

elvial



**INNOVATIVE TECHNOLOGIES\_  
ELVIAL PRE-ANODIZING 2IN1\_  
ELVIAL I<sup>2</sup> INSULATION TECHNOLOGY\_  
BE DIFFERENT.**

# ESSENCE STATEMENT.

THE ELVIAL SIGNATURE IS PROUDLY INSCRIBED ON THIS LINE, THAT PROPOSES A DIFFERENT WAY TO EXPERIENCE SPACE. IT CREATES FEELINGS WITH THE USE OF DESIGN AND ATMOSPHERE WITH TECHNOLOGIES. THE SPECS ARE AMONG THE FINEST IN ITS CATEGORY. RELIABILITY AND VERSATILITY ARE AMONG ITS KEY FEATURES.

THE MINIMAL LINES AND TOP NOTCH TECHNOLOGIES ARE COMBINED TO ILLUSTRATE A POINT WE CONSIDER ESSENTIAL. A QUALITY PRODUCT GENERATES QUALITY WORK AND, ULTIMATELY, SUPERIOR EXPERIENCES. THIS COLLECTION CAN HELP ARCHITECTS MATERIALIZE MANY POSSIBILITIES AND IT IS ARCHITECTS' CREATIVITY THAT CAN EXPAND THE COLLECTION'S POTENTIAL FURTHER.

**CREATE THE TOTAL EXPERIENCE OF SPACE.  
CREATE NEW POSSIBILITIES.**

# ESSENCE W67 HI<sup>2</sup>

ESSENCE W67 HI<sup>2</sup> is a different way to experience space. It puts mind over matter. It uses design to create feelings and technologies to create atmosphere. The specs are always important but it is the ELVIAL signature that ensures you'll get the best of everything.

Limiting the contour to what is absolutely necessary. Assuring that ESSENCE W67 HI<sup>2</sup> harbours every technology required to create ideal atmosphere and ensure energy efficiency and security. This is how we design.

**HARMONY BECOMES TACTILE.  
GET THE BEST OF EVERYTHING.**



## ESSENCE W67 HI<sup>2</sup>\_BS

This solution promises minimal look and elegance. It delivers beauty and comfort. ESSENCE W67 HI<sup>2</sup>\_BS is the harmony in visible form.

**ESSENCE W67 HI<sup>2</sup>.ML\_BS** | for Multilock groove mechanism  
**ESSENCE W67 HI<sup>2</sup>.CE\_BS** | for European groove mechanism [CE]

*Blind Sash typologies*  
Windows,  
Balcon doors,  
Window Walls

## ESSENCE W67 HI<sup>2</sup>

Add an obvious asset to any project with ESSENCE W67 HI<sup>2</sup>. It is the go to solution when flexibility and dependability are of utmost importance.

**ESSENCE W67 HI<sup>2</sup>.ML** | for Multilock groove mechanism  
**ESSENCE W67 HI<sup>2</sup>.CE** | for European groove mechanism [CE]

*Classic Linear typologies*  
Windows,  
Balcon doors,  
Window Walls



# Essence W67 HI<sup>2</sup>\_BS

When creativity is an integral part of your day job, devising new opportunities and way of seeing things is part of the process and a great reward.

Broadening this sense of possibility is what we do with this solution.

We combined minimal looks with optimal technologies to produce unparalleled quality.

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# FREE DOM

This solution can produce aesthetic effects of iconic level.

The slim lines, the variety of finishes and the meticulous detailing can be tailored to accommodate all your concepts and plans.



# VIEW

Open a whole new world of possibilities.

The system that allows for streamlined minimal looks and unique architectural creations.



# INS PIR ATION

Picture this.  
A space filled with light, that offers a fabulous view  
to skies in urban or rural environments.

And in that space the exquisite props that complete  
the scene.

This picture will find an impeccable frame  
in ESSENCE W67 HI².

Then your main concern about the surroundings  
will be the delicate details. Art, plants or objects.



# Essence W67 HI<sup>2</sup>

This solution combines elegant style and optimal technologies to open new possibilities for you and your clients.

It is tailored to ensure superior implementation according to your project specs.



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DESIGN SIGNATURE

Superiority is a result of a fortunate conjugation between a unique idea and the flawless implementation.

