





*ETEM*





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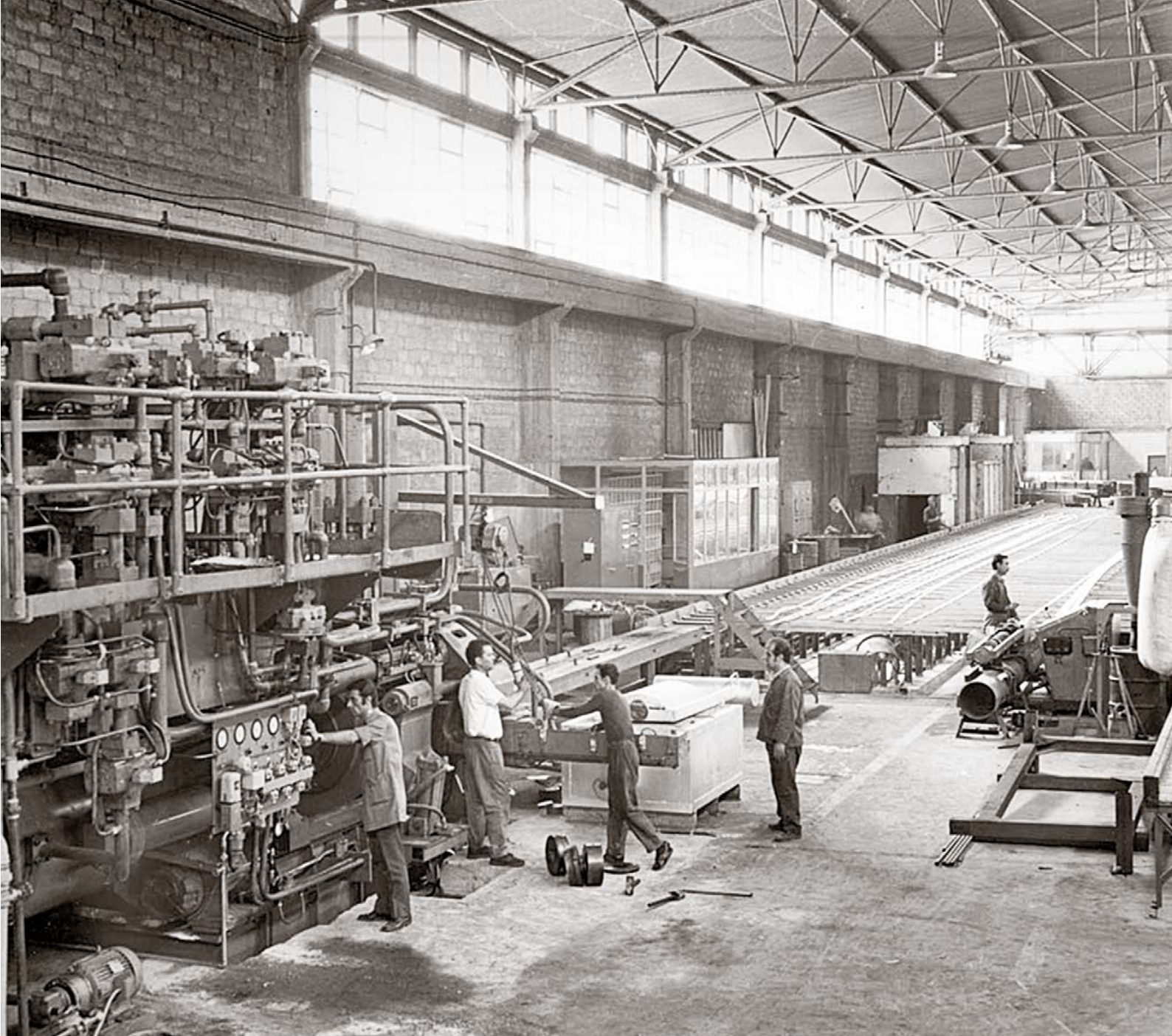


# THRIVING CONTINUOUSLY FOR 50 YEARS

ETEM was founded in 1971 and today is one of the largest and most technologically advanced aluminium extrusion industries in Europe.

The company is the first integrated designer and producer of aluminium systems in Greece and applied the first curtain walling system in a high-rise building, in the early 1970s (Tower of Athens, 103 m)

With over 50 years of experience and continuous presence in both the design and production of profiles for architectural systems and different industrial applications, the company is committed to serving its customers with value added services and solutions.





# MILESTONES

**1973**

ETEM's products are installed in the 1st high rise building in Athens, Tower of Athens (103 m)

**1983**

Installation of the most powerful extrusion press line in the Balkan area 2,750 US tons (25MN)

**1971**

The company was founded as a Limited Liability Company (LTD)

**1981**

Installation of a powder coating line & anodising unit.

**1984**

Launching the new pioneering Architectural systems (lines E)

**1989**

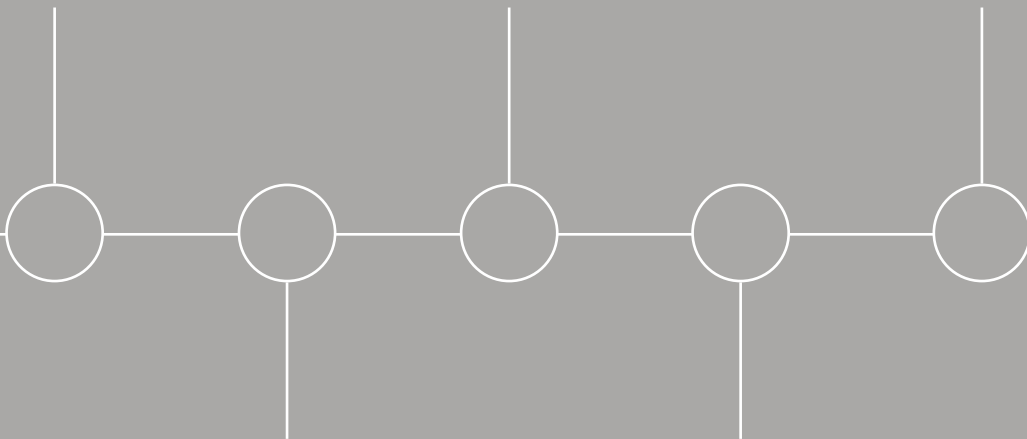
European acknowledgement "LA DEFENSE PROJECT" in Paris

**2000**

Installation of a 5,500 US tons (50MN) extrusion line, the most powerful in SE Europe. Strategic partnership with the automotive Industry for processed AL components

**2002**

Installation of a new vertical Powder-coating equipment for extruded profiles, and ageing ovens



**1999**

Installation of 24 MN extrusion line in Athens, Greece

**2001**

Construction of new storage facilities (20,000 m<sup>2</sup>) in Athens, Greece



# MILESTONES

**2007**

ETEM innovates with Ventilated Façade Systems (VFS)

**2013**

Installation of 24MN extrusion line in Sofia, Bulgaria.

**2004-2005**

Establishment of new subsidiaries in Serbia, Romania & Ukraine

**2010**

Installation of 2 new extrusion lines (18MN and 28MN) in Sofia, Bulgaria. Installation of new high-tech horizontal Powder-Coating line in Athens, Greece

**2013**

Crash relevant profiles certification for the Automotive industry is achieved. ETEM is awarded new contracts with major Automotive manufacturers (Daimler, Jaguar-Landrover, BMW etc)

## 2015

The 1st high-rise building in Sofia (126m) with tailor-made façade E99 is finished successfully

## 2019

ETEM Bulgaria entered into a Joint-Venture with Spanish group Gestamp for the production of Automotive products. Architectural segment spins-off successfully and is integrated in ETEM GR headquarters in Athens, Greece

## 2021

Startup of vertical powder coating line in Athens, Greece. Installation of 2 new CNC machining lines.

## 2018

ETEM re-starts production in Athens, Greece

## 2020

Installation of 20MN extrusion line in Athens Greece.  
Installation of two automatic CNC thermobreak assembly lines by Hermann Muller.

