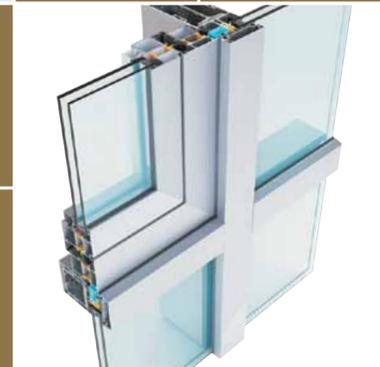
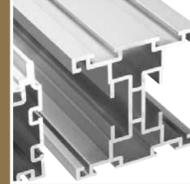




 ***burak***
alüminyum

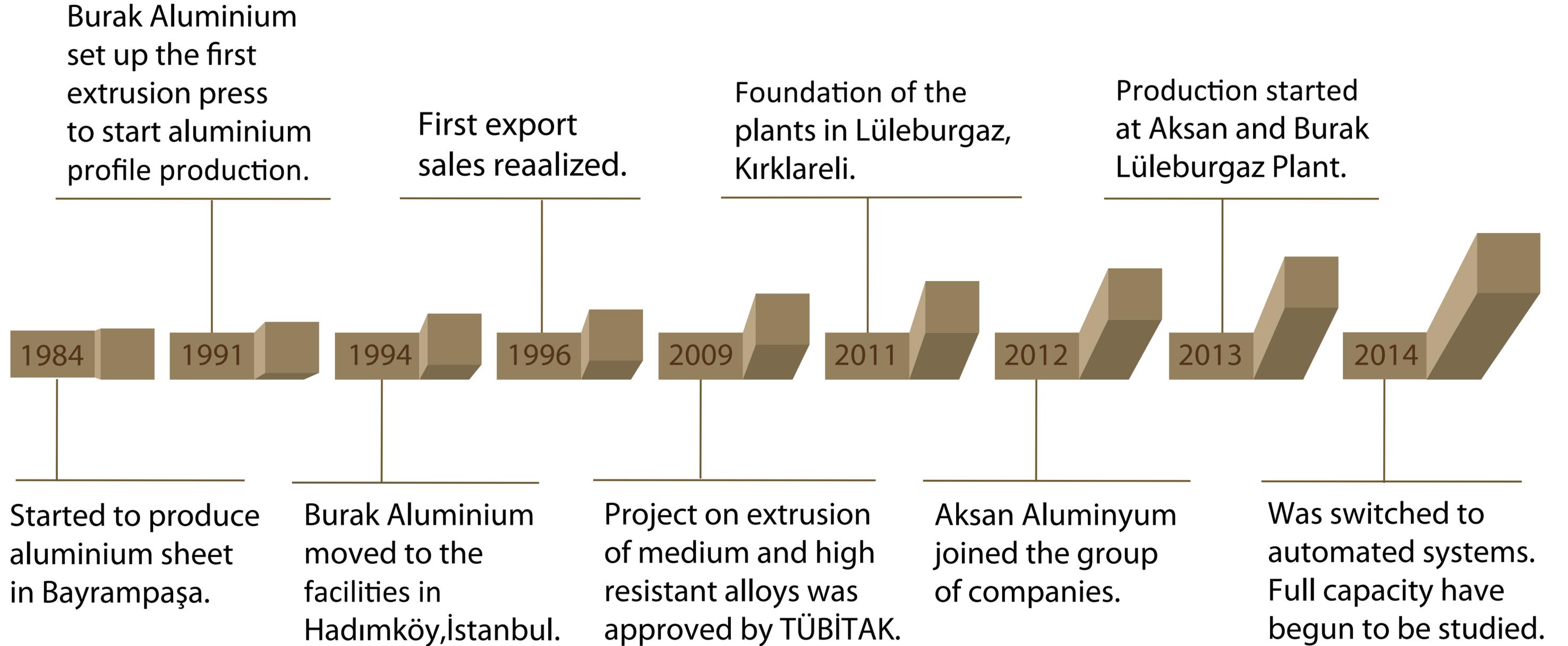
"in every aspect of life"

