ELVIAL



ELVIAL W59 SI²

elvial.com

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

MEDITERRANEAN BEAUTY.

THE FIRST DESIGN INSPIRATIONS ALWAYS COME FROM ARCHETYPAL SCENES; THE IMAGES THAT CREATED OUR PERSPECTIVES, THE WINDS THAT COOLED OUR SUMMERS AND THE COLOURS THAT PAINTED OUR MEMORIES. THIS COLLECTION IS ONE OF OUR BEST SELLING CREATIONS AND IT CARRIES ALL THE BEAUTY THAT WE UNCONSCIOUSLY CAME TO APPRECIATE AND ALL THE QUALITY WE SEEK WITH DETERMINATION. THE INSPIRATION COMES FROM A PLACE OF MANY IDENTITIES AND MANY IMAGES; THE MEDITERRANEAN.

ELVIAL
W59 SI²

This collection had to measure up to bustling capital cities, to windswept, cosmopolitan islands, to islands with multifaceted inland and coastal areas with busy ports.

We created this collection as a homage to the beauty of the natural environment around the Mediterranean and the spirit of its cities. Which are generous, gentle and gracious.

DESIGN



THE LINEAR DESIGN



ROUNDED & LINEAR



THE ROUNDED DESIGN

ELVIAL W59 SI² ML

Imagine a place where novelties and custom co-exist in a wonderful accord, where everything is measured by how it achieves balance between antagonistic elements and where what you imagine can be realized and shared with a community.

This is the inspiration we drew upon to create W59 SI² ML.





59





WA
VES

The beauty of fundamental elements is the Mediterranean kind of beautiful.

Rugged lines co-exist with softer curves, like when a rock melts into a beach.

This system’s curve can blend into the construction and be combined with different architectural styles to develop an alluring image.

ELVIAL W59 SI² CE

All countries around the Mediterranean boast of centuries long history and its traces on the housing areas.

These co-exist with daily commutes, frolicking in various venues, work in modern or older buildings, rest in safe spaces.

All this action needs a secure environment. We help create it and become part of the area's life.





59


TOM
FORD



WI NDS

Time challenges all preconceived perceptions.

There are things that stand the test of time and prove that the excellent rendition of fundamentals is a sure way to success.

Things like these gain the title of "a classic" and are always the right choice.

Attention to Detail.

W59 SI² is an excellent choice for projects that come together as an assembly of different elements to answer to various functional demands but still need to have a cohesive aesthetic identity.

This protean quality renders it a best seller among its peers.



THE PREEMINENT SHAPE
The fine line around this profile is a connecting element; a link that shows our evolution and our constant quest to create solutions that cover various lifestyle choices and various aesthetic orientations. This one is especially designed for those who enjoy a clear manifestation of limit and a visual affirmation of coziness.



JOINED BY AESTHETICS
This could be a lesson in tailoring. The glass profile and the shading profile are fitted on the same frame. The construction volume is minimized and the visual impression is upgraded, while the system's durability remains intact. The result is this solution which you will enjoy for many years to come.



EXCEL AT THE FUNDAMENTALS
Highly durable, easy to fit and utterly reliable. These are the fundamentals upon which all our solutions are built. This solution high scores in all fundamentals and smooths the process of installation, which is a challenge for angular constructions. It is also more than adequate as far as the design is concerned, being an ELVIAL product.



Extra Features.

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



AVAILABLE IN ML EDITIONS

Black, Inox Satine and Natural Anodized



AVAILABLE IN CE EDITIONS

Black, White and Grey



Handles are simple and discreet.
Modern colors add an extra touch to the overall look.