**IN 2021, ETEM TURNS 50 YEARS OLD. HALF A CENTURY OF HISTORY, QUALITY, AND INNOVATION IN ALUMINUM SYSTEMS.**



**1966**

**OTE Tower,  
Thessaloniki, Greece**

The OTE Tower was designed by the architect Alexandros Anastasiadis in 1966 that stands 76 meters tall and features four floors. Today, other than its status as a modern monument of the city, opens up for events and exhibitions during the Thessaloniki International Fair.



**1969**

**Tower of Athens,  
Athens, Greece**

The tallest building in Greece that was founded in June 1969 and started operating in 1971, with a height of 103m. It's architects were Ioannis Vikelas and Ioannis Kympritis.



**1989**

**La Grande Arche  
de la Défense,  
Paris, France**

La Grande Arche de la Défense is a monument and an emblematic building in the French capital. French architect Paul Andreu Reitzel continued Johan Otto von Spreckelsen work until the monument was completed in 1989. The Grande Arche is in the approximate shape of a cube with a width, height and depth of 110 m.





**2003**

### **Archaeological Museum of Olympia, Olympia, Greece**

One of the most important museums in Greece - exhibits the archaeological findings of Ancient Olympia. The Archaeological Museum of Olympia was opened in 1882 and it was the first museum in Greece, outside of Athens.



**2004**

### **Hilton Athens, Athens, Greece**

This luxury hotel located in the city center, was officially opened on April 20th, 1963, as Athens' first international hotel chain. In 2004 Hilton Athens was renovated by Greek architects Alexandros Tombazis and Charis Bougadelis.



**2008**

### **Concert Hall Thessaloniki, Greece**

Thessaloniki Concert Hall was designed by the Japanese architect Arata Isozaki and is a sample of modern architecture.



**2012**

### **Carnegie Center Kiev, Ukraine**

Multiseuse building combining front commercial and high-rise residential towers. The project is 168 m height, keeping the title of the highest civil building in Ukraine, designed by the architect Babushkin S.



**2014**

### **National Museum of Contemporary Art Athens, Greece**

*The National Museum of Contemporary Art Athens (EMST) began its operation in 2000. Its permanent home is the former Fix brewery on Syngrou Ave. The renovation of the building (2014) is undertaken by the offices of 3SK Stylianidis Architects, I. Mouzakis and Associates Architects, Tim Ronalds Architects, while Kalliopi Kontozoglou participates as a partner of 3SK.*



**2015**

### **5th Pearl complex Odessa, Ukraine**

*Residential project with big volume of glazed surfaces (over 25 000 sq m).*



**2016**

**Bulgarian Development Bank, Sofia, Bulgaria**

*Bulgarian Development Bank is a historic building and cultural monument. The architect of the renovation project is architect Jeko Tilev.*



**2020**

**The Orbit Athens, Greece**

*The building that marks the beginning of a new era for Athens, is located in Kifissias Avenue and hosts offices of leading Greek companies. The project architectural design was done from "LC Architects" and "I @ A Vikelas and Associate Architects".*



**2022**

**Sky Fort Sofia, Bulgaria**

*A high-rise office tower of 202 m is the second building, whose construction started after completion of the first tower Capital Fort (126 m)*

*Both projects are part of Sofia Capital City complex, and both with Etem's modular facade system E99.*

*The architects behind the dynamic architecture of Sofia Capital City are "A@A Architects".*

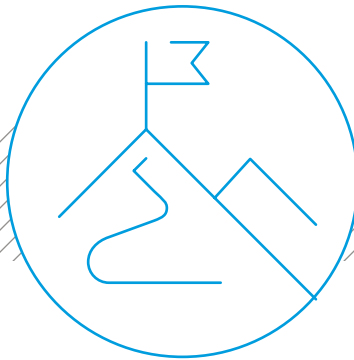
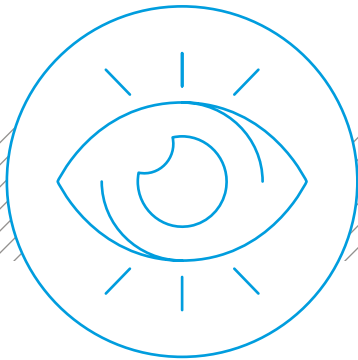


## **ETEM TODAY**

Today, ETEM is one of the leading European companies, in the design, development and production of integrated, sustainable, and innovative aluminium architectural solutions, as well as tailor-made industrial profiles.

With more than 50 years of experience and continuous presence in the market, the company is committed to serve its customers with products and services of excellent quality, thus creating and maintaining long-term relationships and its reputation, based on trust, integrity, reliability and innovation.

The historic aluminum extrusion company, after the relocation of its entire production process from the Bulgarian plant to Greece, which was completed in May 2020, and after the investments in the Powder-Coating line, has achieved continuous increase in production.



## OUR VISION

Our vision is to design, develop and manufacture integrated, sustainable and innovative aluminium architectural systems, by supplying added value products and systems that meet the highest requirements in terms of design, comfort, safety and energy efficiency.

The ultimate scope of ETEM is to satisfy the need for improving user's living experience.

## OUR MISSION

Our mission is the establishment of ETEM as a reliable supplier of integrated aluminium architectural systems, as well as tailor made industrial profiles, maintaining our leading position, acknowledgment, and the respect throughout the entire customer base.

## OUR VALUES

- / Customer oriented approach
- / Operational excellence
- / Human capital
- / Team spirit
- / Safety
- / Environmental protection & Sustainability
- / Respect & Integrity
- / Innovation



# 4 REASONS TO CHOOSE ETEM



# 1

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## History, Know-how & People

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Subsidiary of the largest industrial group of Greece. The long history, the values and the distinctions of ETEM, ensure the continuation of a successful development in the future. Our vehicle, for more than 50 years, is the invaluable know-how of our people.

# 2

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## Project Engineering

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Support in every project (from design to implementation), through an experienced team of engineers & architects. ETEM's team can respond to any challenge with specialized or bespoke solutions





# 3

## Innovation, Quality & Certifications

The range of ETEM systems is constantly enriched with innovative solutions, at competitive prices and in top quality. All ETEM systems are tested and certified by accredited International Institutions, meeting the highest requirements, and strictly adhering to quality standards.

# 4

## Sustainable Development

ETEM is committed to continuous improvement in product design and manufacturing practices to provide the best outcome for the human & natural environment, now and in the future. By using recycled raw materials, and with a variety of targeted actions, the company defines its environmental footprint and ensures its sustainable development and contribution to the circular economy.



# GEOGRAPHICAL FOOTPRINT



## Greece

Magoula, Athens | Production facilities, Warehouses  
Thessaloniki | Warehouses & Service Center  
Crete | Warehouses & Service Center