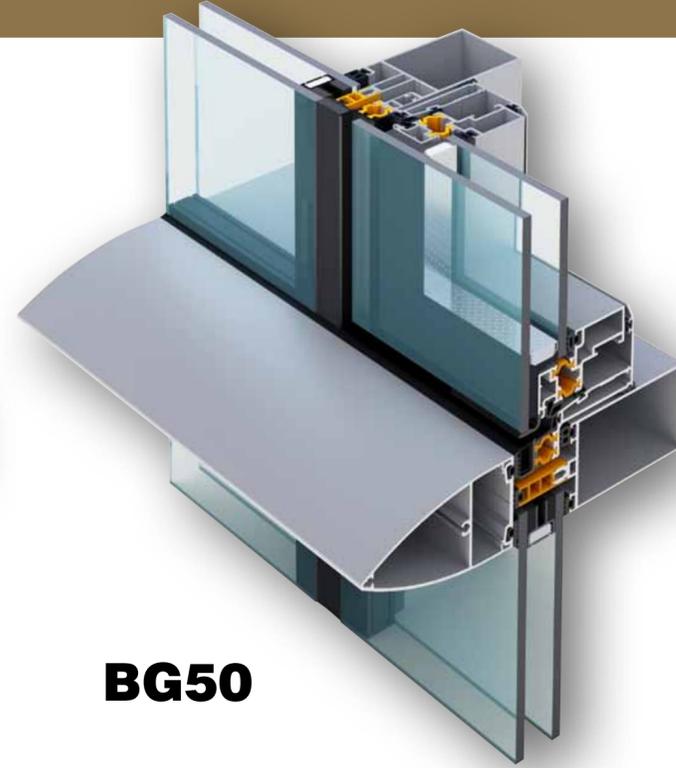
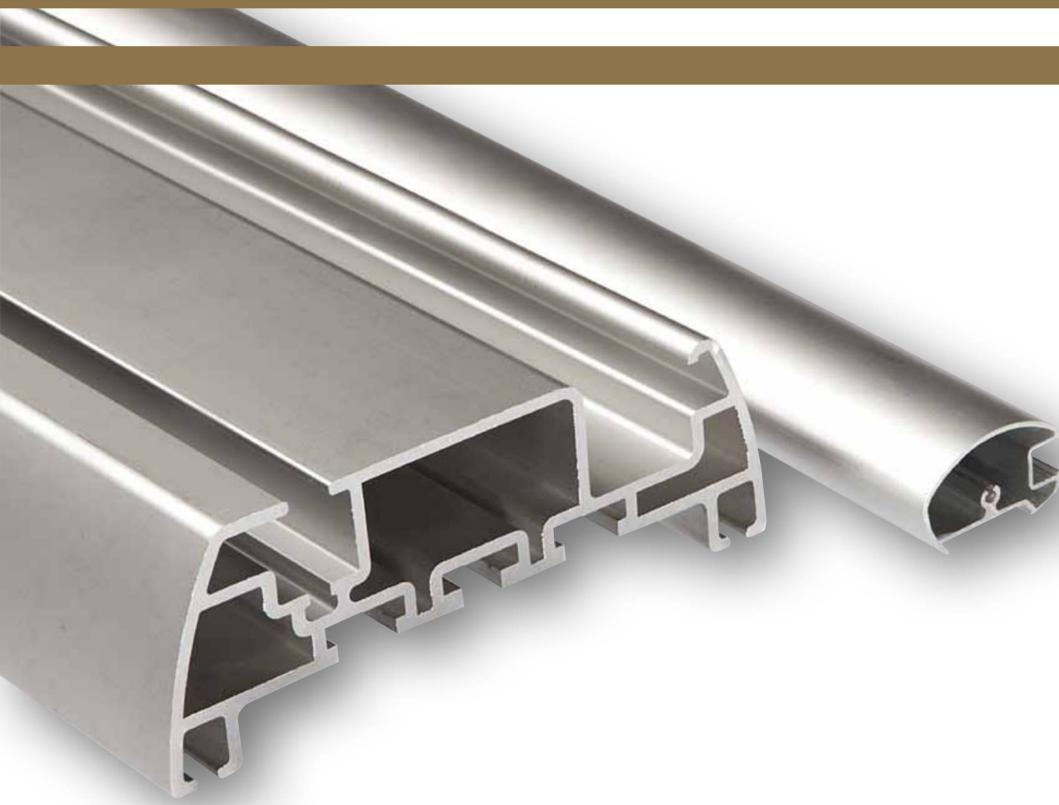
“in every aspect of life”



 **burak**
alüminyum

HISTORY





BG50



BM55



BS66

FIELDS OF ACTIVITY

Burak Alüminyum Industrial:

Burak Alüminyum also performs special alloy aluminium profile extrusion besides standard alloy extrusion. Beside of serving manufacture industries such as automotive, aviation, heating-cooling, furniture promotions and rail systems which needs qualified design from A to Z. Burak also provide 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. Besides 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 50 countries.