Whether you come up with a plan for a small scale private project or an imposing public construction you can rest assured that this solution is what you need to masterfully materialize it.

# Attention to Details.

An ingenious take on elegance.

The precise lines, slim contours and attenuated particulars that make the ESSENCE collection aesthetically exceptional are present in this solution.

Put your creativity to work to see what it can do for you.



ESSENCE W67 HP<sup>2</sup>.ML\_BS EDITION

### MAXIMUM VIEW

The conjunction of sashes never looked sleeker. The integrated adjoining profile minimizes the central vertical profile view to just 78mm and the perimetrical contour to 66mm only. Boundaries are being eliminated.



### FIRM & MINIMAL

Specially designed T - profiles with inner reinforcement upping of just 10mm, ideal for sturdy constructions with wide openings, consistent with modern architectural trends.



### INDUSTRIAL DESIGN WINDOW WALLS

This exclusively developed and uniquely designed collection of profiles allows you to create window walls with an exemplary industrial look and feel.



ESSENCE W67 HP<sup>2</sup>.ML EDITION  
ESSENCE W67 HP<sup>2</sup>.ML\_BS EDITION

### UNOBSTRUCTED TRANSIT

Open passage thanks to just 20mm height frame. Ideal for PWD and children.



### SAME LEVEL APPEARANCE INWARDS

Ultimate same level appearance on the inner side of the window, thanks to the application of a specially designed frame. Ideally featured to the application of a hidden tilt and turn mechanism.

# Extra Features.

Form follows function, they said.

We glorified form by concealing the functional components.

Hinges to open or tilt that go undetected.



# Extra Features.

Handles so sophisticated that render grace to industrial design.

AVAILABLE IN ML EDITIONS

AVAILABLE IN CE EDITIONS

## COLORS



Black



Inox Satine



Natural Anodizing



## COLORS



Black



White

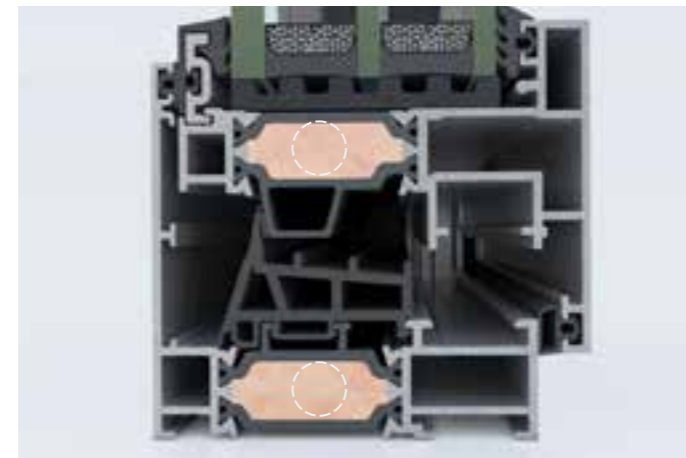


Grey

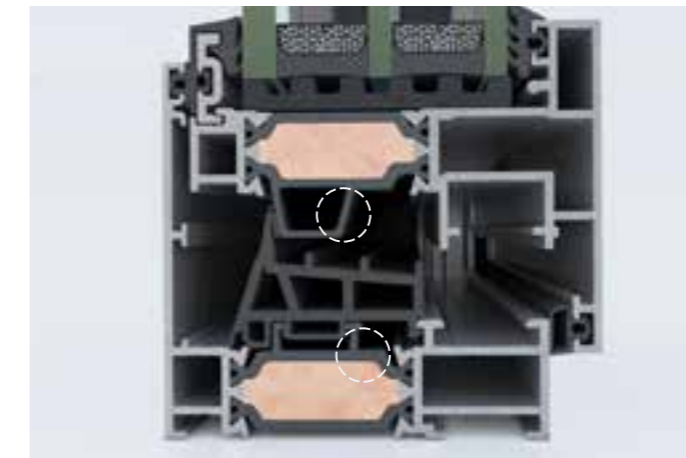
# The TECHNOLOGY

You can feel it on a cold night.  
 You'll appreciate it on a hot day.  
 You'll love this when you run your budget.

