

ADVANCED ALUMINIUM SOLUTIONS







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### **ELVIAL MAIN ENTRANCE SYSTEMS - OUTSTANDING THERMAL** INSULATION

27 XCLUSIVE 881<sup>2</sup> Main Entrance

# **66**

### Aluminium is our business,

making	life	better	is	our	passion.
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# QUALITY LIVING

Modern urbanization sets people inside buildings for more than 90% of their total daily time (York University, York.ac.uk). Sleeping, eating, working, entertainment and the rest of our actions take place within the walls.

Since 1970, when contemporary urban model appeared through the mass construction of block of flats, new diseases developed due to the environment inside the new buildings (SBS: Sick Buildings Syndrome).

That is why, designing and construction should fulfill the highest expectations in terms of lighting, ventilation, warmth /coolness and soundproof.

Windows play a leading part to all the above, as they affect many of those factors that set a building "user friendly".

# ALUMINIUM: A FRIENDLY METAL

Aluminium allows rooms to "breathe" and at the same time, by using contemporary technology methods, offers **exceptional Thermal Insulation**.

Aluminium belongs to light metals, with high strength, suitable for large constructions that allow the inflow of natural light.

Aluminium is durable, adding timeless value to buildings needing the least of maintenance.

It is 100% recyclable, using only 5% of the total primary energy needed, to get recycled.

Aluminium windows offer numerous advantages to the building users and create quality environments.



# SUSTAINABLE LIVING

# OUR BUSINESS... **OUR PASSION**

**ELVIAL** aims to be part of the solution for contemporary socio – environmental issues, therefore we design imaginatively and we produce responsibly. We create novelties that answer to every need of yours.

#### I NEED SECURITY:

In the year 2004 ELVIAL responded to the fundamental issue of security, inventing the international, patented innovation ELVIAL MULTILOCK. ELVIAL MULTILOCK systems achieve exceptional anti-burglar performance, having up to 21 steel locking points, around the window, ensuring security even to tilt position.

#### I NEED THERMAL INSULATION:

In the year 2014 with the international innovative Technology ELVIAL I<sup>2</sup>, we offer premium thermal insulation, applied to a full range of products, ideally combined with all the advantages that ELVIAL aluminium products offer: security, soundproof, excellent functionality & durability for a lifetime, high aesthetics - colors - different color inside & outside.

#### I NEED GARANTEED QUALITY & PROMISING CUSTOMER CARE:

We design, we produce and distribute ELVIAL systems exclusively in our high - end, robotic industrial complex. For the construction and the placement of your aluminium windows we cooperate only with distinguished partners that dispose the highest quality and technology standards.

We constantly invest in cutting -edge Technology and robotic Logistic Systems, while we believe that our most precious resource is our People. We produce according to the strictest Standard for Aluminium Extruded Profiles EN15088 (CE marking) and all our processes are managed according to ISO 9001:2008.

In that way, we ensure factory quality and excellent customer care.

We respect the environment, producing under the ISO 14001:2004 and we function according to OHSAS 18001:2007 ensuring health and safety inside the premises, because we believe that our responsibility does not only concern our premium quality products but also to our every day actions.









# INTERNATIONAL INNOVATIVE INSULATION TECHNOLOGY

### TECHNOLOGY **ELVIAL I**<sup>2</sup>

Additional **Insulation Zone** with **foam filled** thermal brake chamber.

The profile thermal transmittance value (Uf) can be improved up to 38%.

### INSULATION MATERIAL ELVIAL I<sup>2</sup>

- With CERTIFIED from the accredited Body CEISthermal conductivity value λ = 0,023 W/mK
- Has the optimum density for perfect thermal insulation
- Custom made for ELVIAL





ELVIAL recognizes that during difficult socio - economical periods, a money -saving technology fulfills every contemporary architectural need and becomes a true opportunity and passport for a sustainable and promising future.

That is why we develop pioneering solutions, in order to **boost the economy** in combination with environmental protection for future generations.

That is what ELVIAL I<sup>2</sup> Technology stands for.

### + FACTORY ASSURANCE

I<sup>2</sup> Technology is **exclusively** implemented in the robotic industrial complex of **ELVIAL**, without any further, outsource interference.

### + APPLICATION RANGE

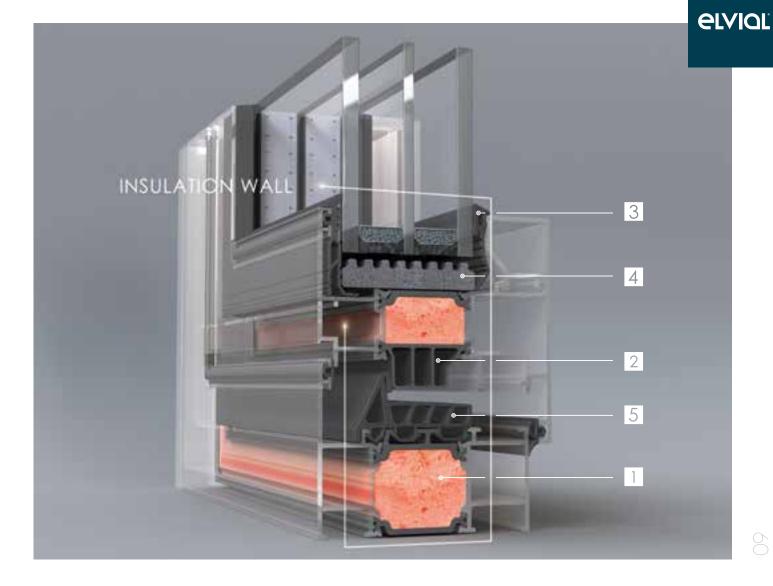
There is a full range of products available, consisted from the thermal brake MULTILOCK, XCLUSIVE and LIFT & SLIDE series, fulfilling every consumer's need, covering a plethora of design options.