FACILITY

Indoor	65,000 sqm
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

- To extrude profile with the best mechanical 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 manufacture high quality billets through the homogenization heat treatment applied post casting.

- Burak also uses 1st quality aluminium billets from **HYDRO**.
- 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.

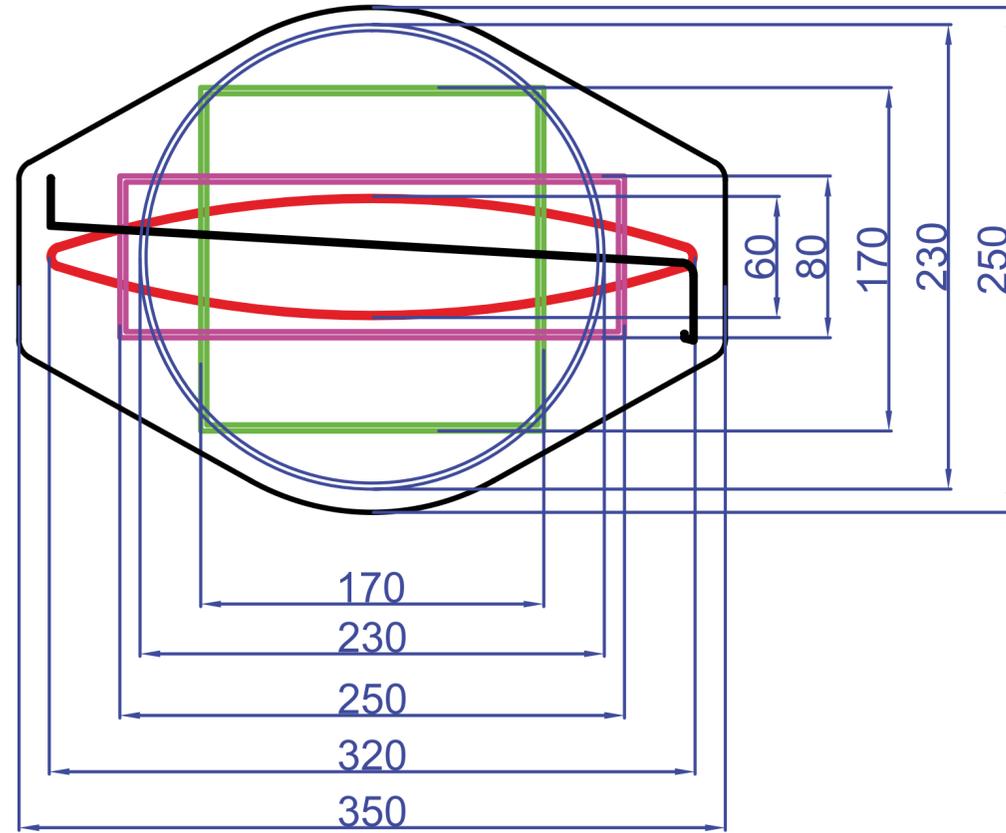


200 pcs/month die capacity

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



○ □ ⇒ Thickness Min: 3 mm



Alloys can be produced:
6063, 6082, 6061, 1050, 1070,
5754, 6005

Produced in hardness

Profiles:

F13, F18, F22, F25, F27

Recoverable profile size:

Anodizing: 8.70 m

Paint: 10 m

Press: 12 m



EXTRUSION

Burak Alüminyum has the opportunity to manufacture wide variety of profiles, thanks to our total of advanced PLC controlled extrusion press lines, namely, **3 x 1,400, 3 x 2,000, 1 each 2,250 and 2,750 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

