

elvial



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Iconic W77ST AI²

**INNOVATIVE TECHNOLOGIES_
ELVIAL PRE-ANODIZING 2IN1_
ELVIAL I² INSULATION TECHNOLOGY_
BE DIFFERENT.**

ICONIC STATEMENT.

ICONIC SYSTEMS ARE SO CAREFULLY CRAFTED THAT EXPERTS IDENTIFY THEIR QUALITIES AND NON-EXPERTS SIMPLY ENJOY THE BENEFITS. WE HAVE ENVISIONED THIS COLLECTION OF SYSTEMS TO BE THE PINNACLE OF OUR COLLECTIONS.

INDUSTRIAL LOOKS AND TRANSPARENT GLASS SCREENS ARE UPENDED BY OUR FLAT DESIGN ELEMENTS AND MINIMAL INNER FACE WIDTHS.

SOLUTIONS THAT BLUR THE BOUNDARIES BETWEEN INTERIORS AND EXTERNAL ENVIRONMENTS WITH THE FORMER JUXTPOSING THE LATTER.

UNIQUE DESIGN IS COMBINED WITH TECHNOLOGY THAT STANDS OUT OFFERING TO ARCHITECTS THE FREEDOM TO DESIGN IMAGINATIVELY AND DELIVER PROJECTS WITH UNPARALLELED CHARACTER.

**BE INSPIRED WITH NO BORDERS NOW.
BE INSPIRED. BE FREE.**

ICONIC W77ST AI²

More often than not style is an exercise in equilibrium. Like walking on a very fine line. This is the best asset of this system. The lines are so fine that render the detailing an expert demonstration of balance. This along with the advanced technologies featured makes up for one thing: perfection.

MAKE IT HAPPEN.

It is our firm belief that the window is always part of the interior design concept. A window system with a unique character in terms of exceptional design, technology & comfort. We create the frame that shapes your vision, keeps it safe and makes it beautiful.

A clean Minimal Design,
a fascinating industrial look or
a retro feeling?



MINIMAL



INDUSTRIAL



RETRO

**QUEUE YOUR PERSONAL TASTE.
TAKE IT TO THE NEXT LEVEL.**



W

MI NI MAL

You need something extra;
extra character, extra bravura, extra attitude.

Create minimal frames to maximize sightlines
and reveal the essence of simplicity.



INDUSTRIAL

This system is stylish, versatile and malleable. It emphasizes spaces of industrial intensity and reflects its identity.

The result is a linear visible aluminium that meets the environmental impact and lets you enjoy the freedom.

It's all up to you.





R

RE TRO

When elegance and design come first, Iconic W77ST AI² fits perfect in your projects.

Inscribe intriguing, retro structure and deliver a timeless window which is beautiful from all aspects in all times.



Attention to Details.

An ingenious take on elegance.

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

Minimal design, industrial look or a retro feeling?

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



MAXIMUM VIEW

The conjunction of sashes never looked sleeker. The integrated adjoining profile minimizes the central vertical profile view to just 89mm and the perimetrical contour to 68mm only. Boundaries are being eliminated.



INGENUITY

God is in the details, they say. Change one detail and see a new creation. That is what we did and created a different perspective. Now the inner contour of the window is no longer plain-looking. The effect is iconic. Ready to become a part of a new creation.



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.

Extra Features.

COLORS



Black



White



Grey

Form follows function, they said.
We glorified form by concealing the functional components.



Hinges to open or tilt that go undetected.



Move without limits.
The windows of the Iconic W77ST AI² collection allow 180° opening even in hidden mechanism version.



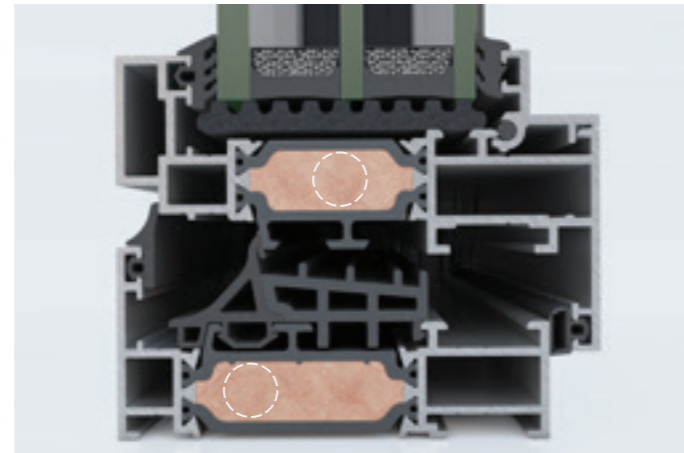
Handles so sophisticated that render grace to industrial design.



