Windows for ***a better life***

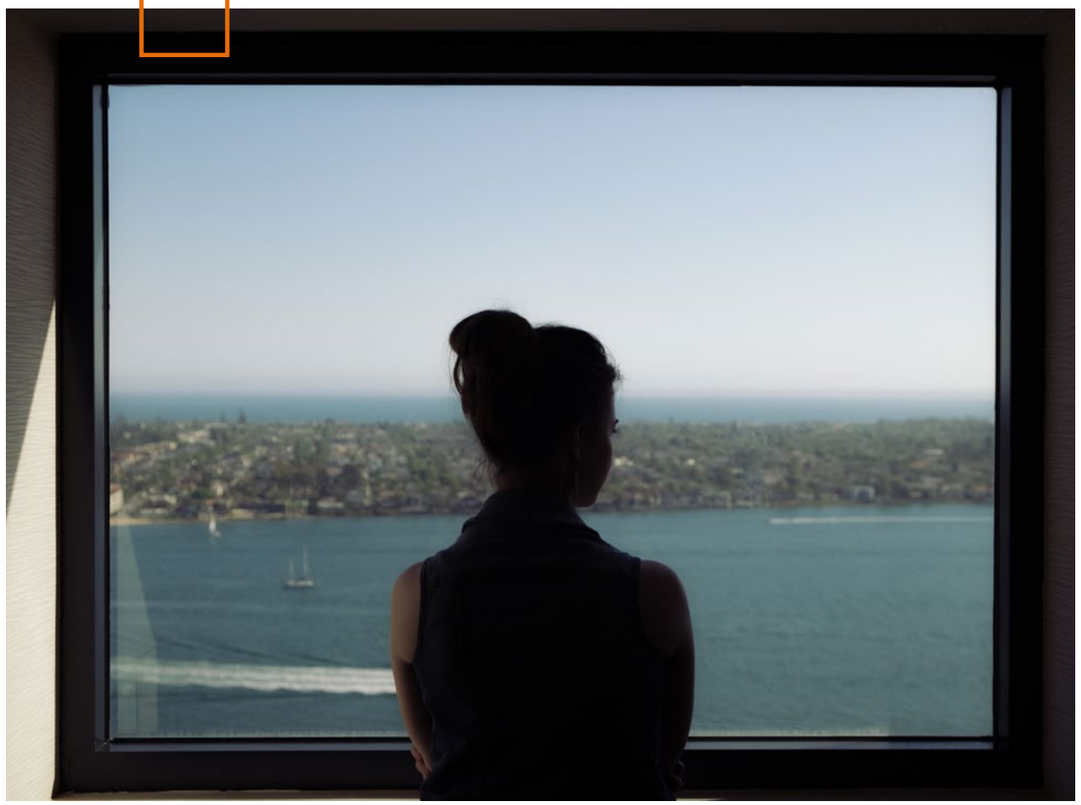
THERMIA®
BARCELONA

THERMIA BARCELONA PHILOSOPHY
WHO WE ARE AND WHO WE WILL BE

At Thermia Barcelona® we believe that windows should be a perfect blend of emerging-generation materials and cutting-edge technology, with the ability to offer construction solutions to build new spaces where none had been before.

As the link to the outside world, they should enable natural light to radiate throughout the space, providing comfort and isolation while maximizing energy savings, which is necessary now more than ever. A window should help to create functional, comfortable, and beautiful homes and be in harmony with the people living there. This is why we strive to go the extra mile every day.

"For us, a window is more than just a structure embedded to a wall, for us ***a window is nothing less than an opportunity to live a better life".***



“Looking from outside into an open window you never see as much as when you look through a closed window. There is nothing more profound, more mysterious, more pregnant, more insidious, more dazzling than a window lighted by a single candle. What you can see out in the sunlight is always less interesting than what goes on behind a window pane. In that black or luminous square life lives, life dreams, life suffers.”

Charles Baudelaire

Design
Comfort
Silence

Cover: Distributor: ALUTERMICS / Building company: INTERDICO HOME BUILDER / © photo: Sergio López @sergio.lopez.photo

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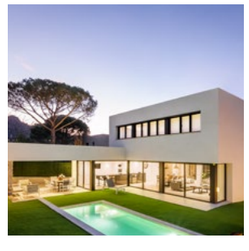
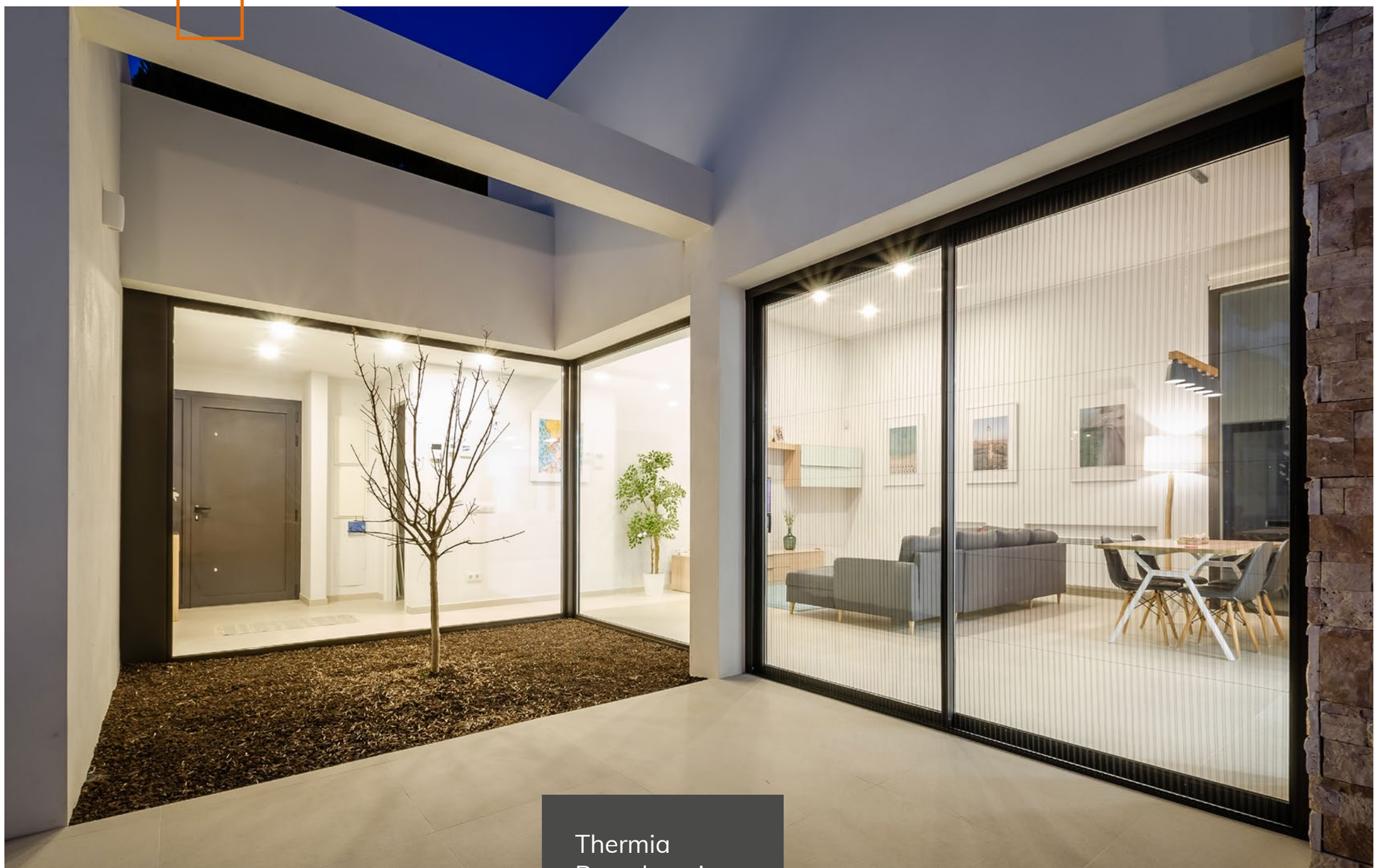


© Casa Natura | Diez + Muller architecture firm | Thermia distributor in Ecuador: Er Servicios

Our home is our shelter, our temple, our comfort. The place to get in touch with who we are. Where we flow.

We forge stories through objects, and we will talk about ourselves through them and tell our stories from **the window.**

Design
Comfort
Silence



© image: @sergio.lopez.foto | Thermia distributor: Alutermics

Thermia Barcelona is the perfect partner for ***your projects.***

Our products are the result of ***exhaustive study and design***, with the aim of offering the client ***much more than a window.***

Open up a world of possibilities for your business by offering our ***windows for a better life.***

Design
Comfort
Silence

Our way of understanding what we do: ***Thermia Barcelona's philosophy and approach***

The human capabilities of Thermia Barcelona are what define us as a company. Without our team of involved and committed professionals, it would be very difficult to do what we do.

And this aspect, that of close involvement, is what we try to convey in our dealings with every client. Our commitment extends beyond the purchase of the product. We are committed to advising you, listening to you, and supporting you through every step of your project.

One of our goals at Thermia Barcelona is offering our clients a quality, long-lasting, and guaranteed product that meets the comfort and design requirements that today's market demands. **Our client should feel that they partnered with a professional and responsible team that will guide and support them all the way.**

In our eyes a window is...

"We think of a window as something more than a structure embedded in a wall.