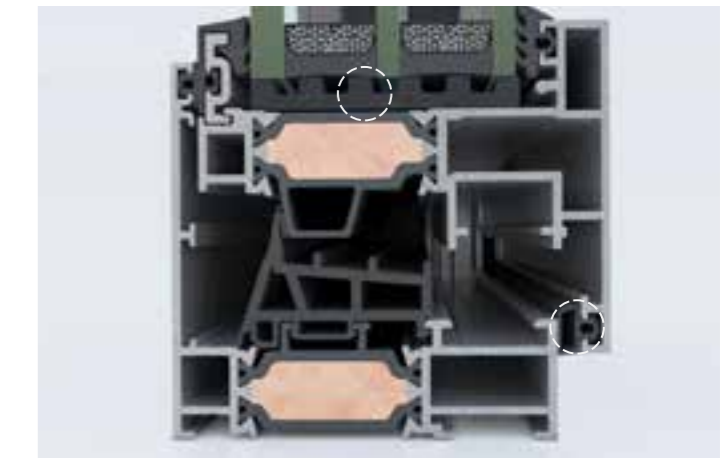
## OPTIMAL THERMAL INSULATION



**ELVIAL I<sup>2</sup> \_ INNOVATIVE INSULATION TECHNOLOGY**  
 The Innovation ELVIAL I<sup>2</sup> Technology is applied to all system profiles. This way, an extra insulation zone is created in the middle chamber of the profile, boosting the system's energy performance by up to 38%.



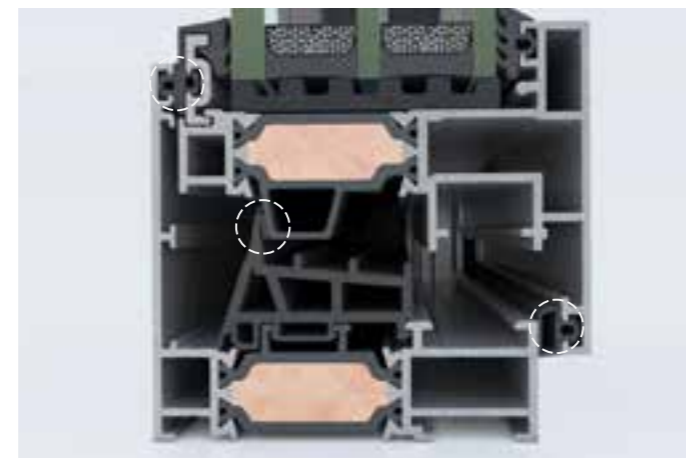
**WIDE INSULATING BARS 32mm**  
 Wide insulating bars of 32mm with glass fiber re-enforcement 25%, are applied to all system profiles, offering high thermal insulation levels and extra rigidity.



**CO-EXTRUDED GASKET & FOAM INSULATING PROFILE**  
 Co-extruded gasket is used in the perimetrical area of the window, improving energy performance. Whilst foam insulating profile is fitted below the glazing zone, minimizing thermal energy loss.

## ADVANCED SEALING SYSTEM

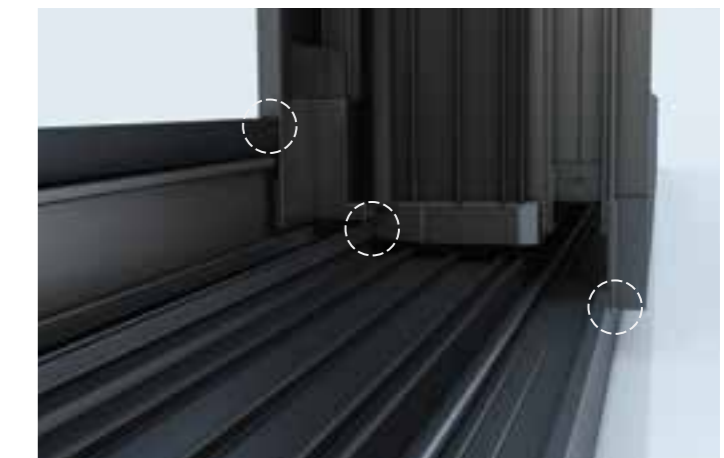
We have developed the Advanced Sealing System to water-proof any construction. Vulcanization and assembly render all parts of the window impermeable.



