



**uPVC and Aluminium
Joinery Systems**



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ASAŞ

With a steady growth trend since its establishment in 1990, ASAŞ is one of the leading manufacturers in Europe, exporting to more than 90 countries in 6 continents. The company serves its customers in the field of **Aluminium Profile, Aluminium Composite Panel, Aluminium Flat Products, uPVC Profile and Roller Shutter Production Facilities**, established on 400.000 m² closed complex in a total area of 1.000.000 m² factory in Turkey.

ASAŞ, while offers solution partnerships to many sectors such as;

- Construction
- Automotive
- Rail Systems
- Commercial Vehicles
- Aerospace Industry
- Energy
- Packaging
- Consumer Products
- Maritime Industries

The company aimed to provide fast and solution-oriented service especially to the European market with ASAŞ GmbH, which was established in 2018 in Koblenz, adjacent to Neuwied region in Germany. With the establishment of subsidiary, which is positioned as a logistics and service center in an area of 880.000 m², of which 72,793 m² is closed, the European activities of the company continue with a rapid growth.

Video





ASAŞ and SUSTAINABILITY

Our main goal is to add value to our stakeholders and lead our target markets by creating innovative solutions with our expertise and technological capabilities, starting from raw material supply to the last stage of production.

Our Sustainability Policy

We have created our sustainability strategy by evaluating our company’s environmental, social and economic impact areas, our stakeholders’ expectations and corporate strategic planning together with global goals.

Annual Sustainability Reports, in which we explain our corporate goals and sustainability performances, are shared with all our stakeholders. As ASAŞ, in our journey towards sustainability, we aim for value-driven, trustworthy, and sustainable growth through our adopted Sustainability Policy and strategic goals to achieve our vision.

We have built our sustainability approach on 4 fundamental principles with the motto.



Collaborative Business Approach
Collaborative and ethical business approach which adds value to the stakeholders




Reliable Business Approach
Reliable business approach which prioritizes the occupational health and ergonomics




Environment-friendly Business Approach
Environment-friendly and innovative production approach which reduces the carbon footprint




Sustainable Development-focused Business Approach
Global development approach which supports the economic and social development




Product-based EPD (Environmental Product Declaration) Certification

We will ensure that EPD certificates are obtained for the product types determined for Aluminum Profiles, Aluminum Flat Products, PVC and Roller Shutter business centers.




ISO 14064 Standard for Verification of Greenhouse Gas Emissions

We will perform and verify our Corporate Carbon Footprint calculations within the scope of ISO 14064, and we will carry out all documentation regarding this process.



ASI (Aluminium Stewardship Initiative) Certification

We have obtained ASI certification covers crucial aspects such as environmental performance, social responsibility, business integrity, and chain of custody and refers to a globally recognized program for aluminium products that adhere to sustainable and responsible practices throughout their entire lifecycle.



Green Energy

We continue our efforts to leverage clean energy sources in parallel with the establishment of Carbon Market conditions, as a part of Green Energy.



Recycling

%59 Recycled material (our materials) usage rate in Aluminium Profile Factory in 2023. We are continuing our efforts towards further increasing that ratio for this year and the coming years.



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uPVC and ALUMINIUM PROFILES



Energy Efficiency

All ASAŞ products yield very high thermal and weather insulation through insulated and watertight frames, double and triple glazing options, center gasket, and Low-E, Solar Low-E glass solutions.



Thermal Insulation

ASAŞ PVC windows and doors systems provide up to 0.78 W/m²K thermal insulation value.



Acoustic Insulation

ASAŞ PVC windows and doors systems provide up to 42 (-1 ; -3) dB acoustic insulation value.



Wide Colour Range

Personalise your window and door thanks to a wide range of colour and surface aspect options.



Performance

Our materials are resistant to the weather conditions, chemical decomposition, corrosion, shock and abrasion through long years of extrusion experience and R&D.



Years of Experience

Since 1990, our products are manufactured only with the highest quality standards.



Own Profile Extrusion and In-House Roller-Shutter Production

Our windows and doors are produced with our extrusion profiles. Also we produce roller-shutter boxes, slats, profiles and accessories in our plant.



In-house Testing

Our R&D continues to work with in-house tests and simulation capabilities for aluminum profiles, pvc profiles, roller shutter systems and aluminum flat products. For aluminum products wind load resistance tests, rainwater tightness tests, and air tightness tests are conducted in our testing facility following European and international standards.



Fully Integrated Production

Fully integrated production starting from raw material to the finished product ensuring an end-to-end quality standard.



Logistic Center in Germany

Variety of route-to-market options through ASAŞ logistics and service center in Neuwied, Germany.

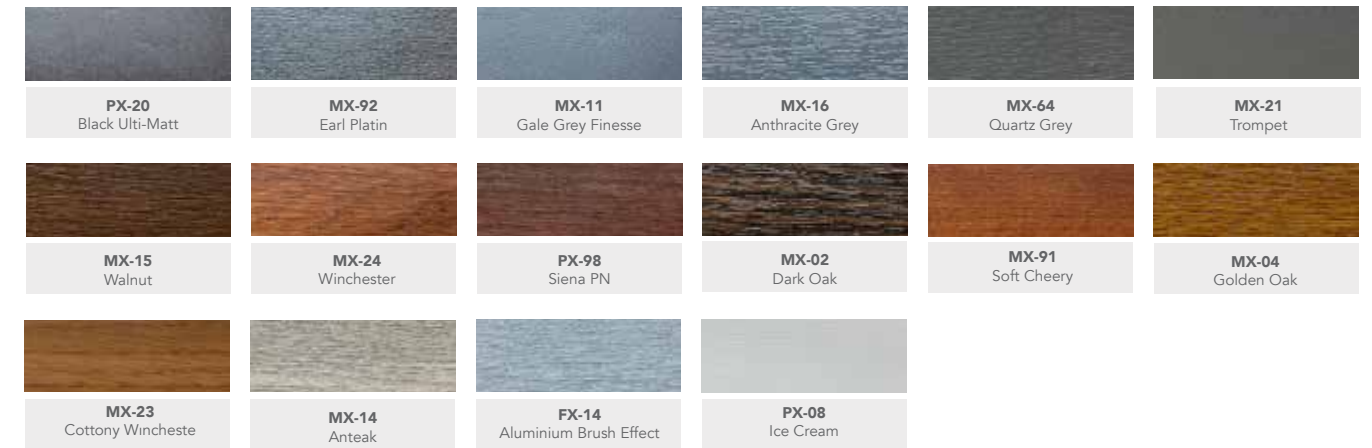


WIDE COLOUR RANGE

Personalise your window and doors

ASAŞ offers a wide range of color options, which are updated every year with new colour trends, allowing homeowners to create the perfect color scheme for their homes. In addition to providing high-quality, durable uPVC and Aluminium profiles, we also offer the opportunity to incorporate them as a design feature. Our color collections provide a diverse selection of colors and finishes, catering to the unique aesthetic preferences of each homeowner.

ASAŞ offers different color and surface options suitable for various climate conditions for uPVC windows and doors.



Elevate your living spaces with our exquisite aluminum doors and windows, adorned in a wide range of vibrant colors and captivating surface effects through anodizing and vertical electrostatic powder coating methods.

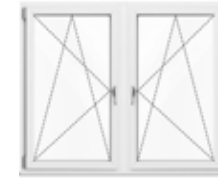


All RAL colours can be applied along with the colors above. Colours may vary in digital media. Please check with the original sample.



From traditional character to contemporary beauty

At ASAŞ we take pride in our expertise in manufacturing top-quality aluminum and uPVC windows & doors, catering to a wide range of requirements for various openings. Whether you're looking to revamp your residential spaces or elevate your commercial establishments, our diverse options are designed to meet your specific needs.



Tilt and Turn Windows

Tilt and turn windows are a modern and versatile option for homes. Their unique design enables them to open in two ways, providing excellent ventilation and easy cleaning. They are known for their energy efficiency and sound insulation, keeping the interior comfortable and quiet. Additionally, these windows offer enhanced security with tight seals when closed and multi-point locking systems, making them a preferred choice for safety-conscious homeowners.



Casement Windows

A casement window is a type of window that is hinged at side or top, opening either inward or outward. These windows are often used in homes and buildings. They offer good insulation and tight seal when closed, making them energy-efficient and secure.



French Opening Windows and Doors

French opening windows and doors consist of two double-paned units positioned on a single side of the frames, the vertical center section is not fixed and opens entirely, allowing for unobstructed views. It offers ventilation, customizable glass for energy efficiency, and security features. French opening windows are a good solution for fire exit usage. French doors adding a touch of sophistication to homes and commercial spaces.



Folding Windows and Doors

Folding windows and doors feature multiple hinged panels that fold and stack when opened, creating a seamless transition between indoor and outdoor spaces. The folding mechanism offers flexibility, allowing controlled ventilation when partially opened and a spacious open area for gatherings. Additionally, they provide energy efficiency and insulation properties. With high-quality locking systems, these windows and doors ensure the security of your home.



Sliding Windows and Doors

Sliding windows and doors offer convenience, space-saving benefits, and a modern aesthetic. With horizontal panels that slide along tracks, they provide excellent ventilation and seamless access to indoor and outdoor areas. Their user-friendly design, customization options, and features like double glazing enhance energy efficiency and sound insulation, making them practical and stylish choices for connecting spaces.



Inova New Generation Sliding System

In addition to its high insulation values and long-lasting durability, the Inova new generation insulated sliding system is designed to offer superior thermal insulation, sealing performance, and watertightness, resulting in both environmental and economical sustainability. This the system with the best insulation value among the existing sliding systems, with the performance tests carried out in the Ift Rosenhaim Germany-approved test laboratory. Furthermore, its innovative design creates a more spacious living environment and delivers extra security.