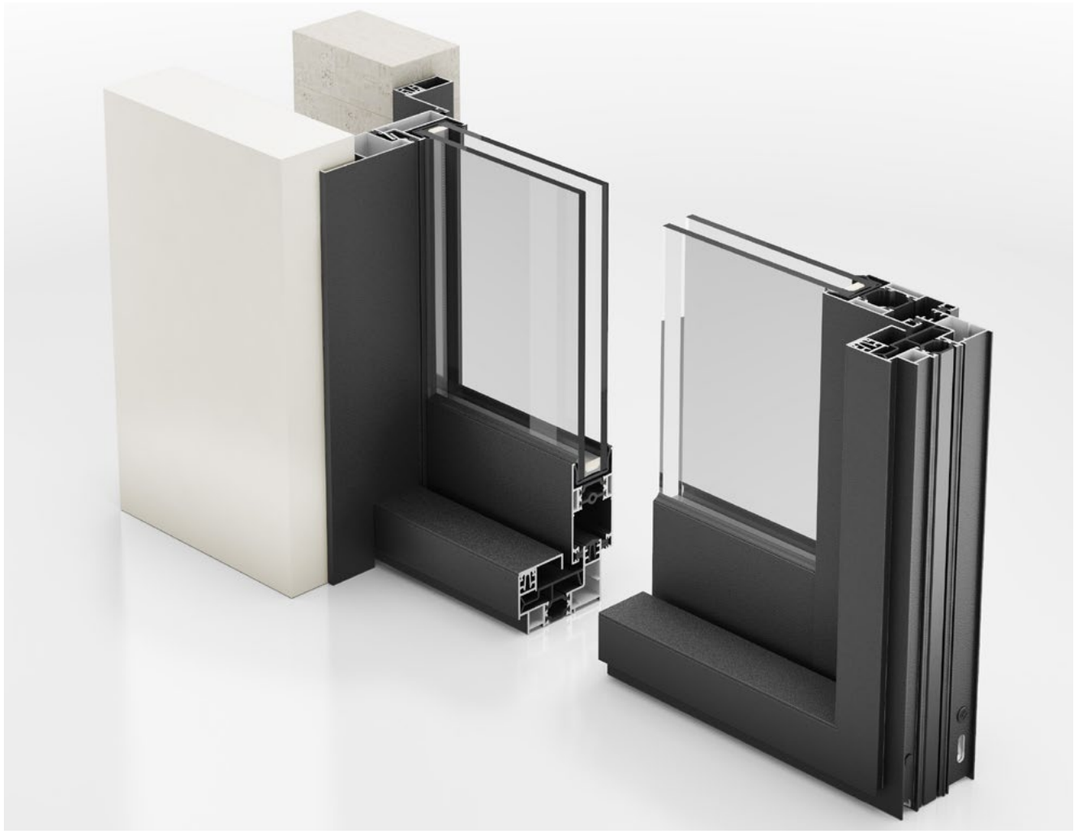
For us, a window must go further, creating spaces where there were none before and allowing our home to be bathed in natural light. It should be airtight to protect us from cold and heat, and provide us with a silent environment. It should have a design that harmonizes with the rest of the architecture and facilitate energy savings. A window should help create a more comfortable and functional home, with minimal effort on the part of the user.

For us, a window is nothing less than an opportunity for a better life. And that is why we need to produce a high-quality product.
A window of this excellence can only be created through an ingenious design system. In other words, all the elements that make up the window must have been studied and must be properly combined so that the window fulfills the mission we have entrusted to it.

The technical area of Thermia Barcelona is constantly looking for ways to improve and fine-tune the system, in order to improve the features of each and every one of our windows."

Committed, professional, creative, technically-minded, involved, transparent, curious, empathic, optimistic, sensitive. That is the approach that we take here at Thermia Barcelona.

Design
Comfort
Silence



The quality of Thermia® windows: a constant from start to finish

In an increasingly demanding market, we must offer our clients an option with maximum assurance of certified quality.

All Thermia Barcelona® enclosure systems are designed and tested in strict compliance with European market regulations, which require high performance in terms of airtightness, durability and performance in inclement weather, together with maximum energy savings.

THERMIABARCELONA.COM

All Thermia® windows are manufactured by specially-trained professionals to ensure that every component of the window will work properly.

Thermia Barcelona® systems are extruded and assembled in accordance with ISO 9001 and tested under Standard EN 14351-1:2006.

The surface treatments have the QUALICOAT SEASIDE quality seal for lacquer, QUALIDECO for imitation wood lacquer, and QUALANOD for anodization.

Technical office and in-house test bed facility

These departments provide a wealth of benefits, with important examples being:

1. Better control and speed in implementing system improvements.

2. System adaptations for specific markets or even **individual works.**

3. Constant innovation to adapt our product to market changes.

QUALITY SEALS

Qualanod seal for anodization

License number: 1014

Qualicoat seal for lacquer

License number: 405

Qualideco seal for imitation wood

License number: ES-0009F

European Union

CERTIFICATION

DIMAC SL 2020 ACCESSORY
EN 1435-1: 2006
THERMIA BARCELONA SERIES

All Thermia Barcelona® systems are tested in laboratories approved to conduct air permeability, watertightness and wind resistance tests.

Design
Comfort
Silence

Facilities. Where Thermia® ***windows are designed and manufactured***

Thermia Barcelona's headquarters are located in Sant Quirze del Vallès (Barcelona). This strategic location, in proximity to major international sea ports and airports, allows us to deliver products to our customers at any destination in the world, quickly and efficiently.

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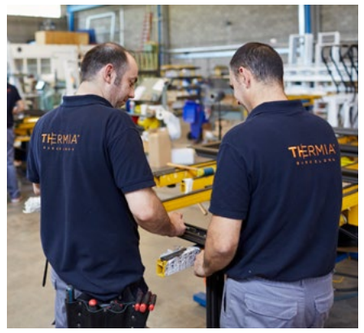
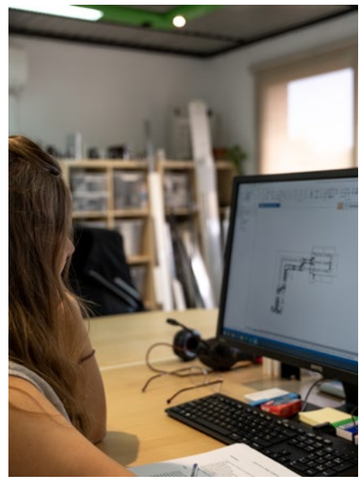




More than 7000m^2
of facilities
to serve our clients

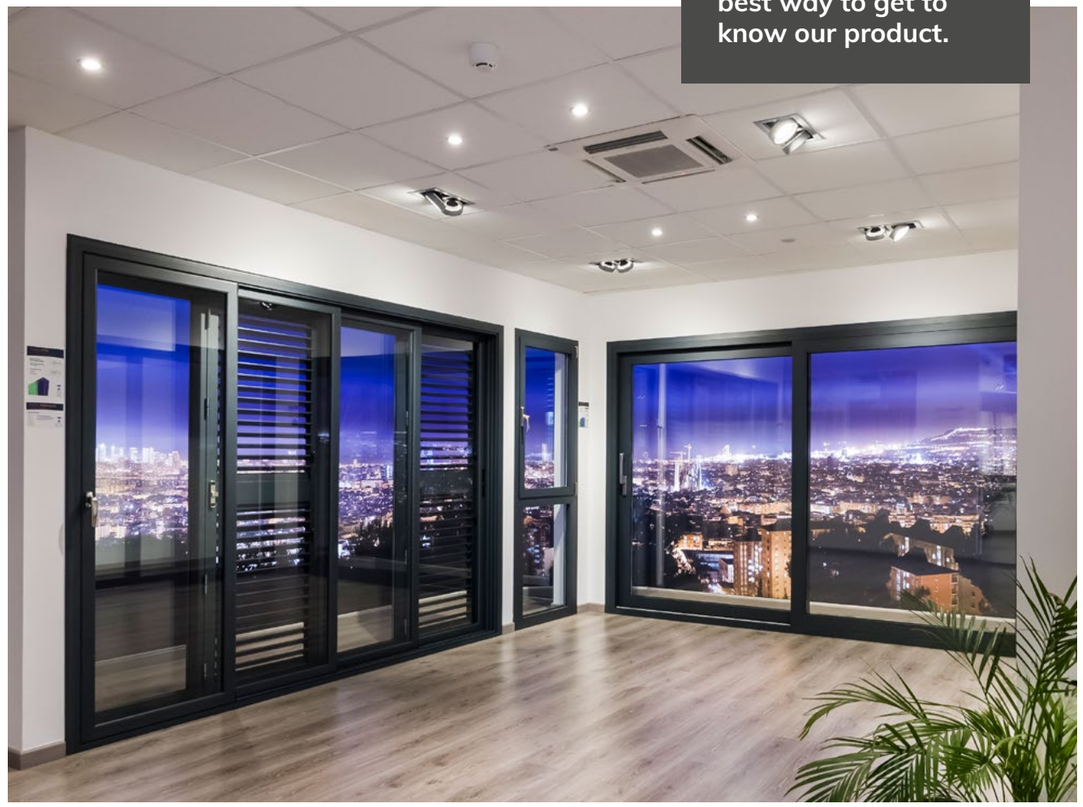
Design
Comfort
Silence

Thermia® showrooms
An essential tool

Thermia Barcelona's showrooms have become an essential tool during the sales process for our clients from all backgrounds.

In this interactive space, you can observe the technical features of the system directly, handle every product category, and experience our product quality for yourself. Everything you need to help you or your clients make a decision.

Look. Touch. Handle.
Without a doubt, the best way to get to know our product.



It is worth pointing out that **most visits** to our *showrooms* end in a **sale**

Thermia® showrooms

The importance of ***seeing and touching the product***

Barcelona (Spain)

Location
C/Narcís Monturiol 34
08192 Sant Quirze del Vallès, Barcelona (Spain)

Girona (Spain)

Location
Carrer Pla de Dalt,
17840 Sarrià de Dalt, Girona (Spain)

Thermia Barcelona currently has 6 of its own showrooms where people from around the world can discover quality aluminum windows.