Line	Power	Dimension	Brand	Annual Capacity
Press 1	1400 tons	6 inches	Domestic	3600 Tons/Year
Press 2	1400 tons	6 inches	Domestic	3600 Tons/Year
Press 3	1400 tons	6 inches	Tecalex	3600 Tons/Year
Press 4	2000 tons	7 inches	Domestic	3600 Tons/Year
Press 5	2000 tons	7 inches	Lindemann	5400 Tons/Year
Press 6	2000 tons	7 inches	Presezzi	5400 Tons/Year
Press 7	2250 tons	8 inches	Farell	6000 Tons/Year
Press 8	2750 tons	8 inches	Presezzi	9600 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.



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 anodisation capacity per year thanks to **3 x 25,000 A**, **4 x 10,000 A** flow capacity rectifier anodic baths and **3x 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 **8.70 meters profile** 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 sand 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 **Tribo 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 pallets within the framework of national and international standards and it provides custom size palets which are 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 Scaffoldings
- 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

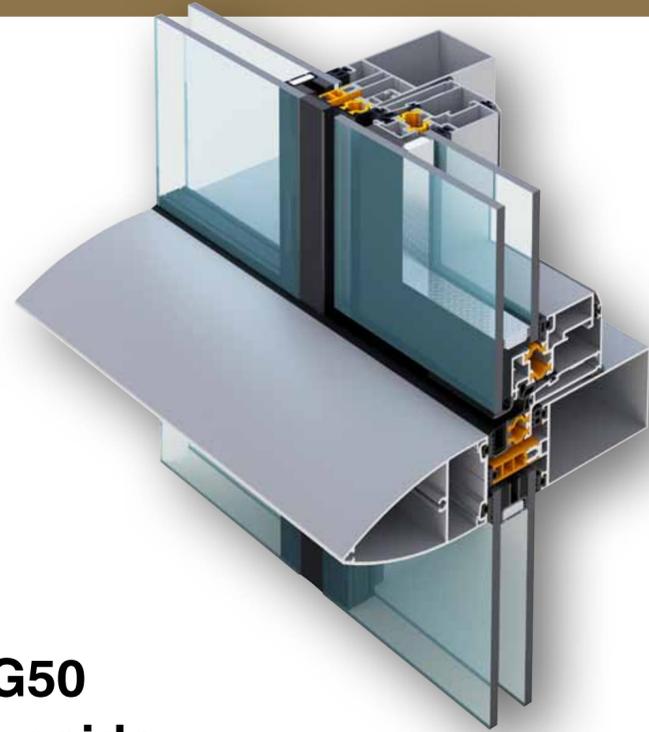
- Wardrobes
- Tables and Tripods
- Cupboards
- Chairs
- Furniture handles and accessories

PROFILES FOR VARIOUS APPLICATIONS

- Exhibition Stands
- Showcases
- Display Units
- Hospital Equipments
- Signboards
- Lightning Equipments
- Machinery Basements and Frames
- Conveyors
- Aquariums
- Solariums
- Swimming Pool Covers and Protections
- Mail Boxes
- Home Appliance

STANDARD

- Angles
- Tubes
- Plates
- Rods, etc



BG50
Twoside

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.



AG50

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.