Top-Hung Awning Windows

A top-hung awning window is a type of window that is hinged at the top and opens outward from the bottom. When the window is opened, the bottom edge of the window swings away from the frame, resembling the shape of an awning. This design allows the window to be partially opened while still providing protection from rain or other elements.



Shaped / Arched Windows (Only For uPVC)

Shaped/Arched windows, also called specialty or custom windows, add unique and eye-catching elements to a home's architecture. With unconventional shapes and creative design options, they enhance aesthetic appeal and offer artistic expression. These windows maximize natural light, provide views, and deliver energy efficiency, making them an excellent choice for both new construction and renovation projects.





SAFETY and SECURITY MEETS with AESTHETICS

Safety and security meets with aesthetics

ASAŞ windows and doors offer enhanced security with high-quality locking mechanisms and glass options. These products are designed to accommodate the latest high security systems and can be further equipped with additional safety features.

RC1, RC2, and RC3 Safety Standards

The RC1, RC2, and RC3 safety standards are part of the European standard which defines the resistance to burglary for windows, doors, curtain walling, grilles, and shutters. These standards are used to classify the security level of these building elements based on their ability to resist unauthorized access attempts.

RC1 offers protection against inexperienced intruders and is suitable for windows and doors in places with a low risk of burglary.

RC2 protects against occasional intruders and is a commonly chosen security option for windows and doors in places with an average risk of burglary.

RC3 offers significant protection against skilled intruders and is designed to withstand additional heavy-duty burglary tools. These security levels windows and doors are widely used for premises with a high risk of burglary.



Bonding is mandatory →

SECURITY ACCESSORIES



Misoperation Mechanism

The mechanism is a feature that promotes safer utilization of the window and door system, preventing potential accidents by restricting open doors or windows from tilting. The mechanism provides a reliable and secure solution.



Mushroom Locking

Installed on windows to improve security, the locking system includes bolts that extend from the top and bottom. These bolts securely fit into keeps located on the outer frame. The locking cam variants are available.



Tilt First Window

Thanks to the tilt-first opening technology, the window sash locks in the tilt position when the handle is in a horizontal position. The window handle can only be rotated upwards using the handle key. Offers extra security especially for children.



Lockable Handles

They are designed to enhance security of the window and prevent unauthorized access. They come with a key. Besides its locking mechanism at tilt first window, the window handle can only be rotated upwards using the handle key. Offers extra security especially for children.



Restriction Hinges

Restriction hinges on outward or inward opening windows limit the possible opening angle on one hand, while allowing the sash to remain open at any desired angle on the other hand. This ensures that the hinges enable the window sash to move continuously and in a controlled manner. Restrictors used in aluminum and PVC windows come in different types to control the opening distance of the window and provide security at high altitudes.



Security Strikers

Security strikers in windows are hardware components that reinforce the locking mechanism of the window, providing enhanced security against forced entry. When the window is closed and locked, the locking points engage with the security striker, creating a secure connection between the window and the frame. Their purpose is to resist tampering and make it more difficult for intruders to force open the window, contributing to a safe and secure environment.



Lever-Operated Espagnolette

The operation of the product is simple and convenient. It ensures uniform positioning of the strikers in both the active and passive sashes by utilizing synchronous movement of the connecting rod and lever. Additionally, the risk of injury is reduced as the lever does not protrude in the opening position, nearly reaching 180°.



Tilt Safe Window

With Tilt Safe windows, Smooth ventilation and a more peaceful sleep. Thanks to three identical steel security counterparts (security locking pins and lockable handle), protection against theft in tilt position according to RC2 security standards. Tilt opening for high air circulation. It covers RC3 security standards when it fully closed.

For energy efficient and insulated places

At ASAŞ we take immense pride in being a leading manufacturer of top-quality aluminum and uPVC windows, offering a vast array of glazing options to transform your spaces. Our commitment to excellence and innovation allows us to cater to your specific needs, delivering windows that combine style, functionality, and energy efficiency.



Low-E Glass

Low-E Glass offers thermal control, energy efficiency, and reduced heating expenses while maintaining natural daylight and transparency. It addresses safety requirements in line with architectural trends, minimizing the risk of injury by breaking into non-sharp pieces. Moreover reduces condensation, maximizes solar heat benefits, and eliminates cold and hot spots near windows.available.



Solar Low-E Glass

Solar low-emissivity (low-E) glass is a coated glass that enhances energy efficiency by blocking infrared and ultraviolet radiation while allowing visible light to pass through. It reduces heat gain, protects against fading, and improves thermal insulation. This glass is commonly used in windows, doors, and façades to create a comfortable indoor environment, reduce energy consumption, and provide solar control tailored to specific climate needs.



Tempered Glass

Tempered glass is a strong and durable safety glass created through a thermal tempering process. When broken, it shatters into small granular pieces, minimizing the risk of injury from sharp shards. Commonly used in car windows, shower doors, and architectural panels, it is an essential choice for applications where safety is a priority. Once tempered, the glass cannot be altered or cut without breaking.

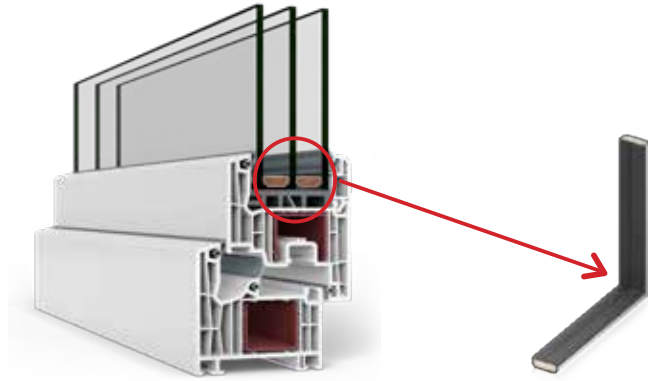


Laminated Glass

Laminated glass, a specialized safety glass, offers numerous benefits such as injury risk reduction, retained integrity when broken, protection against vandalism and burglaries, noise reduction, UV blocking, and energy-saving advantages. Composed of bonded layers with an interlayer, it provides enhanced safety, security, sound insulation, and UV protection. This versatile material finds applications in construction, automotive, and various industries.

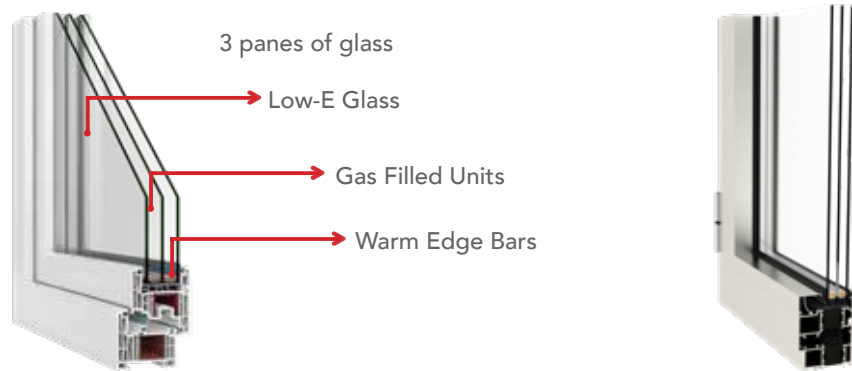
Warm Edge

Warm edge in windows refers to highly insulating spacers used in double or triple glazed windows. Compared to traditional aluminum spacer bars, warm edge spacers reduce heat loss, improve thermal insulation, and minimize condensation. This results in enhanced energy efficiency, increased comfort, lower heating costs, and a more eco-friendly living environment.



Multiple Glazing

Multiple glazing consists of three layers of glass separated by two insulating spaces, providing enhanced thermal insulation and energy efficiency compared to standard double-glazed windows. It reduces heat transfer, improves sound insulation, and creates a more comfortable indoor environment. Multiple glazing is especially beneficial in colder climates, as it minimizes heat loss and contributes to energy savings.



It is possible to install glass up to 50 mm depending on profile series

It is possible to install glass up to 58 mm depending on profile series

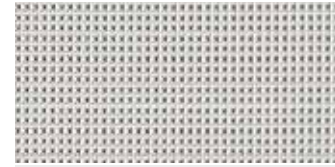




PATTERNED and SATINATED GLASS OPTIONS

Add style your privacy

Wide patterned, satine glass and grid window options offer privacy and style throughout your place.



Point



Stone



Rain



Satine



Bud



Mattnile



Square



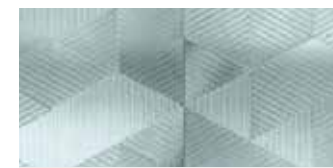
Line



Crystal



Tulle



Puzzle



Mandarin



Nature



Honeycomb



Pine



Knot



INSECT SCREEN OPTIONS

Discover our insect screen solutions

Enhance your windows and doors with our premium insect screens. Enjoy fresh air, say goodbye to insect intrusions and hello to a more enjoyable living or working environment.



Horizontal Pleated Insect Screen



Double Horizontal Pleated Insect Screen



Fixed Insect Screen




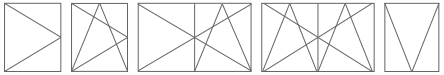


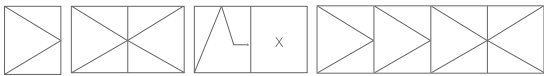







Roll-up Insect Screen

**uPVC Window and
Door Systems**



INOVA 76 mm MIDDLE GASKET

Inova 76 mm System aims to provide maximum heat and sound insulation having 7 chambers, 3 gaskets (with middle gasket) and special glass that has 50 mm width. The system has 76 mm Profile width. By applying heat-insulated aluminium threshold profile, it enables threshold application at a lower height.