## Bulgaria

Sofia | Warehouses & Service Center



## Serbia

Belgrade | Warehouse & Service Center



## Romania

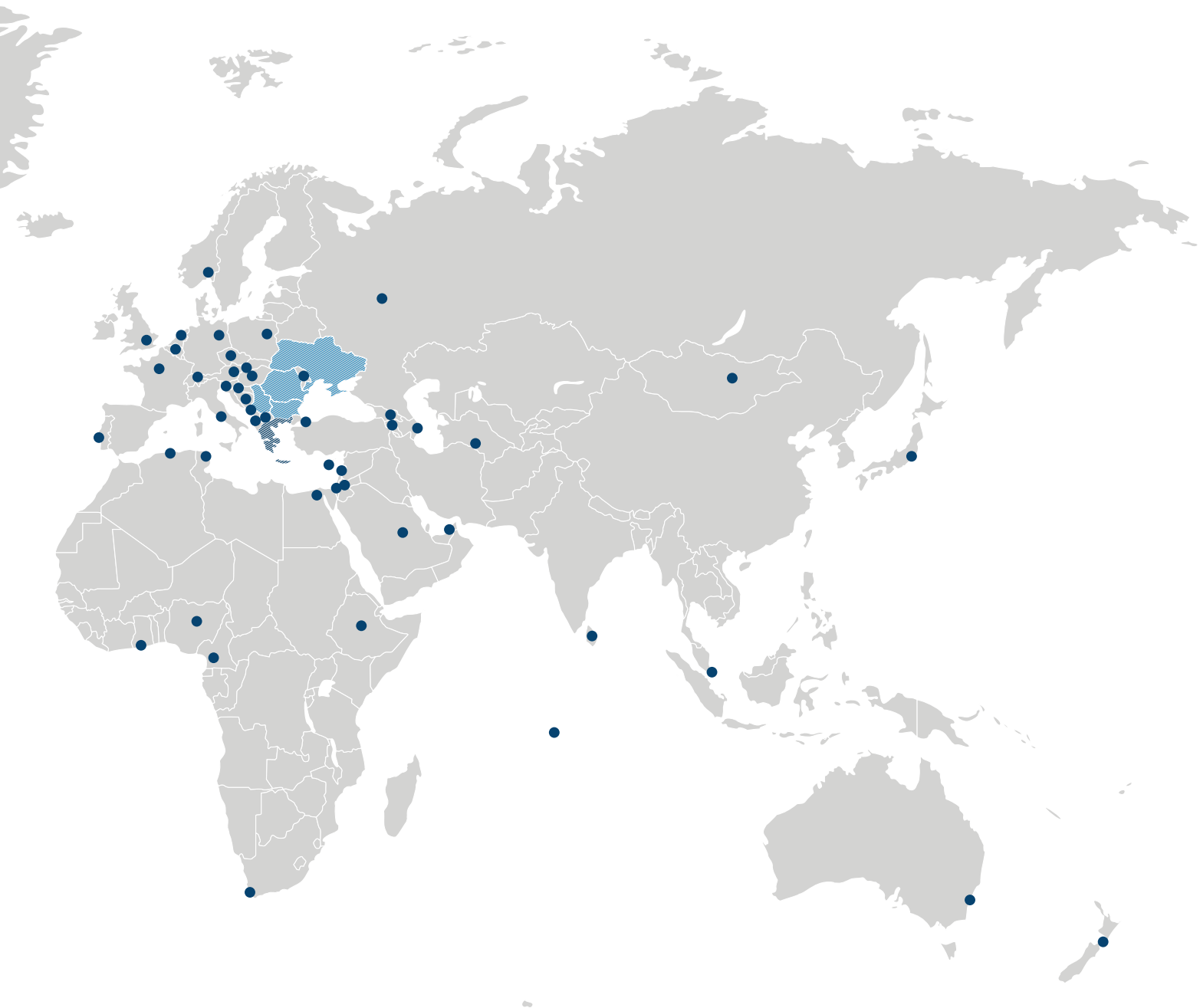
Bucharest | Warehouses & Service Center  
Cluj | Warehouses & Service Center



## Ukraine

Kiev | Commercial Office





Exports in  
—————  
**>57 countries**


Commercial  
Network in  
—————  
**9 countries**

Production  
capacity  
—————  
**> 12.000 tpa**



# GROWTH DRIVERS

The increasing global demand for improved living conditions in terms of safety, aesthetics, comfort and energy-efficiency, constitute the main growth driver for aluminium architectural products.



Climate change initiatives & well being

Living experience & Energy efficiency

Eco-friendly & habitat improvement



# OUR FUTURE

Using the acknowledged growth drivers as a compass, ETEM evolves and designs its products with the aim to improve the end users' living standards, following environmentally friendly methods and adequate techniques.

Our innovative systems are designed for optimizing the use of raw materials, achieving energy savings throughout their life cycle, significantly reducing the environmental footprint and ensuring the principle of sustainable use of natural resources.

Through continuous development in infrastructure, advanced equipment and human resources, ETEM is continuously focused on innovation and creation of advanced energy systems that combine sustainability and high energy efficiency.



# ΑΝΟΙΓΟΜΕΝΑ ΣΥΣΤΗΜΑΤΑ

## Opening systems

Η ευρεία γκάμα ανοιγόμενων συστημάτων της ETEM, προσφέρει πρακτικές λύσεις σε κάθε οικιακή ή εμπορική εφαρμογή.

Τα συστήματα αλουμινίου της ETEM μπορούν να επιλεγθούν ανάμεσα από διαφορετικούς συνδυασμούς, γεωμετρικά χαρακτηριστικά και επιδόσεις.

Η νέα γενιά ενεργειακά αποδοτικών συστημάτων, συνδυάζει την υψηλή αισθητική με την άνεση, αλλά και την ελάχιστη χρήση ορατών πλαισίων.

*ETEM's extensive range of opening systems offers a practical solution for every residential or commercial application.*

*ETEM aluminum systems can be chosen between different combinations, geometries and performances.*

*The new generation of energy efficient systems combine elegance with comfort and minimum use of visible frames.*

	E1000	E38	E45	E68	EW70	E75	E77
Σειρά / Series	Prime	Prime	Advance	Advance	Advance	Elite	Elite
Πλάτος κάσας / Frame width	40 mm	50 mm	60 mm	68 mm	70 mm	75 mm	109 mm
Διάκενο Υάλωσης / Glazing infill	4 ÷ 27 mm	6 ÷ 37 mm	6 ÷ 47 mm	12 ÷ 57 mm	17 ÷ 52 mm	14 ÷ 64 mm	έως / up to 55 mm
Θερμική αγωγιμότητα / Thermal Transmittance $U_w$ (W/m <sup>2</sup> K)	-	1,9	1,7	1,1	1,1	1,0	-







# E1000 prime

SERIES



E1000 is an opening window system. It provides:

- wide range of profile options for inward and outward opening windows and doors;
- solutions to several configurations;
- accommodation to single and double glazed infills, as well as non-transparent panels;
- integration with shutter and rolling shutter.





## TECHNICAL FEATURES

Frame width: 40 mm

Min. frame height: 54 mm

Min. casement height (f+v): 94 mm

Glazing infill: 4 ÷ 27 mm

Max. vent height: 2.200 mm

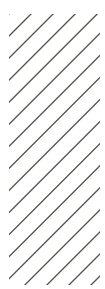
Max. vent width: 1.400 mm

Max. vent weight: 100 kg



## E38 prime

SERIES



E38 is a basic opening window and door system with thermal break. It provides:

- cost effective solutions;
- wide range of profile options for inward opening windows and doors;
- solutions to several configurations;
- accommodation to glazed infills as well as non-transparent panels;
- either PVC-groove or Euro-groove mechanism;
- integration with shutter and rolling shutter.





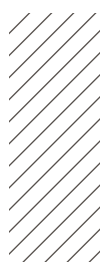
## TECHNICAL FEATURES

Frame width:	50 mm
Frame height:	58 mm
Casement height (f+v):	127 mm
Glazing infill:	6 ÷ 37 mm
Max. vent height:	2.300 mm
Max. vent width:	1.600 mm
Max. vent weight:	140 kg
Thermal transmittance Uf:	≥ 2,6 W/(m²K)



## E45 advance

SERIES



E45 is an opening window and door system with thermal break. It provides:

- wide range of profile options for inward and outward opening windows and doors;
- solutions for several configurations;
- accommodation to glazed infills as well as non-transparent panels;
- special hidden vent solution;
- either PVC-groove or Euro-groove mechanism;
- integration with shutter and rolling shutter.





## TECHNICAL FEATURES

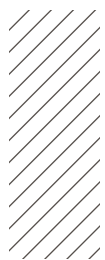


Frame width:	60 mm
Min. frame height:	45 mm
Min. casement height (f+v):	71 mm / 83 mm
Glazing infill:	6 ÷ 47 mm
Max. vent height:	2.300 mm
Max. vent width:	1.600 mm
Max. vent weight:	140 kg
Thermal transmittance $U_f$ :	$\geq 1.9 \text{ W}/(\text{m}^2\text{K})$



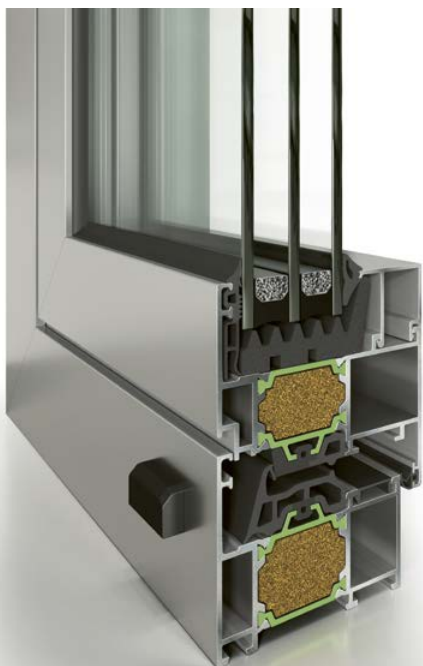
## E68 advance

SERIES



E68 is a high end opening window system with thermal break. It provides:

- a wide range of profile options for inward opening windows;
- solutions to several configurations;
- accommodation to glazed infills as well as non-transparent panels;
- either PVC-groove or Euro-groove mechanism;
- special hidden vent and ventilated vent solutions;
- integration with shutter and rolling shutter.



