REFERENCES


Hawassa University Campus Project / ETHIOPIA


State Hospital / BATMAN


Ostim Project / ANKARA


Hawassa University Campus Project / ETHIOPIA


State Hospital / MANISA


State Hospital / CORUM


Batman State Hospital Project

burak alüminyum

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ARCHITECTURAL SYSTEMS

BM55

Insulated & Non-Insulated Hinged System

- **System Brochure**
  - Technical Properties
  - System Details
  - References

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History

It founded its first extrusion line in 1991 to produce aluminium profiles. In 1995, electrostatic powder coating unit and foundry was opened. Burak 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.
Developing of architectural aluminium building systems was commenced 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 Luleburgaz plant was completed between 2003 and 2008. The foundation of Luleburgaz plant was completed in 2011. Aksan Aluminium; that is the first extrusion company joined the group in 2012. In 2013, total 85,000 sqm Luleburgaz plant with 65,000 sqm indoor space was completed and set into operation with 6 extrusion lines.

Product

Burak Alüminyum Industrial:
Burak Aluminyum 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. 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 more than 70 countries.

PRODUCT CONCEPT

BM 55 "Burak Menteseli 55mm" is the new generation hinged system that presents all variations for door and window solutions together with high insulation and high impermeability performances.

PERFORMANCE
Hinged systems are prefered particularly in houses. Performance of hinged systems that covered as a shield and keeping from forced conditions of out environment is more important than the other systems. With development of technology, minimum enough comfort requirements of houses rise day by day and design offices have to develop economical and high performance products. BM 55 has even high impermeability values of air-water-wind , and too it has high acoustic performance. So through these facilities of BM 55, it performs fact thoroughly that "maximum comfort at living area".

ENERGY SAVING
Subjects of environment sensitivity and energy saving become important day by day. For this reason thermal insulation specifications was become on high level in BM 55. Even though Aluminium is cold material, it can be transformed reasonably insulator with developing material variability,design methods and new technologies. BM 55 is designed by focused performance according to actual requirements.

EASE OF MANUFACTURING
Accessories of BM 55 was designed as logic of collective and harmonious with each other. So BM 55 has unique construction by ease of manufaturing.

IMPROVABILITY
BM 55 was designed as smoothly developable system concept. In this way adaptation of new system solutions can be done quickly.

ECONOMICAL HINGED SYSTEM

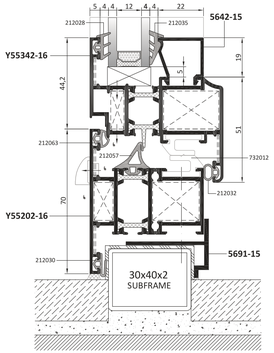
TECHNICAL PROPERTIES

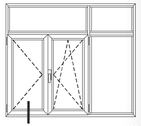
Frame Depths:	**55 mm**
Sash Depths:	**64,5 mm**
Profile Wall Thickness:	**1,6 mm - 2 mm**
Max. Glass Thickness:	**40 mm**
Insulation Bars:	**15 mm**
Thermal Insulation Value (Uf):	**2,57 W/m²K - 3,45 W/m²K**

APPLICATION ALTERNATIVES

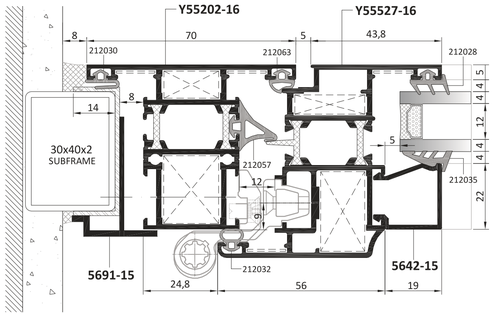
	Window	Door
Inward Openning:	●	●
Outside Openning:		●
lush Door:		●
Tilt & Turn:	●	●
Tilt & Slide:	●	●
Folding:		●
Pivot:	●	
Bottom Hung:	●	

INSULATED SYSTEM DETAILS



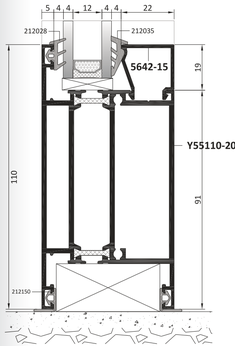


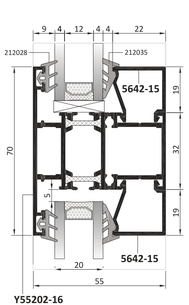
INSULATED SYSTEM DETAILS

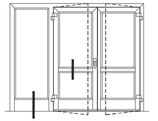


**** PVC TILT&TURN ACCESSORY APPROPRIATED WINDOW DETAIL**

INSULATED SYSTEM DETAILS







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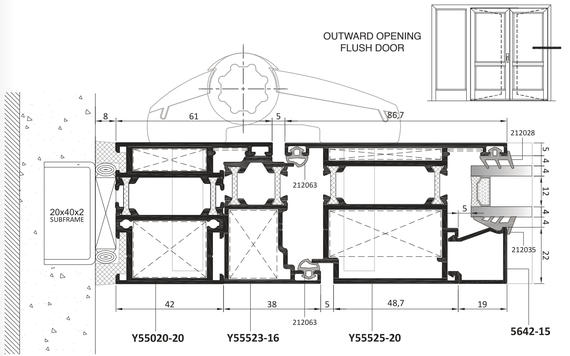

TECHNICAL PROPERTIES

Our aluminium profile production facility has ISO 9001, ISO 14001, ISO 18001 quality assurance certificates.

1- Raw Material : AA 6063 (AlMgSi 0.5 F22), **EN 573-3**

2- Mechanical Properties : EN 755-2
Elasticity Modul : 7000 kN/cm2
Yield Strenght : 215 N/mm2
Flow Strenght : 160 N/mm2
Elongation : minimum 6 %
Hardness : 70 HRB

3- Barrier Raw Material
a-PA 66 GF 25: 25% the manufactured from glass stiffened polyamid :
Placed into the aluminium profiles **before** anodic oxidation and powder coating.
b- PVC : Placed into the aluminium profiles **after** anodic oxidation and powder coating.
PVC insulation bars are 10 % heavier than Polyamid insulation bars .

4- Anodic Oxidation
The Standarts of Technical Delivery Terms Regarding Eloxal Products: **DIN 17611, EN 12371-1 (QUALANOD)**
Thickness of Eloxal Coating : 10-15 mikron, **EN ISO 2360**
The Standarts of Immersion Coloring : **DIN 50018**
Sealing Standarts : **EN 12373-5, ISO 3210 (TS 2676)**

5- The Standarts of Powder Coating
Thickness : min. 60 micron
Adhesion : **EN ISO 2409**
Elasticity : **EN ISO 1519**
Deformation : **EN ISO 6272-1**
Hardness : **EN ISO 2815**

6- Surface Appearance :
By visual observation, there has been no defects seen on the surface, such as stratches cramped shapes, swellings, stain etc. on the exposed areas.

7- All gaskets
Raw material : EPDM
Raw material of Gaskets for suture : Silicone
Measurement Tolerances Standarts : **DIN ISO 3302-1/E2**
Quality Control Standart : **RAL-GZ 716**

8- Measurement Tolerances Standarts for Profile Design and Manufacturing : EN 12020-2, EN 755-9