### (+) CONSUMER BENEFITS

For the first time, consumers enjoy the valuable advantages of **security**, **soundproof**, **perfect functionality & durability for a lifetime**, **high aesthetics** with colors and double colors (different color inside & outside) ideally combined with **excellent thermal insulation for direct gain**.

# THE FOLLOWING PAGES CONCERN ALL OF YOU THAT YOU ARE LOOKING FOR...

Practical upgrade of your project, emphasizing on details. Ways to get informed about all those topics that are related to contemporary values and trends. Improvement of your environmental print. M Application of all principles and values related to environment - society - people. M Superiority and added



### ELVIAL INSULATION WALL

Optimum insulation of a building, not only creates comfortable living, but also energy saving, that automatically means **economical** and **environmental benefit**.

In ELVIAL, we "build" an insulation wall to the aluminium systems.

The application of the new **Technology ELVIAL I**<sup>2</sup> **1**, optimizes the isothermal flow and eliminates the transmission of the heat by radiation. **Polyamide** or **Polythermide bars 2**, that interfere between the inside and the outside part of the profile, are used for the effective insulation of a window. The width and the shape of the bar differentiate the energy performance of the system.

One of the weakest points of construction is the meeting point of the sash and the glazing. Using perimetrical glazing gaskets with fins 3 as well as low density polyethylene 4, this spot gets perfectly insulated. The cellular central gasket 5 fully covers the polyamide and becomes an additional insulation zone for the window.

### SECURITY

Feeling secure is an irreplaceable value, while protecting our beloveds is a primitive instinct.

According to statistics, 8 out of 10 house burglaries, where caused by breaking the windows.

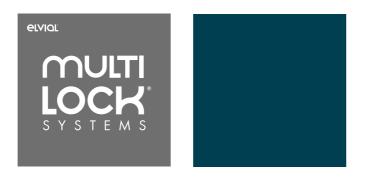
Creating Safe Environments is our priority, that is why we invented the international patented **ELVIAL MULTILOCK** systems.

**ELVIAL MULTILOCK** systems excel to five crucial points and were the first aluminium systems that were **WK2** certified:

- 1 perimetric locking up to21 points exclusively with:
- "mushroom head", steel armour pins (not roller)
- special safety locking plates, that prevent from unlocking in case of a burglary.

For lift & slide systems a **special anti lift mechanism** is applied, preventing from lifting and finally removing the sash.

2 **Tubular glazing bead** succeeds ultimate resistance against any pressure, attempting to subtract the glass out of the window.



- 3 Secustik handles that make more difficult to move the window fitting unlawfully from outside.
- 4 Certified according to DIN EN 356 Class P4A, **security** glazing.
- 5 Window mounting in galvanized steel frame, fixed with steel nails in masonry, or alternatively anchoring in concrete with special screw - anchors without plugs (type SPAX - RA) or similar.

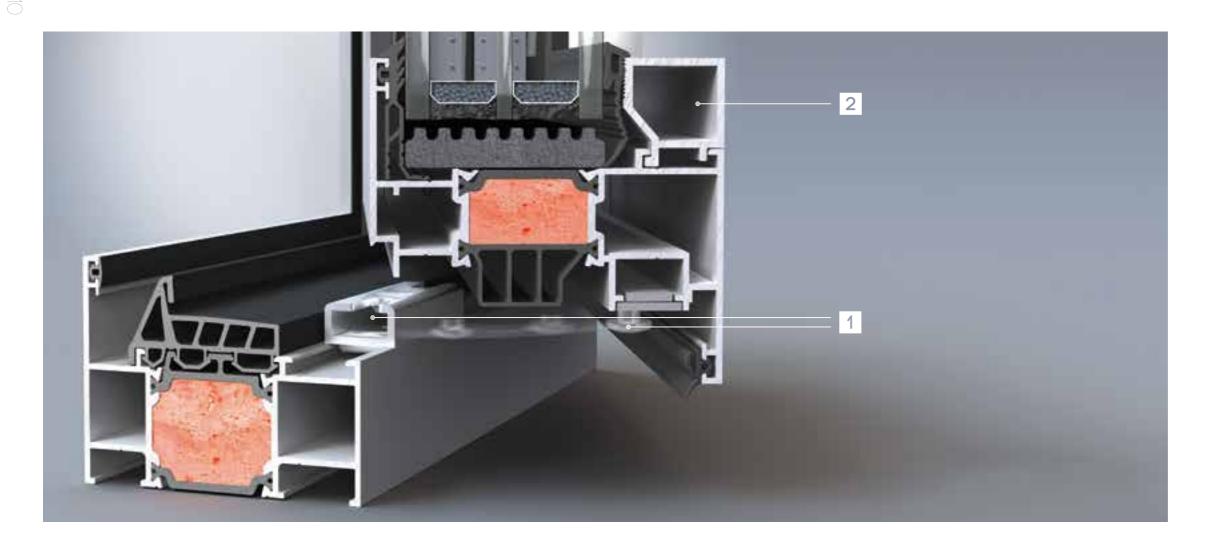
# ADVANCED SEALING SYSTEM

**ELVIAL** products offer exceptional water resistance (up to 300Pa) and wind permeability resistance (Class 4 – EN12210).