**OPTIMAL 3-LEVEL SEALING**  
 Optimal 3-level waterproofing with specially designed EPDM and co-extruded gaskets.



**EPDM CORNERS**  
 Special vulcanized EPDM corners ensuring maximum sealing at edge corners of the window, even at extreme weather conditions.



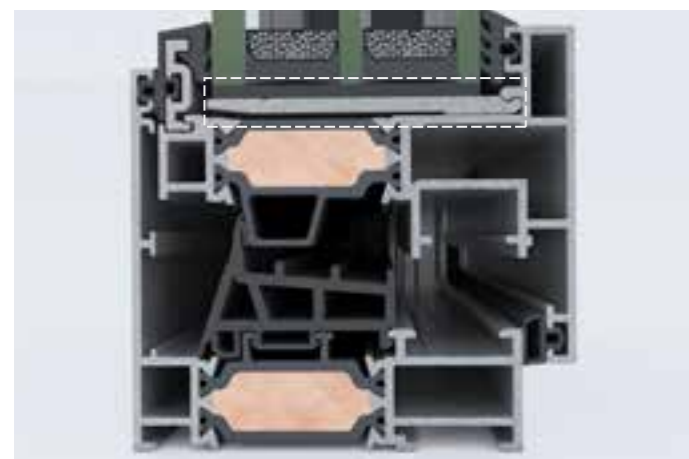
**EPDM ADJOINING PROFILE END CUP**  
 The EPDM adjoining profile end cup ensures excellent waterproof performance, even on double sash typologies.

# The TECHNOLOGY

It's details like this that fulfil the highest requirements in terms of endurance.

Feel a high level of durability the benefits of which you will enjoy overtime.

## DURABILITY FOR A LIFE TIME



### SUPPORT FOR GLAZING LOAD TRANSFER

This kind of support transfers the weight of the glass to the inner side of the window sash where all the functional elements of the mechanism are positioned. This way excellent functionality and smooth operation of the window are ensured for a life time, regardless of the weight of the glass.

## LOOKING FOR THE BIG PICTURE

We are committed to an ambitious policy aimed at limiting the direct and indirect impacts of our activities on the environment, throughout the life cycle of our products.

ELVIAL always sets more ambitious targets for reducing environmental pollution and aims to help its customers reduce emissions through greener aluminum products.

## GOALS WE ACHIEVE:

- // We have the right suppliers - suppliers dedicated to responsible practices and innovative ways in order to reduce carbon footprint.
- // We're committed to the highest standards in aluminium recycling, and always looking for new opportunities through investment, technology and innovation.
- // We drive to minimize waste in every possible way. From the materials we purchase to the aluminium we use, the goal is always zero waste.
- // We implement a certified environmental management system (ISO 14001).

# The ENERGY LEVELS

Different conditions in environment and climate demand tailored solutions.

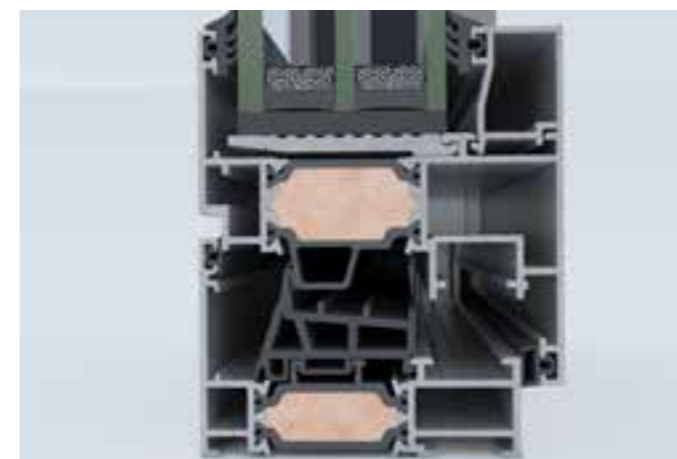
There are four energy level variables to this product so you can devise the best answer to any demand.