Properties		Type of Openings	
 Profile Width (mm)	76	Window	
 Number of Chamber for Frame Profile	7	*Outward opening door sash available	
 Glass Thickness (mm)	24 - 50	Door	
 Thermal Insulation (U_w) W/m ² K	1,4 - 0,78	 Technical Sheet	 Sash 3D
 Air Permeability	Class 4	 Dropper Sash 3D	
 Wind Load Resistance	Class C5/B5		
 Watertightness (Pa)	Class E1500		



ELEGANS 70 mm

To ensure maximum sound and heat insulation with its 5-chambered design, it provides usage opportunity for quality glasses with a thickness of 20, 24, 28, 34 and 40 mm and different lath options. It has a simple appearance by means of its flat lines, and a different design with an inclined and angled water drainage chamber. It provides wall-joinery connection integrity with an aesthetic appearance on the inner surface with the groined case profile. It offers different appearance possibilities with its flat sash and fluted sash applications. It operates in concordance with the screen, louver and shutter systems. By means of its design which makes the water discharge easier, its water tightness is high.

Properties

 Profile Width (mm)	70
 Number of Chamber for Frame Profile	5
 Glass Thickness (mm)	20 - 40
 Air Permeability	Class C5/B5
 Watertightness (Pa)	Class E

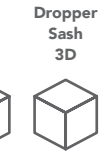
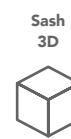
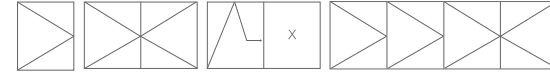
Type of Openings

Window



*Outward opening door sash available

Door



MAXI ROYAL 70 mm

The system has a 70 mm profile depth. Aluminium cover application is possible for an aesthetic appearance on the outer surface. Aluminium covers are designed especially to provide outstanding insulation with PVC profiles. The system also has an outward opening sash profile.

Properties

Profile Width (mm)	76
Number of Chamber for Frame Profile	7
Glass Thickness (mm)	24 - 50
Thermal Insulation (U_w) W/m ² K	1,4 - 0,9
Air Permeability	Class 4
Wind Load Resistance	Class C5/B5
Watertightness (Pa)	Class E

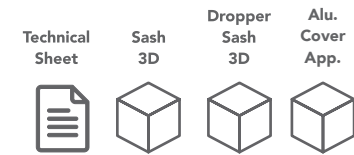
Type of Openings

Window

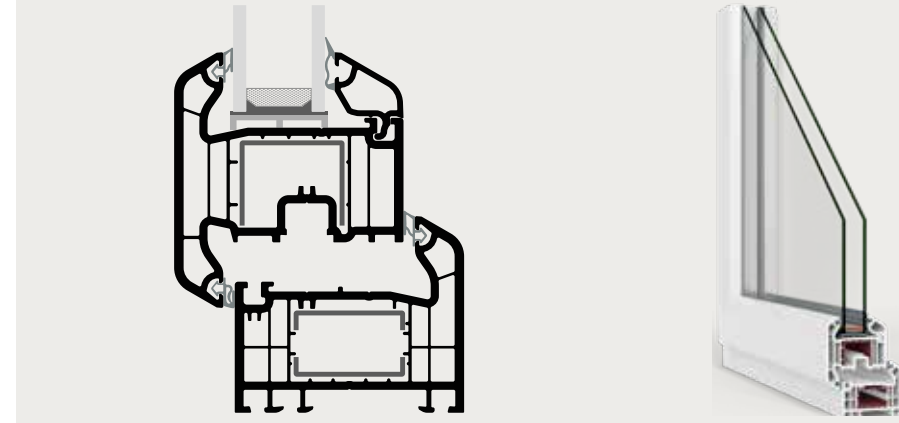
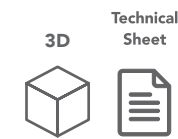


*Outward opening door sash available

Door



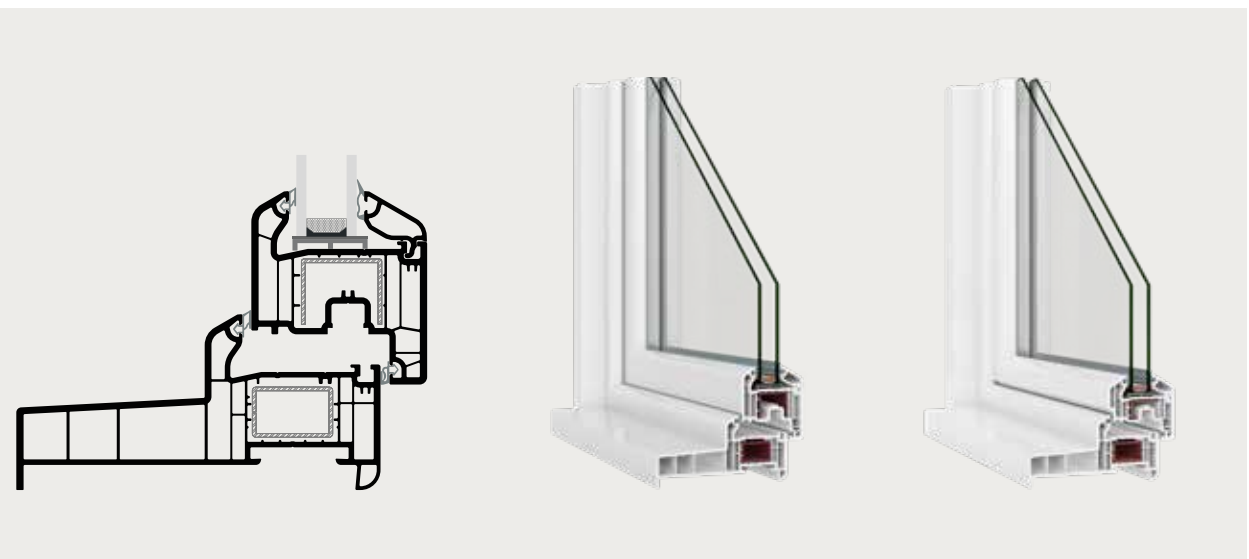
All RAL Colours



MAXI RIVIERA

It has a double sash adaptor for French type balcony applications. Monoblock frame profiles of 105, 125, 145 and 165 mm as well as regular 70 mm where it is possible to attach many auxiliary profiles.

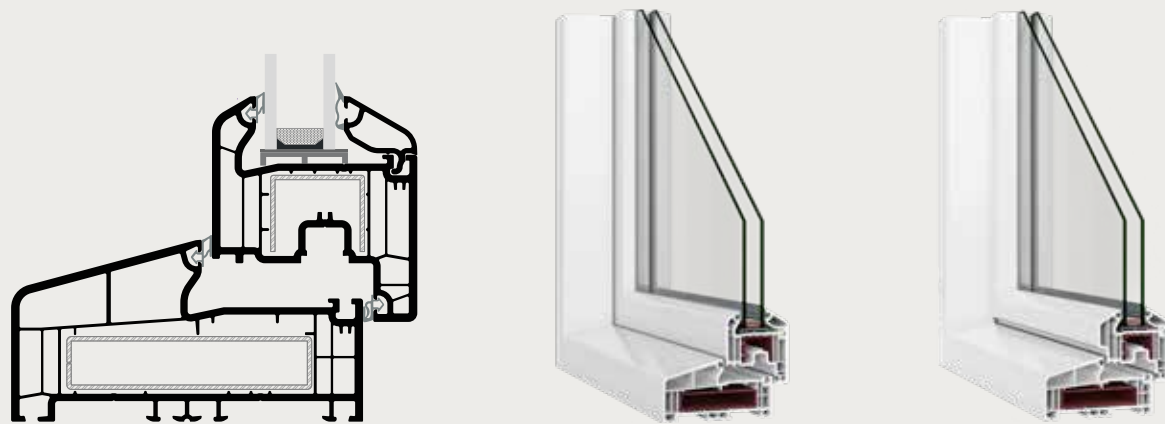
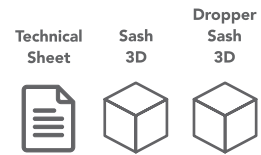
Properties		Type of Openings
Profile Width (mm)	70-105-125-145-165	Window *Outward opening door sash available
Number of Chamber for Frame Profile	5 - 6	Door
Glass Thickness (mm)	4 - 40	
Thermal Insulation (U_w) W/m ² K	1,3 - 0,88	
Air Permeability	Class 4	
Wind Load Resistance	Class C3/B5	
Watertightness (Pa)	Class 8A	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> Technical Sheet </div> <div style="text-align: center;"> Sash 3D </div> <div style="text-align: center;"> Dropper Sash 3D </div> </div>



MAXI EMPIRE

With its 120 mm wide and 5-chamber profiles; It provides insulation performance above expectations in high-rise buildings. It has a non-retentive inclined outer surface.






Properties		Type of Openings
Profile Width (mm)	120	Window
Number of Chamber for Frame Profile	5	*Outward opening door sash available
Glass Thickness (mm)	4 - 40	Door
Thermal Insulation (U_w) W/m ² K	1,4 - 0,9	
Air Permeability	Class 5	
Wind Load Resistance	Class C5/B5	
Watertightness (Pa)	Class E	



LIFT & SLIDE

The lift & slide system redefine spaces with a flat threshold design, effortlessly connecting indoor and outdoor areas. Thanks to its wide application feature provides uninterrupted panoramic views, delivers comfort and expands your living or working space. The lift & slide system which can be applied up to 3000 mm width and 3100 mm height with a maximum accessory weight of 400 kg. Experience the freedom of creating a larger, more open environment that enhances both aesthetics and functionality.