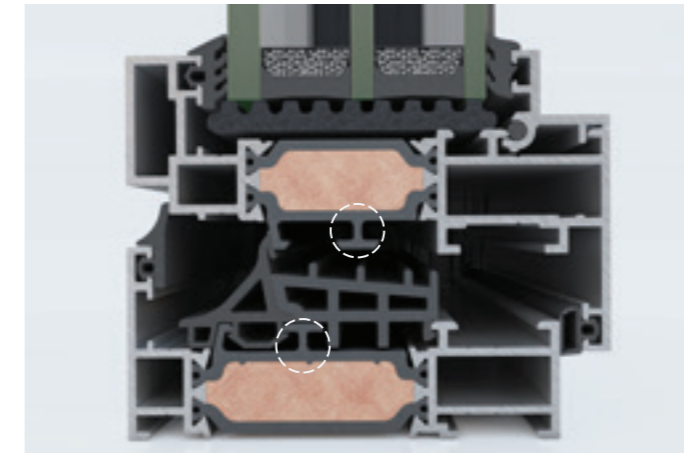
The TECHNOLOGY

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.

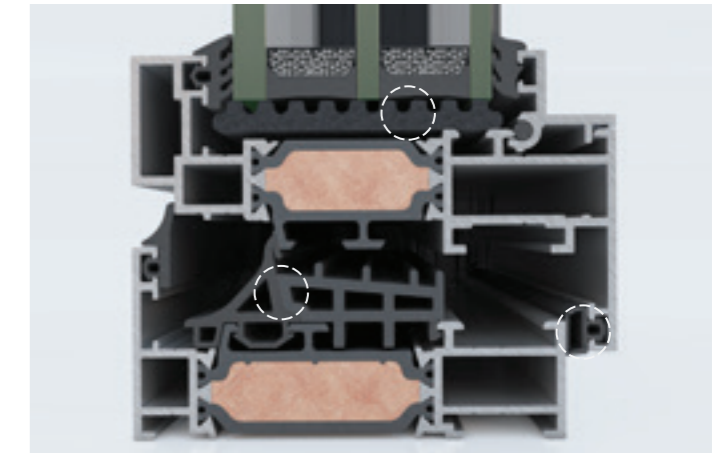
SUPERIOR THERMAL INSULATION



ELVIAL I² _ INNOVATIVE INSULATION TECHNOLOGY
 The Innovation, ELVIAL I² Technology, is applied on all system's profiles. This way, an extra insulation zone is created in the middle chamber of the profile, boosting the system's energy performance [Uf] by up to 38%.



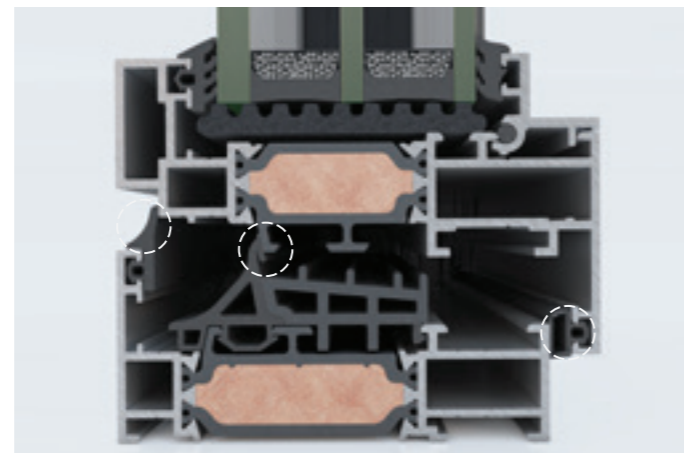
UP TO 42mm INSULATING BARS
 Wide insulating bars of up to 42mm with glass fiber re-enforcement 25%, are applied to all system profiles, adding extra thermal insulation and extra rigidity.



CO-EXTRUDED GASKETS
 Co-extruded gaskets are used in the central and perimetrical area of the window, whilst low density polyethylene is applied below the glazing area, optimizing the isothermal flows.