## TECHNICAL FEATURES

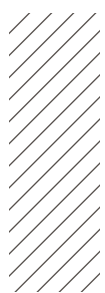
Frame width:	68 mm
Min. frame height:	59 mm
Min. casement height (f+v):	73 / 107 mm
Glazing infill:	12 ÷ 57 mm
Max. vent height:	2.700 mm
Max. vent width:	1.400 mm
Max. vent weight:	130 kg
Thermal transmittance $U_f$ :	$\geq 1.7 \text{ W}/(\text{m}^2\text{K})$





# EW70 advance

SERIES



EW70 is a new generation opening window system with thermal break. It provides:

- wide range of profile options for inward opening windows;
- solutions to several configurations;
- material optimal solutions with exceptionally high testing performances;
- accommodation to glazed infills as well as non-transparent panels;
- special hidden vent solution;
- integration with shutter and rolling shutter.



## TECHNICAL FEATURES

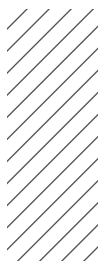
Frame width:	70 mm
Min. frame height:	47 mm
Casement height(f+v):	74 / 95 mm
Glazing infill range:	17 ÷ 52mm
Max. vent height:	2.300 mm
Max. vent width:	1.400 mm
Max. vent weight:	130 kg
Thermal transmittanc $U_f$ :	$\geq 1.4 \text{ W}/(\text{m}^2\text{K})$





# E75 elite

SERIES



E75 is a heavy duty opening window system with thermal break. It provides:

- wide range of profile options for inward & outward opening windows & doors;
- solutions to several configurations;
- accommodation to glazed infills as well as non-transparent panels;
- special hidden vent solution;
- integration with shutter and rolling shutter.





## TECHNICAL FEATURES

Frame width:	75 mm
Min. frame height:	59 mm
Min. casement height (f+v):	107 mm
Glazing infill:	14 ÷ 64 mm
Max. vent height:	2.700 mm
Max. vent width:	1.400 mm
Max. vent weight:	180 kg
Thermal transmittance $U_f$ :	$\geq 1.2 \text{ W}/(\text{m}^2\text{K})$



# E77 elite

SERIES



## Bullet resistant system



E77 is a bullet resisting opening window system with thermal break. It provides:

- inward opening window solutions;
- options for fixed and openable configurations;
- accommodation to glazed infills as well as non-transparent panels;
- special hidden vent solution.





## TECHNICAL FEATURES

Frame width:	80 mm
Min. frame height:	101 mm
Min. casement height (f+v):	111 mm
Glazing infill:	up to 55 mm
Max. vent area:	2 m <sup>2</sup>
Max. vent weight:	300 kg



# SLIDING SYSTEMS

ETEM's sliding systems are an innovative way to improve your living experience!

Our systems combine the highest standards in functionality and thermal insulation.

The possibilities of installation in large openings ensure infinite view with ultimate performance.

	<b>ES320</b>	<b>E32</b>	<b>ES38</b>	<b>E50</b>	<b>ES500</b>	<b>ES70</b>
Series	Prime	Prime	Advance	Advance	Advance	Elite
Max. sash height	2.300 mm	2.300 mm	2.400 mm	3.300 mm	3.300 mm	3.300 mm
Sash width	32 mm	32 mm	38 mm	50 mm	50 mm	70 mm
Thermal Transmittance Uw (W/m <sup>2</sup> K)	-	1,9	1,8	1,6	-	1,0



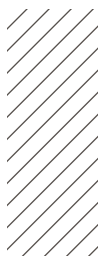






# ES320 prime

SERIES



ES320 is the basic sliding system, capable to support a large variety of solutions. It provides:

- different window configurations;
- wide range of profile options;
- multiple types of either locking mechanisms or handles;
- stainless steel rail;
- integration of flyscreen and/or shutter.





## TECHNICAL FEATURES

Sash width: 32 mm

Min. sash height: 82 mm

Rail height: 31 mm

Interlock width: 85 mm

Glazing infill: 10 + 19 mm

Max. sash width: 2.100 mm

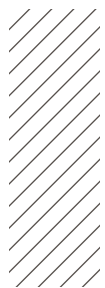
Max. sash height: 2.300 mm

Max. sash weight: 90 kg



## E32 prime

SERIES



E32 is the basic sliding window system with thermal break, developed to support a large variety of solutions. It provides:

- different window configurations;
- wide range of profile options;
- multiple types of either locking mechanisms or handles;
- narrow interlock option;
- stainless steel rail, ensuring smooth sliding;
- integration with flyscreen and/or shutter.





## TECHNICAL FEATURES

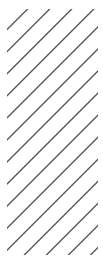
Sash width:	32 mm
Sash height:	82 mm
Rail height:	31 mm
Interlock width:	90 mm
Glazing infill:	18 ÷ 22 mm
Max. sash width:	1.600 mm
Max. sash height:	2.300 mm
Max. sash weight:	90 kg
Thermal transmittance $U_f$ :	$\geq 2,9 \text{ W}/(\text{m}^2\text{K})$





# ES38 advance

SERIES



ES38 is a sliding window system with thermal break, capable to support a large variety of solutions. It provides:

- different window configurations;
- wide range of profile options;
- multiple type of either locking mechanisms or handles;
- stainless steel rail, ensuring smooth sliding;
- integration with flyscreen and/or shutter.





## TECHNICAL FEATURES

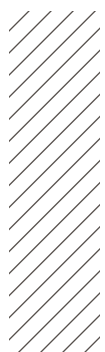
Sash width:	38 mm
Min. sash height:	79 mm
Rail height:	32 / 44 mm
Interlock width:	53 / 86 mm
Glazing infill:	22 ÷ 26 mm
Max. sash width:	2.000 mm
Max. sash height:	2.400 mm
Max. sash weight:	130 kg
Thermal transmittance $U_f$	$\geq 2,9$ W/(m <sup>2</sup> K)





## E50 advance

SERIES



E50 is a high end sliding window system with thermal break, designed to support a large variety of solutions. It provides:

- different window configurations;
- either lift & slide or sliding mechanisms;
- multiple types of either locking mechanisms or handles;
- stainless steel rail;
- flat rail option;
- narrow interlock option;
- integration with flyscreen and/or shutter.





## TECHNICAL FEATURES

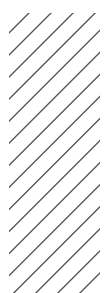
Sash width:	50 mm
Min. sash height:	80 mm / 92 mm
Rail height:	25 mm / 45 mm
Interlock width:	36 mm / 112 mm
Glazing infill:	6 ÷ 41 mm
Max. sash width:	3.300 mm
Max. sash height:	3.300 mm
Max. sash weight:	200 kg / 400 kg
Thermal transmittance $U_f$ :	$\geq 2,0 \text{ W/(m}^2\text{K)}$





# ES500 advance

SERIES



ES500 is a heavy duty sliding system, designed to support a large variety of solutions. It provides:

- different window configurations;
- either lift & slide or sliding mechanisms;
- multiple types of either locking mechanisms or handles;
- narrow interlock option;
- stainless steel rail;
- integration with flyscreen.