Properties

 Profile Width (mm)	170
 Glass Thickness (mm)	4 - 40
 Thermal Insulation (Uw) W/m ² K	1,4
 Air Permeability	Class 3
 Wind Load Resistance	Class C4/B5
 Watertightness (Pa)	Class E

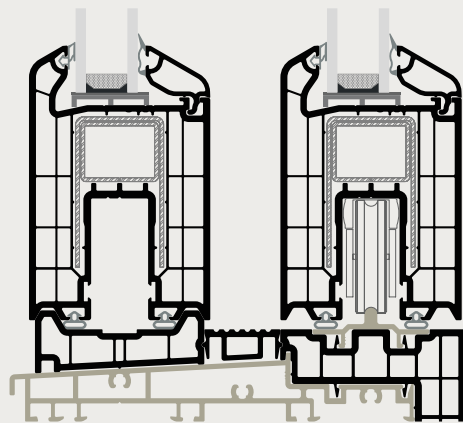
Type of Openings



Technical Sheet



3D



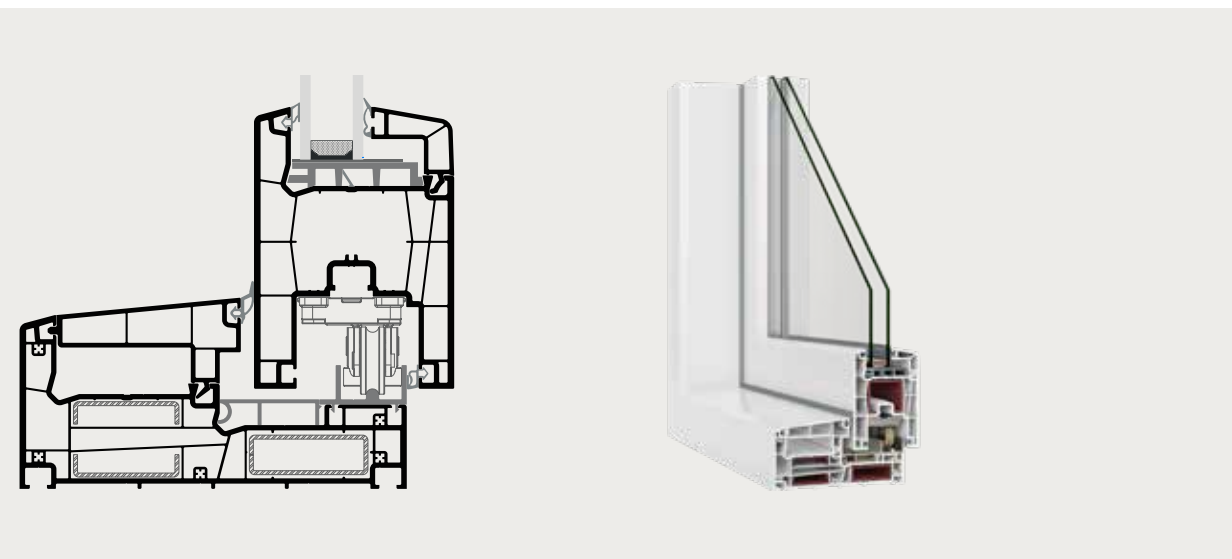
INOVA NEW GENERATION SLIDING SYSTEM

Inova, which gives life to large spaces with its double-sash application alternative, guarantees that it is the system with the best insulation value among the conventional sliding systems, with the performance tests carried out in the Ift Rosenheim Germany-approved test laboratory. With a maximum accessory weight of 400 kg and a glass weight of 80 kg/m², Inova, which can be applied up to 3000 mm width and 3600 mm height, also puts an end to security concerns thanks to the locking and pressure points surrounding the wing profile.

Properties		Type of Openings	
Profile Width (mm)	147		
Glass Thickness (mm)	24 - 50		
Thermal Insulation (U _w) W/m ² K	1,40		
Air Permeability	Class 4		
Wind Load Resistance	Class B3		
Inova New Generation	1500x3000 2000x3600		
Maximum Sash Weight (kg)	400		
Watertightness (Pa)	Class 9A		

[Video](#)
[Technical Sheet](#)
[3D](#)



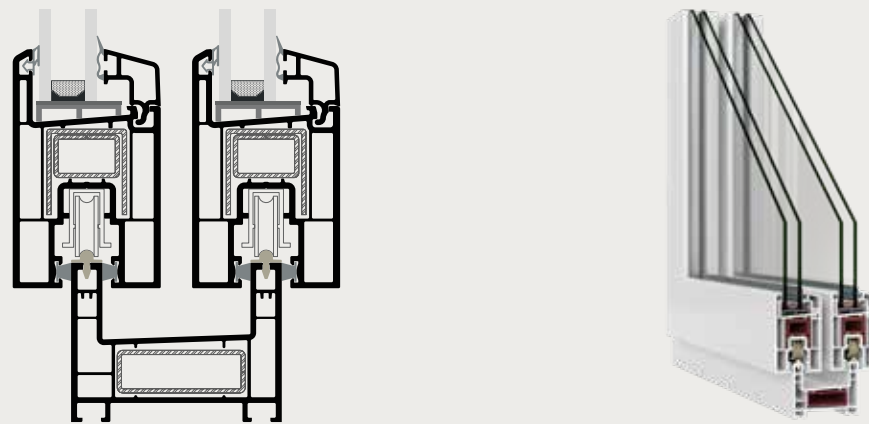
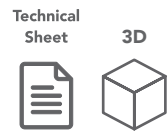



SLIDING SYSTEM 74 mm

The sashes which are sliding in the direction of their axis instead of opening sashes, allow the spaces to be used more efficiently. By means of its design which makes the water discharge easier, its water tightness is high. The case and middle sash bar have baffled sliding case. Application of fly screen is available for all sliding cases. To ensure maximum sound and heat insulation, it is possible to use with quality glass between the range of 4, 20, 24 and 30 mm.

Properties	
Profile Width (mm)	74 - 76 - 94,5 - 137
Glass Thickness (mm)	4 - 30
Air Permeability	Class 4
Wind Load Resistance	Class C3/B3

Type of Openings							
-	-	-	-	-	-	x	
-	-	-	-	x	-	-	x
-	-						
x	x						

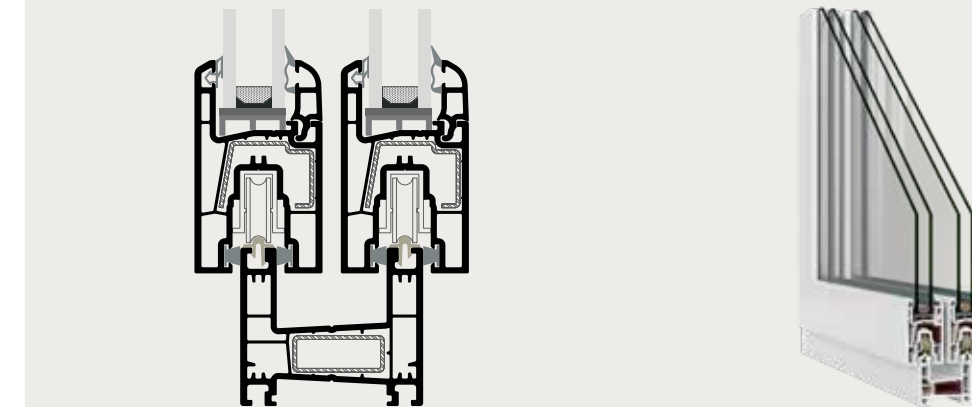
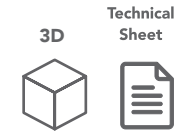



COMPACT SLIDING SYSTEM 60 mm

The sashes which are sliding in the direction of their axis instead of opening sashes, allow the spaces to be used more efficiently. Water flow is made unimpeded with the special design. The case and middle sash bar have baffled sliding case. Application of fly screen is available for all sliding cases. By means of the case profile designed optionally, it can be used both as case and as middle sash bar.

Properties	
Profile Width (mm)	60
Glass Thickness (mm)	4 - 20
Air Permeability	Class 4
Wind Load Resistance	Class C2/B3