In opening systems we emphasize to the mullion (joining point of the 2 sashes), choosing **mullion end cups**, specially designed, made of double material (TPV+EPDM) sealing perfectly onto the profile, ensuring excellent water tightness.

We set as a precondition the use of **EPDM gasket corners** for the central and the outer glazing gasket, protecting effectively one of the weakest points of a window construction.

Special drainage channels on the frame and on the sash, that prevent water from flowing to the inner part of the profile.





### OPERFECT FUNCTIONALITY FOR A LIFE TIME

A quality window requires the least of maintenance and functions perfectly for a lifetime.

The characteristics and the mechanism of a window are the key to its robustness.

In openings, we use **solid corners joints** with specially design recesses to fasten the hinge pins, absorbing the glazing weight and ensuring the long lasting operation of the final product.

In lift & slides we use 2 kind of corner joints:

- 1. Crimped corner joints (use of crimping machine).
- 2. Mechanical corner joints, innovatively designed, clutching to the aluminium and not to the polyamide.

We use **alignment corners** made of polyamide material, giving extra rigidity. For systems specially designed for complex and demanding constructions we choose special **alignment corners with channels for glue inflow**, that re-enforce the construction and make a perfect assembly.

We prefer European labeled mechanisms (hinges, locking systems e.t.c.), that fulfill high quality standards. To heavy duty systems we design profiles with re-enforced thickness for **high values of moment of inertia**.

### HIGH AESTHETICS – COLOR OPTIONS

Superficial processes of profiles are: powder coating and anodizing. Both ways of overcoating, mainly protect the profile from possible erosion and secondly give perfect finish.

We dye all of our products thoroughly, to the vertical powder coating unit using special multitronic robots. There are 12, chrome free, chemical preparation stages creating a **super durable substrate** that ensures **long lasting final result**. The whole coloring procedure is **QUALICOAT** and **SEASIDE CLASS** certified, because we insist not only to high quality but to **certified quality** also.

We cooperate with **distinguished powder suppliers** world wide, ensuring the best of quality.

We offer **400+ color shades** proving you with numerous options.



Colors can affect the image and the feeling of an environment. Choosing colors is a **pleasant procedure that activates our creativity and upgrades our everyday living**.

Which colors do you chose?











# **XPERIENCE**

### elvial

# XCLUSIVe

The New Window Systems ELVIAL XCLUSIVE 85i2 / 86i2, are here to offer superior performance in energy efficiency, safety, sound insulation & contemporary design.





#### XCLUSIVE 86i<sup>2</sup> Multilock

# XCLUSIVE 85i<sup>2</sup> / 86i<sup>2</sup>

#### **OUTSTANDING THERMAL INSULATION**

#### Uf : 0.9 - 1.6 W/m<sup>2</sup>K

- Uw\* : 1.3 W/m<sup>2</sup>K with double glazing (Ug: 1.0)
- Uw\*\* : 1.3 W/m<sup>2</sup>K with double glazing (Ug: 1.0)
- Uw\* : 0.97 W/m<sup>2</sup>K with triple glazing (Ug: 0.6)
- **Uw**\*\* : **1.1** W/m<sup>2</sup>K with triple glazing (Ug: 0.6)
- Uw\* : 0.9 W/m<sup>2</sup>K with triple glazing (Ug: 0.5) **Uw**\*\* : **1.0** W/m<sup>2</sup>K with triple glazing (Ug: 0.5)

Three insulation levels:

- Optimized foam-filled insulation zone (ELVIAL I<sup>2</sup> Technology) that ensures excellent isothermal flow of the window.
- > Multi-chamber polyamide bars 34mm with glass fibers reinforcement 25%, (PA6.6 25 GF), for excellent insulation and extra rigidity.
- Specially designed central gasket with 5 cavities that covers all the polyamide surface, glazing gaskets with fins and perimetrical insulation with low density polyethylene, for effective heat transfer minimization.

#### SECURITY

Certified RC2 (WK2) security level, with up to 21 perimetric locking points.

#### **DURABILITY FOR A LIFETIME**

Width up to 1.600mm / sash 🔳 Height up to 2.400mm Weight up to 130kg / sash 🔳 Glazing up to 60mm

Perfect functionality:

- ▶ 3 Axis polyamide alignment corners with channels for glue inflow, for extra rigidity of the final product.
- Corner Joints with specially designed recesses to fasten the hinge pins absorbing the glazing weight and ensuring long lasting operation of the final product.
- ▶ Re-enforced profile wall thickness (1.5 2.0 mm) with high values of moment of inertia, suitable for wide and complex constructions.

