



LINSHIA
PREMIUM BRAND

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WINDOWS DOORS FACADE

ALUMINUM ARCHITECTURAL SYSTEMS

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grande series

GLR U28	SLIDING GLASS DOOR	01-02
GLR U27	MINIMAL SLIDING SYSTEM	03-04
GLR 37	MINIMAL SLIDING SYSTEM	05-06
GLR 33	INSULATED SLIDING SYSTEM	07-08
GLR 36	INSULATED SLIDING SYSTEM	09-10
GLR 53	THERMALLY BROKEN OPENING SYSTEM	11-12
GLR 63	INSULATED BI-FOLD SYSTEM	13-14
GLR 64	INSULATED BI-FOLD SYSTEM	15-16
GLR 95	CURTAIN WALL SYSTEM	17-18
GLR 96-97	WINDOW WALL SYSTEM	19-20
GLR 65	STOREFRONT SYSTEM	21-22
GLR 50	ENTRANCE DOOR SYSTEM	23-24
GLR 51	ENTRANCE DOOR SYSTEM	25-26

LR series

LR 3500	INSULATED SLIDING SYSTEM	27-28
LR 3200	INSULATED SLIDING SYSTEM	29-30
LR 3100	INSULATED SLIDING SYSTEM	31-32
LR 5100	INSULATED OPENING SYSTEM	33-34
LR 6000	BI FOLD SHUTTER SYSTEM	35-36
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LR220	HORIZONTAL ROLLING	5 5 -5 6
LR230	SLIDING GLASS DOOR	5 7 -5 8
LR420	CASEMENT WINDOW	5 9 -6 0
LR420F	FIXED WINDOW	6 1 -6 2
LR530	THERMALLY BROKEN CASEMENT WINDOW	6 3 -6 4
LR530F	THERMALLY BROKEN FIXED WINDOW	6 5 -6 6
LR460	FRENCH DOOR	6 7 -6 8
LR480	BI-FOLD DOOR	6 9 -7 0

“Aluminium in three distinct forms:
Hurricane strength, high-end elegance, and everyday excellence.”

index





EASE OF
INSTALLATION



PERFECT
DESIGN



MINIMAL LOOK
MAXIMUM VIEW



MAXIMUM
SECURITY



FL
APPROVAL



HURRICANE
IMPACT



WATER
ISOLATION



SOUND
PERFORMANCE

grande series



MINIMAL LOOK
MAXIMUM VIEW



MAXIMUM
SECURITY



WATER
ISOLATION



SOUND
PERFORMANCE





GLR33 | GLR36 | GLR37 GLR53 GLR65 GLR U27

GLR63 | GLR64 GLR95 GLR50 GLR51 GLR96

GLR97 | GLR U28

FL APPROVAL

FL APPROVAL



Diagram illustrating the cross-section of the GLR U28 sliding system, showing the frame and glass assembly.

GLASS TYPE

SGP

1/4" + 0.09" (SGP) + 1/4"
HEAT STRENGTH GLASS LAMINATED GLASS

1/4" + 9/16" AIR SPACE + 1/4"
+0.09" (SGP) + 1/4"
HEAT STRENGTH GLASS
INSULATED LAMINATED GLASS

MAXIMUM PANEL WIDTH 61 1/2"

MAXIMUM PANEL HEIGHT 120"

TECHNICAL SPECIFICATIONS:

A 3 TRACK FRAME SILL WIDTH | 8 15/16"

B 3 TRACK FRAME SILL HEIGHT | 3 9/16"

A 2 TRACK FRAME SILL WIDTH | 5 7/8"

B 2 TRACK FRAME SILL HEIGHT | 3 9/16"

"Wider Taller Stronger."

- **Space-Efficient Sliding Design**
Horizontally moving panels offer seamless indoor-outdoor transitions without occupying extra space.
- **Durable Stainless Steel Rollers**
Provides smooth, long-lasting operation even under frequent use.
- **Maximized Natural Light**
Large glass surfaces bring in ample daylight and offer unobstructed views.
- **Reliable Sealing Performance**
Integrated weather seals ensure thermal and acoustic insulation.

U28 Sliding System offers a wide range of application options including **pocket, lift & slide, and corner sliding solutions.**



FL
APPROVAL



SOUND
PERFORMANCE



WATER
ISOLATION

www.linearossadesign.com

Aluminum Architectural Systems 02

Clean Lines, Clear Views,

TECHNICAL SPECIFICATIONS:

- | | |
|--------------------------------------|-------------------|
| A 3 TRACK FRAME SILL WIDTH | 7 15/16" |
| B 3 TRACK FRAME SILL HEIGHT | 1 15/16" |
| A 2 TRACK FRAME SILL WIDTH | 5 1/16" |
| B 2 TRACK FRAME SILL HEIGHT | 1 15/16" |

GLASS TYPE

PVB	SGP
$1/4" + 0.09" (\text{PVB}) + 1/4"$ HEAT STRENGTH GLASS LAMINATED GLASS	$1/4" + 0.09" (\text{SGP}) + 1/4"$ HEAT STRENGTH GLASS LAMINATED GLASS

Standard 9/16" glass thickness

800 kg sash carrying capacity thanks to the double bearing in each sash.

DRAINAGE DEPTH:

- 2 TRACK | 7 1/16"
- 3 TRACK | 9 15/16"



MINIMAL LOOK
MAXIMUM VIEW



MAXIMUM
SECURITY



WATER ISOLATION



SOUND PERFORMANCE



Clean Lines, Clear Views,

Standard 13/8" glass thickness

TECHNICAL SPECIFICATIONS:

A 3 TRACK FRAME SILL WIDTH	 7 15/16 "
B 3 TRACK FRAME SILL HEIGHT	 1 15/16 "
A 2 TRACK FRAME SILL WIDTH	 5 1/16 "
B 2 TRACK FRAME SILL HEIGHT	 1 15/16 "

DRAINAGE DEPTH:

2 TRACK | 7 1/16 "

3 TRACK | 9 15/16 "

800 kg sash carrying capacity thanks to the double bearing in each sash.

GLASS TYPE

SGP

5/32" + 3/8" AIR SPACE + 5/32"
+0,09" (SGP) + 5/32"

HEAT STREND GLASS
INSULATED LAMINATED GLASS



MINIMAL LOOK
MAXIMUM VIEW



MAXIMUM
SECURITY



WATER
ISOLATION

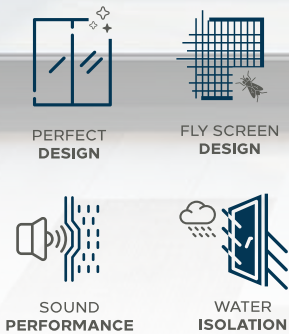


SOUND
PERFORMANCE



TECHNICAL SPECIFICATIONS	
SASH LENGTH	4 7/16 "
FRAME LENGTH	2 6/16 "
SASH WIDTH	2 14/16 "
THE MIDDLE SASH WIDTH	4 12/16 "
MAX. GLASS THICKNESS	15/16 " – 2 6/16 "
HEAT BARRIER	13/16 "
SASH CARRYING CAPACITY	551 - 881 lbs

- **Superior Insulation Performance**
Improved water resistance, enhanced air insulation, and high energy efficiency for optimal indoor comfort.
- **Advanced Sliding Mechanism**
Enhanced drive and sliding speed system ensures smooth, fast, and effortless operation.
- **Creative Visual Design**
Visually appealing and innovative design that combines aesthetics with functional elegance.
- **Reliable Mechanical System**
Problem-free and long-lasting mechanical solutions for seamless daily use.



G-SLIDE
Architecture in motion.

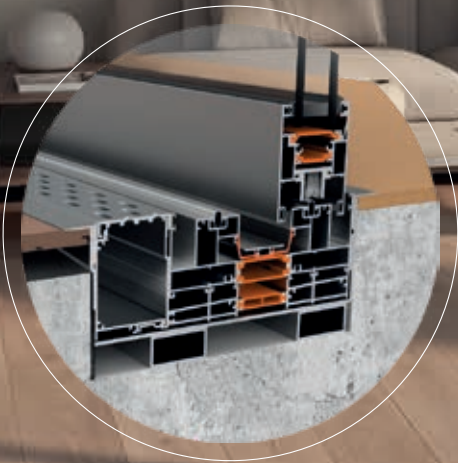


TECHNICAL SPECIFICATIONS	
SASH LENGTH	4 14/16 "
FRAME LENGTH	1 5/16 "
SASH WIDTH	2 1/16 "
THE MIDDLE SASH WIDTH	1 4/16 "
MAX. GLASS THICKNESS	1 3/16" - 1 5/16"
SASH CARRYING CAPACITY	440 lbs

APPLICATION FEATURES	
AIR WATER INSULATION AND ENERGY SAVING	✓
WIDER, HIGHER SLIDES	✓
HIGH CORROSION RESISTANCE	✓
PROBLEM-FREE MECHANICAL SOLUTIONS	✓
FLYSCREEN	✓
FIXED AND MOVABLE SASH	✓



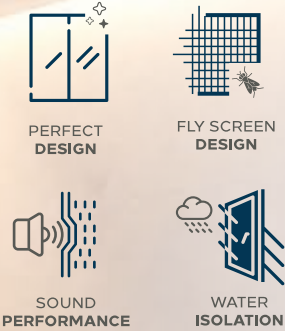
SLOTTED RECESSED
THRESHOLD VERSION





Smart Solutions for Thermal Comfort.