Lima (Perú)

Location
Av. Paseo de la Republica 3583
San Isidro 15047 Lima, Peru
Phone. +51 1 7197649

Arequipa (Perú)

Location
Av. independencia 1244, esquina 2 de
Mayo, 04001 Arequipa, Peru
Phone. +51 959604480

Cusco (Perú)

Location
Avenida Pachacutec,
501 Wanchaq, Cusco, Peru
Phone. +5117197649

Trujillo (Perú)

Location
Avenida Pachacutec,
501 Wanchaq, Cusco, Peru
Phone. +5117197649

Location: Costa Brava – Catalonia, Spain
Architect: XS arquitectes

Thermia® windows around the world ***Completed works***

Chabrier Building
Location: Miraflores, Lima, Peru
Braganini Constructores

Design
Comfort
Silence

Casa RDP

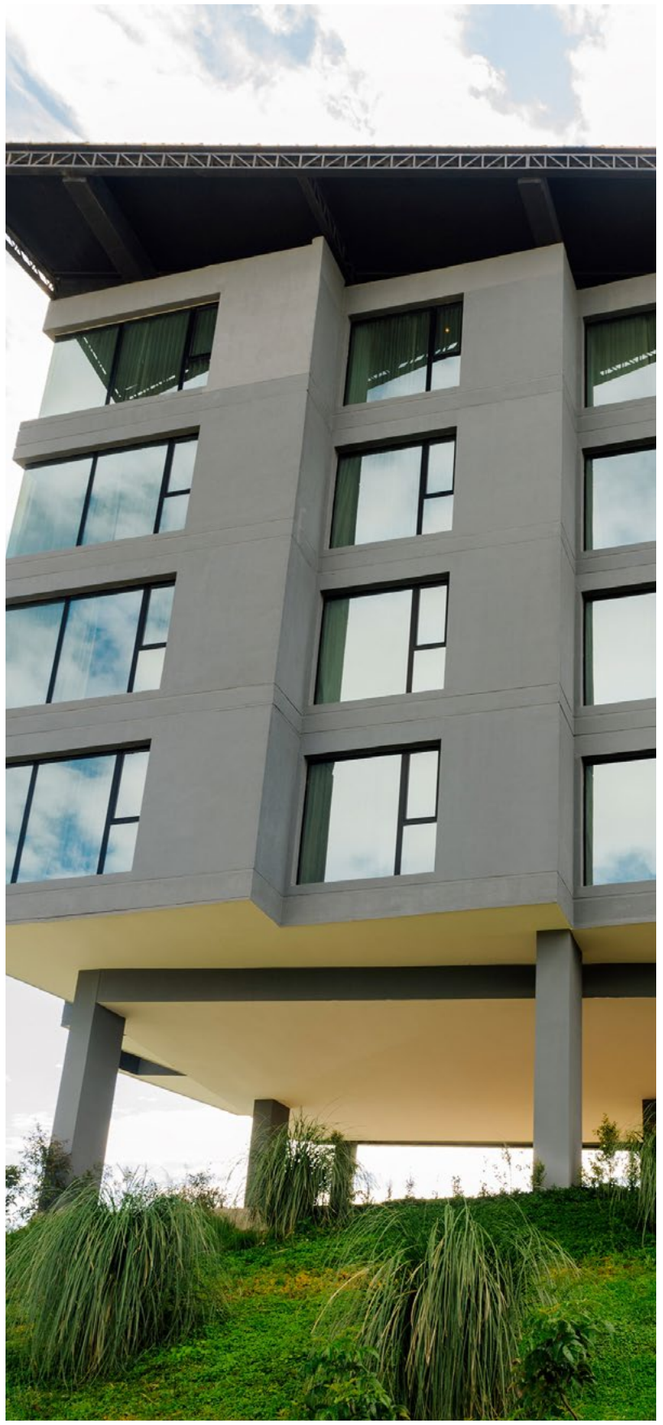
Location: Quito. Ecuador.

Architects: Daniel Moreno Flores / Sebastián Calero

Winner of the Quito Architecture Biennial BAQ2016
Finalist in the Latin American Architecture Biennial 2017

Casa RDP

Design
Comfort
Silence



WYNDHAM Hotel

Hotels. Quieter, better insulated guest rooms, leading to a higher rate of satisfaction.

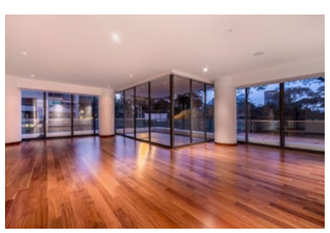
Wyndham Hotel Quito International Airport

Location: Mariscal Sucre Airport - Quito, Ecuador.

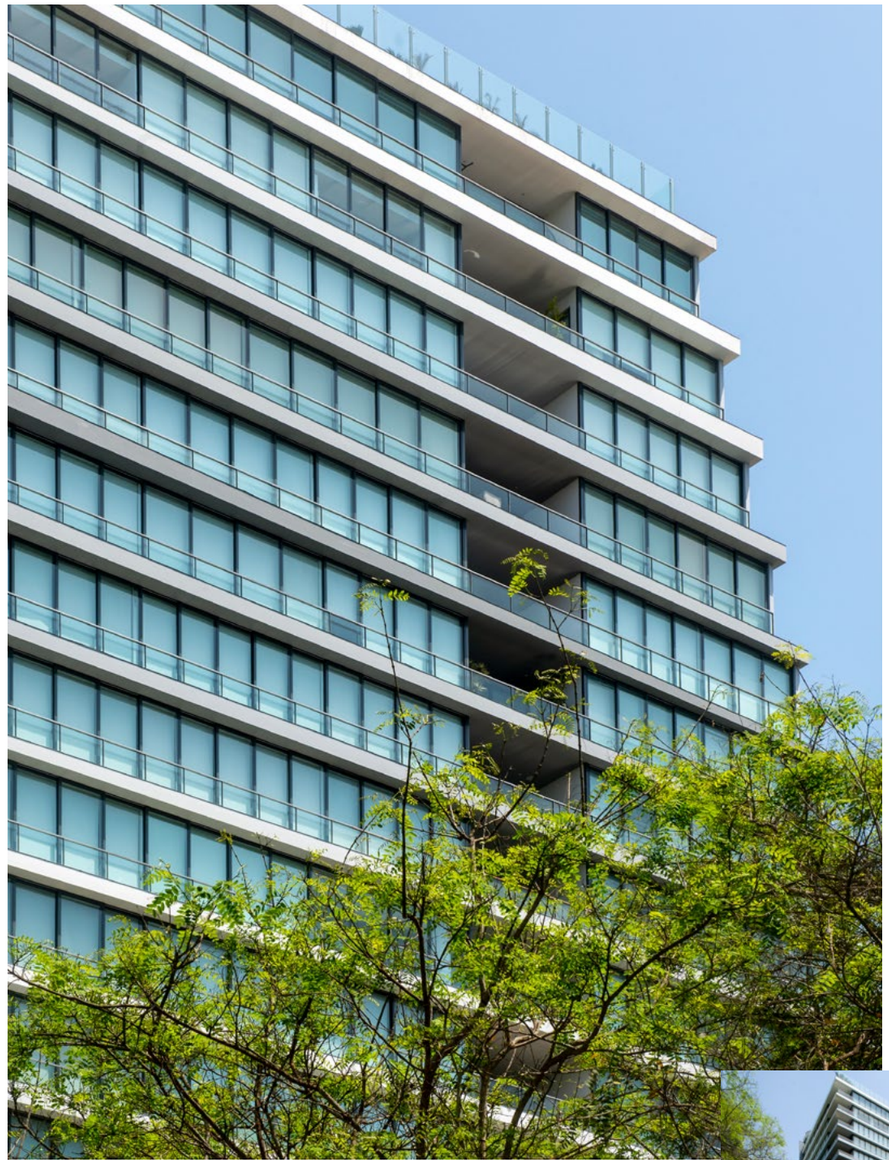
Architect: Grupo Pronobis.

Design
Comfort
Silence

Thermia® windows in Spain, France, Peru, Colombia, Ecuador, Chile, Uruguay, El Salvador, Costa Rica, Panama, Dominican Republic, India.



Klimt Building



KLIMT
RESIDENCES

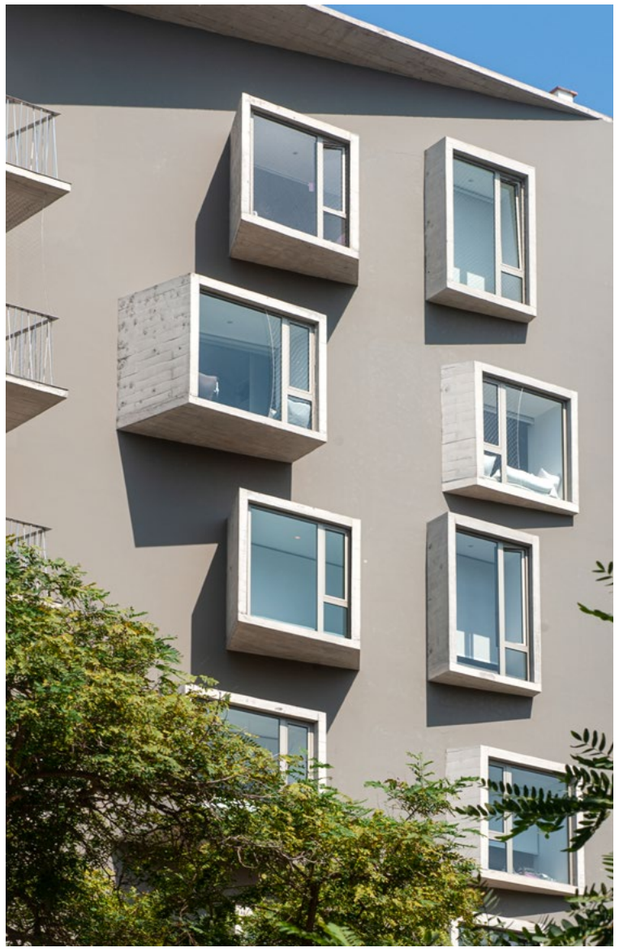
Klimt Building

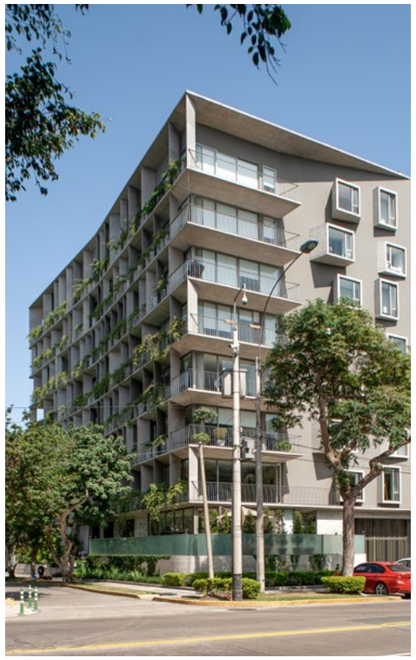
Location: Miraflores District - Lima, Peru
Architect: Bernardo Fort Brescia.

United Nations Building

Location: Miraflores, Lima, Peru

Architects: Sandra Maria Barclay Panizo, Jean Pierre Crousse De Vallongue Rastelli.