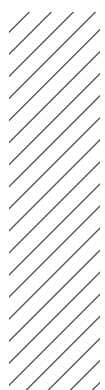
## TECHNICAL FEATURES

Sash width:	50 mm
Sash height:	92 mm
Rail height:	45 mm
Interlock width:	65 mm / 112 mm
Glazing infill:	6 ÷ 41 mm
Max. sash width:	3.300 mm
Max. sash height:	3.300 mm
Max. sash weight:	200 kg / 400 kg



# ES70 elite

SERIES



ES70 is a heavy duty sliding window system with thermal break, developed to support a large variety of solutions. It provides:

- different window configurations;
- solutions to extremely thick glazing, heavy weights or large openings, ensuring unique operation;
- heavy wind load resistance;
- lift & slide mechanism;
- stainless steel rail, ensuring smooth sliding;
- flat rail option;
- narrow interlock option;
- integration with flyscreen.





## TECHNICAL FEATURES

Sash width:	70 mm
Sash height:	103 mm
Rail height:	25 mm / 48 mm
Interlock width:	54 mm / 113 mm
Glazing infill range:	25 ÷ 52 mm
Max. sash width:	3.300 mm
Max. sash height:	3.300 mm
Max. sash weight:	440 kg
Thermal transmittance $U_f$ :	$\geq 1,7 \text{ W/(m}^2\text{K)}$



# DOORS

ETEM door systems have been especially designed to meet the needs for wide openings. They provide exceptional functionality and elegance to any installation.

They ensure durability and safety, combined with a minimal and modern design.

The door systems can meet the requirements of every contemporary project, thanks to their technical features.

	<b>ED630</b>	<b>ED68</b>	<b>ED75</b>
Series	Advance	Advance	Elite
Frame width	63,5 mm	68 mm	75 mm
Glazing infill	11 ÷ 43 mm	13 ÷ 48 mm	15 ÷ 55 mm



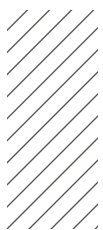






# ED630 advance

SERIES



ED630 is an openable door system ideal for large doors.  
It provides:

- full range of typologies;
- flush surface between frame and doorleaf;
- exceptionally high burglar resistance performance;
- integration into curtain wallings.



## TECHNICAL FEATURES

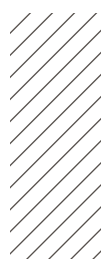
Frame width:	63,5 mm
Frame height:	69 mm
Section height (f+l):	141 mm
Glazing infill range:	11 ÷ 43 mm
Max. sash width:	2.800 mm
Max. sash height:	1.200 mm
Max. sash weight:	200 kg





# ED68 advance

SERIES



ED68 is a door system with thermal break, especially designed to meet large entrance door needs. It provides:

- full range of typologies;
- flush surface between frame and doorleaf;
- optional central gasket;
- implementation with or without threshold or drop down seal;
- integration into curtain wallings.



ERINE'S BRITISH SCHOOL



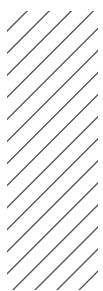
## TECHNICAL FEATURES

Frame width:	68 mm
Frame height:	75 mm
Section height (f+l):	141 mm
Glazing infill:	11 ÷ 43 mm
Max. height:	2.800 mm
Max. width:	1.100 mm
Max. vent weight:	200 kg
Thermal transmittance $U_f$	$\geq 1,4 \text{ W}/(\text{m}^2\text{K})$



# ED75 elite

SERIES



ED75 is an advanced door system with thermal break, developed to support large entrance doors. It provides:

- full range of typologies;
- flush surface between frame and doorleaf;
- especially designed polyamides to ensure exceptional operation under extreme temperature differences;
- implementation with or without threshold or drop down seal;
- integration into curtain wallings.





## TECHNICAL FEATURES

Frame width:	75 mm
Frame height:	75 mm
Section height (f+l):	153 mm
Glazing infill:	15 ÷ 55 mm
Max. height:	3.200 mm
Max. width:	1.300 mm
Max. vent weight:	200 kg
Thermal transmittance $U_f$ :	$\geq 1,1 \text{ W}/(\text{m}^2\text{K})$





# SLIDE AND FOLDING SYSTEMS

ETEM slide and folding window systems are designed to provide solutions for wide openings, offering flexibility and security.

The lean profiles design and the large variety of bottom rails meet every aesthetic need. The systems can be integrated into many projects, such as residences, coffee shops, restaurants or hotels, creating an unimpeded indoor and outdoor transition.

	<b>ESF500</b>	<b>E39</b>
Series	Advance	Advance
Vent width	50 mm	50 mm
Glazing infill	6 ÷ 34 mm	6 ÷ 34 mm
Thermal transmittance $U_w$ (W/m <sup>2</sup> K)	-	1,8

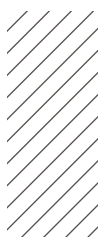






# ESF500 advance

SERIES



ESF500 is a slide and folding system for openings with very large width. It provides:

- flush surface between the frame and the sash;
- stainless steel rail, ensuring smooth sliding;
- large variety of bottom rails that are either floor integrated or external, depending on the requirement.





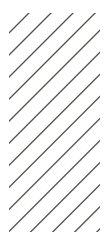
## TECHNICAL FEATURES

Vent width:	50 mm
Vent height:	65 mm
Top rail height:	90 mm
Glazing infill range:	6 ÷ 34 mm
Max. vent width:	1.100 mm
Max. vent height:	2.800 mm
Max. vent weight:	110 kg



# E39 advance

SERIES



E39 is a slide and folding system with thermal break for openings with very large width. It provides:

- flush surface between the frame and the sash;
- stainless steel rail, ensuring smooth sliding;
- large variety of bottom rails that are either floor integrated or external, depending on the requirement.





## TECHNICAL FEATURES

Vent width:	50 mm
Vent height:	65 mm
Top rail height:	90 mm
Glazing infill range:	6 ÷ 34 mm
Max. vent width:	1.100 mm
Max. vent height:	2.800 mm
Max. vent weight:	110 kg
Thermal transmittance $U_f$ :	$\geq 2,7 \text{ W}/(\text{m}^2\text{K})$





# SHADING SYSTEMS

One of the most important challenges facing modern buildings is the right use of shading systems with the ultimate goal of proper management of natural light.