- **Minimum heat loss with integrated insulation foam**
Thermal insulation foam placed inside the aluminum profile significantly reduces heat transfer and improves energy efficiency.
- **Enhanced sealing performance with adjustable locking counterparts**
Specially designed and adjustable locking pieces ensure precise alignment and improved air, water, and sound tightness.



TECHNICAL SPECIFICATIONS	
SASH WIDTH	3 7/16 "
SASH-FRAME LENGTH (MIN.)	4 7/16 "
FRAME WIDTH	3 "
GLASS THICKNESS	19/16" - 2 7/16 "
INSULATION BRIDGE	1 5/16 "
MAXIMUM SASH CARRYING	264 - 400 lbs


(UW) 0.90 W/m²K





SOUND
PERFORMANCE



WATER
ISOLATION

- Wide Sash Capability with Top-Mounted Bearings**
The system allows for the use of wide sashes thanks to precision-engineered upper bearings that provide stable and smooth movement.
- Horizontal Guide Bearings Prevent Rotation**
Special horizontal bearings are positioned to restrict unwanted rotation of the upper bearings, ensuring consistent alignment and safe operation during opening and closing.
- Sash Load Transferred to the Head Rail via Bearings**
The full weight of the sash is transmitted to the top case and carried by high-capacity bearings, minimizing stress on the threshold and ensuring long-term durability.

APPLICATION FEATURES

UPPER CARRIER BEARINGS

✓

SLOTTED THRESHOLD ALTERNATIVE

✓

POSSIBILITY TO COLLECT THE SASH AT 45°

✓

POSSIBILITY TO COLLECT THE FRAME AT 90°

✓

HEAT AND SOUND INSULATION

✓

TECHNICAL SPECIFICATIONS

FRAME WIDTH

1 1/8 "

FRAME LENGTH

2 3/8 "

SASH WIDTH

2 7/8 "

SASH LENGTH

2 3/8 "

MAXIMUM SASH CARRYING

176 lbs



Max. sash carrying capacity: 176 lbs



Max. sash carrying capacity: 264 lbs

TECHNICAL SPECIFICATIONS	
FRAME WIDTH	1 1/8 "
FRAME LENGTH	3 3/8 "
SASH WIDTH	3 "
SASH LENGTH	3 "
MAXIMUM SASH CARRYING	264 lbs

THE WEIGHT OF THE SASH IS CARRIED
BY THE BEARING
CONNECTED TO THE LOWER FRAME



APPLICATION FEATURES	
LOWER CARRIER BEARINGS	✓
SLOTTED THRESHOLD ALTERNATIVE	✓
POSSIBILITY TO COLLECT THE SASH AT 45°	✓
POSSIBILITY TO COLLECT THE FRAME AT 90°	✓
HEAT AND SOUND INSULATION	✓





**PREFABRICATED PANELS
PROVIDE FAST AND EFFICIENT INSTALLATION**

APPLICATION FEATURES	
QUICK AND EASY INSTALLATION	✓
WEATHER RESISTANCE	✓
UNINTERRUPTED VIEW	✓
ENERGY EFFICIENCY	✓
HEAT AND SOUND INSULATION	✓
SPECIAL SOLUTIONS ADAPTED TO BUILDING CHARACTERISTICS	✓
APPLICATION WITH DIFFERENT DOOR-WINDOW SYSTEMS	✓

TECHNICAL SPECIFICATIONS:

- A

FRAME WIDTH

| 6 5/16"
- B

FRAME HEIGHT

| 3"

Where Halo Meets Innovation
GLR 95 on Display.



HALO TOWER
NEWARK, NEW JERSEY



GLR97

TECHNICAL SPECIFICATIONS:

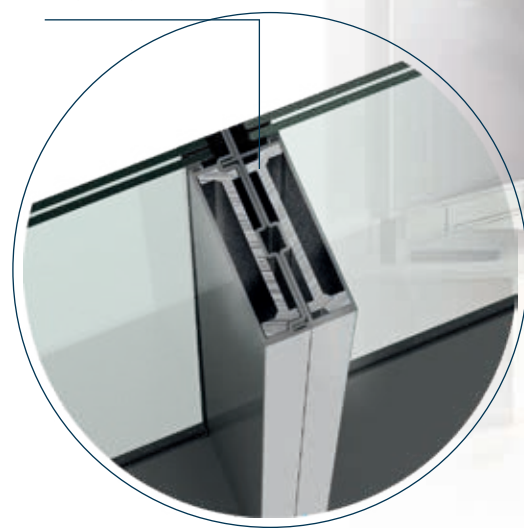
A | FRAME WIDTH | 7"

B | FRAME HEIGHT | 2 1/2"

GLASS TYPE

PVB SMI	SGP SMI
1/4" + 0,09" (PVB) + 1/4" HEAT STREN'D GLASS LAMINATED GLASS	1/4" + 0,09" (SGP) + 1/4" HEAT STREN'D GLASS LAMINATED GLASS

REINFORCEMENT Alternative





outside view



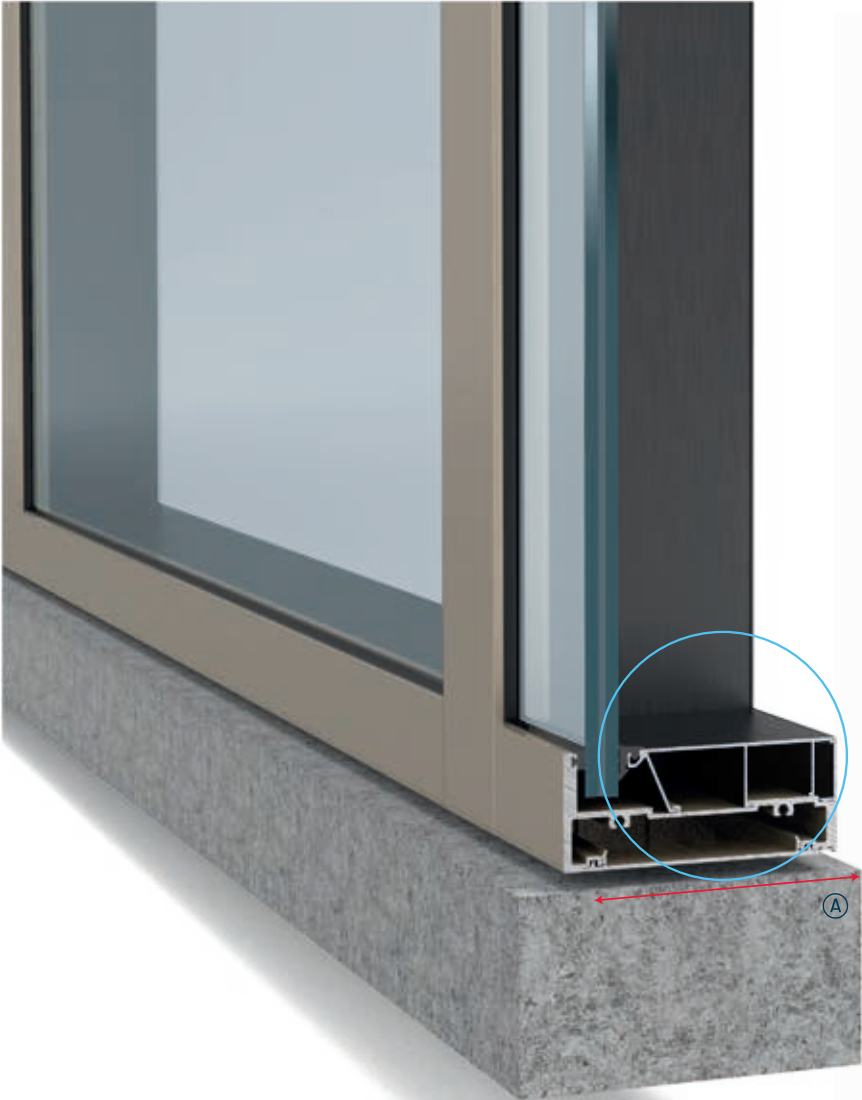
FL
APPROVAL



SOUND
PERFORMANCE



WATER
ISOLATION



Our aluminum facade system provides your modern buildings with a perfect appearance and long-lasting durability thanks to its aesthetic design