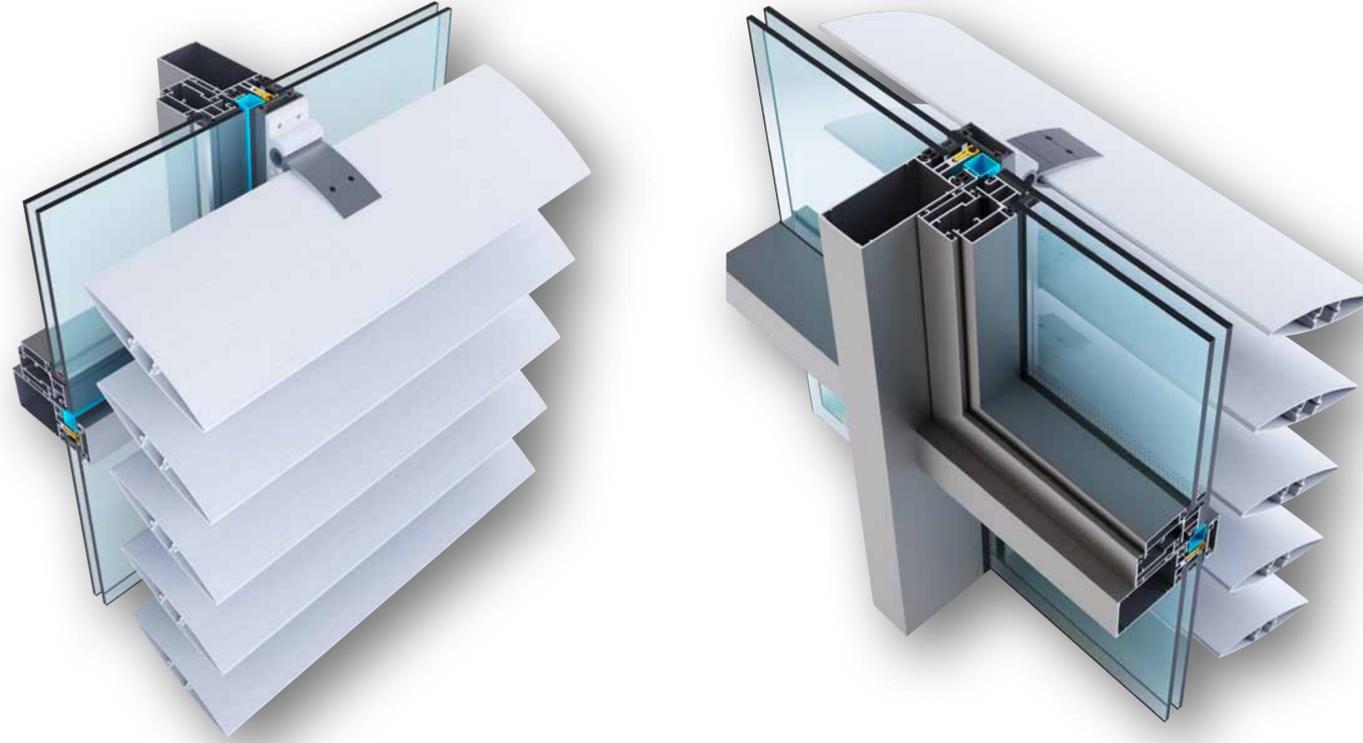


AL68

Steel-reinforced Facade

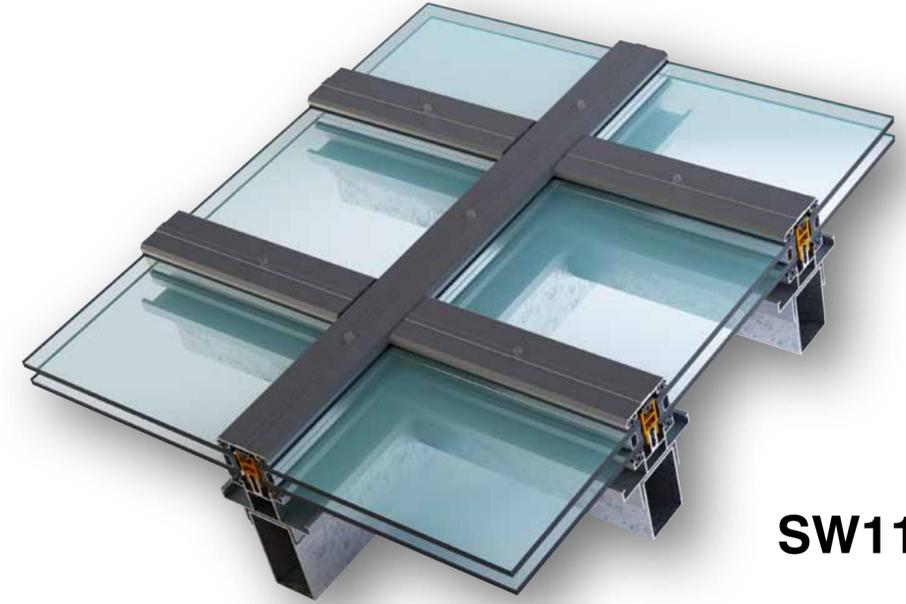
The static values of aluminium cannot bear above a certain height. In this case, a facade is created through this system which is assembled on steel columns. This system is suitable for highrise buildings with steel construction.