TOULON

Black, White and Grey



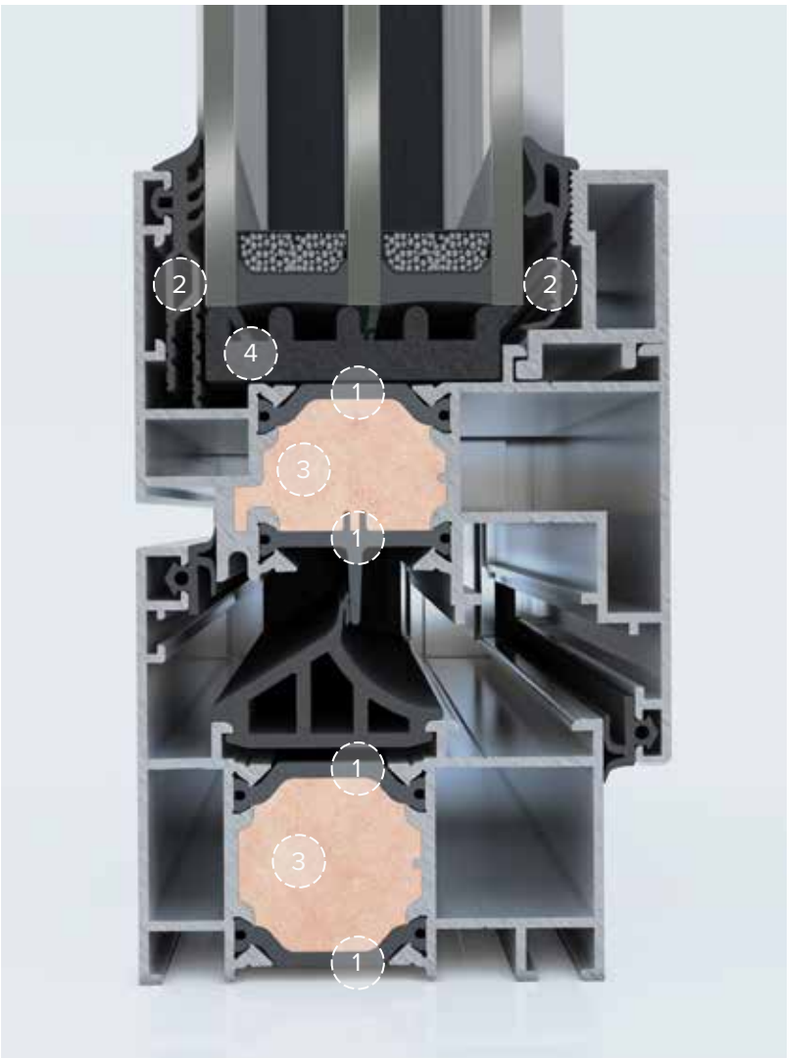
BREST

Black, White, Silver, Bronze and Brown

The TECHNOLOGY

You can feel it on a cold night. You'll appreciate it on a hot day.
You'll appreciate the energy savings over time.

HIGH THERMAL INSULATION



1 24mm INSULATING BARS
Wide insulating bars of 24mm, are applied to all system profiles, offering high thermal insulation levels and extra sense of amenity.

2 GLAZING GASKETS WITH FINS
Glazing gaskets with fins minimize the heat transfer under the glazing zone.

3 ELVIAL I² _ INNOVATIVE INSULATION TECHNOLOGY
The Innovation, ELVIAL I² Technology, is applied on all system's profiles.

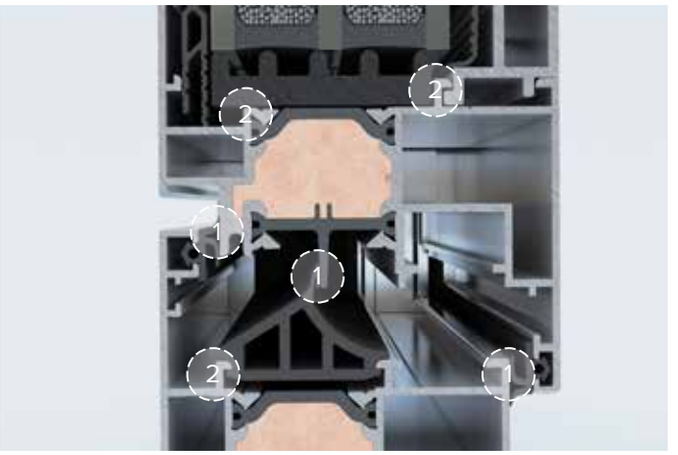
This way, an extra insulation zone is created in the middle chamber of the profile, boosting the system's energy performance [Uf] by up to 38%.

