applied all large gaps.

Y-55 / Y-58

Being the most preferred insulated joinery systems among alu-line architecture systems, Y-55 /Y-58 provides optimum heat and sound insulation. They are systems which are not only used in commercial locations but also substantially used in housings. They are also preferred because it enables uses of various types of accessories.



Y-65

Y-65

Designed to increase window aperture up to 50 mm, an important advantage of Y-65 series is that it provides triple glass combination. Alu-line insulated joinery systems were designed to be used in the folding door applications which are demanded particularly at hotels and luxurious housings.



Y-70

Y-70

Having a high moment of inertia, Gold system enables high performance and works without problem even in the largest gaps as a result of its 70 mm depth. It was designed with 4 chambers reach maximum heat and sound insulation.



S-2000



S-3000



S-4000

SLIDING SYSTEMS

S2000

Designed suitable for interior partition jobs, indoors of the houses and workplaces, S2000 is frequently preferred as it is a light and affordable serie. It is a practical system designed to minimize the sash weight load, particularly considering the fact that heavy sashes can have problems in working in the long run in applications to be constantly opened and shuted in the commercial buildings.

S3000

Designed to be used in the applications of both housings and commercial locations which are exposed to external weather conditions, S3000 provides air insulation through its heat barriers. It maintains the comfort in the location as a result of its water discharge system with sealing gaskets and labyrinth logic, which operates against water and air insulation issue which is the biggest problem of the sliding joineries that are used in exterior locations.

S4000 Hebe Schiebe

“Hebe Schiebe” (lift and slide) operates with high performance even in the largest gaps. Thanks to its special mechanism, it increases the movement capability of the sashes and enables them to be easily opened and shuted. Thanks to the mechanism’s ability to lock the sash in a desired distance, it both allows to ventilate the room in a natural way by leaving the door halfway open and disables toddlers to go out. By the way, It can also be applied as a classic sliding system.



S-5000



S-6000

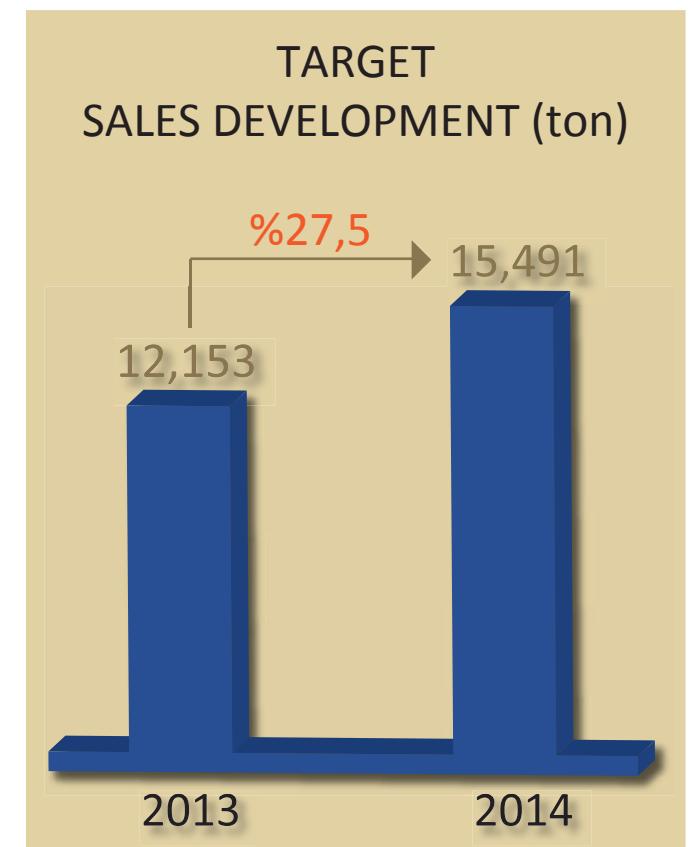
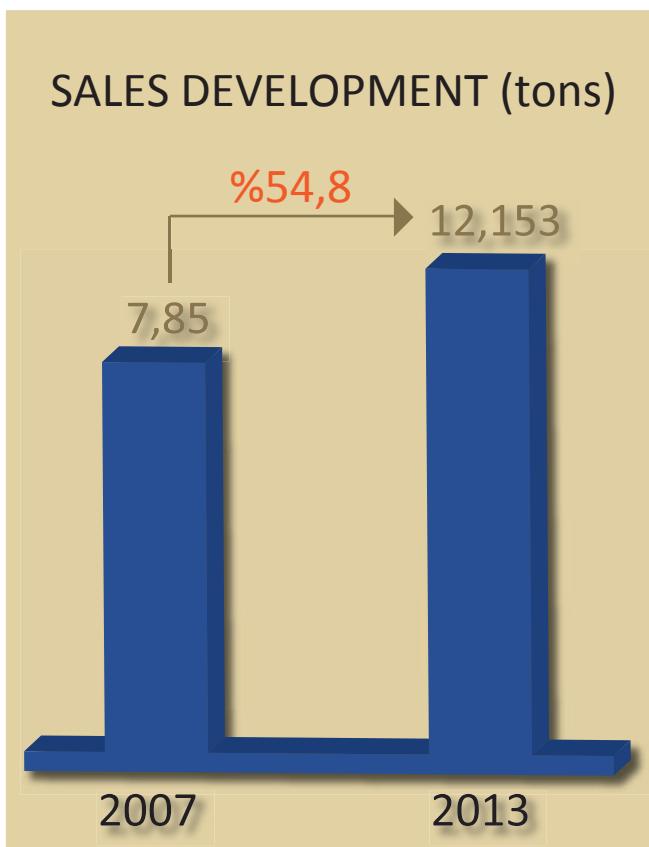
S5000 Hebe Schiebe (Economical)