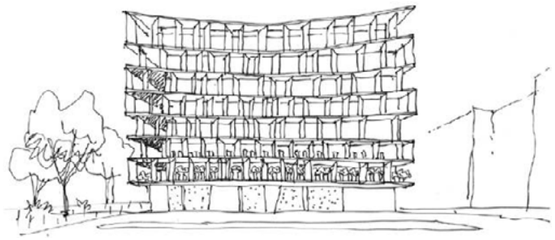


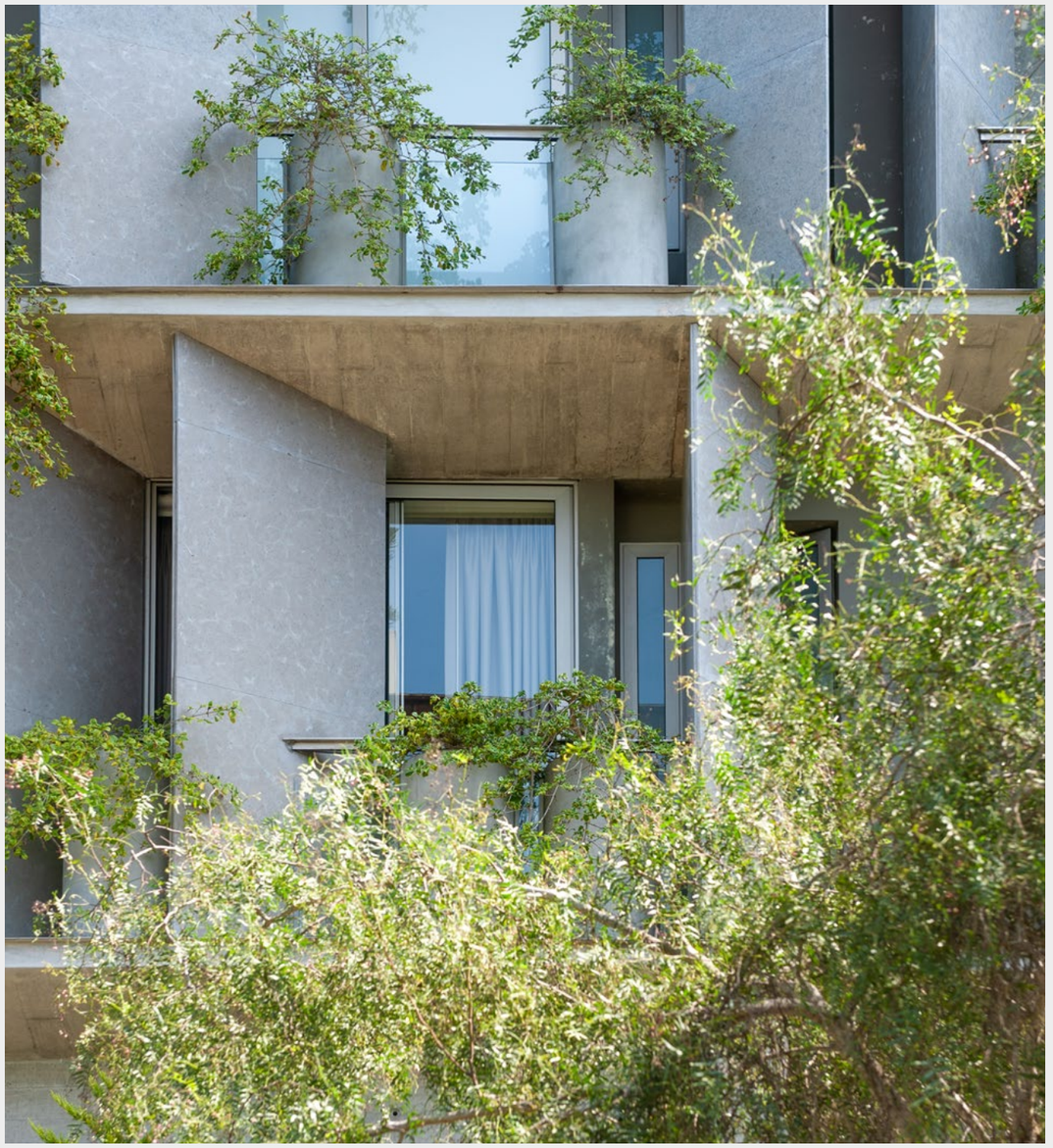


United Nations Building

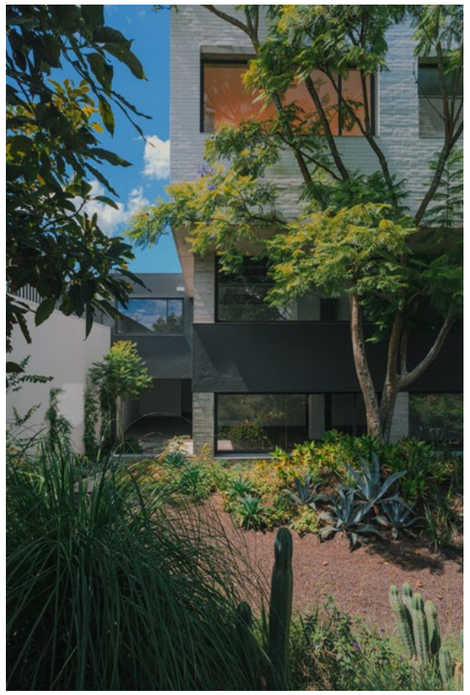
Location: Miraflores District - Lima, Peru
Architects: Sandra Maria Barclay Panizo, Jean Pierre Crousse De Vallongue Rastelli.

Winner of the PAC Award
(LIMA 2019 Architecture and City Award)
2019 low and medium-density multifamily housing category.





Design
Comfort
Silence



'Casa Natura'

Location: Valle del Tumbaco, Ecuador

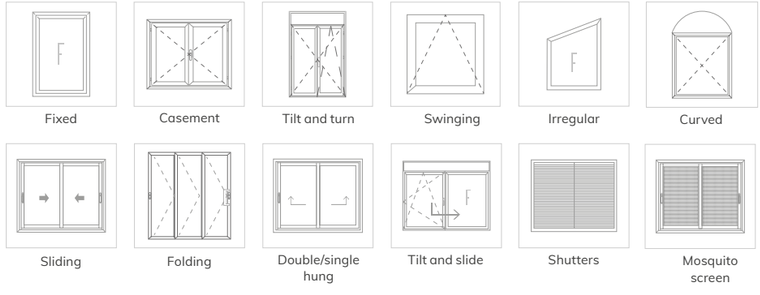
Architects: Diez + Muller

Winner of the Quito Architecture Biennial BAQ2016
Finalist in the Latin American Architecture Biennial 2017

Design
Comfort
Silence

A Thermia® window for *everyone*

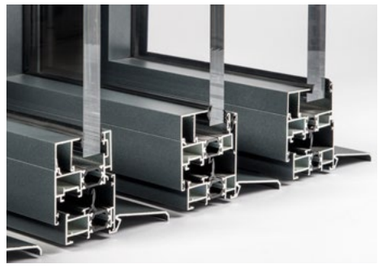
Thermia® systems have been developed to provide a solution for every type of architectural structure. Everything is conceived to allow our clients to choose:



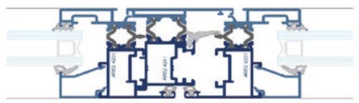
Types of windows offered by Thermia Barcelona®

Design
Comfort
Silence

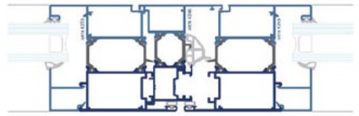
Technical solutions
Windows for all types of projects.



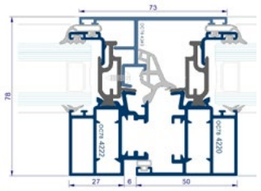
AESTHETIC SOLUTIONS



Straight aesthetics window.

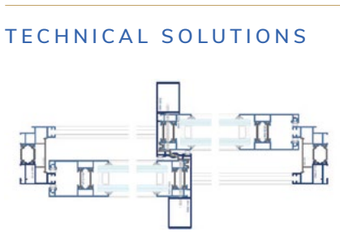


Straight aesthetics door.

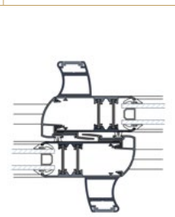


Hidden leaf.

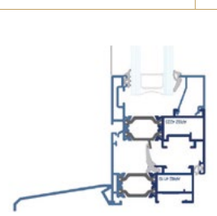
TECHNICAL SOLUTIONS



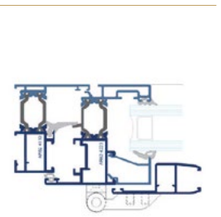
Minimalist center.



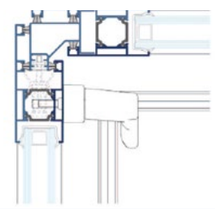
Handle reinforcement sliding window leaf.

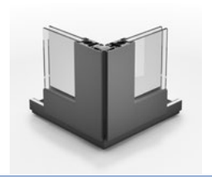


Lower tray.

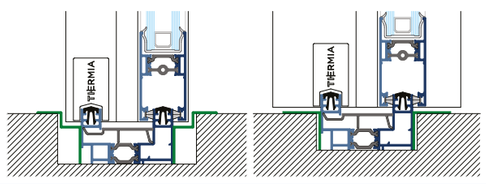


Internal shutter.

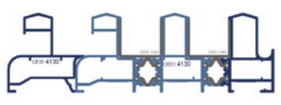




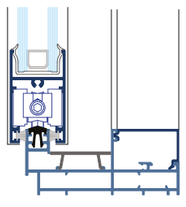
90° corner.



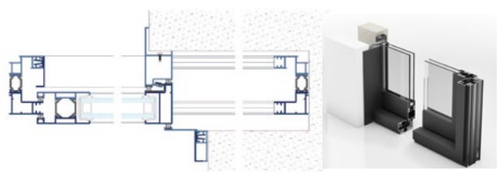
Recessed lower frame.



Multi-track frame.



Fixed single track.
The ideal combination for hotels.



Pocket or galandage.

Accessories
Getting the details right

1 / MANEUVER ACCESSORIES
Manufactured pursuant to the ISO 9001:2008 quality management standard and ISO 14001:2004 on environmental management and EN1670; ISO4628-2; ISO10289; ISO 2081 in terms of exposure to corrosion in a salt-spray chamber (24 hours).

Casement, outwards opening, and tilting cremone fittings: pursuant to EN 13126-1 and 4 and tested for 25,000 cycles. Comprising cast aluminum and stainless steel.

Tilt and turn fittings: Pursuant to EN 13126-1 and 4. Tested for 25,000 cycles, and weight of up to 130 kg/leaf. Made with high-density zamak with an anti-corrosion treatment and stainless steel.

Multi-point fittings for sliding systems: Pursuant to EN 13126-1 and 4 and tested for 25,000 cycles.

Projecting stay hinges: Pursuant to EN 13126-1 and 4 and tested for 25,000 cycles. Made of stainless steel.