Type of Openings							
-	-	-	x	x	-	-	x
-	-	-	-				


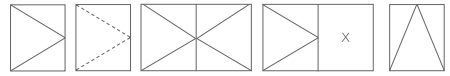

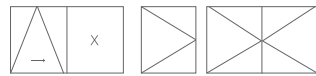








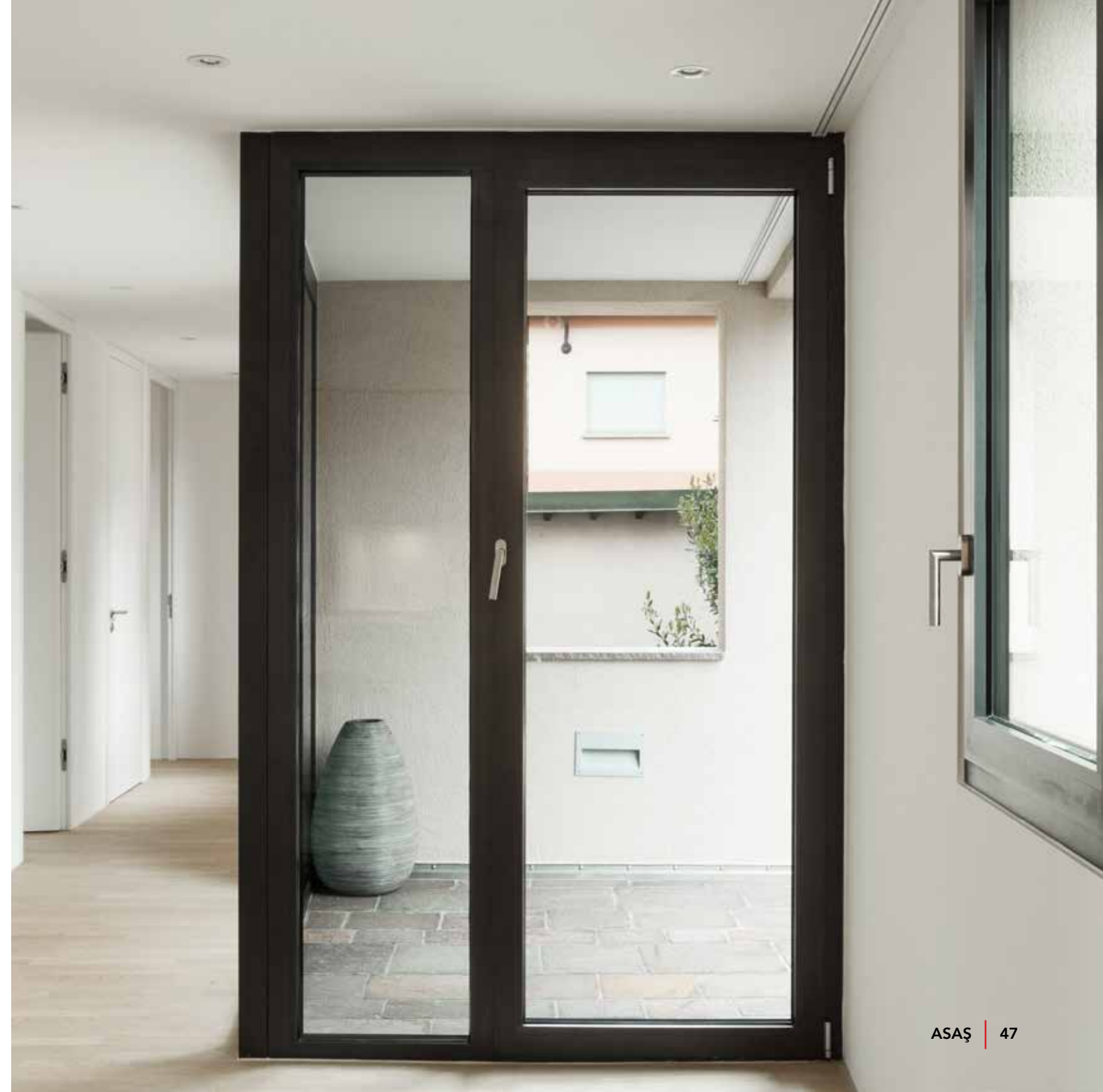
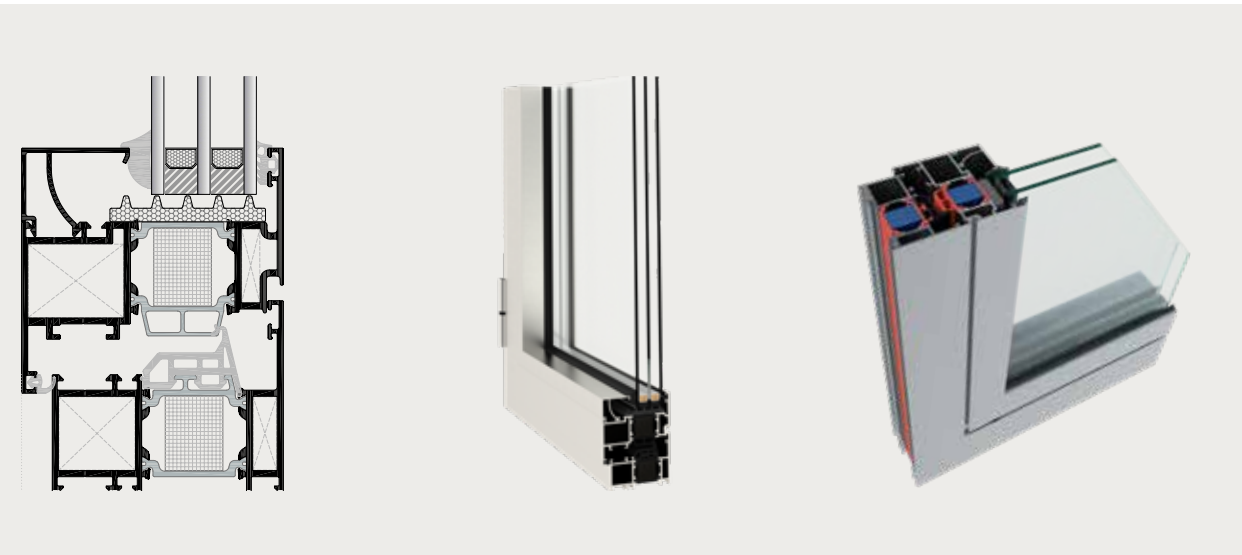
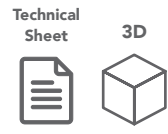


**Aluminium Window and
Door Systems**

RWT75


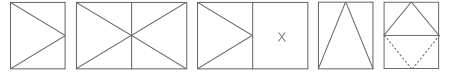

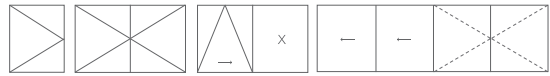






The RWT75 heat insulated joinery system is a versatile and energy-efficient solution for aluminum doors and windows, offering exceptional thermal performance while providing various options to meet different opening requirements and delivers enhanced security. RWT75 window system has been certified PAS24 by BSI of UK.

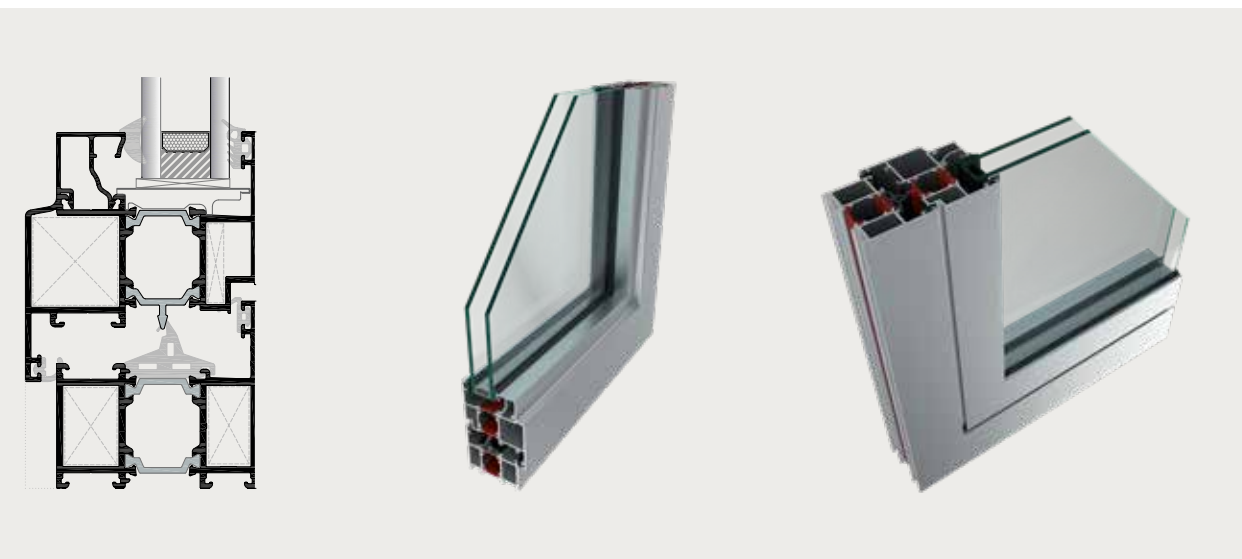
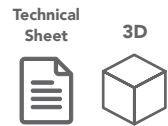
Properties		Type of Openings	
 Frame Depth (mm)	75	Window	
 Vent Depth (mm)	75 - 85	Door	
 Glass Thickness (mm)	23 - 48		
 Thermal Barrier (mm)	34		
 Thermal Insulation (Uw) W/m ² K	1,62 - 1,27		
 Air Permeability	Class 4		
 Wind Load Resistance	Class 4		
 Watertightness	E1650		



RWT64


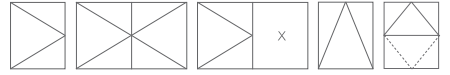

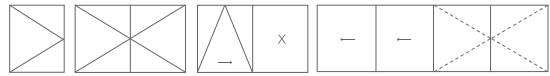






RWT64 System is a heat insulated door and window system with a chase depth of 64mm. Its sash depth is 74 mm and there are options for profiles having wall thicknesses of 1,6-1,8-2 mm. It has a heat barrier of 24 mm and maximum glass thickness of 44 mm. Sash profiles options which are appropriate for PVC opening accessories besides normal opening, tilt&turn, vent sash concealed sash, pull drive, folding, pivot opening options provides ease of application.