LEVEL 1 | Uf:  $\geq 1.8$  W/m<sup>2</sup>K



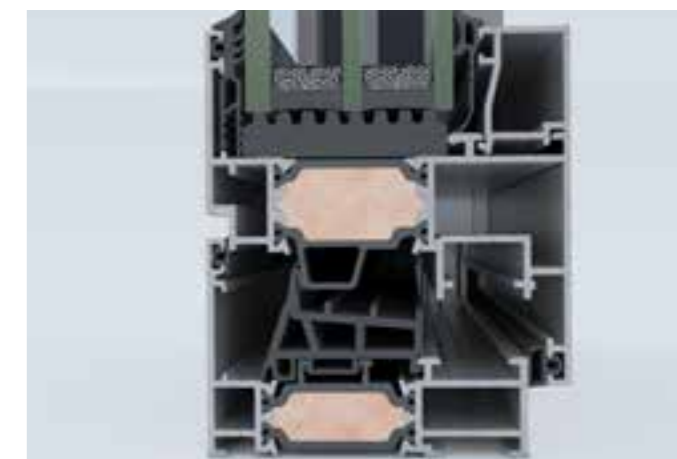
BASIC

LEVEL 2 | Uf:  $\geq 1.2$  W/m<sup>2</sup>K



ELVIAL I<sup>2</sup> \_ INNOVATIVE INSULATION TECHNOLOGY

LEVEL 3 | Uf:  $\geq 1.1$  W/m<sup>2</sup>K











ELVIAL I<sup>2</sup> \_ INNOVATIVE INSULATION TECHNOLOGY  
FOAM INSULATING PROFILE & GLAZING GASKETS WITH FINS



# The IDENTITY

It's a feeling. It's precious. What should be kept outside -noise, water, wind- is kept outside. What's inside is safe and sound. This is where we set our boundaries and keep them intact.

The performance of ESSENCE W67 HI<sup>2</sup> on all factors affecting interior environment is outstanding and certified by the German Institute Ift Rosenheim.

		<u>BS</u>	<u>CLASSIC</u>
<b>System Depth</b>		67 mm	67 mm
<b>Min Face Height</b> <i>Frame - Sash</i>		66 mm	89 mm
<b>Min Face Height</b> <i>Threshold - Sash</i>		56 mm	-
<b>Min Face Width</b> <i>Middle Mullion</i>		78 mm	154 mm
<b>Max Sash Height</b>		2.400 mm	2.800 mm
<b>Max Sash Width</b>		1.200 mm	1.600 mm
<b>Max Sash Weight</b>		130 kg	200 kg
<b>Max Glass Thickness</b>		46 mm or 28 mm	57 mm



# The PERFORMANCE

Create the maximum impact. Enjoy less frame and more of everything else; warmth, comfort, light and scenery.

<u>CHARACTERISTIC</u>	<u>STANDARD</u>	<u>VALUE</u>
<b>ENERGY</b>		
Thermal Insulation Uf	EN ISO 10077-2	≥1.1 [ Classic ] ≥1.8 [ BS ]
<b>COMFORT</b>		
Air Permeability	EN 12207	up to <b>4</b> [ 600Pa ]
Water Tightness	EN 12208	up to <b>E1050</b> [ 1.050Pa ]
Resistance to Wind Load	EN 12210	up to <b>C5 / B5</b> [ 2.000Pa ]

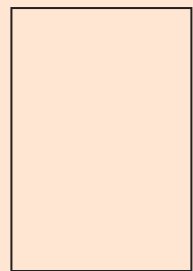


# The TYPOLOGIES

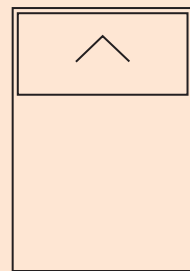
ESSENCE W67 HI<sup>2</sup> offers a plethora of construction solutions that will definitely exceed your expectations and deliver projects with unparalleled character.