ADVANCED SEALING SYSTEM

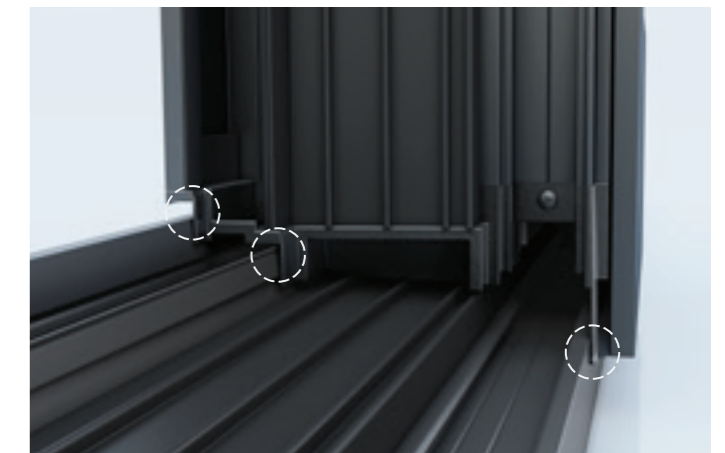
We have developed the Advanced Sealing System to water-proof any construction. Vulcanization and assembly render all parts of the window impermeable.



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



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



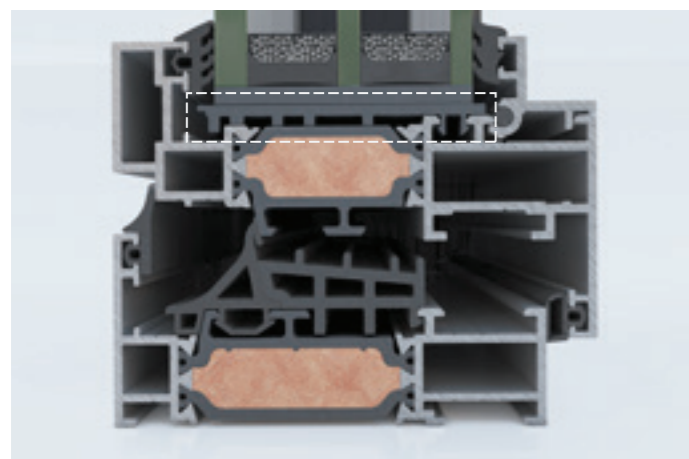
EPDM END CUPS FOR ADJOINING PROFILE
 The EPDM adjoining profile end cup with "clever" clips ensures excellent waterproof performance, even on double sash typologies.

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 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.

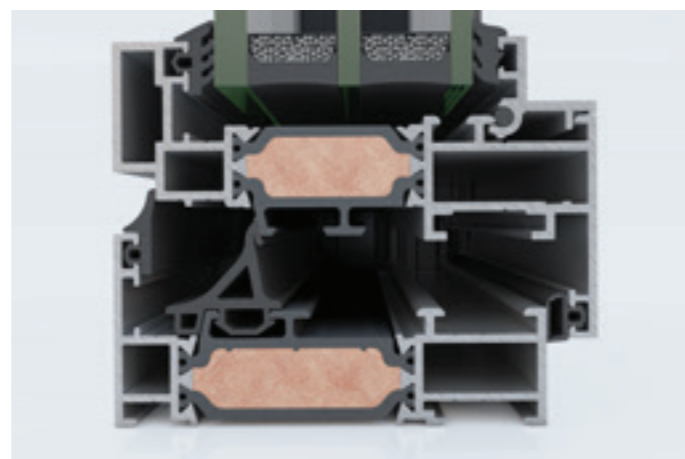
There are four energy level variables to this product so you can devise the best answer to any demand.