****Dual color options**
for interior and exterior surface

TECHNICAL SPECIFICATIONS:

- A

MULLION WIDTH

|

3"
- B

MULLION DEPTH

|

5"
- OPTION
- B

MULLION DEPTH

|

7"

TECHNICAL SPECIFICATIONS:

- A

FRAME WIDTH

|

5"
- B

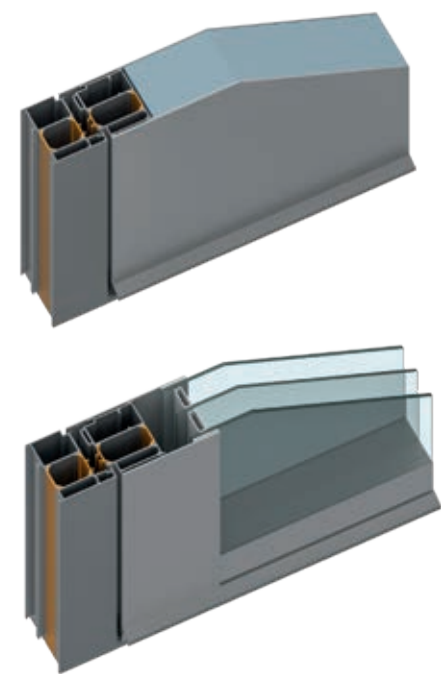
FRAME HEIGHT

|

2"

GLASS TYPE

PVB	SGP
 1/4" + 0,09" (PVB) + 1/4" HEAT STREN'D GLASS LAMINATED GLASS	1/4" + 0,09" (SGP) + 1/4" HEAT STREN'D GLASS LAMINATED GLASS
 1/4" + 1/2" AIR SPACE + 1/4" +0,09" (PVB) + 1/4" HEAT STREN'D GLASS INSULATED LAMINATED GLASS	1/4" + 1/2" AIR SPACE + 1/4" +0,09" (SGP) + 1/4" HEAT STREN'D GLASS INSULATED LAMINATED GLASS



CASING OPTION AVAILABLE
**Adaptation options are available for wall thicknesses between 250 mm and 500 mm.

TECHNICAL SPECIFICATIONS	
FRAME SILL WIDTH	3 7/16 "
FRAME SILL HEIGHT	2 15/16 "

APPLICATION FEATURES	
MODERN DESIGN	✓
HIGH SECURITY	✓
EASE OF USE AND FUNCTIONALITY	✓
HEAT AND SOUND INSULATION	✓
WIDE PRODUCT RANGE PORTFOLIO	✓
ALUMINIUM OR GLASS PANEL OPTION	✓

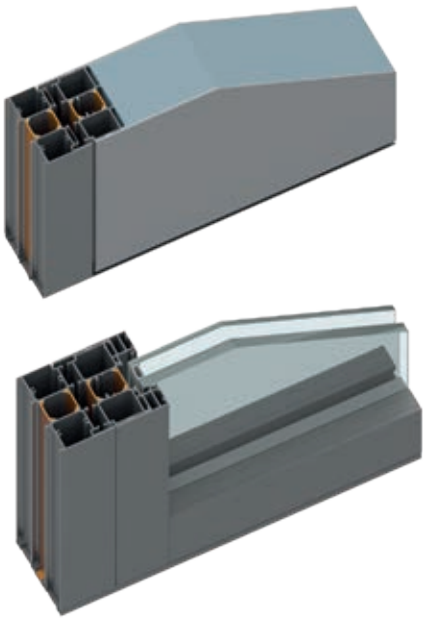




Where Elegance, Security
Modern Design Meet

CASING OPTION AVAILABLE

**Adaptation options are available for wall
thicknesses between 250 mm and 500 mm.



FLUSH HANDLE



FINGERPRINT
SCANNER



WATER
ISOLATION



SOUND
PERFORMANCE

TECHNICAL SPECIFICATIONS	
FRAME SILL WIDTH	4 10/16 "
FRAME SILL HEIGHT	1 12/16 "

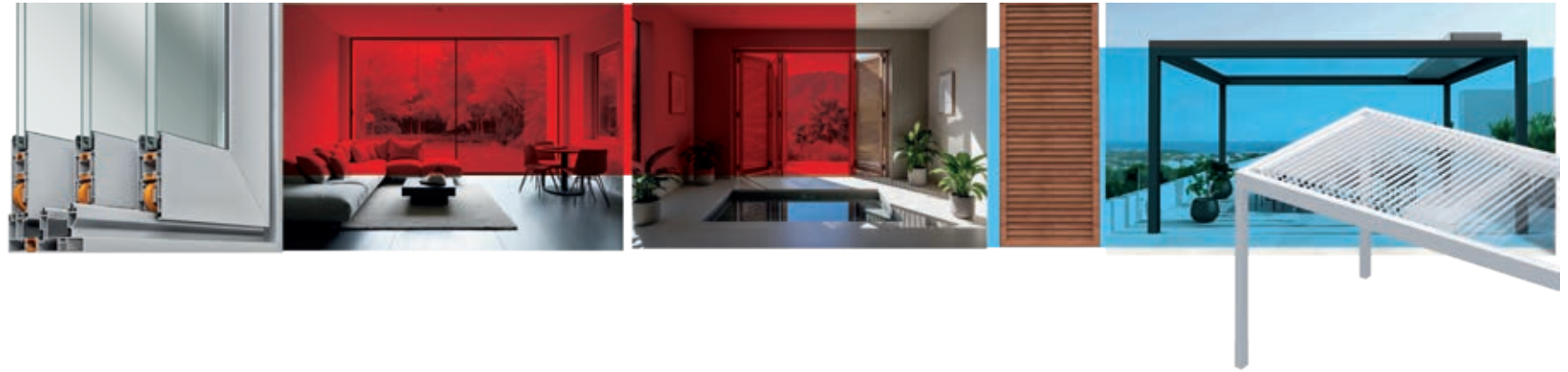
APPLICATION FEATURES	
MODERN DESIGN	✓
HIGH SECURITY	✓
EASE OF USE AND FUNCTIONALITY	✓
HEAT AND SOUND INSULATION	✓
WIDE PRODUCT RANGE PORTFOLIO	✓
ALUMINIUM OR GLASS PANEL OPTION	✓

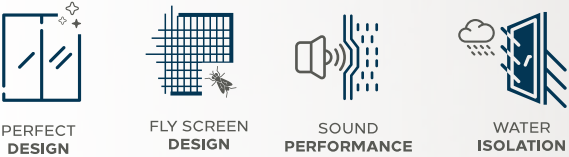


The Art of Ultimate Luxury

LR3500 | LR3200 | LR3100 | LR5100 |
LR6000 | LR8700 | LR1800 | LR1000 |
LR1600 | LR1400 | LR4900 | LR9500 |
LR9200 | LR9300 |


series



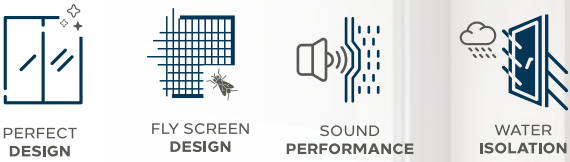


- **Sash Carrying Capacity:**
400 lbs standard / 660-880 lbs with HBSB mechanism
- **Integrated Fly Screen:**
Fly screen design is seamlessly integrated into the system on all frame types
- **Sash Connection Options:**
45° and 90° corner joint alternatives available for sash assembly
- **High Durability and Smooth Operation:**
Stainless steel rail system combined with specially designed bearings ensures long-lasting performance and enhanced user comfort