#### ADVANCED SEALING SYSTEM, CONSISTED OF:

- Innovative Mullion End Cap made of TPV + EPDM to seal perfectly onto the profile, ensuring excellent watertightness.
- EPDM Gasket Corners for the central gasket and the outer glazing gasket.
- Special drainage channels on the frame and on the sash, which prevent water from flowing to the inner part of the profile.

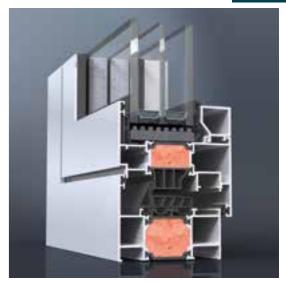


MINIMUM FACE WIDTH F-S: 109.5mm

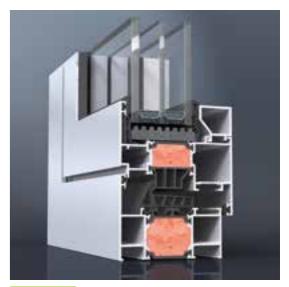
**SOUND REDUCTION** Certified 43dB Sound Reduction.



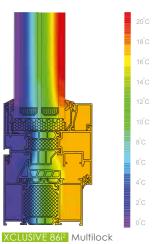




XCLUSIVE 86i<sup>2</sup> Multilock



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XCLUSIVE 85i<sup>2</sup> Camera Europea
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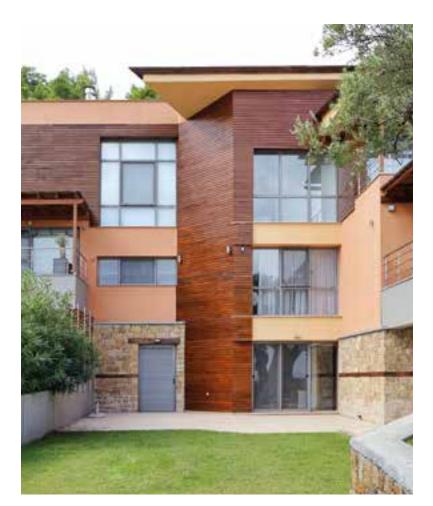


Isothermal Flow

elviai

# xclusive

With the New Window System ELVIAL **XCLUSIVE 87i**<sup>2</sup>, the outstanding thermal insulation and all the benefits of aluminium, are ideally combined with the classical look and feel of wood.





#### XCLUSIVE 87i<sup>2</sup> Aluminium + Wood

Aluminium + Wood

FEATURES + BENEFITS

#### **☆** OUTSTANDING THERMAL INSULATION

- **Uf** : **1.1 1.4** W/m<sup>2</sup>K
- Uw\* : 1.2 W/m<sup>2</sup>K with double glazing (Ug: 1.0)
- Uw\*\* : 1.3 W/m<sup>2</sup>K with double glazing (Ug: 1.0)
- Uw\* : 0.9 W/m<sup>2</sup>K with triple glazing (Ug: 0.6)
- Uw\*\*
   : 1.0 W/m²K with triple glazing (Ug: 0.6)

   Uw\*
   : 0.83 W/m²K with triple glazing (Ug: 0.5)
- **Uw**\*\* : **0.93** W/m<sup>2</sup>K with triple glazing (Ug: 0.5)

Three insulation levels:

- Optimized foam-filled insulation zone (ELVIAL I<sup>2</sup> Technology) that ensures excellent isothermal flow of the window.
- Multi-chamber polyamide bars 34mm with glass fibers reinforcement 25%, (PA6.6 25 GF), for excellent insulation and extra rigidity.
- Specially designed central gasket with 5 cavities that covers all the polyamide surface, glazing gaskets with fins and perimetrical insulation with low density polyethylene, for effective heat transfer minimization.

#### SECURITY

WK2 security level, with up to 21 perimetric locking points.

#### DURABILITY FOR A LIFETIME

Width up to 1.600mm /sash Height up to 2.400mm Weight up to 130kg /sash Glazing up to 48mm

Perfect functionality:

- 3 Axis polyamide alignment corners with channels for glue inflow, for extra rigidity of the final product.
- Corner Joints with specially designed absorbing the glazing weight and ensuring long lasting operation of the final product.
- Re-enforced profile wall thickness (1.5 2.0 mm) with high values of moment of inertia, suitable for wide and complex constructions.
- Luxurious appearance with wood all over the inside surface, even on the adjoining profile.
- 2 handles, one for each sash, for optimum ergonomy and pearless design.

#### ADVANCED SEALING SYSTEM, CONSISTED OF:

- Innovative Mullion End Cap made of TPV + EPDM to seal perfectly onto the profile, ensuring excellent watertightness.
- EPDM Gasket Corners for the central gasket and the outer glazing gasket.
- Special drainage channels on the frame and on the sash, which prevent water from flowing inside the inner part of the profile.