LEVEL 1 | Uf: ≥ 2.1 W/m²K



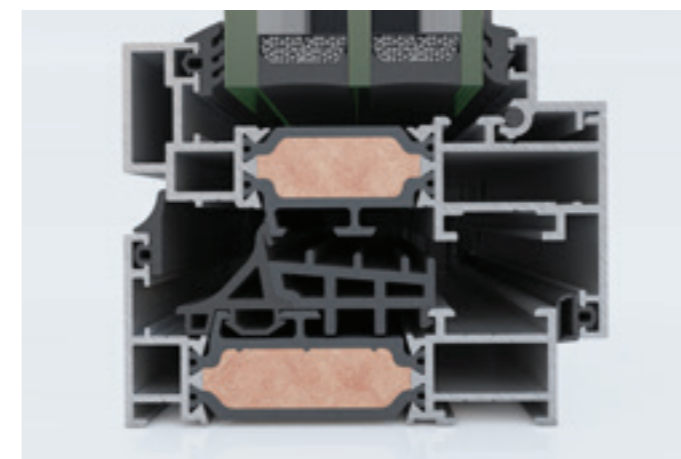
BASIC

LEVEL 2 | Uf: ≥ 1.7 W/m²K



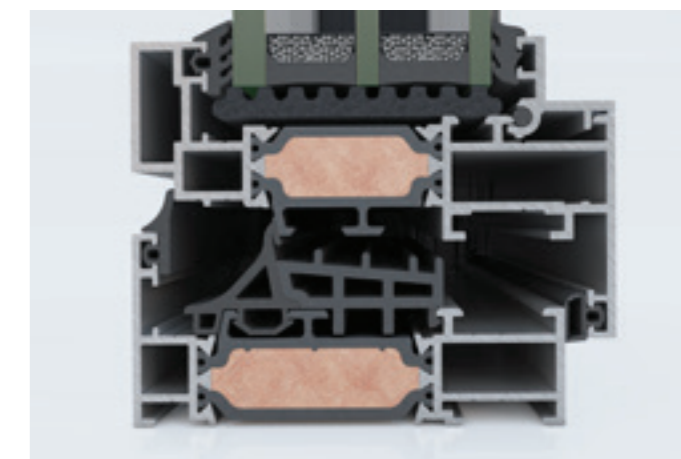
ELVIAL I² _ INNOVATIVE INSULATION TECHNOLOGY

LEVEL 3 | Uf: ≥ 1.5 W/m²K



ELVIAL I² _ INNOVATIVE INSULATION TECHNOLOGY
FOAMED EPDM GASKET INSULATION

LEVEL 4 | Uf: ≥ 1.4 W/m²K



ELVIAL I² _ INNOVATIVE INSULATION TECHNOLOGY
FOAMED EPDM GASKET INSULATION
FOAM INSULATING PROFILE

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 ICONIC W77ST AI² on all factors affecting interior environment is outstanding and certified by the German Institute Ift Rosenheim.

System Depth		77 mm
Min Face Height <i>Frame - Sash</i>		68 mm
Min Face Width <i>Middle Mullion</i>		89 mm
Max Sash Height		2.400 mm
Max Sash Width		900 mm
Max Sash Weight		130 kg
Max Glass Thickness		56 mm



The PERFORMANCE

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

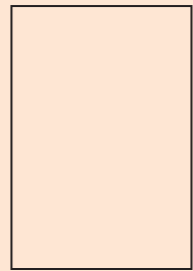
<u>CHARACTERISTIC</u>	<u>STANDARD</u>	<u>VALUE</u>
ENERGY		
Thermal Insulation Uf	EN ISO 10077-2	≥ 1.4
COMFORT		
Air Permeability	EN 12207	up to C4 [600Pa]
Water Tightness	EN 12208	up to 9A [600Pa]
Resistance to Wind Load	EN 12210	up to C4 / B4 [1.600Pa]

The TYPOLOGIES

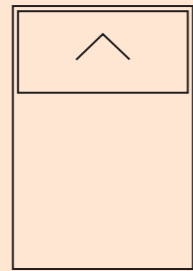
ICONIC W77ST AI² offers a plethora of construction solutions that will definitely exceed your expectations and deliver projects with unparalleled character.



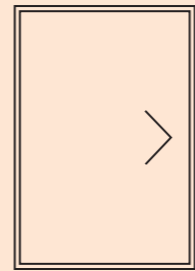
SINGLE SASH WINDOWS



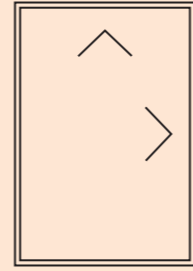
Fixed Window (square, round)