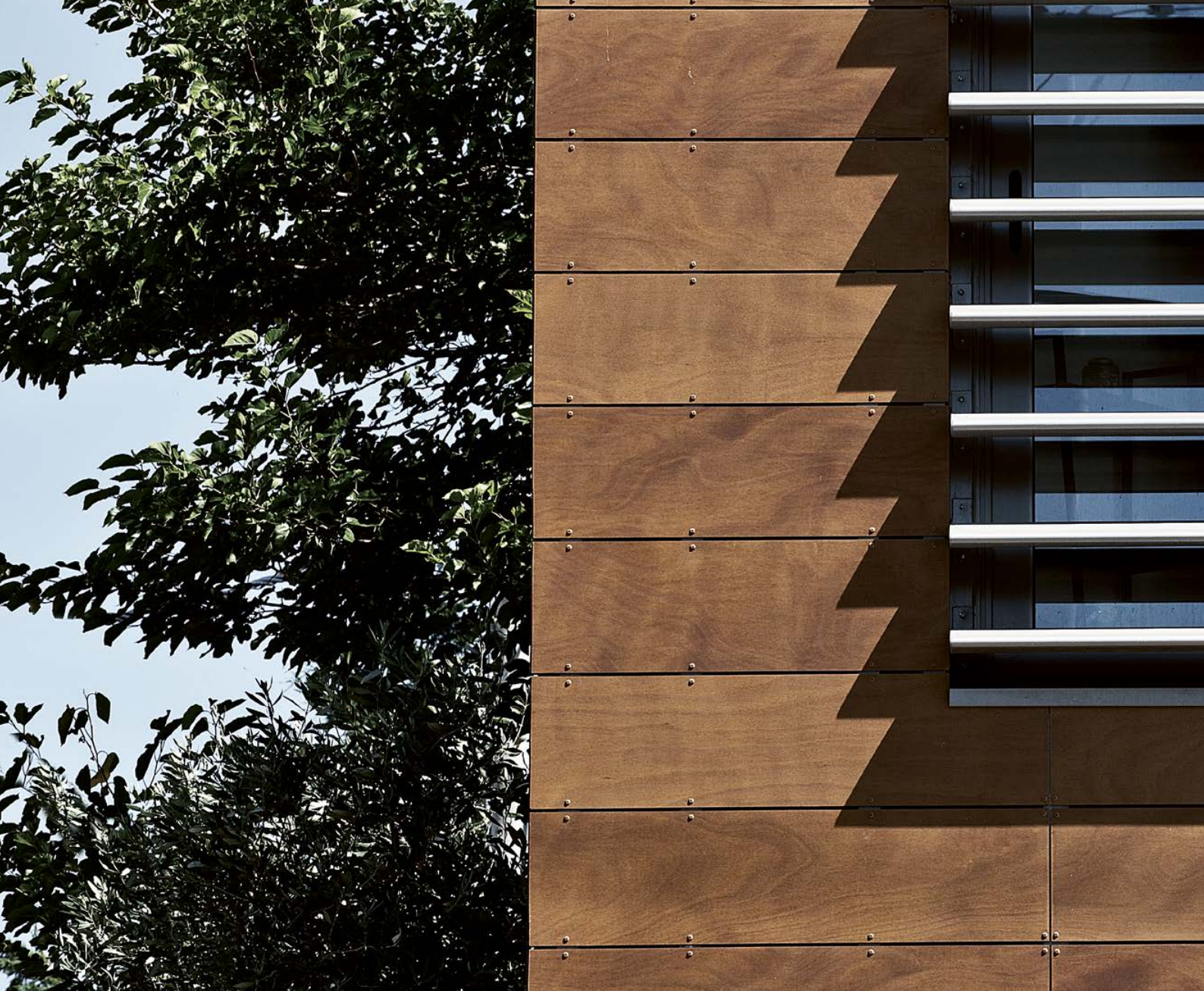
Through the various solutions offered by ETEM, you will find the right systems that allow day light to enter providing high energy efficiency, interior comfort and modern design.

	<b>E66</b>
Series	Prime
Louver width range:	150 mm ÷ 600 mm
Inertia louvers (lx):	up to 316 cm <sup>4</sup>
Inertia louvers (ly):	up to 1.790 cm <sup>4</sup>

	<b>EL20</b>
Series	Advance
Max. rotation angle:	120°
Max. length:	5.000 mm
Max. width	4.500 mm

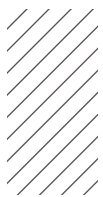






# E66 prime

SERIES



E66 is a solar shading solutions' system. It provides:

- several louvres designs;
- solutions to multiple shading spans;
- options for fixed, rotating or retractable louvres;
- wide range of fixation methods.





## TECHNICAL FEATURES



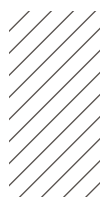
Louver width range:	150 mm ÷ 600 mm
Inertia louvers (lx):	up to 316 cm <sup>4</sup>
Inertia louvers (ly):	up to 1.790 cm <sup>4</sup>
Louver blade type:	rectangular, elliptical, Z-shape
Installation:	vertical or horizontal
Angle:	fixed or adjustable





# EL20 advance

SERIES



EL20 is a bioclimatic pergola system.  
It provides:

- linear surfaces;
- absolute shading and drainage system;
- solutions to large spans.





## TECHNICAL FEATURES



Column dimensions:	120 mm x 120 mm
Basic beam dimensions:	80 mm x 198 mm
Transverse beam dimensions:	120 mm x 198 mm
Louver width:	220 mm / 238 mm
Max. rotation angle:	120°
Max. length:	5.000 mm
Max. width:	4.500 mm





# SUPPLEMENTARY PRODUCTS

ETEM's supplementary systems ideally improve the aesthetics of any building.

Our partition walls and glass balustrades systems are developed to fit any project, providing unrestricted views with minimal structural interference.

They combine functionality and safety, while at the same time meeting all architectural requirements.

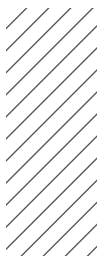






# EP30 advance

SERIES



EP30 is an office partitioning system. It provides:

- full height glazed or transom solutions;
- accommodation to several single glazed infills as well as non-transparent panels, with complementary insulation;
- integration with venetian blinds in the cavity;
- incorporation of cable infrastructure (power, telephone, network);
- open space configurations.





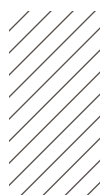
## TECHNICAL FEATURES

System width:	80 mm
Max. module width:	1.200 mm
Max. module height:	2.800 mm
Infill thickness range:	4 ÷ 10 mm
Max weight (door):	120 kg



# EB48 advance

SERIES

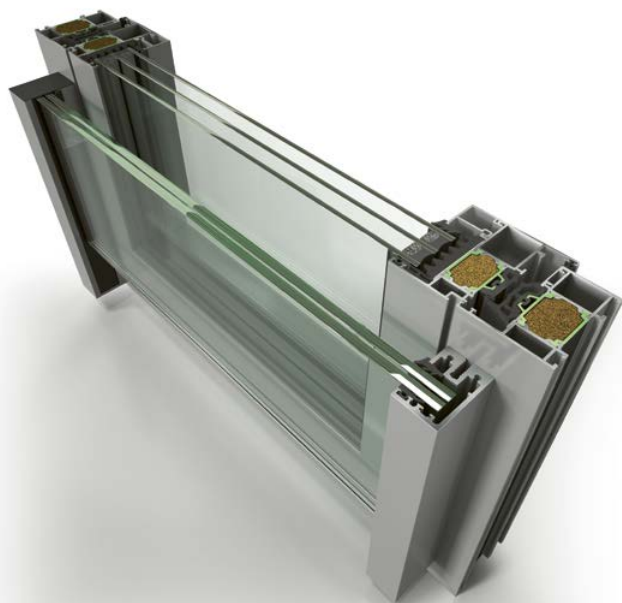


EB48 is an add-on glass balustrade system for door height window systems. It provides:

- accommodation to different glass infill compositions;
- easy attachment on any openable system;
- the highest possible safety to the user.



## TECHNICAL FEATURES



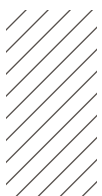
System width:	33 mm
System depth:	48 mm
Glazing infill:	up to 17.5 mm
Max. width:	1.500 mm
Max. height:	1.200 mm





# EB46 advance

SERIES



EB46 is a frameless glass balustrade system, ideal for areas susceptible to overcrowding. It provides:

- optimal materialized solutions;
- accommodation to various types of infills;
- fully integration into the floor level, featuring a flush ground result.



## TECHNICAL FEATURES

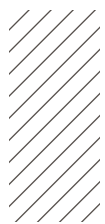
Base width:	46 mm
Base height:	100 mm
Glazing infill:	17,5 mm / 21,5 mm





# EB49 advance

SERIES



EB49 is a light frameless glass balustrade system, ideal for areas with limited crowd concentration. It provides:

- design in modern, straight lines;
- accommodation to various types of infills;
- protection against stepping on bases;
- installation on or embedded to the floor level.





## TECHNICAL FEATURES

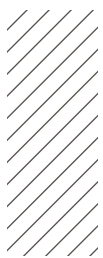
Base width:	49 mm
Base height:	98 mm
Glazing infill:	13,5 mm / 17,5 mm





# EB50 advance

SERIES



EB50 is a frameless glass balustrade system, ideal for areas susceptible to overcrowding. It provides:

- design in modern, straight lines;
- accommodation to various types of infills;
- multiple anchoring methods;
- protection against stepping on bases;
- installation on or embedded to the floor level.



## TECHNICAL FEATURES

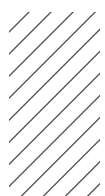
Base width:	50 mm
Base height:	114 mm
Glazing infill:	17,5 mm / 21,5 mm





# EB62 advance

SERIES



EB62 is a frameless glass balustrade system, designed to be installed as parapet or floor base with low-height glass infill. It provides:

- design in modern, straight lines;
- optimal materialized solutions;
- accommodation to various types of infills;



## TECHNICAL FEATURES

Base width:	62 mm
Base height:	83 mm
Glazing infill:	13,5 mm / 17,5 mm






# FAÇADE SYSTEMS











# CURTAIN WALL SYSTEMS

ETEM's curtain wall systems provide solutions to every contemporary architectural need, delivering functionality and design flexibility.