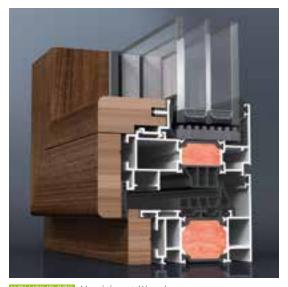


MINIMUM FACE WIDTH F-S: 109.5mm

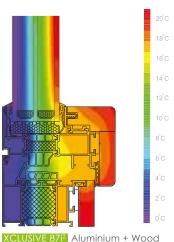




XCLUSIVE 87i<sup>2</sup> Aluminium + Wood



XCLUSIVE 87i<sup>2</sup> Aluminium + Wood



Isothermal Flow

# MULTILOCK 5600i<sup>2</sup>

#### FEATURES + BENEFITS

With international patent in 27 countries, the ELVIAL **MULTILOCK 5600i**<sup>2</sup> system offers advanced solutions for safety and energy efficiency plus unmatched durability, resisting 89-102 klm wind speeds.

#### HIGH THERMAL INSULATION

- Uf : 2.0 2.3 W/m<sup>2</sup>K
- Uw\* : 1.5 W/m<sup>2</sup>K with double glazing (Ug: 1.0)
- Uw\*\* : 1.6 W/m<sup>2</sup>K with double glazing (Ug: 1.0)
- **Uw**\* : **1.2** W/m<sup>2</sup>K with triple glazing (Ug: 0.6)
- Uw\*\* : 1.3 W/m<sup>2</sup>K with triple glazing (Ug: 0.6)

Three insulation levels:

- Optimized foam-filled insulation zone (ELVIAL I<sup>2</sup> Technology) that ensures excellent isothermal flow of the window.
- Polyamide bars maximum size 22mm with glass fiber re-enforcement 25% (PA6.6 25 GF), for improved insulation and extra rigidity.
- Central gasket, glazing gaskets with fins and perimetrical insulation with low density polyethylene, for effective heat transfer minimization.

#### SECURITY

Certified WK2 security level, with up to 21 perimetric locking points.

#### DURABILITY FOR A LIFETIME

Width up to 1.350mm /sash Height up to 2.350mm Weight up to 130kg /sash Glazing up to 53mm

Perfect functionality:

- Customized alignment corners made of polyamide, for extra rigidity of final product.
- Corner joints with specially designed recesses to fasten the hinge pins and absorb the glazing weight.

#### ADVANCED SEALING SYSTEM, CONSISTED OF :

- EPDM gasket corners for the central gasket, the outer glazing gasket and the perimetric gasket.
- Optimized EPDM specimen to connect the Mullion End Cup with the central gasket, for effective watertightness.
- Special drainage channels on the frame and on the sash, which prevent water from flowing to the inner part of the profile.

Water tightness result: E900, Ift Rosenheim Germany.





\* One sash construction 1.300mm X 2.200mm \*\* Double sash construction 1.500mm x 2.200mm

elvial

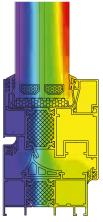






<sup>5600</sup>i<sup>2</sup> Multilock





5600i<sup>2</sup> Multilock Isothermal Flow









A pioneering technology, patented in 27 countries, that offers improved energy efficiency and high energy levels





#### 4600i<sup>2</sup> Multilock (linear & curved line)

# MULTILOCK 4600i<sup>2</sup>

#### FEATURES + BENEFITS

#### HIGH THERMAL INSULATION

- Uf : 1.8 2.2 W/m<sup>2</sup>K
- Uw\* : 1.5 W/m<sup>2</sup>K with double glazing (Ug: 1.0)
- Uw\*\* : 1.5 W/m<sup>2</sup>K with double glazing (Ug: 1.0)
- Uw\* : 1.2 W/m<sup>2</sup>K with triple glazing (Ug: 0.6)
- Uw\*\* : 1.2 W/m<sup>2</sup>K with triple glazing (Ug: 0.6)

Three insulation levels:

- Optimized foam-filled insulation zone (ELVIAL I<sup>2</sup> Technology) that ensures excellent isothermal flow of the window.
- Polyamide bars maximum size 24mm with glass fiber re-enforcement 25% (PA6.6 25 GF), for improved insulation and extra rigidity.
- Central gasket, glazing gaskets with fins and perimetrical insulation with low density polyethylene, for effective heat transfer minimization.

#### SECURITY

WK2 security level, with up to 21 perimetric locking points.

#### DURABILITY FOR A LIFETIME

Width up to 1.000mm /sash I Height up to 2.250mm Weight up to 90kg /sash I Glazing up to 45mm

#### Perfect functionality:

- Customized alignment corners made of polyamide, for extra rigidity of final product.
- Corner joints with specially designed recesses to fasten the hinge pins and absorb the glazing weight.

#### ADVANCED SEALING SYSTEM, CONSISTED OF:

- EPDM gasket corners for the central gasket, the outer glazing gasket and the perimetric gasket.
- Optimized EPDM specimen to connect the Mullion End Cup with the central gasket, for effective watertightness.
- Special drainage channels on the frame and on the sash, which prevent water from flowing to the inner part of the profile.

Water tightness result: E900, Ift Rosenheim Germany.

BASIC SYSTEM DEPTH: 58.6mm / 69mm

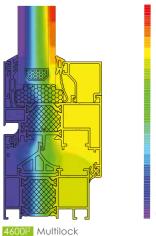
MINIMUM FACE WIDTH F-S: 102.1mm





4600i<sup>2</sup> Multilock





Isothermal Flow

# HIGH INSULATION SLIDING AND LIFT & SLIDE SOLUTIONS

MODERN ARCHITECTURE perceives the outdoor space as an extension of the indoor living and aims to offer to the building maximum comfort and space efficiency.