4 FOAM INSULATING PROFILE
Foam insulating profile is fitted at the perimeter of the glazing zone, minimizing thermal energy loss.

This system is fitted with our Total Sealing System.

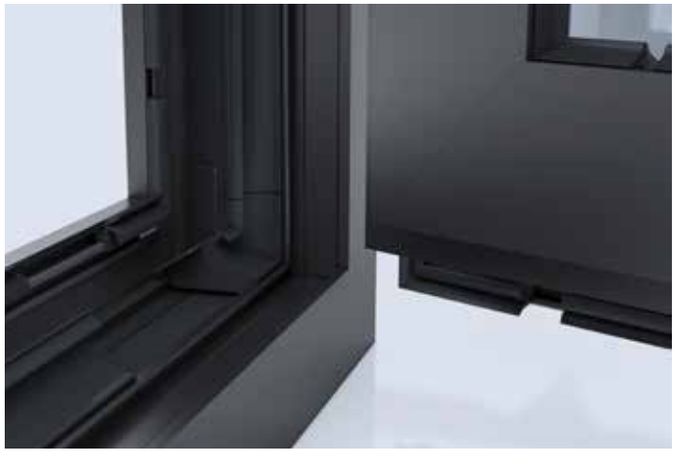
The vulcanization and assembly of this profile helps protect your space from demanding weather conditions.

TOTAL SEALING SYSTEM

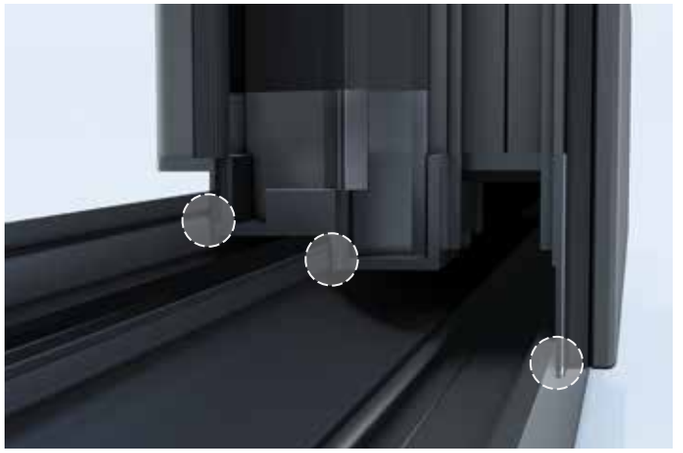


1 OPTIMAL 3-LEVEL WATERPROOFING
Oprimal 3-level waterproofing with specially designed EPDM gaskets.

2 DRAINAGE CHANNELS
All system profiles are equipped with special drainage channels to prevent the water flow to the inner part of the window.



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



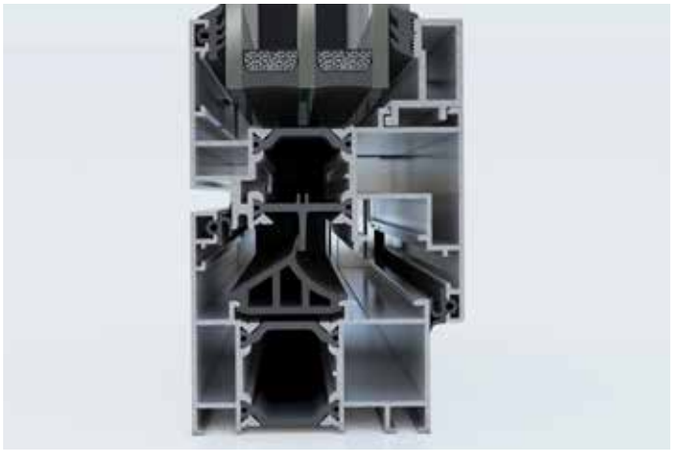
EPDM SPECIMEN FOR ADJOINING PROFILE END CAP
Double sash typologies are fitted with a special EDPM component that connects the mullion with the central gasket. The construction is flawlessly adjoined and provides a high level of protection against water penetration, even under demanding weather conditions.