Having the same operating system with our S4000 series, it makes the system advantageous in economical terms thanks to its high performance profile design and special mechanism. It is highly preferred particularly in housing and hotel projects. It can also be applied as a normal sliding system.

S6000

Particularly in the areas which are exposed to intense noise such as airport terminals, it minimizes the amount of noise that enters into the location by allowing 3-sashes and triple glass combinations. Besides that, it is a high end system which can be used in touristic facilities, in the both cold climate and warm climates where high insulation properties are required.

SALES DEVELOPMENT





%50,9

**Doors and windows Systems
Facade Systems
Office Separations Systems
Balustrade Systems
Aluminium Composite Panels**

%49,1

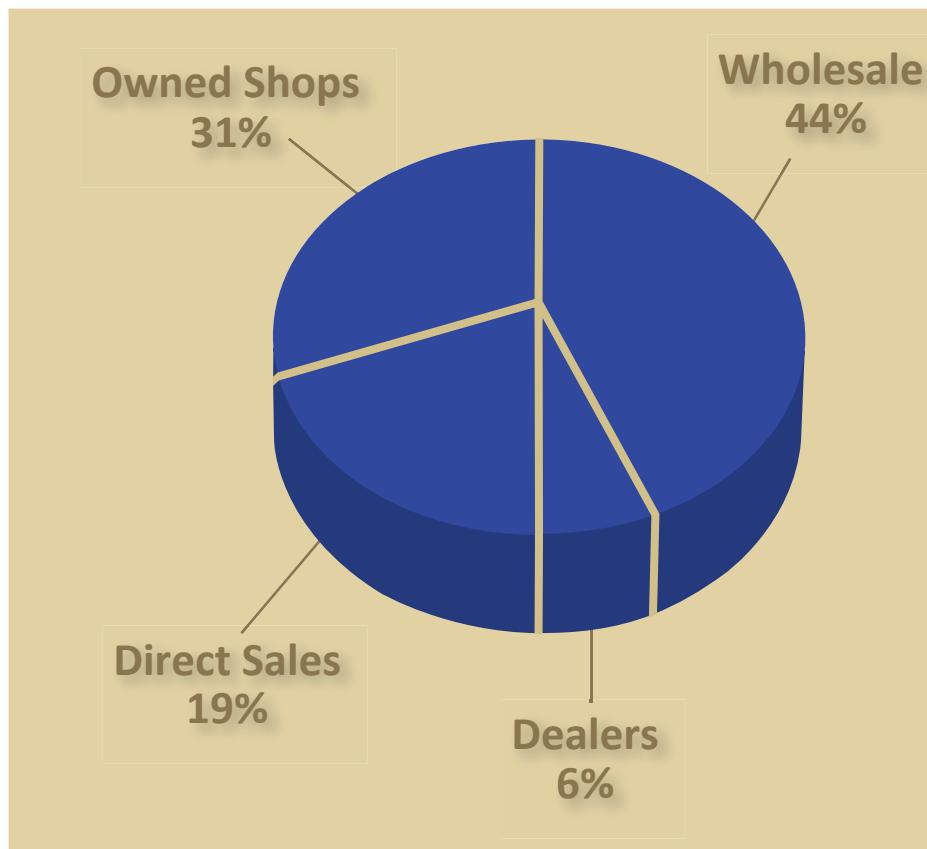
**Standard Profiles
Special Profiles**

MARKET NETWORK

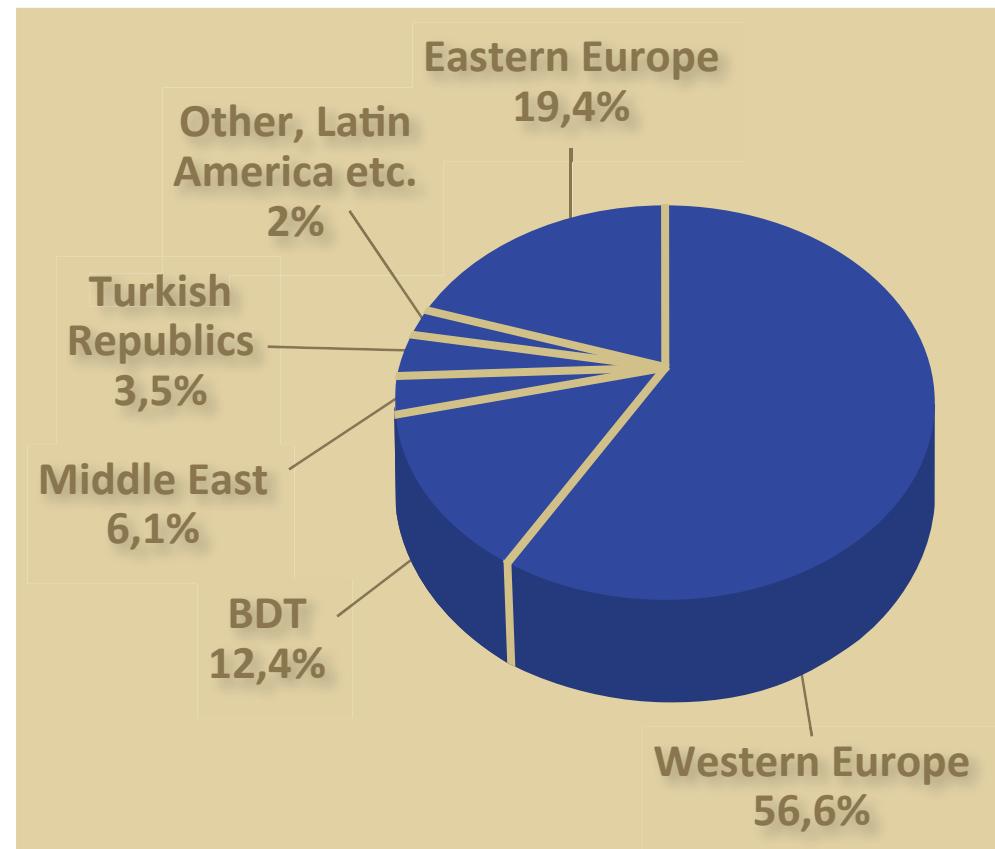


EXPORT

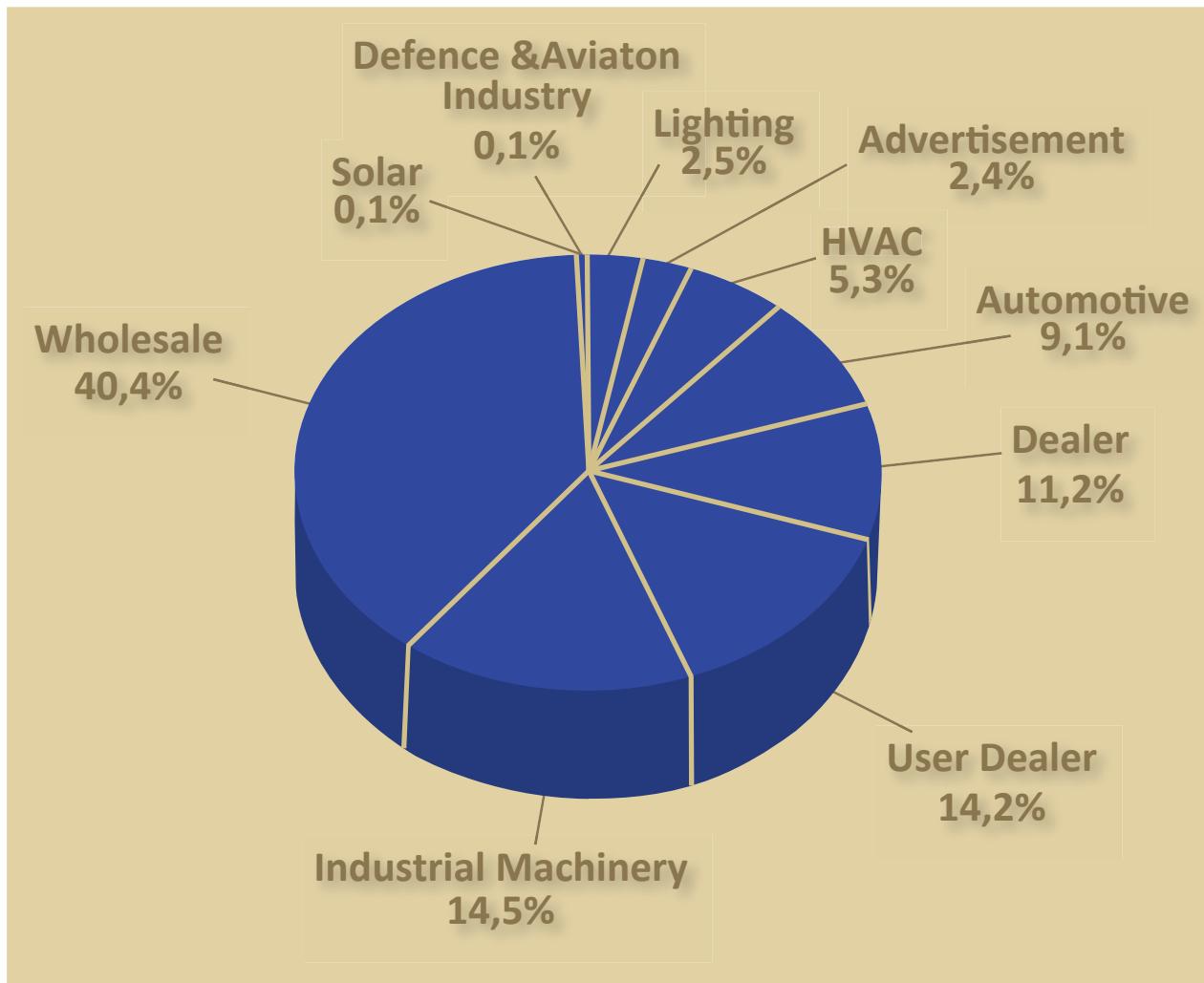
**BREAKDOWN BY SALES NETWORK
(2013)**



**BREAKDOWN BY REGIONS
(2013)**



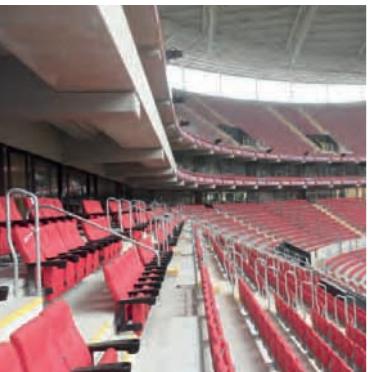
CUSTOMER PORTFOLIO



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Exen



Otoport



Hatay Airport



Kayseri Airport



Ankara Pınar College



Ministry of Agriculture
and Rural Affairs



Çanakkale 18 Mart
University



Nish Adalar



Council of State
Building



Hacettepe Hospital



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alu-line
Mimari Sistemler

alu-line**bond**

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