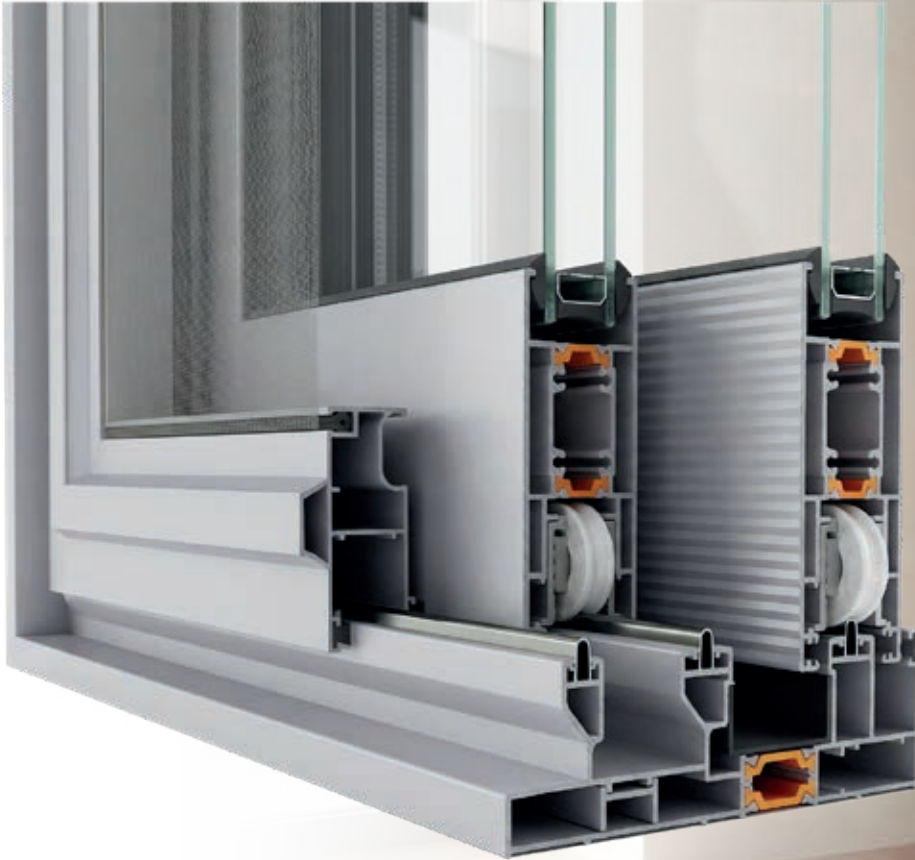
TECHNICAL SPECIFICATIONS	
SASH WIDTH	2 4/16 "
SASH LENGTH	3 10/16 "
FRAME LENGTH	1 12/16 "
GLASS THICKNESS	13/16" - 1 12/16"
MAX. SASH CARRYING CAPACITY	440 lbs / 660-880 lbs
INSULATION BRIDGE	15/16"

APPLICATION FEATURES	
HBSB MECHANISM	✓
FLYSCREEN	✓
45° AND 90° SASH JOINT	✓
40 & 50 MM THICKNESS OPTIONS IN MEDIUM SEAM	✓
INNER AND EXTERIOR FLOORING FACING SAFE	✓
EASE OF USE AND FUNCTIONALITY	✓
MONO RAIL FRAME	✓
3 TRACK FRAME	✓





- **Heavy-Duty Bearing System**
High-performance bearings ensure smooth and durable sash movement, even under heavy loads.
- **Multi-Point Locking Options**
Compatible with single or multiple locking mechanisms integrated within the sliding sash.
- **Integrated Fly Screen System**
The frame is designed with a built-in fly screen netting solution for added comfort and protection.



POLYAMIDE PROFILED HALLOW
CENTER DETAIL

TECHNICAL SPECIFICATIONS	
SASH WIDTH	1 8/16 "
SASH LENGTH	3 10/16 "
PROFILE THICKNESS	1/16 "
GLASS THICKNESS	13/16 " - 1 "
MAX. CARRYING CAPACITY	260 lbs

APPLICATION FEATURES	
WATER, AIR INSULATION	✓
ENERGY SAVINGS	✓
SPECIAL STEEL RAIL	✓
FLY SCREEN	✓
MULTI LOCK APPLICATION	✓
EASE OF USE AND FUNCTIONALITY	✓
MONO RAIL FRAME	✓
3 TRACK FRAME	✓
45° AND 90° SASH JOINT	✓



- **Minimal Architectural Solution:** Provides a clean, modern appearance with a 50% reduced center mullion for enhanced transparency.
- **High-Security Locking:** Equipped with a specially designed high-strength multi-point locking system for improved safety.
- **Thermal Efficiency:** Features a polyamide-profiled hollow center detail to support thermal insulation.
- **Ease of Use:** Designed for simplified production and installation, reducing labor time and complexity.

TECHNICAL SPECIFICATIONS	
SASH WIDTH	1 4/16 "
SASH LENGTH	2 15/16 "
FRAME LENGTH	1 12/16 "
GLASS THICKNESS	1 3/16 " - 1 4/16 "
MAX. SASH CARRYING CAPACITY	260 lbs
INSULATION BRIDGE	13/16 "
THE MIDDLE SASH WIDTH	1 5/16" - 3 1/16"

APPLICATION FEATURES	
WATER, AIR INSULATION	✓
ENERGY SAVINGS	✓
SPECIAL STEEL RAIL	✓
FLY SCREEN	✓
MULTI LOCK APPLICATION	✓
EASE OF USE AND FUNCTIONALITY	✓
MINIMAL MIDDLE SASH	✓
45° AND 90° SASH JOINT	✓
3 TRACK FRAME	✓
MONO RAIL FRAME	✓

Clean Lines, Strong Performance
Opens Up Spaces with Confidence.



34 mm middle sash profile at 90° sash joints allows more light to enter your home.

Special fly screen rail frame and useful fly screen sash in 90° and 45° sash combinations



FLY SCREEN
DESIGN

SOUND
PERFORMANCE

WATER
ISOLATION

Optimum Solution with
Versatile Profile Options

TECHNICAL SPECIFICATIONS

SASH WIDTH	2 13/16 "
SASH LENGTH (MIN.)	3 9/16 "
FRAME WIDTH	2 13/16 "
GLASS THICKNESS	10/16 " - 1 10/16 "
MAX. SASH CARRYING CAPACITY	260 - 440 lbs
INSULATION BRIDGE	13/16 "

APPLICATION FEATURES

EASE OF USE AND FUNCTIONALITY	✓
ADJUSTABLE LOCK STRIKE	✓
TRIPLE GLASS WITH BLINDS GLASS POSSIBILITY	✓
HEAT AND SOUND INSULATION	✓
FLY SCREEN	✓
LOW THRESHOLD OPTION	✓
DOUBLE OPENING	✓
HIDDEN SASH	✓

Improved thermal insulation through different profile combination possibilities.

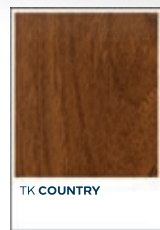
Compatible with both inward and outward opening applications for functional versatility.

Durable sealing and hinge mechanisms ensure long-lasting performance.

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Aluminum Architectural Systems 34

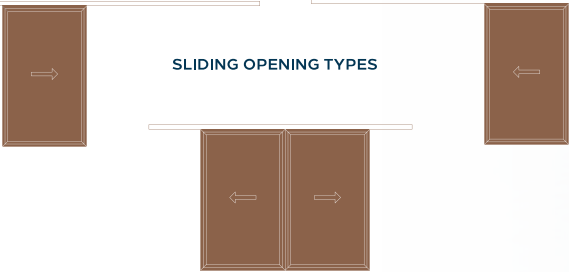
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TK COUNTRY

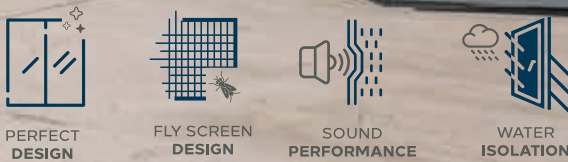
Special effect series
(wood look)

"Flexible opening,
elegant design."



TECHNICAL SPECIFICATIONS	
FRAME WIDTH	2 4/16 "
SIDE FRAME LENGTH	1 14/16 "
BOTTOM FRAME LENGTH	1 14/16 "
SASH WIDTH	1 15/16 "
SASH LENGTH	2 13/16 "

APPLICATION FEATURES	
EASE OF USE AND FUNCTIONALITY	✓
SLOTTED THRESHOLD	✓
FOLDABLE OR OPEN-CLOSE	✓
FOLDS IN BOTH DIRECTIONS	✓
VENTILATION FACILITY	✓





LINSHIA
PREMIUM BRAND

AUTHORIZED DEALER OF

LINEA ROSSA®

WINDOWS | DOORS | FACADE
DESIGNED IN ITALY, MANUFACTURED IN CANADA

1435 NORJOHN CT UNIT 4, BURLINGTON, ON L7L 0E6

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LR9200

APPLICATION FEATURES

MODERN LOOK	✓
BUILDING-SPECIFIC SOLUTIONS	✓
AIR AND WATER IMPERACTION	✓
SOUND INSULATION	✓
MORE NATURAL LIGHT	✓

• Window Integration Capability

Enables the inclusion of operable window modules within the façade system, supporting ventilation and user comfort without compromising design integrity.