The ENERGY LEVELS

Different conditions in environment and climate demand tailored solutions.

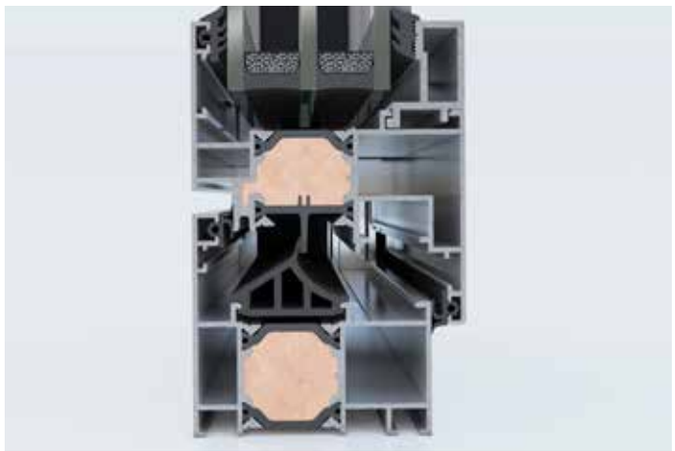
There are THREE energy level variables to this product so you can devise the appropriate solution for different project requirements.

LEVEL 1 | Uf: ≥**2.0** W/m²K



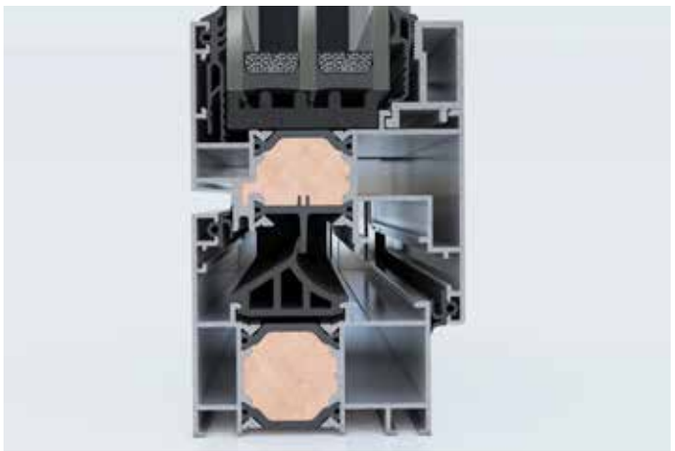
BASIC

LEVEL 2 | Uf: ≥**1.7** W/m²K



ELVIAL I² _ INNOVATIVE INSULATION TECHNOLOGY

LEVEL 3 | Uf: ≥**1.6** W/m²K



ELVIAL I² _ INNOVATIVE INSULATION TECHNOLOGY
FOAM INSULATING PROFILE
GASKET WITH FINS

The IDENTITY

A place feels like home when you define it. You draw a line between what belongs there and what does not. Your people, your work, things important to you belong there. With this solution you will create a beautiful environment to host them.

Its leading performance in all factors affecting interior environment is certified by Ift Institute Rosenheim in Germany. You may consult the performance index for each edition's specific performance.

Frame Depth		**59 mm**
Min Face Height *Frame - Sash*		**94 mm**
Min Face Height *Threshold - Sash*		**107 mm**
Min Face Width *Middle Mullion*		**156 mm**
Max Sash Height		**2.300 mm**
Max Sash Width		**1.000 mm**
Max Sash Weight		**130 kg**
Max Glass Thickness		**46 mm**

The PERFORMANCE

The climate in the Mediterranean is so beautiful.
The region enjoys many sunny days during the year. In cases this does not happen the ELVIAL W59 SI² will help maintain a comfortable indoor environment throughout the year. In your space it will always be spring.