The Sliding Systems are the ideal solution to these needs. With their large glass surfaces, they offer maximum transparency and allow more natural light to penetrate the building, while giving extra freedom and flexibility in space utilization.

# LIFT & SLIDE **6800i**<sup>2</sup>

The heavy duty, Lift & Slide system, ideal for large openings, provides the best of the view combined with remarkable thermal insulation values

#### **HIGH THERMAL INSULATION**

Uf : 3.9 - 6.0 W/m<sup>2</sup>K

Uw\* : 1.7 W/m<sup>2</sup>K with double glazing (Ug: 1.0)

Uw\*: 1.3 W/m<sup>2</sup>K with triple glazing (Ug: 0.6)

Three insulation levels:

- Optimized Foam Filled insulation zone (ELVIAL i<sup>2</sup> technology) that ensures excellent isothermal flow of the window.
- Polyamide Bars maximum size 24mm with glass fibers re-enforcement 25% (PA6.6 25GF) for high insulation and extra riaidity.
- Glazing gaskets with fins and perimetrical insulation with low density polyethylene, for effective heat transfer minimization.

#### SECURITY

WK2 security level, using optional Anti-lift mechanism.

#### **DURABILITY FOR A LIFETIME**

Width up to 3.000mm / sash Height up to 2.896mm Weight up to 300kg / sash 🔳 Glazing up to 44mm

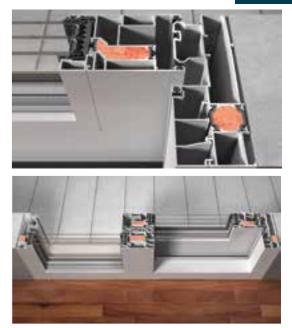
#### **ADVANCED SEALING SYSTEM, CONSISTED OF:**

Water and Air proofing with EPDM gaskets and a complete set of innovative sealing specimens made of cellular rubber for both Successive & Inwall constructions (lift & slide edition)





### elvial



6800i<sup>2</sup> Lift & Slide (one sliding sash & a fixed glazing part)

#### **SPECIAL FEATURES:**

- > Option of Electro motion with remote control
- Offers **Ergonomics**
- Silent Function
- **Easy** use and **smooth** sliding
- Solid Construction
- Modern, linear Design
- Use of INOX tracks
- Innovative central sealing and hook sealing
- Special Edition available with Sliding Sash and a Fixed Glazing part, where the glazing is placed directly into the frame, creating a minimalistic look.
- BASIC SASH DEPTH: 65.6mm

#### MINIMUM FACE WIDTH F-S: 144mm

#### NUMEROUS DESIGN OPTIONS

SUCCESSIVE CONSTRUCTIOS

- Sliding or L/S : 2 or 3 sashes & Sliding or L/S with Fly screen: 2 or 3 sashes
- Sliding or L/S Meeting Stile: 4 or 6 sashes -
- Sliding or L/S 1 Sash + 1 Fixed Glazing part

#### INWALL CONSTRUCTIONS

- Sliding or L/S: 1 sash (Glazing, Glazing-Fly screen, Glazing) Shutter, Glazing - Fly screen - Shutter) &
- ▶ Sliding or L/S Meeting Stile: 2 sashes (Glazing, Glazing-Fly screen, Glazing - Shutter, Glazing - Fly screen - Shutter)



Certified **41dB** Sound Reduction.



# SLIDE - LIFT & SLIDE 6700i<sup>2</sup>

With its exceptional WATER TIGHTNESS performance(300Pa) & ANTI-BURGLAR features of WK2 level, the thermal insulation system ELVIAL 6700i<sup>2</sup> has reasonably gained the first place in the preferences.

#### HIGH THERMAL INSULATION

Uf : 2.0 - 4.4 W/m<sup>2</sup>K (INWALL) Uf : 3.5 - 6.0 W/m<sup>2</sup>K (SUCCESSIVE) Uw\*: 1.7 W/m<sup>2</sup>K with double glazing (Ug: 1.0)

Three insulation levels:

- Optimized Foam Filled insulation zone (ELVIAL i<sup>2</sup> technology) that ensures excellent isothermal flow of the window.
- Polyamide Bars maximum size 24mm with glass fibers re-enforcement 25% (PA6.6 25GF) for high insulation and extra riaidity
- Glazing gaskets with fins and perimetrical insulation with low density polyethylene, for effective heat transfer minimization.

#### SECURITY

Certified WK2 security level, using optional Anti-lift mechanism.

#### **DURABILITY FOR A LIFETIME**

Width up to 2.000mm / sash Height up to 2.350mm Weight up to 150kg / sash 🔳 Glazing up to 28mm

Perfect functionality and smooth operation due to linear alignment of the glazing weight with the rollers.

#### ADVANCED SEALING SYSTEM, CONSISTED OF:

- Absolute sealing, using special brushes that contain either synthetic or textile membrane (sliding edition).
- Water and Air proofing with **EPDM gaskets** and a **complete set** of innovative sealing specimens made of cellular rubber for both Successive & Inwall constructions (lift & slide edition).