They are suitable for the construction of buildings with glass facades, combining maximum transparency, brightness with high performance.

	<b>E85</b>	<b>EF50</b>	<b>E8000</b>
System basic width:	50 mm - 60 mm	50 mm	60 mm
Min./max. system basic depth:	50 mm / 230 mm	64 mm / 249 mm	50 mm / 170 mm
Glazing infill range	24 ÷ 42 mm	8 ÷ 36 mm	6 ÷ 43 mm

	<b>EU100</b>	<b>E99</b>
System basic width:	85 mm / 100 mm	99 mm
System basic depth	100 mm	222 mm
Infill thickness range:	6 ÷ 40 mm	23 ÷ 56 mm

	<b>E86</b>
Receptor width:	152mm / 6"
Receptor height:	55mm / 2 1/8"









# E85 advance

SERIES



E85 is a 50mm curtain walling system, capable to offer a wide variety of solutions. It provides:

- stick or bonded glazed (widely known as structurally glazed) options;
- accommodation to all typical infill thicknesses (single, double, triple glazing and panels);
- solutions to sloped constructions;
- integration with projected constructions, such as external shading;
- burglar / bullet resistance;
- wide range of project profiles for custom applications;
- incorporation of ETEM systems as infills.



## TECHNICAL FEATURES

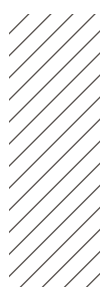
System basic width:	50 mm - 60 mm
Min./max. system basic depth:	50 mm / 230 mm
Glazing infill range:	24 ÷ 42 mm
Max. weight:	1.000 kg
Inertia mullions ( $I_x$ ; wind load):	up to 2.162 cm <sup>4</sup>
Inertia transoms ( $I_x$ ; wind load):	up to 399 cm <sup>4</sup>
Inertia transoms ( $I_y$ ; glass load):	up to 43 cm <sup>4</sup>
Thermal transmittance $U_f$ :	$\geq 1.6$ W/(m <sup>2</sup> K)





# EF50 advance

SERIES



EF50 is a new generation 50 mm curtain walling system.  
It provides:

- stick or bonded glazed (widely known as structurally glazed) options;
- accommodation to typical infill thicknesses (single, double glazing and panels);
- integration with projected constructions, such as external shading;
- material optimal solutions with exceptionally high testing performances;
- wide range of project profiles for custom applications;
- incorporation of ETEM systems as infills.





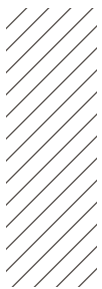
## TECHNICAL FEATURES

System basic width:	50 mm
Min./max. system basic depth:	64 mm / 249 mm
Glazing infill range:	8 ÷ 36 mm
Max. weight:	500 kg
Inertia mullions ( $I_x$ ; wind load):	up to 1.411 cm <sup>4</sup>
Inertia transoms ( $I_x$ ; wind load):	up to 926 cm <sup>4</sup>
Inertia transoms ( $I_y$ ; glass load):	up to 60 cm <sup>4</sup>
Thermal transmittance $U_f$ :	$\geq 1.0$ W/(m <sup>2</sup> K)



# E8000 advance

SERIES



E8000 is a cassette curtain walling system. It provides:

- both semi-structural and structural options;
- accommodation to a large range of infill thicknesses (single, double, triple glazing and panels);
- integration with projected constructions, such as external shading;
- incorporation to projected or parallel projected infills that are using the same cassette profile for a harmonised view as well as doors;
- both thermally broken and non-thermally broken solutions.





## TECHNICAL FEATURES

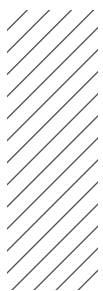


System basic width:	60 mm
Min./max. system basic depth:	50 mm / 170 mm
Glazing infill range:	6 ÷ 43 mm
Max. weight:	200 kg
Inertia mullions ( $I_x$ ; wind load):	up to 1.326 cm <sup>4</sup>
Inertia transoms ( $I_x$ ; wind load):	up to 129 cm <sup>4</sup>
Inertia transoms ( $I_y$ ; glass load):	up to 33 cm <sup>4</sup>
Thermal transmittance $U_f$ :	$\geq 1.9$ W/(m <sup>2</sup> K)



# EU100 advance

SERIES



EU100 is a basic unitised curtain walling system, ideal for humid and hot climates. It provides:

- solutions with visible and non-visible (bonded glazing, widely known as structurally glazed system) aluminium on the external surface;
- accommodation to either single glazed or double glazed infills as well as non-transparent panels;
- integration with projected constructions, such as external shading;
- easy installation with minimum on-site human effort.





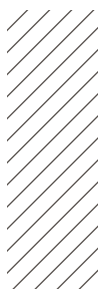
## TECHNICAL FEATURES

System basic width:	85 mm / 100 mm
System basic depth:	100 mm
Infill thickness range:	6 ÷ 40 mm
Max. weight:	300 kg
Typical module dimensions:	3.800 mm x 1.500 mm



# E99 advance

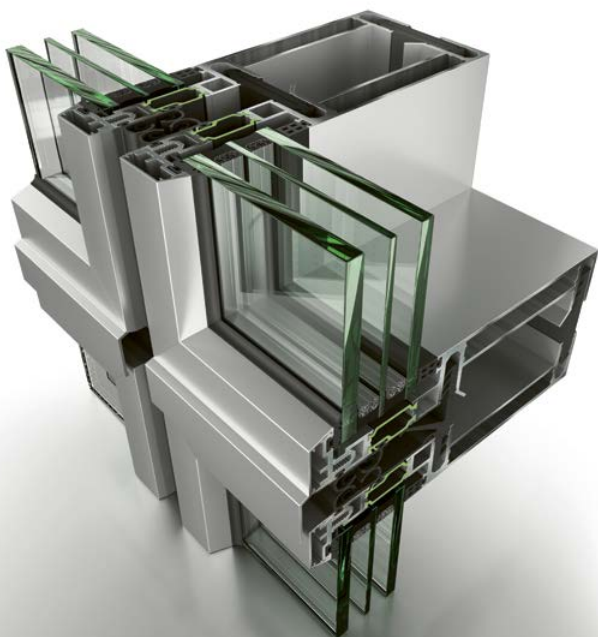
SERIES



E99 is a superior unitised curtain walling system, recommended for high rise buildings. It provides:

- solutions with visible and non-visible (bonded glazing, widely known as structurally glazed system) aluminium on the external surface;
- accommodation to glazed infills as well as non-transparent panels;
- integration with projected constructions, such as external shading;
- easy installation with minimum on-site human effort;
- ideal for areas with intense seismic activity.





## TECHNICAL FEATURES

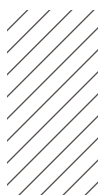
System basic width:	99 mm
System basic depth:	222 mm
Infill thickness range:	23 ÷ 56 mm
Max. weight:	1.200 kg
Inertia mullions ( $I_x$ ; wind load):	up to 571 cm <sup>4</sup>
Inertia transoms ( $I_x$ ; wind load):	up to 1.090 cm <sup>4</sup>
Inertia transoms ( $I_y$ ; glass load):	up to 253 cm <sup>4</sup>
Thermal transmittance $U_f$ :	$\geq 2.4$ W/(m <sup>2</sup> K)





# E86 advance

SERIES



E86 is a highly performing window wall system. It provides:

- exceptionally high performance results, respecting the most severe tests;
- accommodation to glazed infills as well as non-transparent panels;
- easy installation with minimum on-site human effort, from the inside;
- incorporation of ETEM systems as infills.