FACADE SYSTEMS



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.



SW11

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.

ES45



EY45



BM55



DOOR AND WINDOW SYSTEMS

ES45: 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 be applied in wet ground ventilation windows.

EY45: It is commonly used in public housing projects, schools and government offices. This is economical version of thermally insulated window-door system.

BM55: BM-55 can be applied insulated and uninsulated and it was designed by economical for large application area. It presents maximum transparent area on the frame vision through its frame depth is 55mm and its narrow frontal width. So it can be preferred at internal areas of buildings through aesthetic design. It is proper much at residences through thermal insulation and easy manufacturing.

S58



S58: 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 malls, S-58 was promoted by reinforced frame profiles to provide maximum visual space and designed to be applied all in large opening.

Y58



Y58: Being the most preferred insulated joinery systems among alu-line architecture systems, 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.

Y65



Y70



BM72



Y65: 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. It is also a system which has overcome the manufacturer's problem of creating large glazings.

Y70: 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 to reach maximum heat and sound insulation.

BM72: BM-72 hinged window and door system is designed by Burak Aluminium R&D Department. Specifications of thermal and impermeability were raised to top level. Operation space distances of the system was set optimum level so air circulation gets hard and unsteady air motion that occurred in the frame is raised to thermal insulation. So this reason BM-72 has

28mm thermal brake bar, but it has the same performance level of its competitors with 34mm thermal brake bar. Air, water, wind and acoustic insulation values are on the top level of a hinged window and door system that will be able to reach. BM-72 of application options are variable. It can be applied stepped and flush doors, tilt and sliding, folding doors and windows, tilt and turn windows and hidden vent application.

BS66



S2000



SLIDING SYSTEMS

BS66: BS-66 can be preferred as insulated and uninsulated that has the same accessories. Clamp width is 4 cm and so it guaranteed large vision and comfortable internal area. Even though its narrow clamp width it can be applied easily up to 3 meters height. Profile wall thickness is designed economical as 1,4 mm. Important advantages are 90° corner connection method and designed without galzing bead. You can applicate insulating glass up to 24mm and recessed or cremone handles are used in BS-66 that is proper to use with

special designed punching machines. BS-66 stands out with it does not need 45° corner press machine.

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 shut in the commercial buildings.

S3000



S4000



S5000



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 openings with its special mechanism, it increases the movement capability of the sashes and enables them

to be easily opened and shut. The mechanism’s ability to lock the sash in a desired distance, both allows to ventilate the room in a natural way by leaving the door halfway open and disables toddlers to go out. It can also be applied as a classical sliding system.

S5000 Hebe Schiebe (Light weight) : The same operating system with our S4000 series, it makes the system advantageous in economic 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.



61%

Facade Systems
Doors and Windows Systems
Sliding Systems
Balustrade Systems
Aluminium Composite Panels



39%

Standard Profiles
Special Profiles

MARKET NETWORK



REFERENCES



Batı Şehir İstanbul



London Airport



Istanbul Airport



SMK Tower Ankara



Hatay Airport



Central Courtyard Ankara



SKY Tower /Ukraine



Ministry Of Agriculture Turkey



İŞ GYO / Tuzla



Torunlar Tower



Pelit Hotel Ankara



Hacettepe Hospital





HEDEF 2023



Discover
the potential



alu-line bond

BURAKBOND®



Ankara Ofis / Ankara Office

Karpuzlu 2. Caddesi

No: 107 Siteler, 06660

Ankara / Türkiye

Tel : +90 (312) 348 37 32 - 348 42 72

Fax : +90 (312) 348 88 56

Fabrika / Factory

Uğurlu Dere Mevkii Muratlı Yolu üzeri

Büyükkarıştıran / Lüleburgaz

3. Km, 39780 Kırklareli / Türkiye

Tel : +90 444 37 40

Fax: +90 (288) 436 13 63

Kartal Mağaza / Kartal Store Esentepe

Mah. Fahri Korutürk Cad. Hicret Çıkmazı No:

4 Kartal İstanbul / Türkiye

Tel-Fax : +90 (216) 353 55 11

www.burak.com.tr

“in every aspect of life”