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation Uf	EN ISO 10077-2	**≥1.8 W/m²K**
COMFORT		
Air Permeability	EN 12207	**Class 4** [600Pa]
Watertightness	EN 12208	**E1650** [1.650Pa]
Resistance to Wind Load	EN 12210	**C5 / B5** [2.000Pa]
Sound Reduction	EN 10140-2	**40dB** Glazing 33.1 / 16 / 44.1

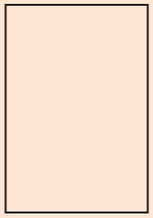
NAFS	AAMA RATING	PG RATING
Fixed and inward-outward opening	**Class CW**	**100**

All certificates available on **hub.elvial.gr**

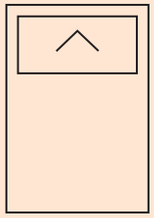
The TYPOLOGIES

ELVIAL W59 SI² offers a plethora of construction solutions that will definitely exceed your expectations and deliver projects with unparalleled character.

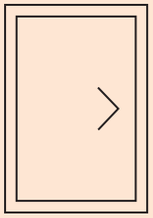
INWARD OPENING CONSTRUCTIONS



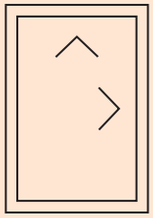
Single sash fixed



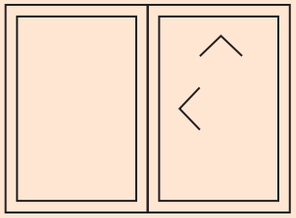
Single sash fixed
with skylight



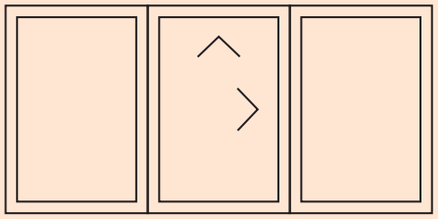
Single sash opening



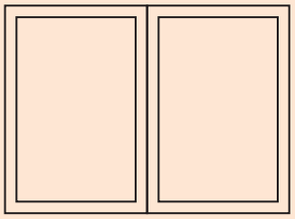
Single sash tilt & turn



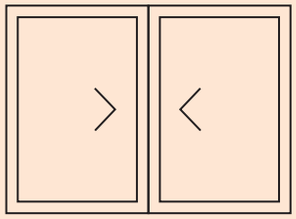
Single sash tilt & turn
with fixed part



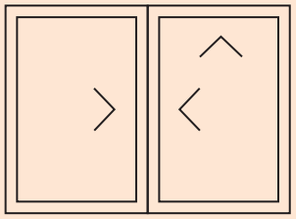
Single sash tilt & turn with fixed parts
using contractions and expansions