## TECHNICAL FEATURES

Receptor width:	152 mm / 6"
Receptor height:	55 mm / 2 1/8"
Min. section height (r+f):	75 mm / 3"
Infill thickness range:	up to 48 mm
Max. weight:	600 kg
Thermal transmittance $U_f$ :	$\geq 1,0 \text{ W}/(\text{m}^2\text{K})$ $\geq 0,19 \text{ Btu}/(\text{hr ft}^2 \text{ F})$



# VENTILATED FAÇADE SYSTEMS

ETEM's ventilated façade systems are part of the external envelope of the buildings allowing quick, secure and cost-effective installation of different cladding materials.

The systems are based on the principle of natural ventilation, which is achieved through an air gap between the façade materials and the building's walls.



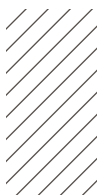




# E97 BRAVO

advance

SERIES



E97 BRAVO is a ventilated façade subframing system, ideal for large and flat surfaces, cladded with metal sheets (e.g. etalbond). It provides:

- solutions with hangers which allow adjustments to three dimensions;
- tolerances that allow the thermal expansion movements;
- fast and secure installation.





## TECHNICAL FEATURES



Cladding material thickness range:	0,7 mm ÷ 4 mm
Max. cladding material weight:	8 kg / m <sup>2</sup>
Mounting method:	hangers, slots, rivets
Max. span length (height):	1.500 mm
Max. span length (width):	6.000 mm
Distance range from the wall:	40 mm ÷ 270 mm



# E97 VARIO advance

SERIES



E97 VARIO is a ventilated façade subframing system for cladding with horizontal and vertical joints. It provides:

- solutions for a wide range of cladding materials, such as lamellas, ceramic tiles, glass, HPL, cement, GFRC etc;
- mounting methods that ensure rigidity on the cladding elements;
- resistance to weather conditions;
- fast and accurate installation.





## TECHNICAL FEATURES



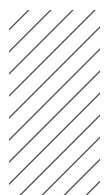
Cladding material thickness range:	4 mm ÷ 12 mm
Max. cladding material weight:	20 kg / m <sup>2</sup>
Mounting method:	rivets, clips, adhesives, slots
Max. span length (height):	2.250 mm
Max. span length (width):	4.100 mm
Distance range from the wall:	40 mm ÷ 270 mm





# E97 FORTE advance

SERIES



E97 FORTE is a ventilated façade subframing system for cladding heavy materials, such as marbles, stones or light transmitting concrete. It provides:

- non visible holding elements;
- easy access for maintenance purposes;
- fast and easy installation.





## TECHNICAL FEATURES

Cladding material thickness:	$\geq 10$ mm
Max. cladding material weight:	90 kg / m <sup>2</sup>
Mounting method:	undercut anchors, pins
Max. span length:	1850 mm
Max. span length (width):	4100 mm
Distance range from the wall:	40 mm ÷ 270 mm





# **WE SUPPORT YOU IN EVERY STEP**

Our upgraded solutions are the ideal choice for environmentally friendly buildings characterized by high energy performance, while the excellent quality support services guarantee the best and most productive result in the whole life cycle of our products. The expertise of our human resources, combined with the respect and support of each professional as a partner, is a primary goal of ETEM. The goal of our associates is to provide solutions throughout the life cycle of the project.







## ARCHITECTS

In ETEM:

- / we work closely with each architect to understand his needs, desires and requirements.
- / we propose the best solutions at all levels and we study how the systems that are specified will work harmoniously with the other elements - parts of the project
- / we analyze a project, identify its current and future needs, and provide solutions developed specifically to meet technical, operational and design requirements.

To the project stakeholders, designers, contractors and builders, we provide:

- / Complete documentation and support in the preparation of the submission files,
- / Specification articles, technical description and invoice articles.
- / Support in Value Engineering processes with alternative proposals finding balances between aesthetics, functionality, performance and final value of solutions.
- / Application details and solutions in an AUTOCAD database
- / Access to the BIM libraries of the systems
- / Environmental Product Declaration



## MANUFACTURERS

Everything you need to know about the technical assistance and distribution network of ETEM.

In ETEM

/ we provide all forms of technical support to our partners, offering all the necessary tools, but also regular communication, in order to prevent and address all technical issues related to a construction, throughout its life cycle.

In addition to the physical and online meetings, but also the constant updating of our digital material, ETEM provides to its partners

- / All the necessary Newsletters
- / Press releases of technical and commercial content
- / Easy access to the ETEM Digital Download Center where all the forms that come with the systems

are available (technical catalogs, product passports, certifications, etc.)

Based on the market need for fast service we provide

- / The "Express product list", which is updated automatically in real time, based on the availability of the warehouse.
- / Its specialized personnel takes care of learning the operation of the ETEM's software, which serves in the detailed calculation of performance in order to fully meet the design specifications of each project, as well as its cost.

Whenever a new product is designed or when changes are made to existing solutions, ETEM takes care, through its consultants, to analyze and explain to its partners all the changes and the technical characteristics.











## ENVIRONMENTAL PROTECTION & SUSTAINABILITY

According to the principles of sustainability and bioclimatic design, the modern buildings today, need to be durable, functional and offer comfortable living conditions, promoting the well-being of users.

An environmentally sustainable building, designed, constructed and operated to minimize overall environmental impact and protect natural resources, must have a range of certified systems in place to ensure the objective measurement of important environmental indicators, and aim at maximizing energy savings, in the optimal management of solar radiation but also in the overall building management of the facade with the use of environmentally friendly products. In addition to the performances achieved by the systems during the use of the building, special attention is now given to the overall energy footprint of the materials used in it.

Aluminum, as a material, is collected and recycled to 100%, requiring only 5% of the energy needed for its primary production, without any quality degradation or structural change. This is a feature that makes it one of the most environmentally friendly building materials. The choice of thermal insulation frames of aluminum, guarantees the energy shielding of a building resulting in a significant improvement of energy efficiency and the saving of energy and financial resources in long term.

ETEM has the relevant product declarations (EPD's - Environmental Product Declaration) both for the raw material itself (aluminum alloys - EPD production) as well as for its integrated aluminum systems, strengthening its commitment to the principles of sustainable construction. At the same time, ETEM has been certified with ISO 14001:2015, the international standard which proves that the infrastructure of the company is responsible and operates with respect to the environment and society in general.

The upgraded systems of ETEM, combine high thermal performance providing passive ventilation and natural cooling of the building, through the wide variety of choices of facade materials. At the same time, the wide range of shading options offered by the company, supports the operation of modern buildings.

The green buildings, staffed with ETEM systems, are efficient in terms of resources, energy and materials, while creating a comfortable living environment for the end user.

# Notes

A series of horizontal dotted lines for writing notes.







#### HEAD QUARTERS

Ir. Politechniou 1-4, Magoula 19018,  
T. (+30) 210 489 8605  
F. (+30) 210 489 8500-10  
Email: etem.gr@etem.com

#### THESSALONIKI BRANCH

6th km. Thessaloniki-Athens,  
570 09 Kalochori Thessaloniki  
T. (+30) 2310 790330  
F. (+30) 2310 753416

#### CRETE BRANCH

Road Chanion-Sounias, 73131  
T. 28210 09875  
F. 28210 31104  
Email: chania@etem.com

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#### COMMERCIAL BRANCHES

##### Bulgaria

ETEM BULGARIA S.A.  
119 A Iliyantsi blvd. , 1220 Sofia, Bulgaria  
T. +359 2 92 19 111  
F. +359 2 92 19 160  
Email: etem.bg@etem.com

##### Serbia

ETEM SCG  
Cara Dusana BB, Industrijska Zona 22 330  
T. (+381) 22 32 80 19-20  
F. (+381) 22 32 80 19-20  
Email: etem.sr@etem.com

##### Romania

ETEM SYSTEMS SRL  
RO-077090 Ilfov, com. Domnesti, Bretea  
Autostrada Bucuresti Pitesti km 11 +272  
T. (+40) 21 351 81 15  
F. (+40) 21 319 30 24  
Email: etem.ro@etem.com

##### Ukraine

ETEM SYSTEMS LLC  
Zdolbunivska Str., 7-D  
T. (+38 044) 499 07 87  
F. (+38 044) 499 07 86  
Email: office@etem.com.ua