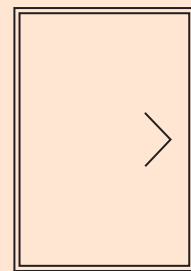
## SINGLE SASH WINDOWS



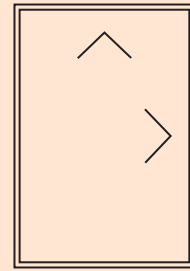
Fixed Window (square, round)



Fixed Window with Skylight



Opening Window

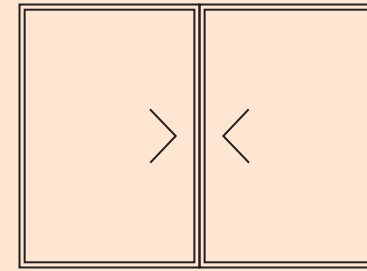


Tilt & Turn Window

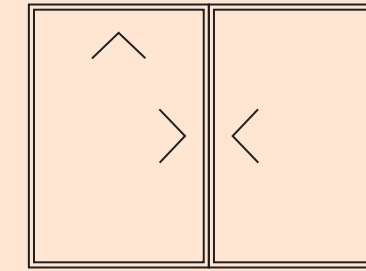


Top Hung Window

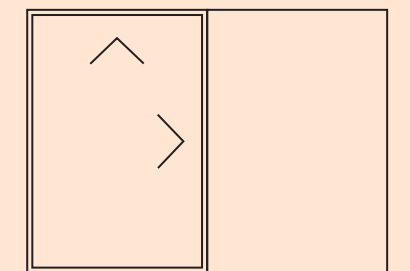
## DOUBLE SASH WINDOWS



Opening Window

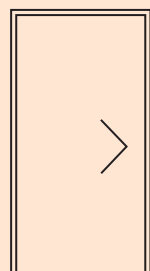


Tilt & Turn Window

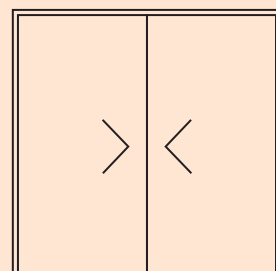


Tilt & Turn Window with Fixed

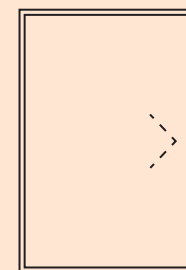
## DOORS [ ML & CE LOCKS ]



Single Door Inward Opening

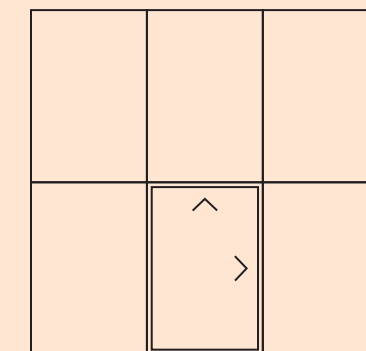


Double Door Inward Opening

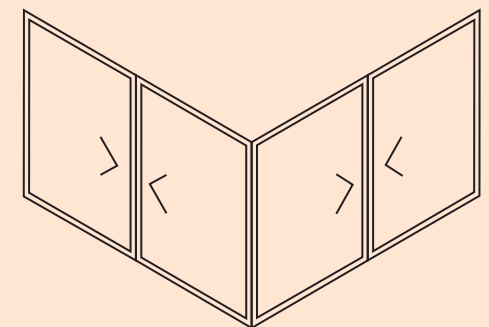


Outward Opening Window

## SPECIAL TYPOLOGIES



Window wall with Tilt & Turn Window



Angular construction

## The FINISHINGS

The right choice of color may uplift the aesthetic result and add value to the building image, contributing, at the same time, to the well-being of everyday users.

There are 2 basic technologies developed for surface treatment. Powder Coating and Anodizing.

BUT if you want to achieve the ultimate combination of these 2 methods the solution is given by Pre-anodizing.

### ELVIAL PRE-ANODIZING 2IN1

- // Zero waiting time
- // Spotless environment
- // Robotic handling

#### THIS IS WHAT ELVIAL Pre-Anodizing 2in1 is all about.

ELVIAL owns the first in Greece and one out of seven worldwide, fully automated serial pre-anodizing and powder coating lines.

ELVIAL Pre-Anodizing 2in1 facility is robotic. No human hand meddles with the materials; the production environment is free of dust and other aggravating factors.

The profiles are subdued to an electrochemical procedure identical to that of anodizing.

### STRONGER THAN TIME. STRONGER THAN ELEMENTS.

The aluminum profiles are placed in an underground tunnel and submerged in a sulfuric acid solution. Pre-anodizing produces an anodic substrate on the surface of the aluminum profile that protects it from corrosion.