Pressure closing devices: Pursuant to EN 13126-2 and tested for 25,000 cycles.

Window hinges (A0003120): Pursuant to EN 13126-1 and 4 and tested for 200,000 cycles. 70 kg loads. (2 hinges) and 90 kg. (3 hinges). Comprising extruded aluminum and stainless steel.

Door hinges (A0003130): Pursuant to EN 13126-1 and 4 and tested for 200,000 cycles. 90 kg loads. (2 hinges) and 110 kg. (3 hinges). Comprising extruded aluminum and stainless steel.

Closing devices:Pursuant to UNI EN 12209 for the range of 1 side closing devices and EN 15685 for multi-point closing devices.

Main frame and leaf closing elements: Pursuant to EN 13126-1 and UNI EN 12051 and tested for 10,000 cycles.

2 / BUILT-IN CLOSING DEVICES FOR SLIDING FIXTURES:
Pursuant to EN 1670. Tested at SGI International for 20,000 cycles.

3 / BEARINGS FOR SLIDING FIXTURES
Manufactured pursuant to ISO 9001 on quality management and UNI EN 13126-15. Tested for 10,000 or 25,000 cycles depending on the reference.

4 / AIRTIGHTNESS AND WATERTIGHTNESS ELEMENTS AND ACCESSORIES
Pursuant to ISO 9001 on quality management and manufactured pursuant to ISO 3302 on tolerances and UNE EN 12635.

Sealing and glazing gaskets: Manufactured in EPDM 70 SHORE rubber of the highest quality, resistant to weather and UV rays.

Brush weather-stripping: Pursuant to AAMA 701 and 702, manufactured using textured, siliconized multifilament polypropylene yarn stabilized against UVA rays, with a middle non-woven fabric sheet. Brush weather-stripping ultrasonically welded to the stiff

polypropylene base.

Air seal: Extruded, anodized and made-to-measure aluminum base. Textured, siliconized multifilament polypropylene yarn stabilized against UVA rays, with a middle sheet.

5 / ASSEMBLY ACCESSORIES
Manufactured pursuant to ISO 9001 on quality management.

Corner joints:Manufactured using cast or extruded aluminum and Dracomet 320-coated M6 screws, zamac buttons, and reinforced steel springs.

Alignment joints: Stainless steel

6 / OTHER ACCESSORIES (***Plastic molded parts pertaining to the system***)
Manufactured pursuant to ISO 9001 on quality management.

Decorative elements: Polyester materials, high-density PA6 polyamide.

Functional elements: PA6+TPE, polyamide and fiberglass.

Only the best accessory brands guarantee that windows will work properly and keep performing for a long time. This is why **Thermia Barcelona® windows are made exclusively with accessory brands manufactured in accordance with European standards.**

ISEO MASTER
GU AXALYS

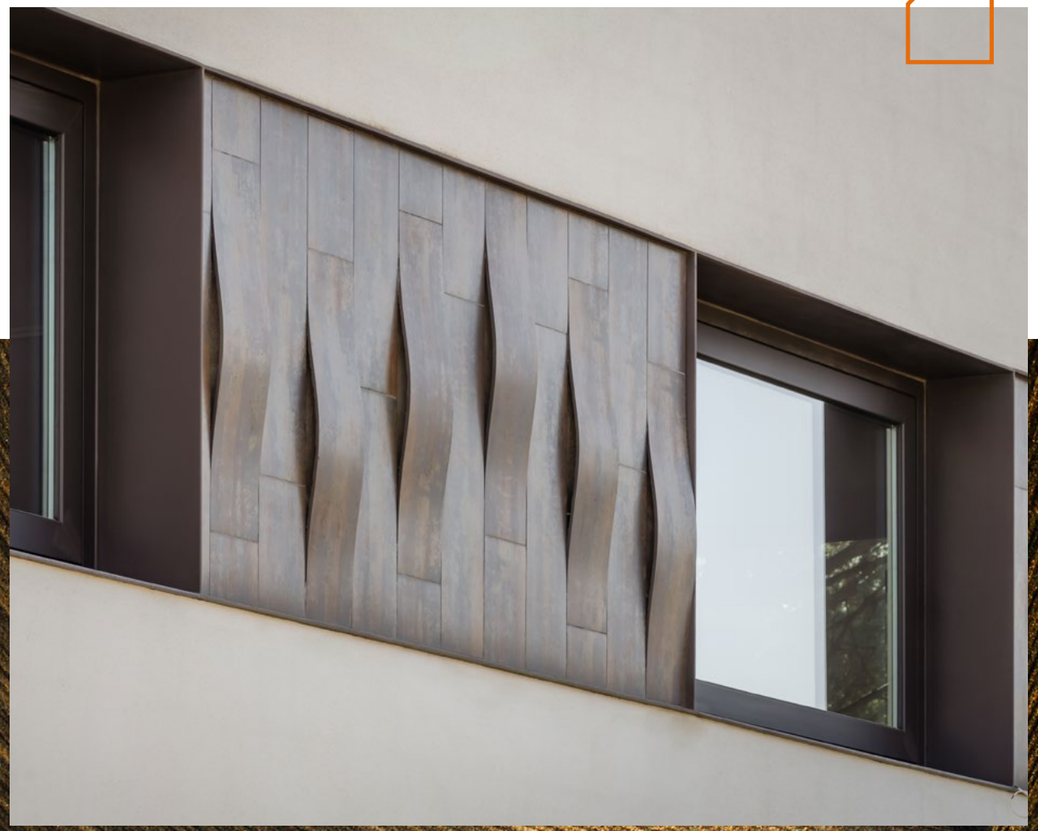
Every component of the window has undergone open-close cycle testing and corrosion measurement in a salt-spray chamber.

Member of CSQ Federation RINA ISO 9001:2008 Sistema Qualità Certificato
Member of CSQ Federation RINA ISO 14001:2004 Certified Environmental System

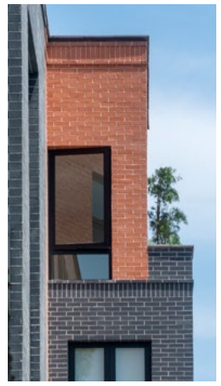
Design
Comfort
Silence

Windows
with a style of their own

At Thermia Barcelona®, we understand the importance of design in the architectural world, and that is why we offer today's most sought-after colors and finishes at the best price. So that you can add that special touch to your projects.



Profile surfaces are treated to ensure long-lasting windows. Every treatment has a quality seal, meaning that every Thermia window manufactured or sold to your clients is synonymous with reliability and durability.



Standard price		Gloss	Matte	Texture
RAL 1013 cream		✓	x	✓
RAL 1015 cream		✓	✓	✓
RAL 3005 red		✓	✓	x
RAL 5010 blue/gloss		✓	x	✓
RAL 5014 blue		x	x	✓
RAL 6005 green		✓	✓	✓
RAL 6009 green		✓	✓	✓
RAL 6021 green		x	x	✓
RAL GRAFITO gray		x	✓	x
RAL 7012 gray		✓	✓	✓
RAL 7015 gray		x	x	✓
RAL 7016 gray		✓	✓	✓
RAL 7022 gray		✓	✓	✓
RAL 7024 gray		✓	x	✓
RAL 7031 gray		x	x	✓
RAL 7035 gray		✓	✓	✓
RAL 8014 brown		✓	✓	✓
RAL 8017 brown		✓	✓	✓
RAL 8019 brown		✓	✓	✓
RAL 9010 white		✓	✓	✓
RAL 9011 black		✓	✓	✓
RAL 9016 white		x	✓	✓

Special price		Gloss	Matte	Texture
Copper rust		x	x	✓
Noir 100 sable		x	x	✓
Noir 200 sable		x	x	✓
Brun 650 sable		x	x	✓
Blue 600 sable		x	x	✓
Gray 150 sable		x	x	✓

Wood price		Smooth	Texture
Aged pine		x	✓
Sapelli mahogany		✓	✓
Golden oak		x	✓
Knotted pine		✓	✓
Dark brown		✓	✓
Golden African walnut		x	✓
Dark walnut		x	✓
Irish oak		x	✓
Ash		x	✓
Wenge		✓	✓
Andalusian walnut		✓	✓
Light cherry		✓	✓
Teak		✓	✓

Anodized price		Matte	Sanded & polished
Bronze		✓	✓
Stainless steel		✓	✓
Silver		✓	✓

Qualanod seal for anodization
License number: 1014

Qualideco seal for imitation wood
License number: ES-0009F

Qualicoat seal for lacquer
License number: 405

Quality seals

Design
Comfort
Silence

Thermia Barcelona® Series

Systems for aluminum windows

THERMIABARCELONA.COM

THERMIA® AF35 CE SERIES

THERMIA® AF52 CE SERIES

THERMIA® AR52 CE SERIES

THERMIA® AR62 CE SERIES

THERMIA® AR78+ CE SERIES

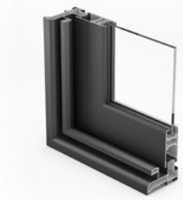
THERMIA® OC78 LUMIA SERIES

THERMIA® AR78+ C16 SERIES

THERMIA® OC78+ C16 SERIES

THERMIA® CF22 SERIES

THERMIA® CF26 SERIES



THERMIA® CF31 SERIES

THERMIA® CR31 SERIES

THERMIA® CF40 SERIES

THERMIA® CR40 SERIES

THERMIA® CR46 MAGNA SERIES

THERMIA® ER52 SERIES

THERMIA® PM 40 SHUTTER SERIES

THERMIA DECOR SERIES

THERMIA® MQ22 MOSQUITO SCREEN SERIES

THERMIA® GR48 GLASS RAIL SERIES

THERMIA® AF52M MULLION SERIES

THERMIA® FS45 QUICK SERIES

Thermia® AF35 CE

The basic, effective window

SERIES FEATURES	
Thermal break	No
Main frame	35 mm
Main leaf	35 mm
General thickness of the profiles	1.2 mm
Maximum casement glazing	8-21 mm
Maximum casement leaf weight	90 Kg
Tilt and turn leaf maximum weight	130 Kg
Available profiles	Window

ACOUSTICS

Estimated sound attenuation up to Rw **34 dB.**
Window size: 1.23 m x 1.45 m with acoustic laminated glass of 4.4/cam/4.4A