• Stick Closure Clip Application

Provides efficient assembly through specialized stick closure clips, facilitating faster installation and structural alignment.

• Uniform Profile Width

Vertical and horizontal profiles are designed with a consistent **1 15/16"** profile width, ensuring aesthetic continuity and structural harmony.

LR9300

APPLICATION FEATURES

MODERN LOOK	✓
BUILDING-SPECIFIC SOLUTIONS	✓
AIR AND WATER IMPERACTION	✓
SOUND INSULATION	✓
MORE NATURAL LIGHT	✓

• Support for 37 3/16" Glass Applications

Allows for wide glass panel applications up to **37 3/16"**, enabling expansive and uninterrupted glass surfaces.

• Uniform Profile Width

Vertical and horizontal profiles are designed with a consistent **2 6/16"** profile width, ensuring aesthetic continuity and structural harmony.



MINIMAL LOOK
MAXIMUM VIEW



MAXIMUM
SECURITY



WATER
ISOLATION



SOUND
PERFORMANCE

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Aluminum Architectural Systems 38

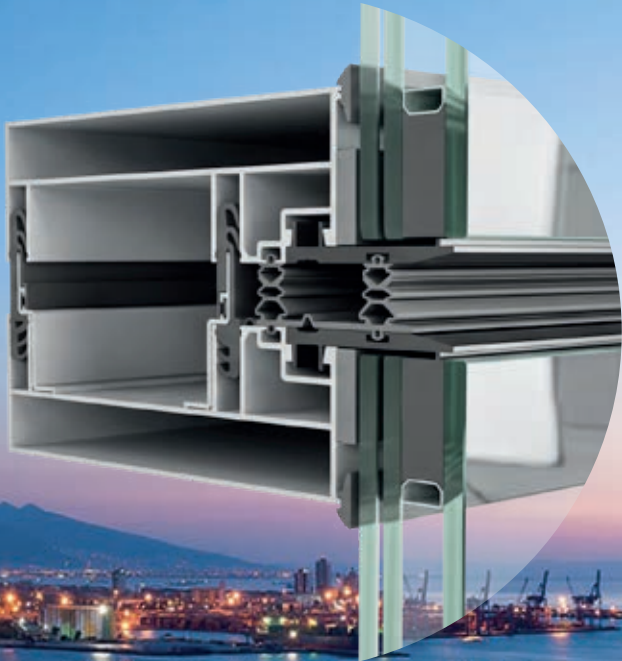


Our revolutionary anodized curtain wall system, can be adapted to fit any architectural design around the World. This unique system has been used to dress the prestigious **Mistral Towers** located in the center of Izmir, Turkey. The thermal and water insulation, coupled with the strength and durability makes this system unbeatable in visual and structural design. What makes this system and the luxury **Mistral Towers** so exclusive, is due to the process of cold bending which was used to construct the project, making this the first of kind in Turkey and an architectural phenomenon.

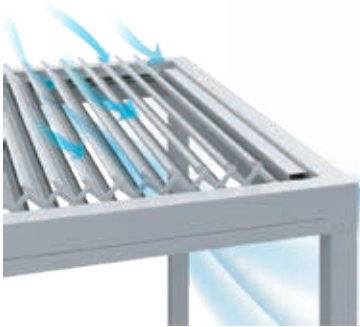
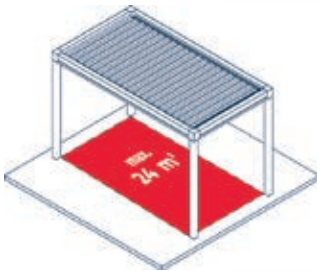
MISTRAL TOWER IZMIR

APPLICATION FEATURES	
MODERN LOOK	✓
BUILDING-SPECIFIC SOLUTIONS	✓
AIR AND WATER IMPERACTION	✓
SOUND INSULATION	✓
MORE NATURAL LIGHT	✓
STATIC AND FUNCTIONAL DURABILITY	✓

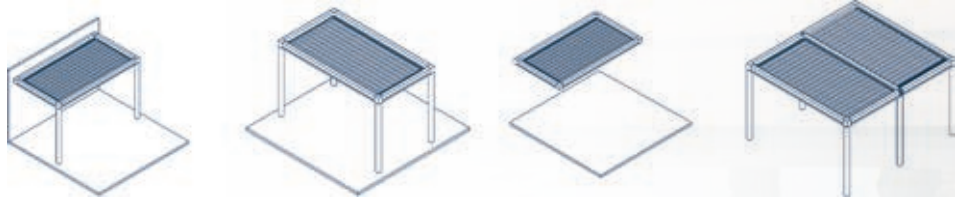
What makes this system and the luxurious **Mistral Towers** so special is the **Cold Bending** process used in the construction of the Project, which is the first of its kind in Turkey and an architectural phenomenon.



Beam & Groove	11 2/16 " - 8 11/16 "
Panel	9 15/16 " - 11 2/16 "
Pole	5 4/16 " - 5 4/16 "
Max. Dimension (area)	258 sqf
Installation - 4 Poles:	Self Standing
Installation - 1,2 or 3 Poles:	Wall Mounting



Ventilation



Closing Time: 7.5 sec/m.

Remote-Controlled Operating System



Water drainage

TECHNICAL SPECIFICATIONS	
SIDE FRAME PROFILE	3 5/16 " / 5 1/4 "
BOTTOM FRAME PROFILE	1 " / 5 1/4 "
MOTOR BOX PROFILE	5 9/16 " / 5 1/4 "
ADAPTER SASH PROFILE	2 7/16 " / 4 1/16 "
SASH PROFILE	1 3/16 " / 1 3/8 "
INTERLOCK SASH PROFILE	1 11/16 " / 1 3/8 "

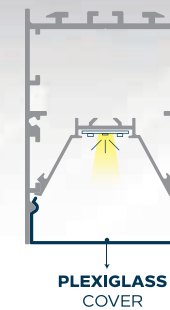
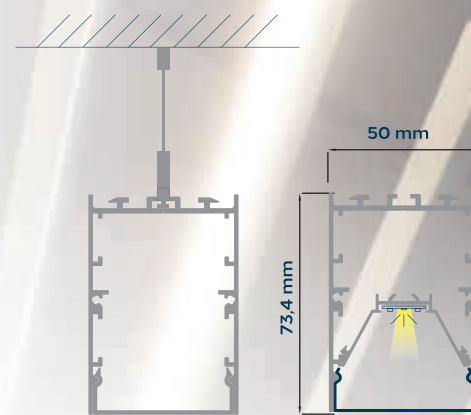
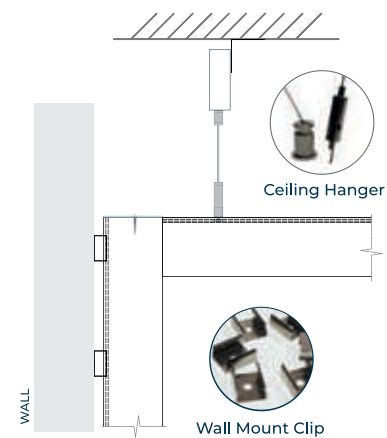
APPLICATION FEATURES	
EASY CLEANING SYSTEM	✓
MAXIMUM INSULATION	✓
HIDDEN DESIGN	✓
EASY SERVICE & INSTALLATION	✓
SAFE USE DETAIL	✓
RICH SYSTEM VARIATIONS	✓

- **Motorized Guillotine Technology:**
Provides remote-controlled vertical movement with a chain-driven silent system.
- **Panoramic Usage Advantage:**
Offers maximum openness for cafés, restaurants, terraces, and balconies, creating spacious living areas.
- **Fixed Railing Function:**
Can be safely used as a glass railing system when fully opened.
- **Insulated Compatible Structure:**
Applicable with 4-16-4 and 6-12-6 tempered insulated glass combinations.
- **Panel Options:**
Offers 2-panel or 3-panel production alternatives according to the application area.



Experience Open-Space Comfort
All Year Round





APPLICATION FEATURES

Flexible Design and Application Variety

Flexible Design and Application Variety
Offers versatility through alternative installation methods and a wide range of design combinations, supporting different architectural concepts.

Illumination and Decorative Functionality

Provides both functional lighting and decorative enhancement, contributing to the aesthetic character of interior and exterior spaces.