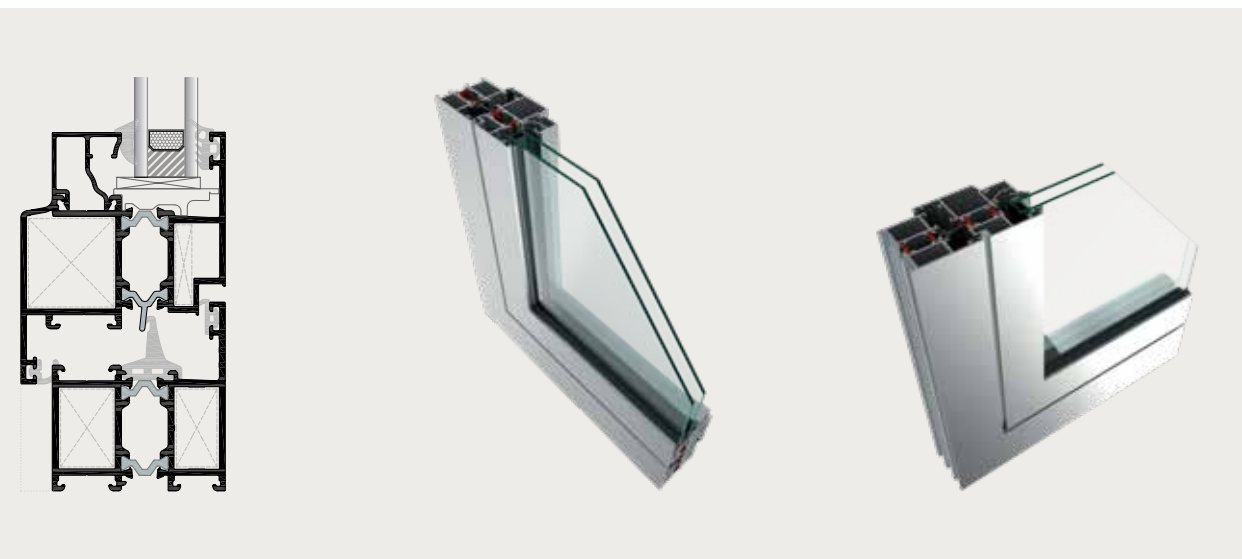
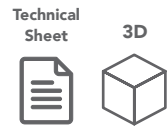
Properties		Type of Openings	
 Frame Depth (mm)	64,2	Window	
 Vent Depth (mm)	74,2	Door	
 Glass Thickness (mm)	9 - 44		
 Thermal Barrier (mm)	24		
 Thermal Insulation (Uw) W/m ² K	1,84		
 Air Permeability	Class 4		
 Wind Load Resistance	Class 4		
 Watertightness	Class 9A		



RWT55

RWT55 Insulated Window and Door System is a heat insulated door and window system and its chasing depth is 55 mm, sash depth is 65 mm. Medium sash bar profile with grillage for high static values and sash profiles appropriate for PVC opening accessories besides normal opening, tilt and turn, concealed sash, pull drive, folding, pivot opening options are covered by this system.

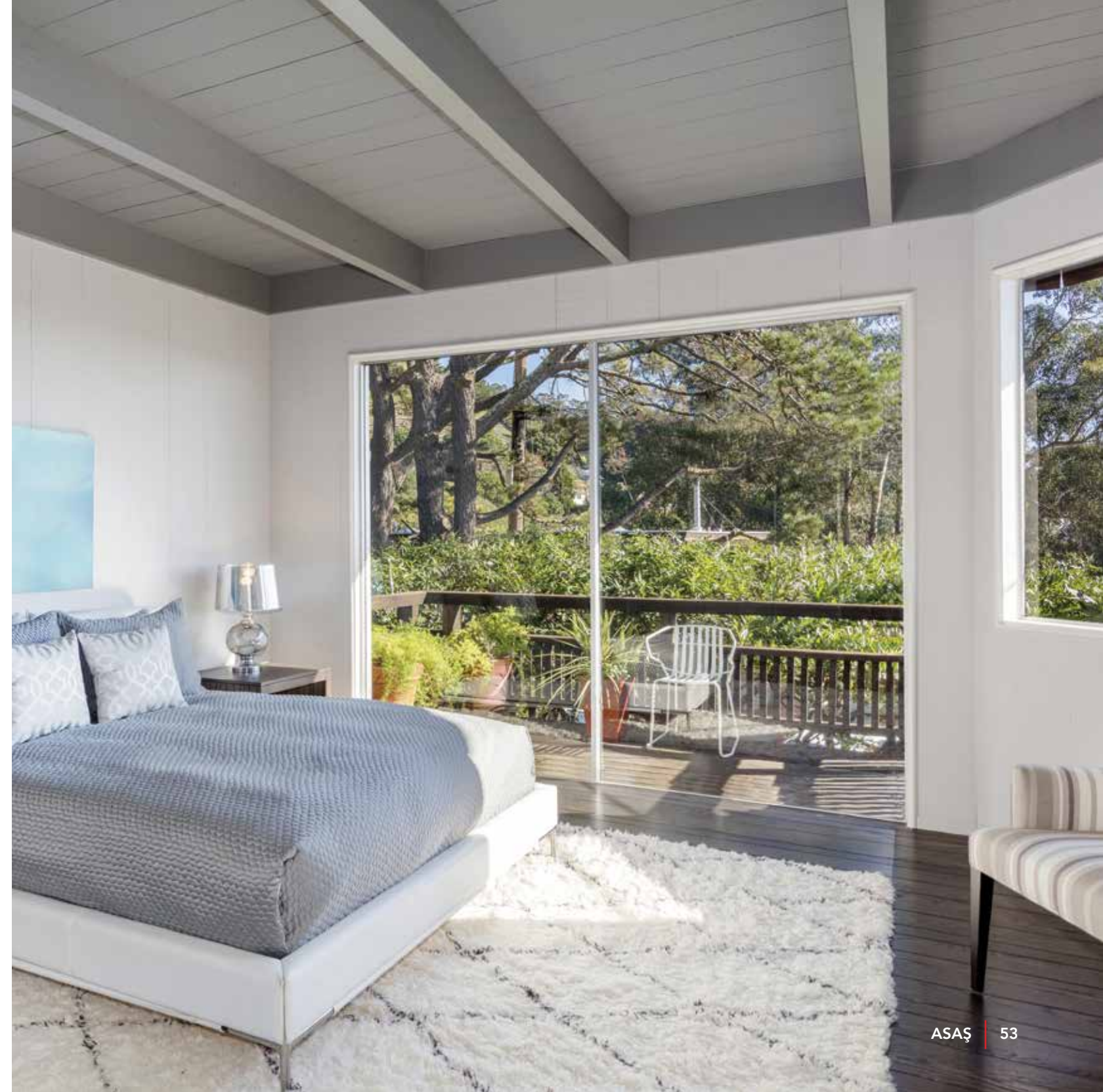
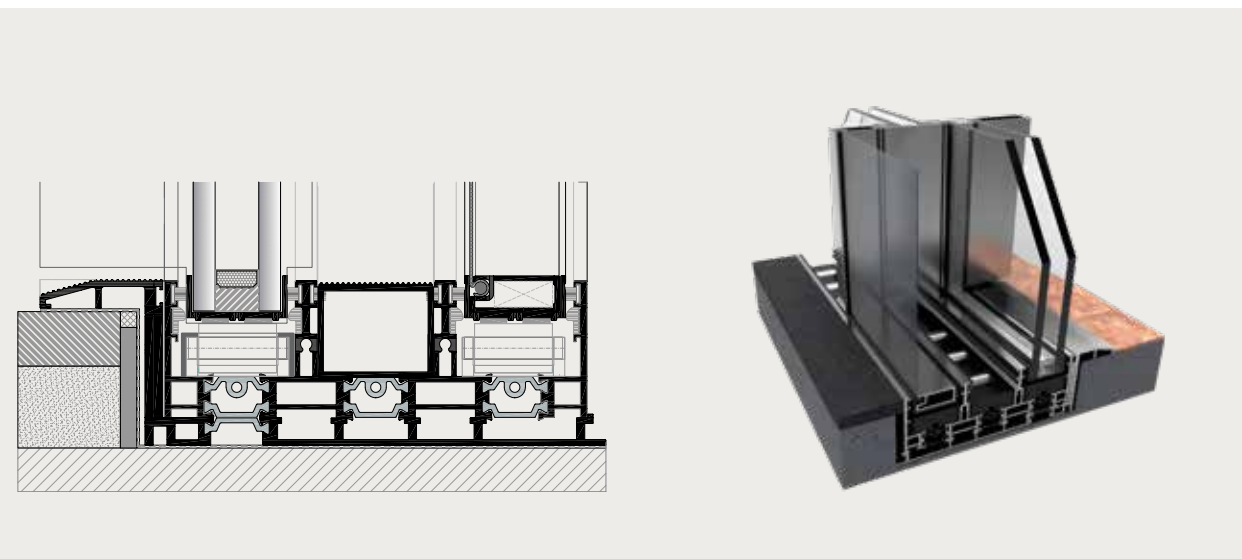
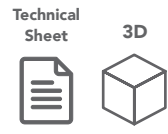
Properties		Type of Openings	
 Frame Depth (mm)	55	Window	
 Vent Depth (mm)	65	Door	
 Glass Thickness (mm)	5 - 36		
 Thermal Barrier (mm)	14,8		
 Thermal Insulation (Uw) W/m²K	2,19		
 Air Permeability	Class 4		
 Wind Load Resistance	Class 4		
 Watertightness	Class 9A		



RESF32





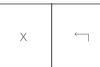


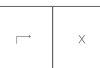


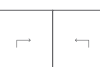




RESF32 is a minimal insulated door and window sliding system that is free from materials that will restrict the view, provide maximum brightness to the space, and have details that will increase comfort. Thanks to its details fixed to the frame by hiding under the floor, it keeps minimum the appearance of aluminium profile while providing more brightness for interior environment.