TEST RESULTS

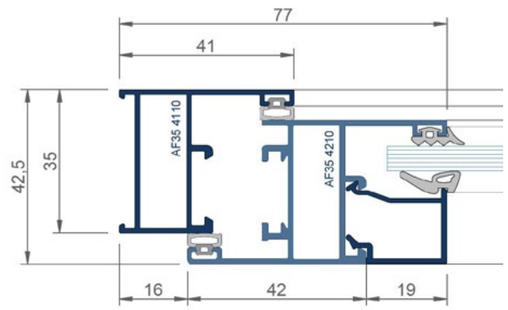
Air permeability
4

Watertightness
9A

Wind resistance
C3

Results of official tests performed on Applus® and on the basis of Annex E of standard EN-14351-1:2006

CROSS-SECTION



Quality seals

Qualanod seal for anodization
License number: 1014

Qualicoat seal for lacquer
License number: 405

Qualideco seal for the imitation wood
License number: ES-0009F

Certification

THERMIA BARCELONA
EN14351-1:2006+A2:2016

Windows for ***a better life***

Thermia® AF52 CE

Safe ventilation and energy saving

SERIES FEATURES	
Thermal break	No
Main frame	45 mm
Main leaf	52 mm
General thickness of the profiles	1.5 mm
Maximum casement glazing	27 mm
Maximum casement leaf weight	90 Kg
Tilt and turn leaf maximum weight	130 Kg
Available profiles	Window / Door

ACOUSTICS

Estimated sound attenuation up to Rw **39 dB.**
Window size: 1.23 m x 1.45 m with acoustic laminated glass of 4.4/cam/4.4A

TEST RESULTS

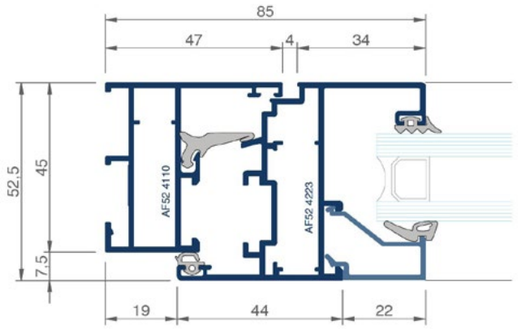
Air permeability
4

Watertightness
9A

Wind resistance
C5

Results of official tests performed on ENSATEC® 146488 and on the basis of Annex E of standard EN-14351-1:2006

CROSS-SECTION



Quality seals

Qualanod seal for anodization
License number: 1014

Qualicoat seal for lacquer
License number: 405

Qualideco seal for the imitation wood
License number: ES-0009F

Certification

THERMIA BARCELONA
EN14351-1:2006+A2:2016

Windows for ***a better life***

Thermia® AR52 CE

Thermal insulation and acoustic isolation for everyone

SERIES FEATURES	
Thermal break	Yes / 14 mm
Main frame	45 mm
Main leaf	52 mm
General thickness of the profiles	1.5 -1.6 mm
Maximum casement glazing	27 mm
Maximum casement leaf weight	90 Kg
Tilt and turn leaf maximum weight	130 Kg
Available profiles	Window / Door

	THERMAL	Window Uw = **1.56 W/m²k *** * Based on EN 10077-02 1.5x2.4 m balcony door glass Ug=1.1 ψ= 0.053
	ACOUSTICS	Estimated sound attenuation up to Rw **40 dB.** *Window size: 1.23 m x 1.45 m with acoustic laminated glass of 4.4/cam/4.4A*

TEST RESULTS

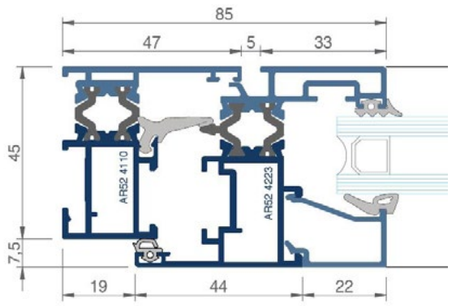
Air permeability
4

Watertightness
Window: 9A Balcony door: 6A

Wind resistance
Window: C4 Balcony door: C2

Results of official tests performed on ENSATEC® 212454 and 212466 and on the basis of Annex E of standard EN-14351-1:2006

CROSS-SECTION



Quality seals

Qualanod seal for anodization
License number: 1014

Qualicoat seal for lacquer
License number: 405

Qualideco seal for the imitation wood
License number: ES-0009F

Certification

THERMIA BARCELONA
EN14351-1:2006+A2:2016

Windows for ***a better life***

Thermia® AR62 CE

Guaranteed savings and well-being

SERIES FEATURES	
Thermal break	Yes / 24 mm
Main frame	55 mm
Main leaf	62 mm
General thickness of the profiles	1.5 -1.6 mm
Maximum casement glazing	37 mm
Maximum casement leaf weight	90 Kg
Tilt and turn leaf maximum weight	130 Kg
Available profiles	Window / Door

	THERMAL	Window Uw = **1.46W/m²k *** * Based on EN10077-02 Single-leaf 1.5x2.4 m balcony door glass Ug=1.1 ψ= 0.053
	ACOUSTICS	Estimated sound attenuation up to Rw **42 dB.** *Window size: 1.23 m x 1.45 m with acoustic laminated glass of 4.4/cam/4.4A*

TEST RESULTS

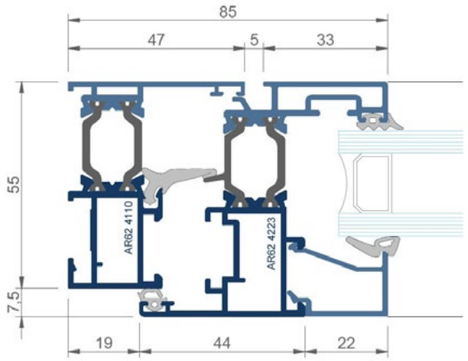
Air permeability
4

Watertightness
Window: E1050 Balcony door: 8A

Wind resistance
Window: C5 Balcony door: C2

Results of official tests performed on ENSATEC® 212454 and 212466 and on the basis of Annex E of standard EN-14351-1:2006

CROSS-SECTION



Quality seals

Qualanod seal for anodization
License number: 1014

Qualicoat seal for lacquer
License number: 405

Qualideco seal for the imitation wood
License number: ES-0009F

Certification

THERMIA BARCELONA
EN14351-1:2006+A2:2016

Windows for ***a better life***

Thermia® AR78+ CE

The solution for the most demanding clients

SERIES FEATURES	
Thermal break	Yes / 24 mm
Main frame	70 mm
Main leaf	78 mm
General thickness of the profiles	1.5 -1.8 mm
Maximum casement glazing	49 mm
Maximum casement leaf weight	90 Kg
Tilt and turn leaf maximum weight	130 Kg
Available profiles	Window / Door

	THERMAL	Window Uw = **1.07 W/m²k *** * Based on EN10077-02 Single-leaf 1.7x2.6 m balcony door glass Ug=0.7 Ψ= 0.046
	ACOUSTICS	Estimated sound attenuation up to Rw **45 dB.** *Window size: 1.23 m x 1.45 m with acoustic laminated glass of 4.4/cam/4.4A*

TEST RESULTS

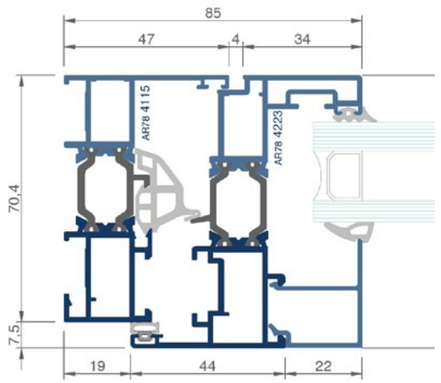
Air permeability
4

Watertightness
E1050

Wind resistance
Window: C5 Balcony door: C4

Results of official tests performed on Applus® and on the basis of Annex E of standard EN-14351-1:2006

CROSS-SECTION



Quality seals

Qualanod seal for anodization
License number: 1014

Qualicoat seal for lacquer
License number: 405

Qualideco seal for the imitation wood
License number: ES-0009F

Certification

THERMIA BARCELONA
EN14351-1:2006+A2:2016

Windows for ***a better life***

Thermia® OC78 LUMIA

The importance of light

SERIES FEATURES	
Thermal break	Yes / 24 mm
Main frame	70 mm
Main leaf	66 mm
General thickness of the profiles	1.4 mm - 1,5 mm
Maximum casement glazing	30 mm
Maximum casement leaf weight	160 Kg / leaf
Tilt and turn leaf maximum weight	160 Kg / leaf
Available profiles	Window / Door

	THERMAL	Window Uw = **1.30 W/m²k *** * Based on EN10077-02 1.2x2.4 mm window glass Ug= 1.0 ψ= 0.053
	ACOUSTICS	Estimated sound attenuation up to Rw **41 dB.** *Window size: 1.23 m x 1.45 m with acoustic laminated glass of 44/cam/44.1*

TEST RESULTS

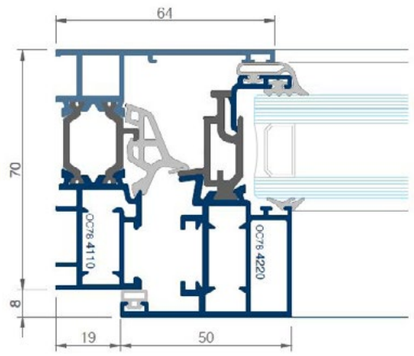
Air permeability
4

Watertightness
E750

Wind resistance
Window: C5 Balcony door: C1

Results of test reports at ENSATEC® lab, document no. 250711, and based on Annex of standard EN 14351 - 1:2006+A2:2016

CROSS-SECTION



Quality seals

Qualanod seal for anodization
License number: 1014

Qualicoat seal for lacquer
License number: 405

Qualideco seal for the imitation wood
License number: ES-0009F

Certification

THERMIA BARCELONA
EN14351-1:2006+A2:2016

Windows for ***a better life***

Thermia® AR78+ C16

More light with less aluminum

SERIES FEATURES	
Thermal break	Yes / 14 mm
Main frame	70 mm
Main leaf	78 mm
General thickness of the profiles	1.5 mm
Maximum casement glazing	49 mm
Maximum casement leaf weight	90 kg / door 100 kg
Tilt and turn leaf maximum weight	100 Kg
Available profiles	Window / Door

	THERMAL	Window Uw = **1.17/m²k *** * Based on EN 10077-02 Single-leaf 1.7x2.6 balcony door glass Ug= 0.7 ψ = 0.046
	ACOUSTICS	Estimated sound attenuation up to Rw **45 dB.** *Window size: 1.23 m x 1.45 m with acoustic laminated glass of 4.4/cam/4.4A*