LED OPTIONS

2000k

3000k

4000k

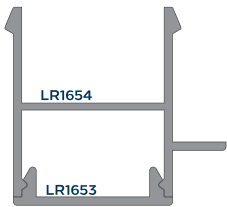
Unlimited color choices,
combined with LED lighting options

LED Length

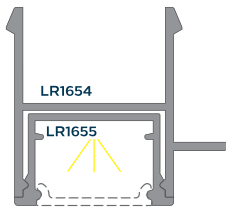
- 19 11/16 "
- 39 6/16 "
- 59 1/16 "

For special measurements,
please contact us.

SIMPLE SOLUTIONS
EXTERIOR & INTERIOR DESIGN

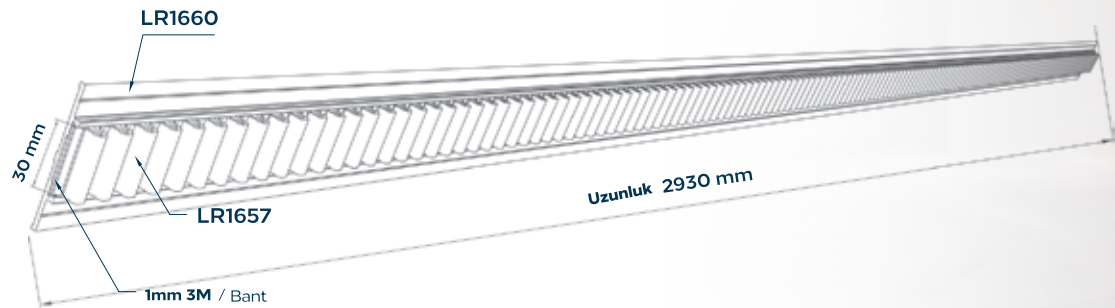


WITHOUT LED



WITH LED PVC Diffuser

APPLICATION FEATURES	
LIGHTING POSSIBILITY	✓
BUILDING-SPECIFIC SOLUTIONS	✓
MODERN AESTHETIC DESIGN THAT LEADS ARCHITECTURAL TRENDS	✓



LR1657

Height	1 3/16 "
Width	6 1/16 "
Qty	19



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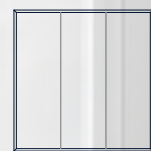
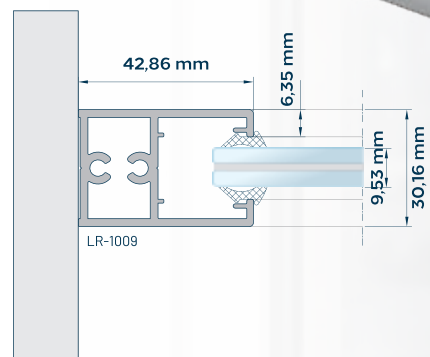
WINDOWS | DOORS | FACADE
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Minimum 2 glass panels can be made



If we increase the number of glass panels,
it provides application in large areas.



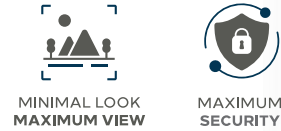
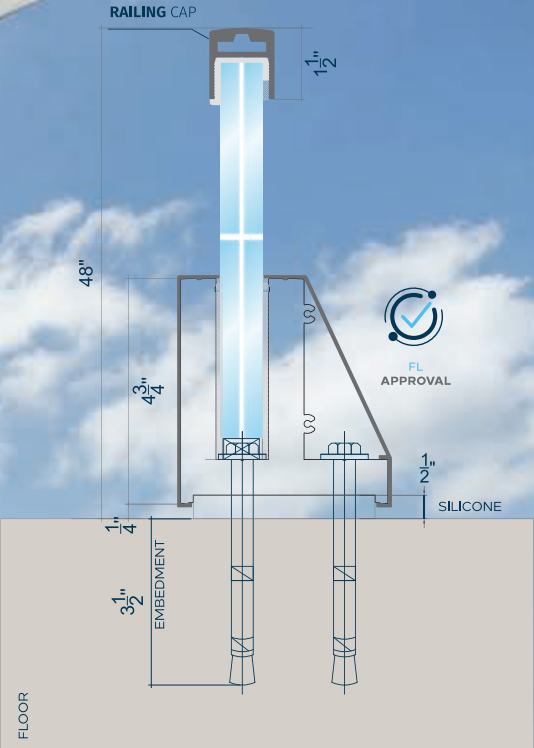
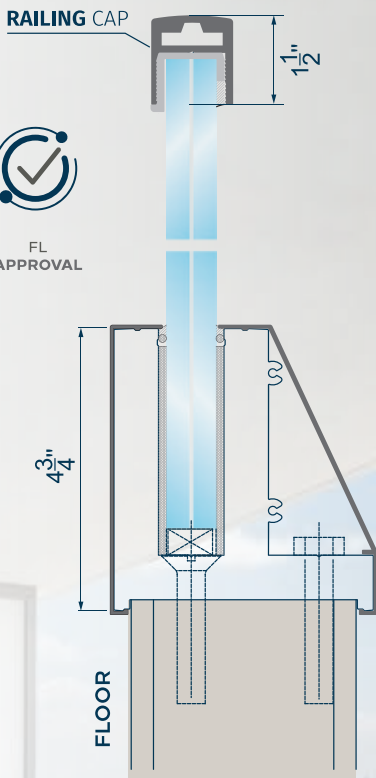
Ultra-thin Aluminum Glass Door Frame

It features an ultra-thin aluminum glass door frame that creates a minimalist visual in office partitions.

Sidelites Complement the Thin Frame

Low-profile channels on adjacent sidelites complement the thin frame.

Customizable frameless systems



• **Two-Part Adjustable Anchors**

The system is equipped with two-piece anchor components that ensure strong and secure attachment to the concrete substrate. These anchors are adjustable to suit the geometry of the building, offering ease of alignment and enhanced adaptability on-site.

• **Vertically Embedded Holder Profiles**

One of the most distinctive aspects of the system is the use of vertically embedded aluminum holder profiles within the flooring. The design includes four modular profiles—two concave and two convex—each in a two-part structure, allowing for durable integration and efficient assembly.

Durable and Low Maintenance:
Resistant to rust and weather conditions, aluminum railings last for years with minimal upkeep

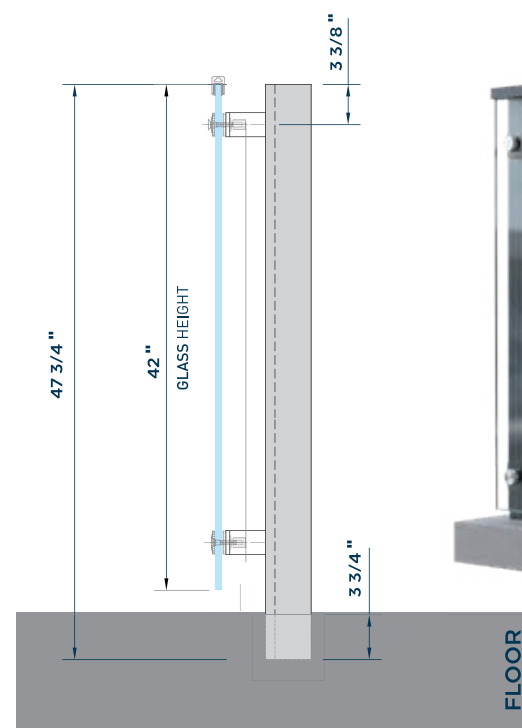


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“Clear Views, Bold Support”

- **Modern Aesthetics & Superior Strength**

A vertical glass support system designed for modern architectural projects, offering both visual elegance and top-level durability.

- **Unobstructed Views with Continuous Base Profiles**

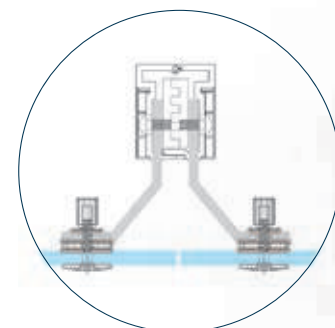
Continuous base profiles without vertical mullions ensure wide, open views and create a feeling of luxurious freedom.

- **Quick and Easy Installation**

Designed for efficient assembly, the system allows for fast and straightforward installation on site.

- **Seamless Long-Length Applications**

Allows for extended constructions without glass alignment problems, maintaining a clean and continuous appearance.