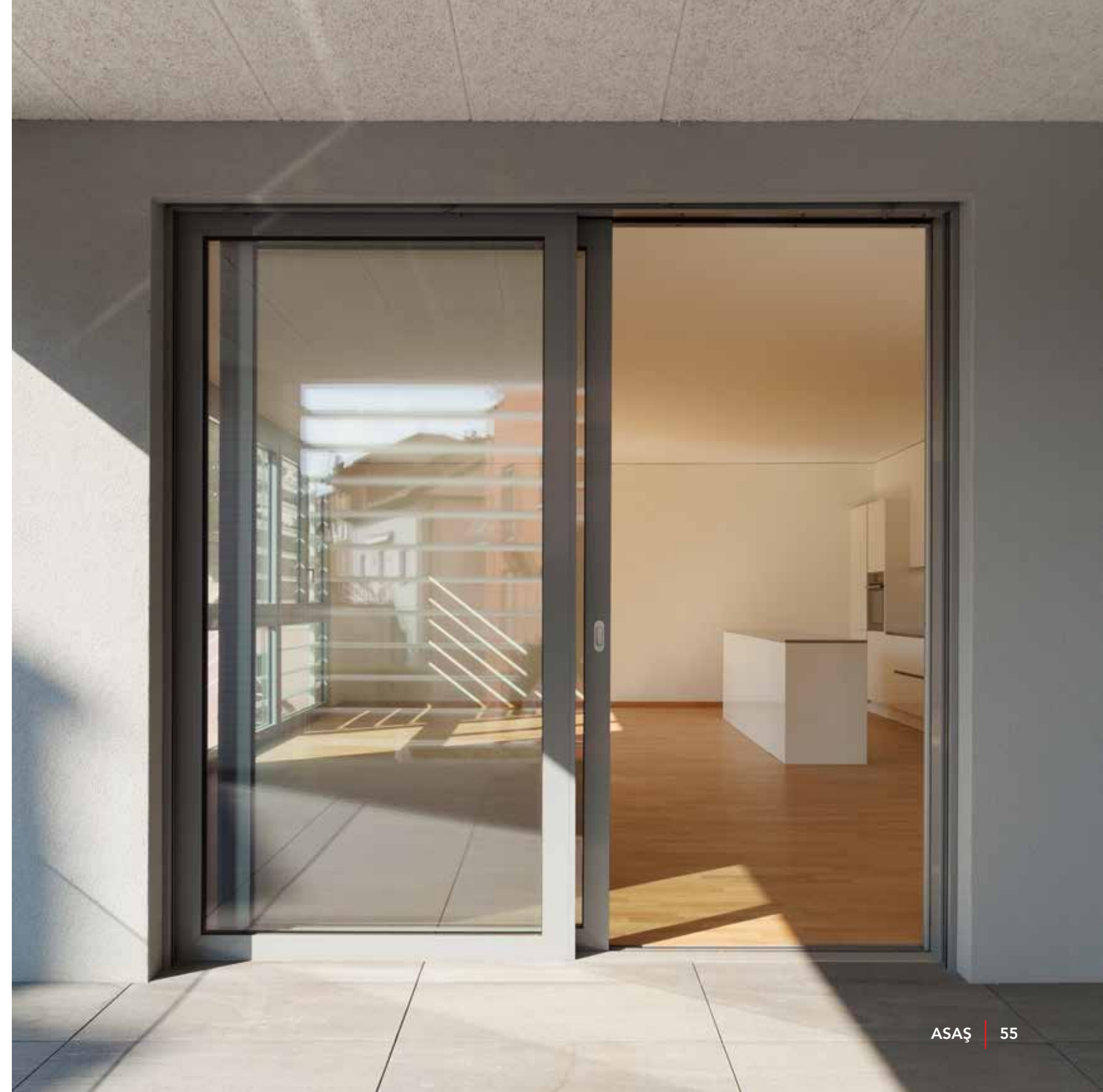
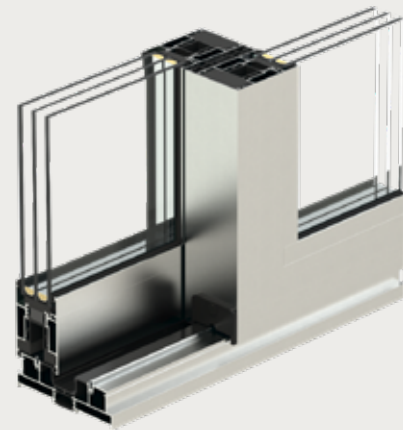
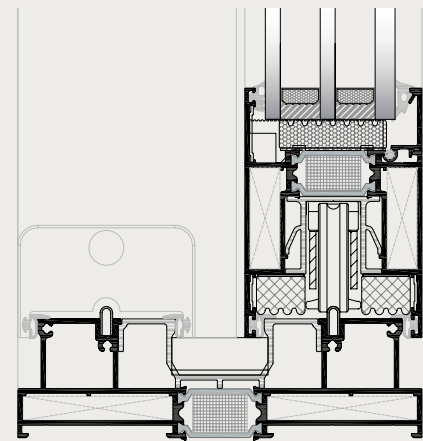
Properties		Type of Openings	
Frame Depth (mm)	104 - 155		
Vent Depth (mm)	20		
Glass Thickness (mm)	32		
Thermal Barrier (mm)	24		
Thermal Insulation (Uw) W/m ² K	1,96		
Air Permeability	Class 4		
Wind Load Resistance	Class 3		
Watertightness	Class 8A		



RST162














RST162 is an insulated lift and slide system, designed to meet different architectural demands and provides solutions for different project requirements with its monorail and duorail alternatives. With EPDM foam insulation and narrow edge options, achieve a minimalist look in your living or working space without compromising on heat insulation. Ideal for expansive spaces, this system combines sleek design with high-performance elements, delivering both style and functionality effortlessly.



Properties		Type of Openings	
 Frame Depth (mm)	162 - 253		
 Vent Depth (mm)	71		
 Glass Thickness (mm)	24 - 52		
 Thermal Barrier (mm)	34		
 Thermal Insulation (Uw) W/m ² K	1,82 - 1,18		
	1,63 - 1,37		

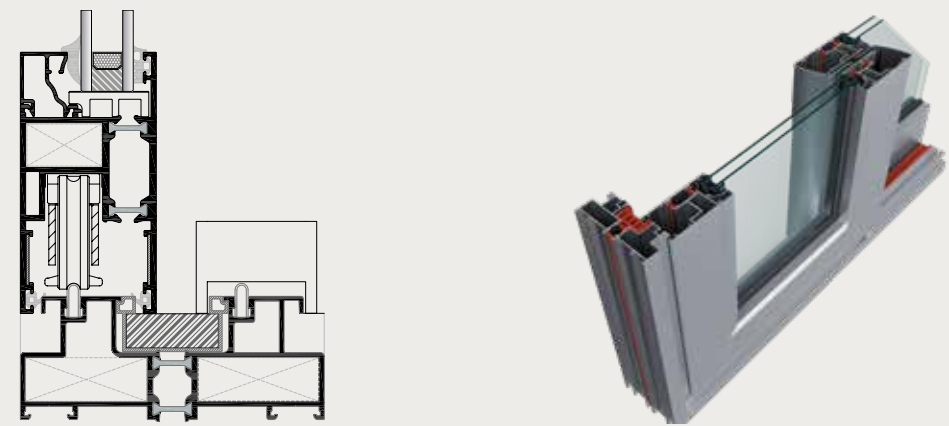


RST116

RST116 Insulated Lift & Slide System is an insulated sliding system appropriate for lift and slide accessory. Its chasing depth is min. 116 mm, sash depth is min. 52 mm, and its wall thickness is 1,8 - 2 mm. There are lift and slide and simple slide options. There are reinforced profile options which allows using with casing, single, double and triple rail and high sash construction.


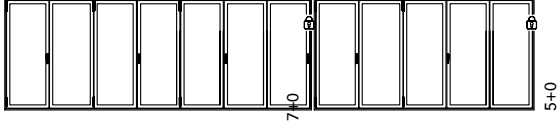









Properties		Type of Openings
 Frame Depth (mm)	116,4 - 188,8	
 Vent Depth (mm)	52,1 - 112,1	
 Glass Thickness (mm)	5 - 35	
 Thermal Barrier (mm)	14,8	
 Thermal Insulation (Uw) W/m²K	2,16 - 2,41	
 Air Permeability	Class 4	
 Wind Load Resistance	Class 3	
 Watertightness	Class E1200	

Technical Sheet  3D 

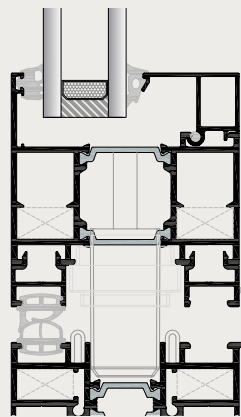


REFD77

The REFD77 Folding Door System is a complete solution that meets a wide range of requirements, including design, performance, flexibility, security, and thermal insulation for maximum comfort and performance.

Properties		Type of Openings
 Frame Depth (mm)	77	
 Vent Depth (mm)	65	
 Glass Thickness (mm)	24 - 50	
 Thermal Barrier (mm)	24 - 32	
 Thermal Insulation (Uw) W/m ² K	1,26	
 Air Permeability	Class 4	
 Wind Load Resistance	Class 3	
 REFD77 (mm)	3500	
 Maximum Sash Weight (kg)	120	
 Watertightness (Pa)	Class 8A	