#### **SPECIAL FEATURES**

- Silent function & Smooth sliding
- Use of INOX tracks
- Modern and Linear design aligned to the contemporary Architectural trends with Narrow Successive Mullion Width 56.0mm instead of 89.1mm
- Optional Use of 3 mechanisms (L/S 90Kg, L/S 150Kg and simple sliding)
- **Special edition**: Combination of fixed glazing with sliding sash or lift & slide sash, offering a perfect solution for HOTELS & PUBLIC BUILDINGS.

#### BASIC SASH DEPTH: 46mm

MINIMUM FACE WIDTH F-S: 121.8mm







6700i<sup>2</sup> Lift & Slide (one sliding sash & a fixed part)

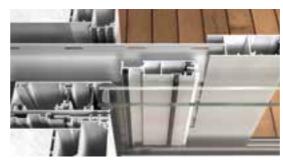
#### NUMEROUS DESIGN OPTIONS

SUCCESSIVE CONSTRUCTIOS

- Sliding or L/S : 2 or 3 sashes & Sliding or L/S with Fly screen: 2 or 3 sashes
- Sliding or L/S Meeting Stile: 4 or 6 sashes
- Sliding or L/S 1 Sash + 1 Fixed Glazing part & Sliding or L/S with Fly screen 1 Sash + 1 Fixed Glazing part

INWALL CONSTRUCTIONS

- Sliding or L/S: 1 sash (Glazing, Glazing-Fly screen, Glazing - Shutter, Glazing - Fly screen - Shutter) &
- Sliding or L/S Meeting Stile: 2 sashes (Glazing, Glazing-Fly screen, Glazing - Shutter, Glazing - Fly screen - Shutter)





6500 Lift & Slide (two sash meeting stile construction)

#### NUMEROUS DESIGN OPTIONS

- SUCCESSIVE CONSTRUCTIOS
- Sliding: 2 or 3 sashes & Sliding with Fly screen: 2 or 3 sashes
- ▶ Sliding Meeting Stile: 4 or 6 sashes
- Sliding 1 Sash + 1 Fixed Glazing part

INWALL CONSTRUCTIONS

- Sliding: 1 sash (Glazing, Glazing-Fly screen, Glazing Shutter, Glazing - Fly screen - Shutter) &
- Lift & Slide: 1 sash (Glazing Fly screen Shutter)
- Sliding Meeting Stile: 2 sashes (Glazing, Glazing-Fly screen, Glazing - Shutter, Glazing - Fly screen - Shutter) & Lift & Slide Meeting Stile: 2 sashes Glazing - Fly screen - Shutter)

# SLIDE - LIFT & SLIDE 6500

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AN EXCELLENT PROPOSAL for residential renovations and energy upgrades. The system offers numerous construction options and has remarkable Uf values - for its category - that improve the energy performance of the building.

#### **HIGH THERMAL INSULATION**

- Uf : 1.9 2.8 W/m<sup>2</sup>K (INWALL)
- Uf : 3.5 4.6 W/m<sup>2</sup>K (SUCCESSIVE)
- Uw\*: 1.8 W/m<sup>2</sup>K with double glazing (Ug: 1.0)

Two insulation levels:

- ▶ Polyamide Bars maximum size 28mm with glass fibers re-enforcement 25% (PA6.6 25GF) for high insulation and extra riaiditv
- > Glazing gaskets with fins and perimetrical insulation with low density polyethylene, for effective heat transfer minimization.

#### SECURITY

WK2 security level, using optional Anti-lift mechanism (lift & slide edition).

#### **DURABILITY FOR A LIFETIME**

Width up to 2.000mm /sash Height up to 2.350mm Weight up to 80 kg /sash (S) & 150kg/sash (LS) Glazing up to 24mm \$ & up to 28mm LS

Perfect functionality and smooth operation due to linear alignment of the glazing weight with the rollers

#### **ADVANCED SEALING SYSTEM, CONSISTED OF:**

- Absolute sealing, using special brushes that contain either synthetic or textile membrane (sliding edition)
- ▶ Water and Air proofing with EPDM gaskets and a complete set of innovative sealing specimens made of cellular rubber for both Successive & Inwall constructions (lift & slide edition)