TEST RESULTS

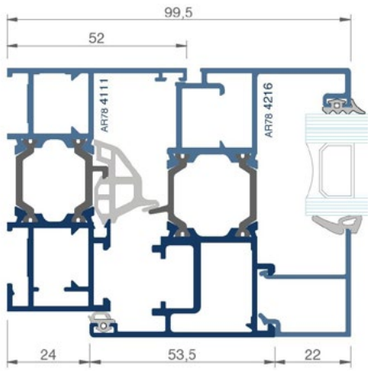
Air permeability
4

Watertightness
Window: E1050 Balcony door: E2100

Wind resistance
Window: C5 Balcony door: C4

Results of official tests performed on Applus® and on the basis of Annex E of standard EN-14351-1:2006

CROSS-SECTION



Quality seals

Qualanod seal for anodization
License number: 1014

Qualicoat seal for lacquer
License number: 405

Qualideco seal for the imitation wood
License number: ES-0009F

Certification

THERMIA BARCELONA
EN14351-1:2006+A2:2016

Windows for ***a better life***

Thermia® OC78+ C16

More light with less aluminum

SERIES FEATURES	
Thermal break	Yes / 32 mm
Main frame	70 mm
Main leaf	66 mm
General thickness of the profiles	1.5 mm
Maximum casement glazing	28 mm
Maximum leaf weight	100 Kg
Available profiles	Window

	THERMAL	Window Uw = **1.47/m²k *** * Based on EN 10077-02 Single-pane 1.2x2.4 balcony door glass Ug= 1,1 ψ= 0.053
	ACOUSTICS	Estimated sound attenuation up to Rw **41 dB.** *Window size: 1.23 m x 1.45 m with acoustic laminated glass of 4.4/cam/4.4A*

TEST RESULTS

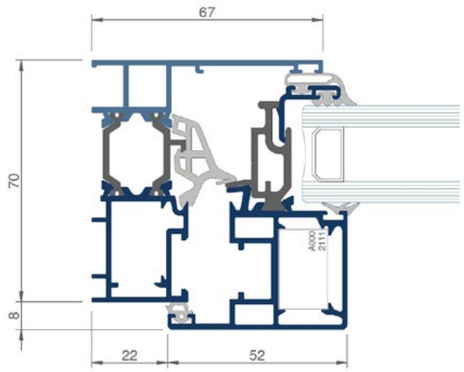
Air permeability
4

Watertightness
E1200

Wind resistance
Window: C5 Balcony door: C1

Results of official tests performed on Applus® and on the basis of Annex E of standard EN-14351-1:2006

CROSS-SECTION



Quality seals

Qualanod seal for anodization
License number: 1014

Qualicoat seal for lacquer
License number: 405

Qualideco seal for the imitation wood
License number: ES-0009F

Certification

THERMIA BARCELONA
EN14351-1:2006+A2:2016

Windows for ***a better life***

Thermia® CF22

Design and comfort for everyone

SERIES FEATURES	
Thermal break	No
Main frame	35 mm
Main leaf	22 mm
General thickness of the profiles	1.2 mm
Maximum glazing	8 mm / 15 mm
Maximum leaf weight	80 Kg
Track option	2 tracks
90° frameless “KISS” closure solution	No
Available profiles	Window / Door

ACOUSTICS

Estimated sound attenuation up to Rw **33 dB.**
Window size: 1.23 m x 1.45 m with acoustic laminated glass of 6.6

TEST RESULTS

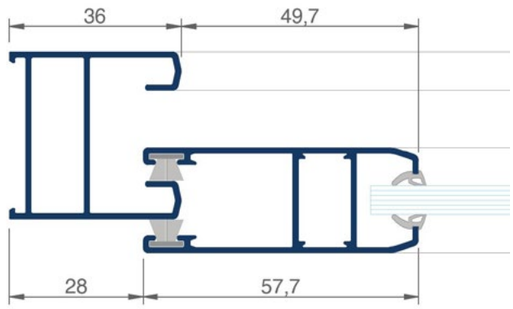
Air permeability
2

Watertightness
4A

Wind resistance
C2

Results of official tests performed on Applus® 15/10169-752 and on the basis of Annex E of standard EN-14351-1:2006

CROSS-SECTION



Quality seals

Qualanod seal for anodization
License number: 1014

Qualicoat seal for lacquer
License number: 405

Qualideco seal for the imitation wood
License number: ES-0009F

Certification

THERMIA BARCELONA
EN14351-1:2006+A2:2016

Windows for ***a better life***

Thermia® CF26

Extraordinarily versatile windows

SERIES FEATURES	
Thermal break	No
Main frame	65 mm
Main leaf	26 mm
General thickness of the profiles	1.3 mm
Maximum glazing	10 mm / 17 mm
Maximum leaf weight	120 Kg
Track option	2,3,4 or more tracks
90° frameless “KISS” closure solution	No
Available profiles	Window / Door

ACOUSTICS

Estimated sound attenuation up to Rw **36 dB.**
Window size: 1.23 m x 1.45 m with acoustic laminated glass of 44.A/cam/44.A

TEST RESULTS

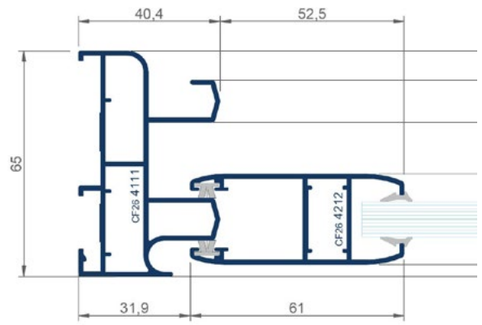
Air permeability
3

Watertightness
Window: 5A Balcony door:3A

Wind resistance
Window: C4 Balcony door: C2

Results of internal tests performed on ENSATEC® on the basis of Annex E of standard EN-14351-1:2006

CROSS-SECTION



Quality seals

Qualanod seal for anodization
License number: 1014

Qualicoat seal for lacquer
License number: 405

Qualideco seal for the imitation wood
License number: ES-0009F

Certification

THERMIA BARCELONA
EN14351-1:2006+A2:2016

Windows for ***a better life***

Thermia® CF31

Enjoy the outdoors without sacrificing silence

SERIES FEATURES	
Thermal break	No
Main frame	75 mm
Main leaf	31 mm
General thickness of the profiles	1.5 mm
Maximum glazing	10 mm - 21 mm
Maximum leaf weight	160 Kg
Track option	2,3,4 or more tracks
90° frameless “KISS” closure solution	Yes
Available profiles	Window / Balcony Door

ACOUSTICS

Estimated sound attenuation up to Rw **36 dB.**
Window size: 1.23 m x 1.45 m with acoustic laminated glass of 4.4/cam/4.4A

TEST RESULTS

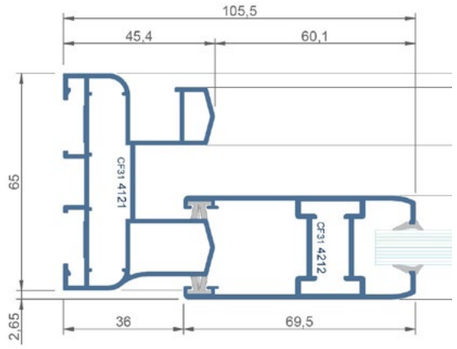
Air permeability
3

Watertightness
Window: 6A Balcony door: 4A

Wind resistance
Window: C5 Balcony door: B1

Results of tests performed on ENSATEC® on the basis of Annex E of standard EN-14351-1:2006

CROSS-SECTION



Quality seals

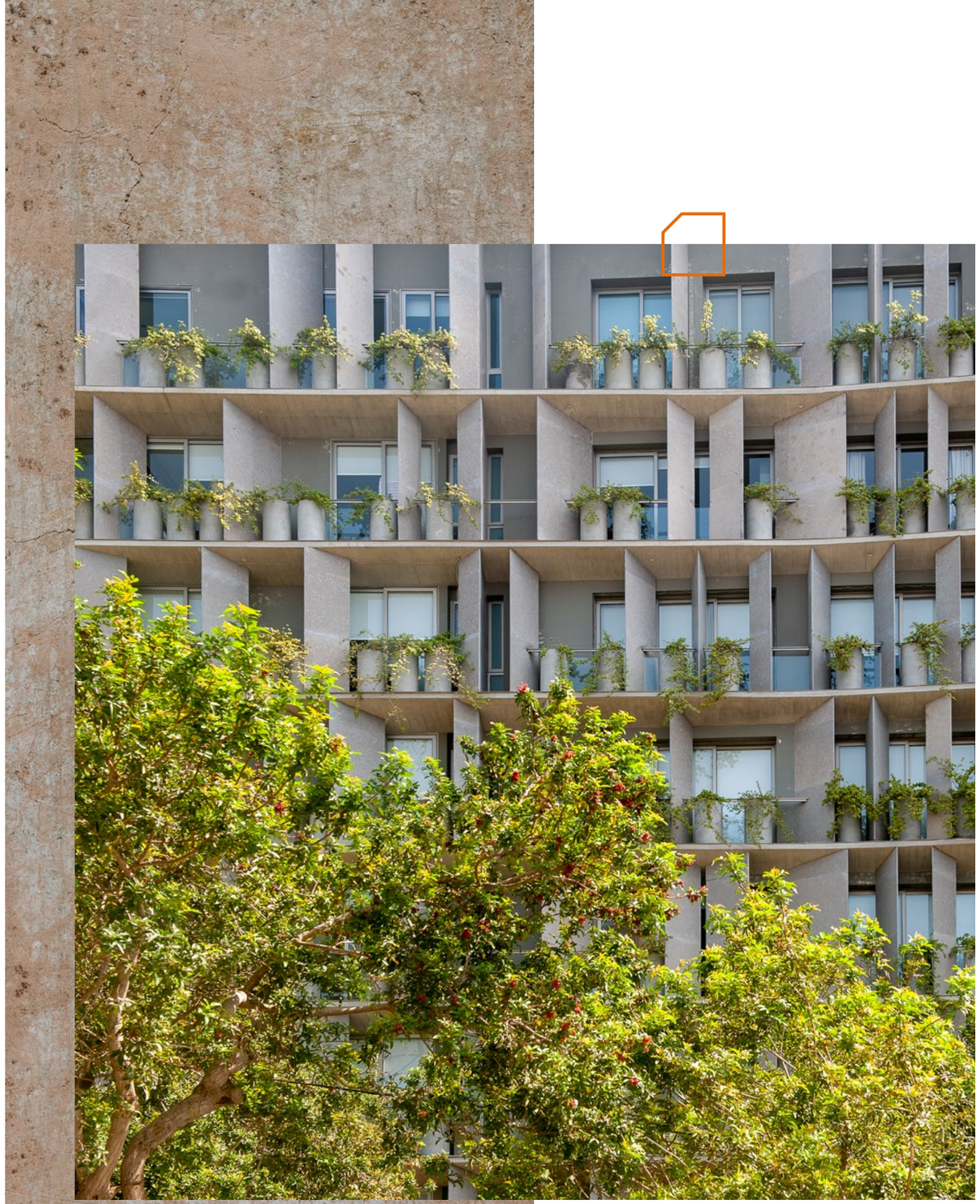
Qualanod seal for anodization
License number: 1014