Technical Sheet



**uPVC and Aluminium
Roller Shutter Systems**

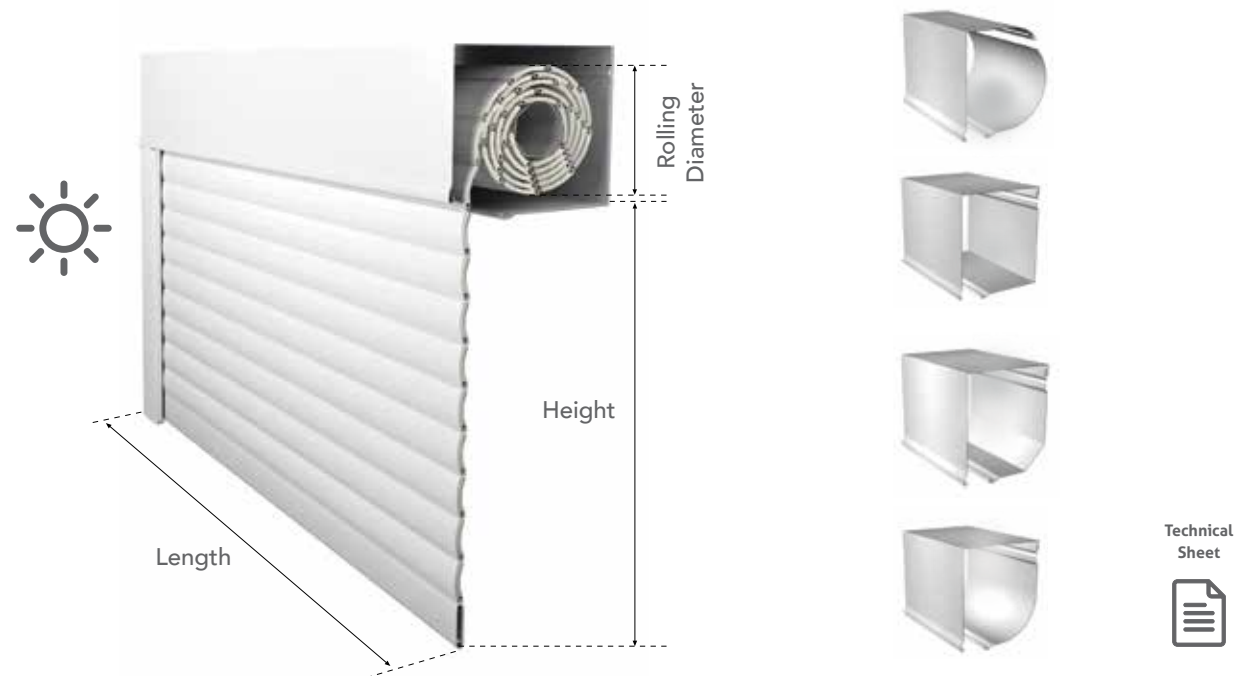


EXTERNAL ROLLER SHUTTER SYSTEMS

Different sizes of polyurethane injected aluminum slats as 37 mm, 39 mm, 43 mm, 55 mm and 77 mm to ensure the desired visual effect and technical requirements of a single piece of roller shutter.

- Single/double walls for 55 mm, 60 mm, 77 mm and 100 mm aluminium extrusion slats
- Special aluminium extrusion profiles for commercial usage with light transmittance holes and bulletproof strength
- Aluminum boxes with the sizes of 137 mm, 150 mm, 165 mm, 180 mm, 205 mm, 250 mm, 300 mm, 330 mm, 350 mm and 400 mm
- Options for 45 degrees, 90 degrees, semi-circular and full circular in boxes and side covers
- Options for 40 mm, 60 mm and 70 mm octagonal galvanized steel tubes and 102 mm round steel tubes
- Integrated mosquito screen compliance
- Assortment of accessories to complement the system

Box options



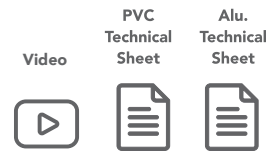
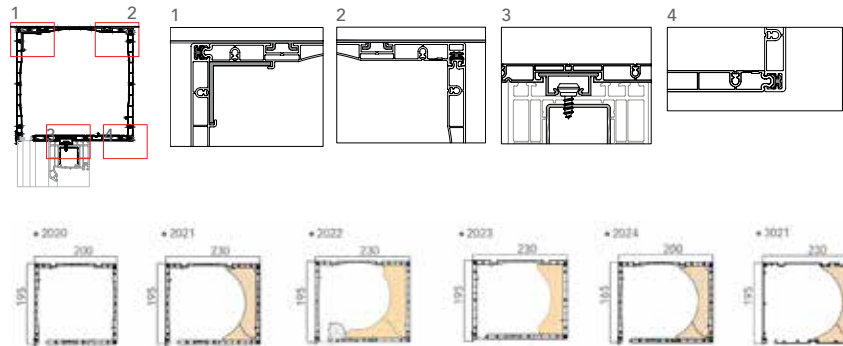
uPVC and ALUMINIUM MONOBLOCK ROLLER SHUTTER SYSTEMS

uPVC and Aluminium Monoblock Roller Shutter Systems

Different sizes of polyurethane injected aluminum slats as 37 mm, 39 mm, 43 mm and 55 mm to ensure the desired visual effect and technical requirements of a single piece of roller-shutter.

- Insulated/Non-insulated square box options
- Specially designed heat barrier system
- Special gaskets that provide insulation by preventing wind passage in box joints
- Box height in a single measure (195 mm)
- Adaptor profile for external mosquito screen systems for both blind and sliding options
- Ability to be opened from the bottom and also from the sides.
- Assortment of accessories to complement the system

Box options



SLAT OPTIONS AND OPERATING SYSTEMS

Torque range of 10 NM - 300 NM; Suitable for 40 mm, 60 mm, 70 mm octagonal and 102 mm round pipes, with standard or reducer options, motor types with or without receiver, and shutter systems that can be controlled by remote control.

Manual Systems

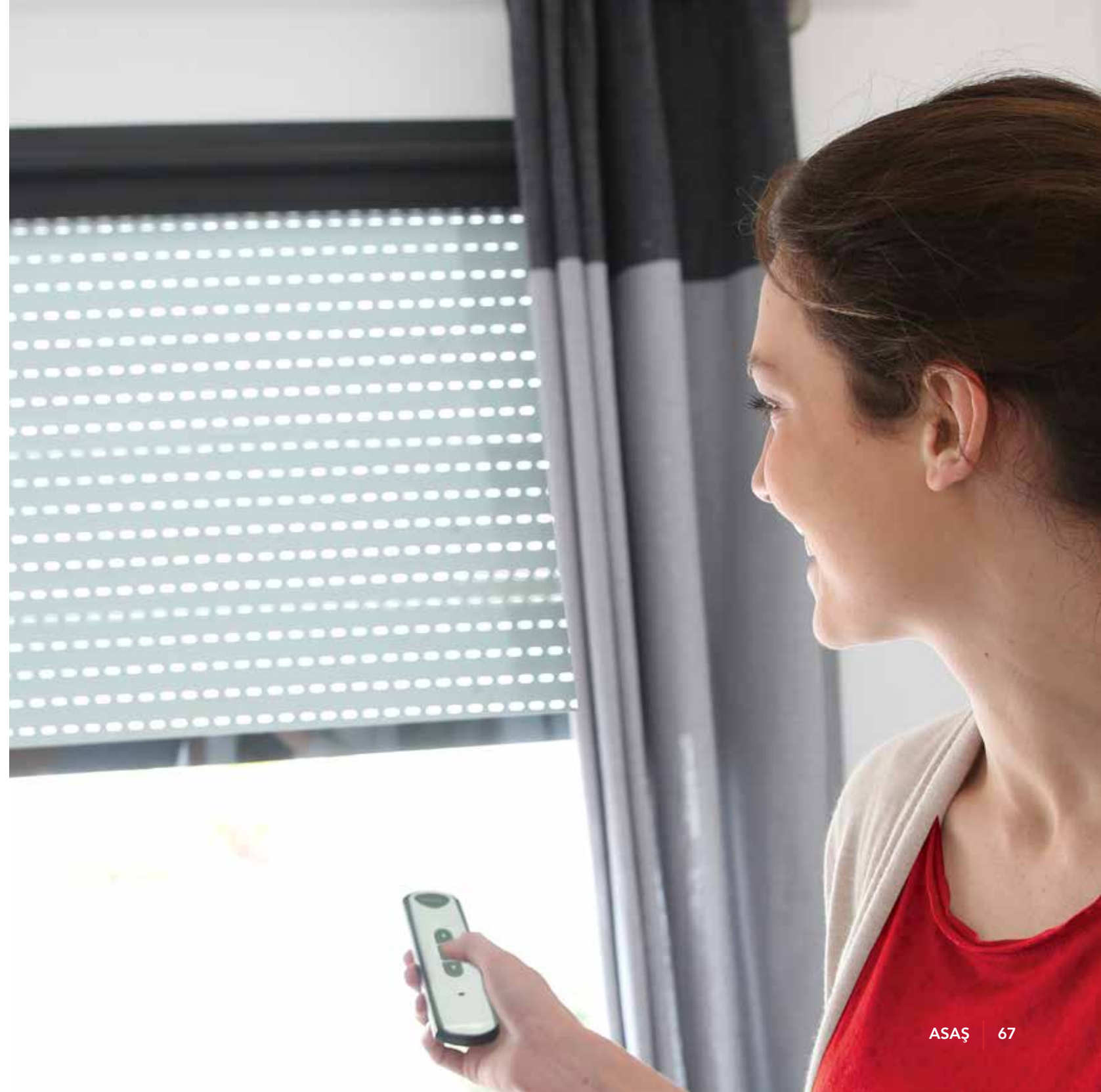


Slats



39 mm, 43 mm and 55* mm colour options.
*Only available for motorised systems

Motorised Systems





The Quality Policy

The Quality Policy of our company which adopted "Total Quality Management" approach is:

To provide the products:

- at international quality standards,
- with higher quality than expected,
- with high performance capability,
- at reasonable price levels,
- on time and continuously, which may make our

customers competitive in their sectors, to be the best and leading firm in the sector with regard to our all areas of activities, to prepare the appropriate backgrounds and environments for putting into effect and ensuring the continuity of specified policies.



Websites



Social Media



3D Images



Sketcfab

Showroom



Virtual Showroom



eternAL

Sustainable Innovation

By utilizing maximum amount of recyclable aluminium with a minimal carbon footprint, **eternAL** is making a contribution to reduce emissions released into nature and the production of sustainable products.

Roller Shutter Systems produced with **eternAL**
Carbon footprint **<4.0 tCO₂e/tAL**

uPVC and Aluminium
Joinery Systems



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