#### **SPECIAL FEATURES**

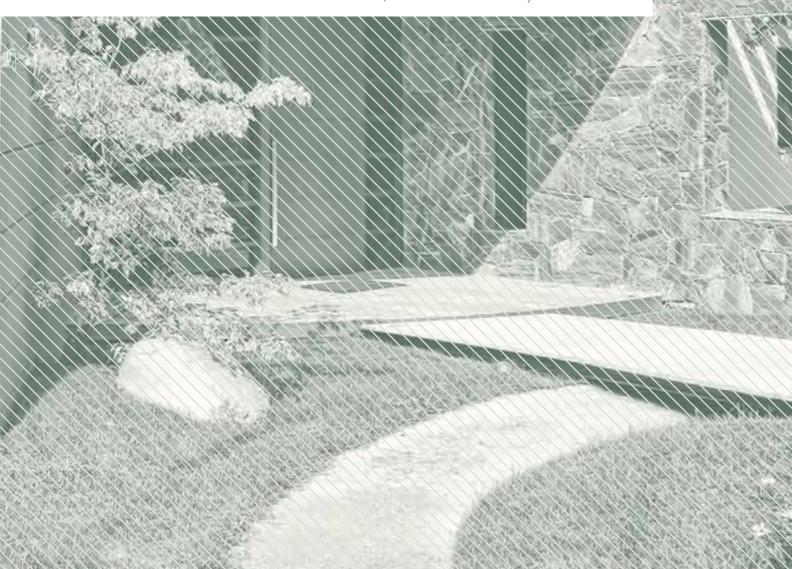
- ► Silent function & Smooth sliding
- Use of INOX tracks
- Modern and Linear design aligned to the contemporary
- Architectural trends with Narrow Successive Mullion Width 56.0mm instead of 91.7mm.
- Optional Use of 3 mechanisms (L/S 90Kg, L/S 150Kg and simple sliding)
- Special edition: Combination of fixed glazing with sliding sash or lift & slide sash, with significant cost reduction up to 50%.
- Ideal for renovations with Inwall Frame Depth of only 93.3mm (Glazing-Fly Screen-Shutter)

BASIC SASH DEPTH: 33mm / 46mm

MINIMUM FACE WIDTH F-S: 119mm

# OUTSTANDING INSULATION, MAIN ENTRANCE SYSTEM

The NEW Entrance System XOLUSIVE 88i<sup>2</sup> sets new standards in Energy Efficient Doors, offering countless design options with a basic depth of only 77mm.



### XCLUSIVE 88i<sup>2</sup> Ift. Main Entrance

FEATURES + BENEFITS

#### OUTSTANDING THERMAL INSULATION

Uf :> 1.69 W/m<sup>2</sup>K Ud\* : 1.2 W/m<sup>2</sup>K with panel 28mm (Up: 1.0) Ud\* : 0.95 W/m<sup>2</sup>K with panel 77mm (Up: 0.6)

#### Three insulation levels:

- Optimized foam-filled insulation zone (ELVIAL I<sup>2</sup> Technology) that ensures excellent isothermal flow of the window.
- Multi-chamber polyamide bars, maximum size 34mm with glass fibers reinforcement 25%, (PA6.6 25 GF), for excellent insulation and extra rigidity.
- Specially designed central gasket with 5 cavities that covers all the polyamide surface and glazing/panel gaskets with fins, for effective heat transfer minimization.

#### SECURITY

Cerifed Security Level RC3 (WK3) thanks to its compatibility with wide range of security and anti-burglar locks. Compatible with electronic access control systems. Locking System: Locks "U" type 24x6mm.

#### **DURABILITY FOR A LIFETIME**

- HH: Width up to 1.450mm /sash Height up to 2.550mm Weight up to 150kg/sash
- T4: Width up to 1.400mm /sash Height up to 2.350mm Weight up to 220kg/sash

Glazing up to 60mm Panel up to 77mm

#### Perfect functionality:

- 3 Axis polyamide alignment corners with channels for glue inflow, for extra rigidity of the final product.
- Re-enforced profile wall thickness (1.5 1.8mm) with high values of moment of inertia, suitable for wide and complex constructions.

#### ADVANCED SEALING SYSTEM, CONSISTED OF:

- 3 Level Sealing System with EPDM gaskets and continuous central gaskets on Sash, Frame and Threshold
- EPDM corners for both central gaskets and the outer glazing gasket
- Innovative Mullion End Cap made of TPV material, sealing perfectly onto the profile, ensuring excellent water tightness

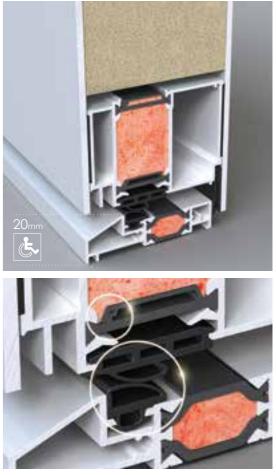
BASIC DEPTH FRAME: 77mm SASH: 77mm

MINIMUM FACE WIDTH K-Φ: 141.2mm T: 82mm

#### **EXTRA FEATURES**

- Anti-distortion glass fiber polyamides used on ALL sash profiles, in order to avoid the malfunctions caused by the profile expansion and contraction due to extreme temperature changes (banana effect).
- Easy-access threshold of 20mm.
- Option of automatic wind break.
- Optional use of various hinges (hidden hinge, external heavy duty hinge).

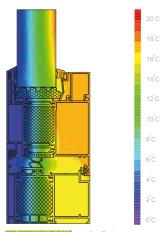
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XCLUSIVE 88i<sup>2</sup> Main Entrance

#### **DESIGN FREEDOM**

- Upgraded face-fitted door constructions that add value on the building's image
- Inward-opening and Outward-opening versions are available in ALL typologies
- > Single sash doors
- > **Double** sash doors
- > With fixed parts and/or with skylight
- Leaf-enclosing infills are available on one side or both sides of the sash
- Customized Dr.Hann Rollenband hinges available, in addition toexternal and cocealed ones.



XCLUSIVE 88i<sup>2</sup> Main Entrance Isothermal Flow



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# We create partnerships

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