REINFORCEMENT
Alternative



Durable and Low Maintenance:

Resistant to rust and weather conditions, aluminum railings last for years with minimal upkeep





HURRICANE IMPACT
WINDOWS & DOORS

FORTEseries



FL
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HURRICANE
IMPACT



WATER
ISOLATION



SOUND
PERFORMANCE



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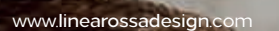
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LR210 | LR420 | LR420F | LR530

LR220 | LR230 | LR530F | LR460 | LR480





- **Durable Stainless Steel Driver** ensures long-lasting, smooth operation
- Horizontally sliding sash design for easy and practical use
- **Window latch and sash lock for strength and security**
- Precision rollers for quiet and effortless gliding
- Clean and modern profile compatible with various architectural styles

TECHNICAL SPECIFICATIONS:

- A

FRAME JAMB WIDTH
- | 3 "
- B

FRAME JAMB HEIGHT
- | 4 "



GLASS TYPE

PVB	SGP
3/16" + 0.09" (PVB) + 3/16" HEAT STREN'D GLASS LAMINATED GLASS	3/16" + 0.09" (SGP) + 3/16" HEAT STREN'D GLASS LAMINATED GLASS
1/4" + 0.09" (PVB) + 1/4" HEAT STREN'D GLASS LAMINATED GLASS	1/4" + 0.09" (SGP) + 1/4" HEAT STREN'D GLASS LAMINATED GLASS
5/32" + 3/8" AIR SPACE + 5/32" +0.09" (PVB) + 5/32" HEAT STREN'D GLASS INSULATED LAMINATED GLASS	5/32" + 3/8" AIR SPACE + 5/32" +0.09" (SGP) + 5/32" HEAT STREN'D GLASS INSULATED LAMINATED GLASS



A | 3 TRACK FRAME SILL WIDTH | 5 4/16"

B | 3 TRACK FRAME SILL HEIGHT | 2 11/16"

- 
- Space-Efficient Sliding Design**
 Horizontally moving panels offer seamless indoor-outdoor transitions without occupying extra space.
 - Durable Stainless Steel Rollers**
 Provides smooth, long-lasting operation even under frequent use.
 - Maximized Natural Light**
 Large glass surfaces bring in ample daylight and offer unobstructed views.
 - Reliable Sealing Performance**
 Integrated weather seals ensure thermal and acoustic insulation.
 - Sleek Architectural Aesthetics**
 Minimalist aluminum profile complements modern architectural lines.

Sliding system allows up to **six operable panels**

GLASS TYPE

PVB

SGP

1/4" + 0,09" (PVB) + 1/4"
HEAT STRENGTH GLASS LAMINATED GLASS

1/4" + 0,09" (SGP) + 1/4"

HEAT STRENGTH GLASS LAMINATED GLASS

Slim **Interlock** Profile

FL
APPROVAL

SOUND
PERFORMANCE



WATER ISOLATION



TECHNICAL SPECIFICATIONS:

- A | FRAME WIDTH | 3"
- B | FRAME HEIGHT | 3 7/16"

GLASS TYPE

PVB	SGP
 3/16" + 0.09" (PVB) + 3/16" HEAT STREN'D GLASS LAMINATED GLASS	3/16" + 0.09" (SGP) + 3/16" HEAT STREN'D GLASS LAMINATED GLASS
1/4" + 0.09" (PVB) + 1/4" HEAT STREN'D GLASS LAMINATED GLASS	1/4" + 0.09" (SGP) + 1/4" HEAT STREN'D GLASS LAMINATED GLASS
 5/32" + 3/8" AIR SPACE + 5/32" +0.09" (PVB) + 5/32" HEAT STREN'D GLASS INSULATED LAMINATED GLASS	5/32" + 3/8" AIR SPACE + 5/32" +0.09" (SGP) + 5/32" HEAT STREN'D GLASS INSULATED LAMINATED GLASS

- Wide Opening, Spacious Interiors

Outward-opening sash design offers maximum ventilation and unobstructed views.
- Triple Gasket System

Triple gasket application for water resistance and air insulation.
- Superior Insulation Performance

Advanced sealing profiles and specialized gaskets ensure excellent thermal and acoustic insulation.





420 Fixed – Arch Application Option

Its arched design integrates seamlessly with custom architectural concepts. The high workability of aluminum profiles enables easy implementation of fixed glazed arch forms. Thermal insulation and sealing performance remain equivalent to standard shapes.

TECHNICAL SPECIFICATIONS:

- A | FRAME WIDTH | 3"
- B | FRAME HEIGHT | 2 1/4"

GLASS TYPE

	PVB	SGP
	3/16" + 0.09" (PVB) + 3/16" HEAT STREN'D GLASS LAMINATED GLASS	3/16" + 0.09" (SGP) + 3/16" HEAT STREN'D GLASS LAMINATED GLASS
	1/4" + 0.09" (PVB) + 1/4" HEAT STREN'D GLASS LAMINATED GLASS	1/4" + 0.09" (SGP) + 1/4" HEAT STREN'D GLASS LAMINATED GLASS
	5/32" + 3/8" AIR SPACE + 5/32" +0.09" (PVB) + 5/32" HEAT STREN'D GLASS INSULATED LAMINATED GLASS	5/32" + 3/8" AIR SPACE + 5/32" +0.09" (SGP) + 5/32" HEAT STREN'D GLASS INSULATED LAMINATED GLASS



FL
APPROVAL



SOUND
PERFORMANCE



WATER
ISOLATION



GLASS TYPE

SGP



5/32" + 3/8" AIR SPACE + 5/32"
+0.09" (SGP) + 5/32"
HEAT STREND GLASS
INSULATED LAMINATED GLASS

TECHNICAL SPECIFICATIONS:

- A | FRAME WIDTH | 4 1/8 "
- B | FRAME HEIGHT | 3 5/16 "



- **Thermal Break Technology**
A built-in thermal barrier minimizes heat transfer between interior and exterior environments, significantly improving energy efficiency.
- **High Insulation Performance**
Advanced sealing and thermal design provide superior resistance against heat loss, enhancing indoor comfort in all seasons.

LR530 | THERMALLY BROKEN FIXED WINDOW



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FL Approval **FL41693_R0_II**

TECHNICAL SPECIFICATIONS:

A | FRAME WIDTH | 4 1/8"

B | FRAME HEIGHT | 17/16"

GLASS TYPE

SGP

5/32" + 3/8" AIR SPACE + 5/32"
+0,09" (SGP) + 5/32"

HEAT STREN'D GLASS
INSULATED LAMINATED GLASS

"Thermal Control. Timeless Clarity."

- **Thermal Break Technology**
Integrated thermal barrier significantly reduces heat transmission, enhancing energy efficiency and interior comfort.
- **High Insulation Performance**
Engineered for superior thermal and acoustic insulation, maintaining indoor stability in all climate conditions.

FL APPROVAL **SOUND PERFORMANCE** **WATER ISOLATION**

± 80 PSF
INTERIOR

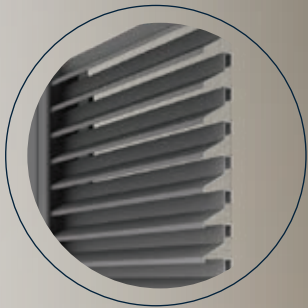
EXTERIOR

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Aluminum Architectural Systems 68

GLASS TYPE

PVB	SGP
 3/16" + 0,09" (PVB) + 3/16" HEAT STREN'D GLASS LAMINATED GLASS	 3/16" + 0,09" (SGP) + 3/16" HEAT STREN'D GLASS LAMINATED GLASS
 1/4" + 0,09" (PVB) + 1/4" HEAT STREN'D GLASS LAMINATED GLASS	 1/4" + 0,09" (SGP) + 1/4" HEAT STREN'D GLASS LAMINATED GLASS
 5/32" + 3/8" AIR SPACE + 5/32" +0,09" (PVB) + 5/32" HEAT STREN'D GLASS INSULATED LAMINATED GLASS	 5/32" + 3/8" AIR SPACE + 5/32" +0,09" (SGP) + 5/32" HEAT STREN'D GLASS INSULATED LAMINATED GLASS



LOUVER OPTION

RESIDENTIAL TECHNICAL SPECIFICATIONS:

- A | STANDARD FRAME SILL WIDTH | 4 5/8 "
- B | STANDARD FRAME SILL HEIGHT | 1 3/4 "

COMMERCIAL TECHNICAL SPECIFICATIONS:

- A | STANDARD FRAME SILL WIDTH | 4 5/8 "
- B | STANDARD FRAME SILL HEIGHT | 1 1/2 "



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SOUND
PERFORMANCE



WATER
ISOLATION





TECHNICAL SPECIFICATIONS:

- A | FRAME HEAD WIDTH | 3 7/8 "
- B | FRAME HEAD HEIGHT | 2 13/16 "

"Available in bi-fold designs with up to **14 operable panels.**"

GLASS TYPE	
PVB	SGP
 3/16" + 0.09" (PVB) + 3/16" HEAT STREN'D GLASS LAMINATED GLASS	3/16" + 0.09" (SGP) + 3/16" HEAT STREN'D GLASS LAMINATED GLASS
 1/4" + 0.09" (PVB) + 1/4" HEAT STREN'D GLASS LAMINATED GLASS	1/4" + 0.09" (SGP) + 1/4" HEAT STREN'D GLASS LAMINATED GLASS
 5/32" + 3/8" AIR SPACE + 5/32" +0.09" (PVB) + 5/32" HEAT STREN'D GLASS INSULATED LAMINATED GLASS	5/32" + 3/8" AIR SPACE + 5/32" +0.09" (SGP) + 5/32" HEAT STREN'D GLASS INSULATED LAMINATED GLASS

- **Three Point Lock System**
Integrated three-point locking mechanism enhances security and ensures firm closure across multiple panels.
- **Smooth Folding Operation**
Precision-engineered rollers and hinges provide effortless, quiet folding movement for daily comfort.