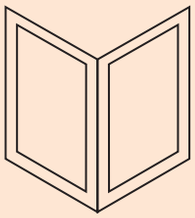
Double sash fixed



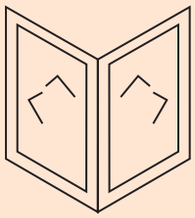
Double sash opening



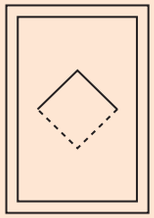
Double sash tilt & turn



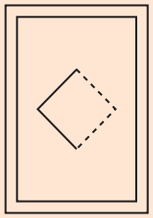
Double sash angular fixed



Double sash angular tilt & turn

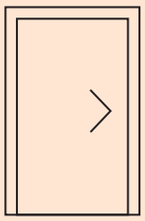


Single sash pivot
with horizontal axis

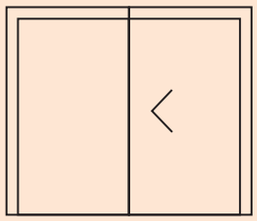


Single sash pivot
with vertical axis

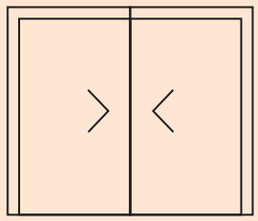
OUTWARD OPENING CONSTRUCTIONS



Single sash opening
window door



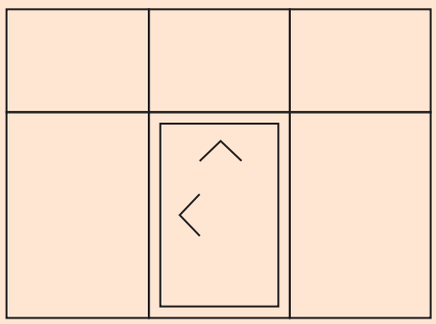
Single sash opening
window door with fixed part



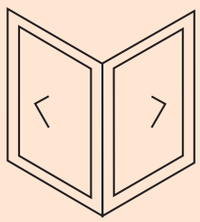
Double sash opening window door



Single sash projected



Special typology window wall



Double sash angular opening

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.

Pre-anodizing combines the advantages of both technologies.



ELVIAL PRE-ANODIZING 2IN1

// Zero waiting time
// Controlled production 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.

DESIGNED FOR LONG-TERM DURABILITY. DESIGNED TO WITHSTAND DEMANDING ENVIRONMENTAL CONDITIONS.



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]



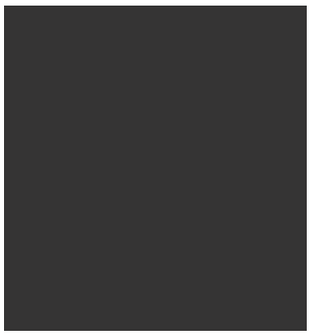
CLASS 2
SUPER DURABLE

Do the right choice.

Combine pre-anodizing with class 2 powder coating colours. Achieve enhanced anti-corosion and radiance resistance, even under intense sunlight.

The super durable powder coatings are 3 times more resistant to sun radiation and designed to maintain long-term performance.

AMMOS.7024

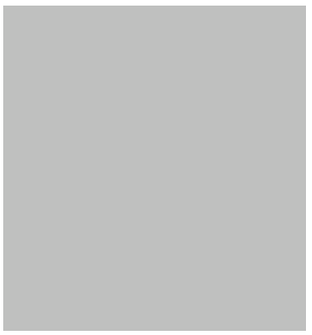


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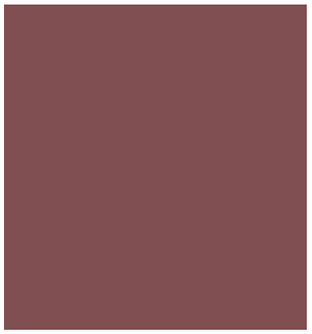


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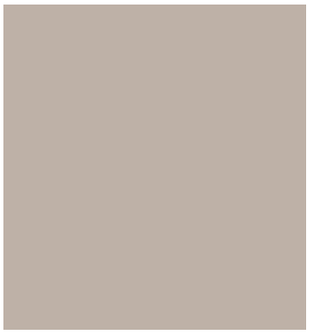
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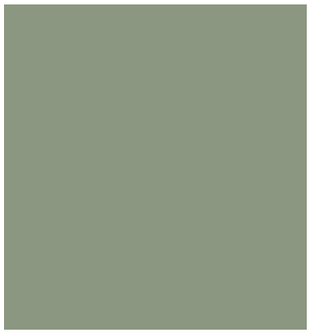
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MESOGEIOS.807

AMMOS.9010

MESOGEIOS.815



MESOGEIOS.813



STR.7037



MESOGEIOS.809

FIND OUT MORE

AMMOS.7047

YW356F.GRIS 2800



STR.3005



AMMOS.9005



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

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