Then the profiles are serially painted, eliminating waiting time, whilst the pores on the aluminium surface of the profile are completely sealed.

Pre-anodized aluminum profiles are automatically categorized as **Sea Proof Plus**.

ELVIAL Pre-Anodizing 2in1 is uniquely combined with Class 2 Super Durable powder coatings.



# Our COLOR COLLECTION

Colors can be playful and eye catching. They can be soothing and encompassing. The hues and textures are of utmost importance because they highlight the design.

We form them keeping in mind prominent architects' preferences and international trends.

This is  
ELVIAL COLOR COLLECTION  
[Favorites\_ Express and Favorites]

## CLASS 2 SUPER DURABLE

Do the right choice.

Combine pre-anodizing with class 2 powder coating colours. Achieve maximum anti-corosion and radiance resistance, even under extreme sun light.

The super durable powder coatings are 3 times more resistant to sun radiation and render the profiles practically indestructible.

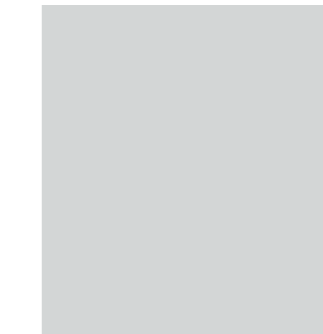
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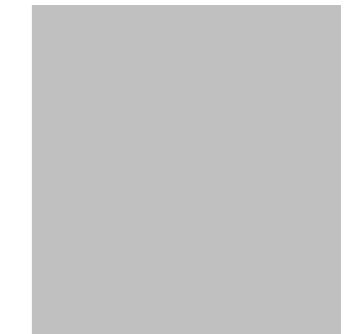
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SAHARA.507



YW365F.GRIS 2150



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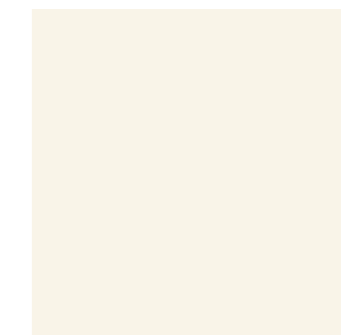
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MESOGIOS.807



AMMOS.9010



MESOGIOS.815



MESOGIOS.813



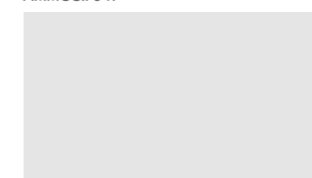
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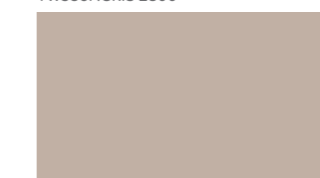
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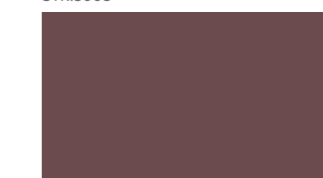
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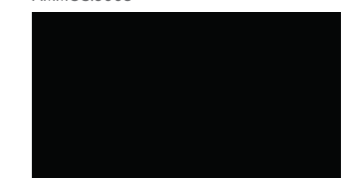
YW356F.GRIS 2800



STR.3005



AMMOS.9005



# Our SUPPORT

## WE ARE HERE FOR YOU

We always search for technology, for design and beyond that we search for excellence.

We collaborate as a strong team, in order to give you that.

We answer to technical or non-technical questions, we offer a wide range of products always having in mind that you control unique and demanding projects.

We act quickly and instantly because everything we do impacts on your customers; so you need to operate effectively.



## ELVIAL FOR YOU

- // Technical manuals
- // dwg and BIM files
- // Section drawings
- // Construction plans and structural calculations
- // Customized solutions in order to fit the specifications
- // Certificates for Uf, wind loads, water tightness, air permeability

However all that matters in the end is the delivered quality. ELVIAL has a certified network of partners, with extensive experience and excellent training that will complete projects in accordance with timelines and high quality standards.

## ELVIAL FOR YOUR CLIENTS

- // B2C brochures
- // Samples for colors in order to see and feel finishings and textures
- // Product boxes
- // Reference projects from our product collections



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