Fixed Window with Skylight



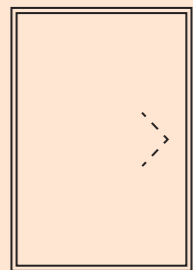
Opening Window



Tilt & Turn Window

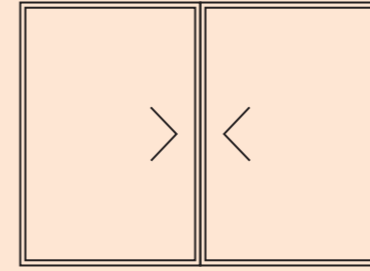


Top Hung Window

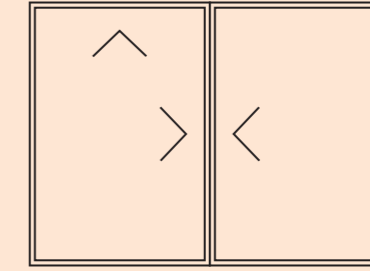


Outward Opening Window

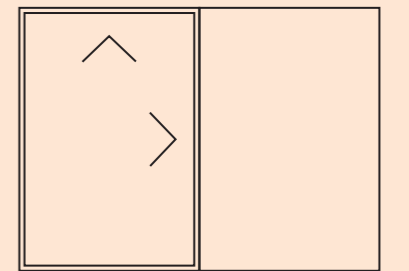
DOUBLE SASH WINDOWS



Opening Window

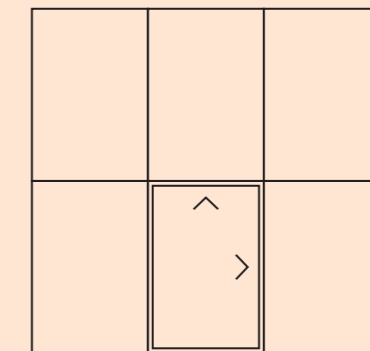


Tilt & Turn Window

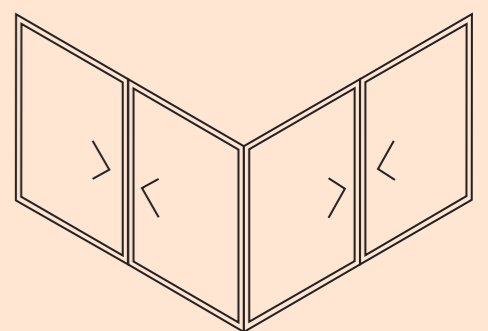


Tilt & Turn Window with Fixed

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.

AMMOS.7024



SAHARA.503



SAHARA.507



YW365F.GRIS 2150



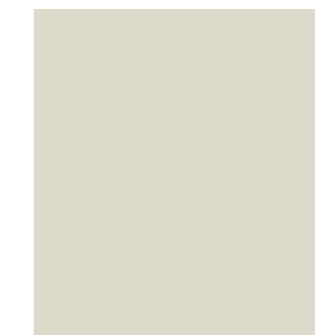
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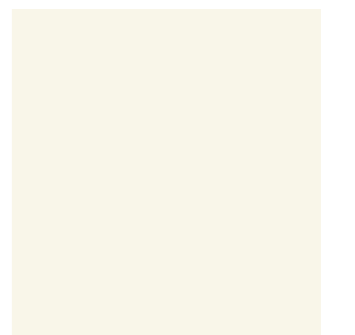
SAHARA.509



MESOGIOS.807



AMMOS.9010



MESOGIOS.815



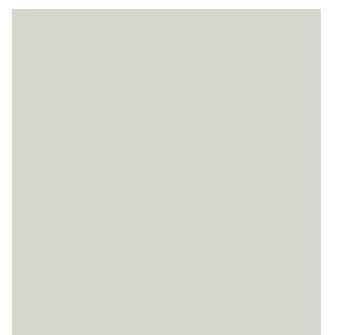
MESOGIOS.813



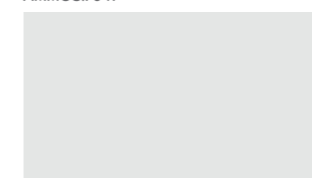
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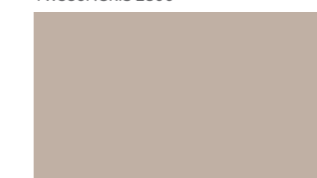
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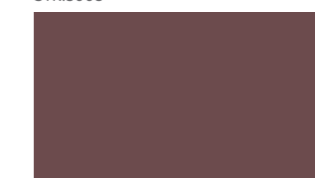
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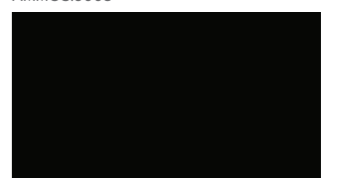
YW356F.GRIS 2800



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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