FL
APPROVAL



SOUND
PERFORMANCE



WATER
ISOLATION





LR210 | SINGLE HUNG

FL Approval **FL39251_R0_II**

WIDTH		HEIGHT	
MAX. WIDTH UP TO ≤		MAX. HEIGHT UP TO ≤	
54 "		66 "	
48 "		78 "	
42 "		90 "	
60 "		60 "	

LR420 | CASEMENT WINDOW

FL Approval **FL39598_R0_II**

WIDTH		HEIGHT	
MAX. WIDTH UP TO ≤		MAX. HEIGHT UP TO ≤	
79 "		46 "	
61 "		58 "	
55 "		64 "	
49 "		76 "	
42 "		90 "	

LR460 | FRENCH DOOR

FL Approval **FL38501_R0_II**

WITH TRANSOM

WITHOUT TRANSOM

WIDTH		HEIGHT	
MAX. WIDTH UP TO ≤		MAX. HEIGHT UP TO ≤	
SINGLE DOOR 144 "X 50 "		SINGLE DOOR 120 "X 50 "	
DOUBLE DOOR 144 "X 99 1/4 "		DOUBLE DOOR 120 "X 99 1/4 "	

LR480 | BI-FOLD DOOR

FL Approval **FL40702_R0_II**

PANEL	
WIDTH	HEIGHT
MAX. WIDTH UP TO ≤	MAX. HEIGHT UP TO ≤
54 "	82 3/16 "
48 "	88 3/16 "
42 "	100 3/16 "
40 "	112 3/16 "

GLR96 grande | WINDOW WALL

FL Approval **FL41922_R0_II**

	WITHOUT REINF.	
	WIDTH	HEIGHT
	MAX. WIDTH UP TO ≤	MAX. HEIGHT UP TO ≤
	84 "	120 "
	WITHOUT REINF.	
	WIDTH	HEIGHT
	MAX. WIDTH UP TO ≤	MAX. HEIGHT UP TO ≤
	72 "	96 "
	66 "	108 "
	60 "	120 "
	WITH ALM. REINF.	
	WIDTH	HEIGHT
	MAX. WIDTH UP TO ≤	MAX. HEIGHT UP TO ≤
	84 "	96 "
	78 "	108 "
	72 "	120 "

GLR28 grande | SLIDING GLASS DOOR

FL Approval **FL42012_R0_II**

PANEL	
WIDTH	HEIGHT
MAX. WIDTH UP TO ≤	MAX. HEIGHT UP TO ≤
61 1/2 "	120 "

GLR97 grande | WINDOW WALL

FL Approval **FL41922_R0_II**

	WITHOUT REINF.	
	WIDTH	HEIGHT
	MAX. WIDTH UP TO ≤	MAX. HEIGHT UP TO ≤
	54 "	132 "
	48 "	156 "
	WITH ALM. REINF.	
	WIDTH	HEIGHT
	MAX. WIDTH UP TO ≤	MAX. HEIGHT UP TO ≤
	78 "	132 "
	72 "	144 "
	66 "	156 "
	60 "	180 "
	WITH ALM. REINF.	
	WIDTH	HEIGHT
	MAX. WIDTH UP TO ≤	MAX. HEIGHT UP TO ≤
	54 "	132 "
	48 "	156 "

LR220 | HORIZONTAL ROLLING

FL Approval **FL38693_R0_II**

PANEL	
WIDTH	HEIGHT
MAX. WIDTH UP TO ≤	MAX. HEIGHT UP TO ≤
54 "	60 "
48 "	66 "
42 "	78 "
39 "	84 "
36 "	90 "

LR420F | FIXED CASEMENT

FL Approval **FL34543_R0_II**

PANEL	
WIDTH	HEIGHT
MAX. WIDTH UP TO ≤	MAX. HEIGHT UP TO ≤
54 "	66 "
48 "	78 "
42 "	90 "

LR230 | SLIDING GLASS DOOR

FL Approval **FL38755_R0_II**

PANEL	
WIDTH	HEIGHT
MAX. WIDTH UP TO ≤	MAX. HEIGHT UP TO ≤
60 "	96 "
54 "	102 "
48 "	120 "

LR530F | TH. BROK. FIXED WIN.

FL Approval **FL41693_R0_II**

PANEL	
WIDTH	HEIGHT
MAX. WIDTH UP TO ≤	MAX. HEIGHT UP TO ≤
54 "	66 "
48 "	78 "
42 "	90 "

Check the size tables on **FL Approval documents for more options**



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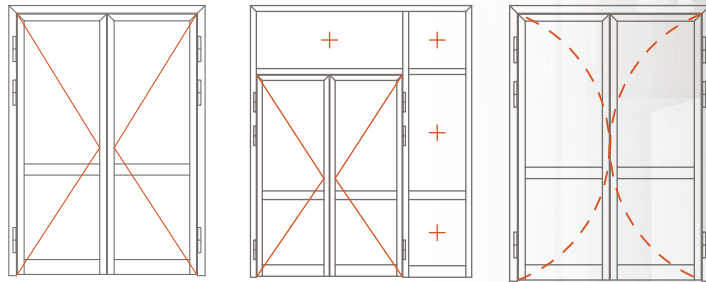
TEKNİK SPESİFİKASYONLAR / Technical Specifications

Kasa Genişliği / Frame Width:	60 mm
Kasa Yüksekliği / Frame Height:	49 mm
Kanat Genişliği / Sash Width:	60 mm
Kanat Yüksekliği / Sash Height:	66 mm
Profil Et Kalınlığı / Profile Thickness:	1,4 - 1,6 mm
Cam Kalınlığı / Glass Thickness:	23,5 mm

ÖNE ÇIKAN ÖZELLİKLER / Key Features

- ✓ **Su sızdırmazlık sağlayan conta sistemi**
Gasket system providing water tightness
- ✓ **Açılır, çift açılım, vasistas vb. açılım seçenekleri**
Available in side-hung, tilt & turn and various opening configurations
- ✓ **Modern ve estetik profil tasarımı**
Modern and elegant profile design
- ✓ **Aksesuar ve donanım uyumluluğu**
Accessory and hardware compatibility
- ✓ **Elektrostatik toz boya ve eloksal yüzey seçenekleri**
Available in electrostatic powder-coated and anodized finishes

UYGULAMA SEÇENEKLERİ / Application Options



Net Hatlar, Güvenilir Sistem

Clean Lines, Reliable System

B60 Yalıtımsız Açılır Sistem, modern mimari projeler için estetik ve dayanıklı bir çözüm sunar. 60 mm kasa genişliği sayesinde yüksek mukavemet ve stabilite sağlayarak uzun ömürlü kullanım imkânı sunar. Alüminyum profil yapısı, hafifliği ile birlikte sağlamlık kazandırırken farklı açılır kanat seçenekleri ile esnek tasarım imkânı sağlar. Yalıtımsız yapısı sayesinde özellikle iç mekân uygulamaları, ofis bölmeleri ve ticari alanlarda ekonomik ve pratik bir çözüm olarak öne çıkar. Şık görünümü ve fonksiyonel yapısıyla projelere modern bir karakter kazandırır.

B60 Non-Insulated Casement System offers an aesthetic and durable solution for modern architectural projects. With its 60 mm frame depth, it provides strong structural stability and long-lasting performance. The aluminum profile structure combines lightness with strength, while various opening options allow flexible design possibilities. Thanks to its non-insulated structure, it is an economical and practical solution especially for interior applications, office partitions, and commercial spaces. With its sleek appearance and functional design, it adds a modern character to architectural projects.