Qualicoat seal for lacquer
License number: 405

Qualideco seal for the imitation wood
License number: ES-0009F

Certification

THERMIA BARCELONA
EN14351-1:2006+A2:2016



Windows for ***a better life***

Thermia® CF40 VERSIA

Design, versatility, and imagination

SERIES FEATURES	
Thermal break	No
Main frame	65 mm
Main leaf	40 mm
General thickness of the profiles	1.4 mm - 1.6 mm
Maximum glazing	28 mm
Maximum leaf weight	160 Kg - 200 Kg
Track option	2, 3 or more tracks
90° frameless “KISS” closure solution	Yes
Pocket solution	Yes
Available profiles	Window / Balcony Door

ACOUSTICS

Estimated sound attenuation up to Rw **39 dB.**
Window size: 1.23 m x 1.45 m with acoustic laminated glass of 4.4/cam/4.4A

TEST RESULTS

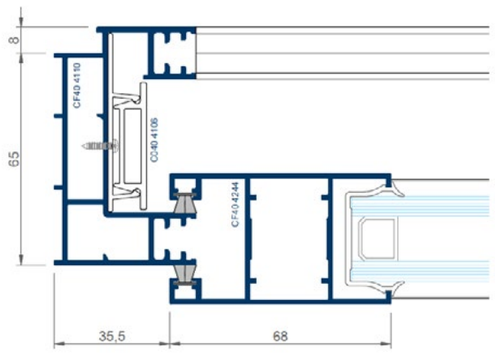
Air permeability
4

Watertightness
7A

Wind resistance
Window: C2 Balcony door:C5

Results of official tests performed on Ensatec 244728 and on the basis of Annex E of standard EN-14351-1:2006

CROSS-SECTION



Quality seals

Qualanod seal for anodization
License number: 1014

Qualicoat seal for lacquer
License number: 405

Qualideco seal for the imitation wood
License number: ES-0009F

Certification

THERMIA BARCELONA
EN14351-1:2006+A2:2016

Thermia® CR31

Windows to bring together the indoors and the outdoors

SERIES FEATURES	
Thermal break	Yes 14 mm - 24 mm
Main frame	75 mm
Main leaf	31 mm
General thickness of the profiles	1.5 mm
Maximum glazing	24 mm
Maximum leaf weight	160 Kg
Track option	2,3,4 or more tracks
90° frameless “KISS” closure solution	Yes
Available profiles	Window / Balcony Door

	THERMAL	Window Uw = **1.79 W/m²k *** * Based on EN 10077-02 2.8x2.2 balcony door glass Ug= 1.1 ψ= 0.053
	ACOUSTICS	Estimated sound attenuation up to Rw **37 dB.** *Window size: 1.23 m x 1.45 m with acoustic laminated glass of 4.4/cam/4.4A*

TEST RESULTS

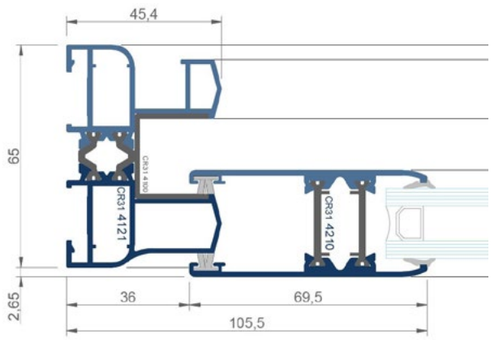
Air permeability
3

Watertightness
Window: 6A Balcony door: 4A

Wind resistance
Window: C5 Balcony door: B1

Results of official tests performed on Ensatec 232625 and 232626 and on the basis of Annex E of standard EN-14351-1:2006

CROSS-SECTION



Quality seals

Qualanod seal for anodization
License number: 1014

Qualicoat seal for lacquer
License number: 405

Qualideco seal for the imitation wood
License number: ES-0009F

Certification

THERMIA BARCELONA
EN14351-1:2006+A2:2016

Windows for ***a better life***

Thermia® CR40 VERSIA

The basic, effective window

SERIES FEATURES	
Thermal break	Yes, 24 mm
Main frame	65 mm
Main leaf	40 mm
General thickness of the profiles	1.4 mm / 1.6 mm
Maximum glazing	28 mm
Maximum leaf weight	200 Kg
Track option	2, 3 or more tracks
90° frameless “KISS” closure solution	Yes
Pocket solution	1,2 and 3 leaves
Available profiles	Window / Balcony Door

	THERMAL	Window Uw = **1.58 W/m²k *** * Based on EN 10077-02 3.2x2.4 balcony door glass Ug= 1.1 ψ= 0.053
	ACOUSTICS	Estimated sound attenuation up to Rw **40 dB.** *Window size: 1.23 m x 1.45 m with acoustic laminated glass of 4.4/cam/4.4A*

TEST RESULTS

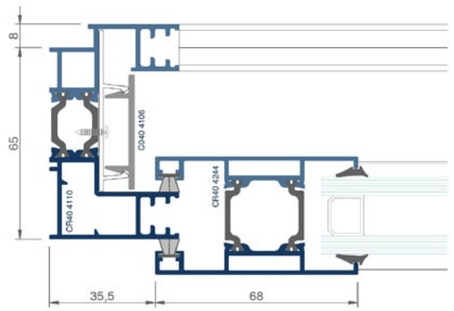
Air permeability
4

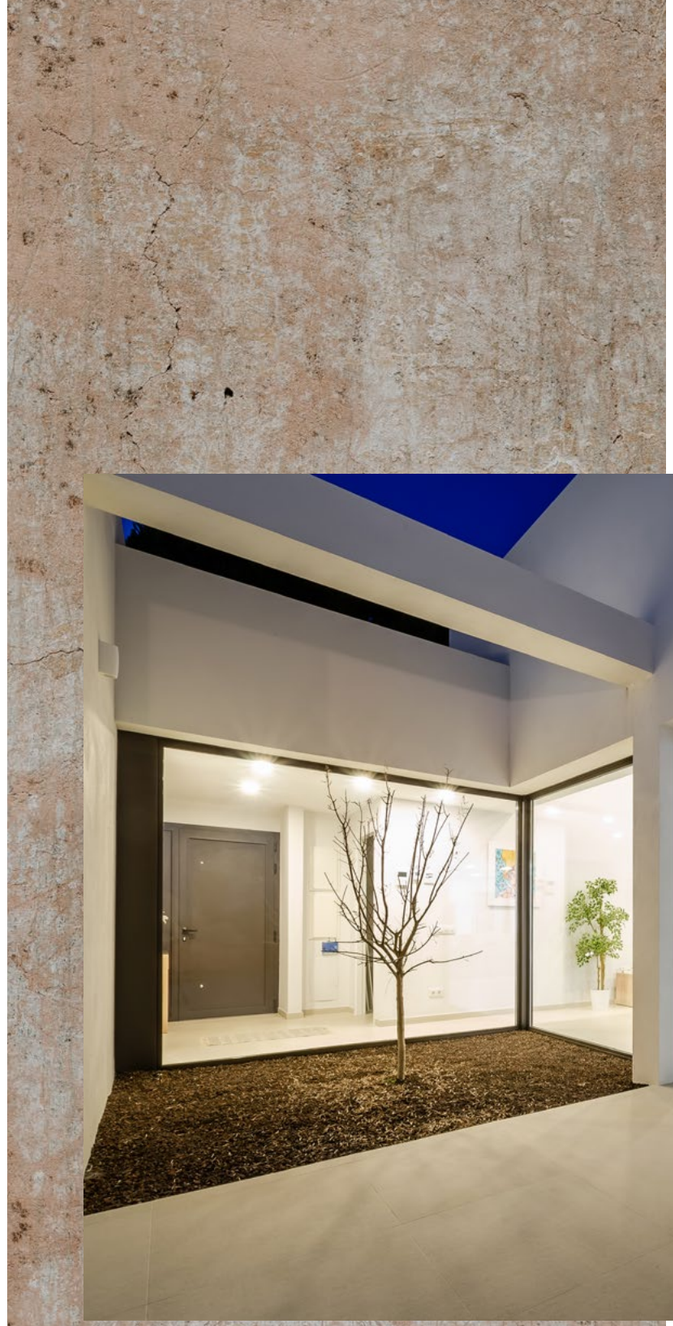
Watertightness
6A

Wind resistance
Window: C2 Balcony door: C5

Results of official tests performed on ENSATEC® 244728 and on the basis of Annex E of standard EN-14351-1:2006

CROSS-SECTION





Quality seals

Qualanod seal for anodization
License number: 1014

Qualicoat seal for lacquer
License number: 405

Qualideco seal for the imitation wood
License number: ES-0009F

Certification

THERMIA BARCELONA
EN14351-1:2006+A2:2016

SLIDING / **Thermia® CR40 VERSIA**

Windows for ***a better life***

Thermia® CR46 MAGNA

Connect with the outdoors

SERIES FEATURES	
Thermal break	Yes / 24 mm
Main frame	65 mm
Main leaf	46 mm
General thickness of the profiles	1.6 mm
Maximum glazing	34 mm
Maximum leaf weight	300 Kg / leaf
Track option	2, 3 or more tracks
90° frameless “KISS” closure solution	Yes
Available profiles	Window / Balcony Door

	THERMAL	Window Uw = **1.60 W/m²k *** * Based on EN 10077-02 Balcony Door 3.2 x 2.4 glass Ug= 1.00 ψ = 0.053
	ACOUSTICS	Estimated sound attenuation up to Rw **38 dB.** *Window size: 1.23 m x 1.45 m with acoustic laminated glass of 44.A/cam/44.A*

TEST RESULTS

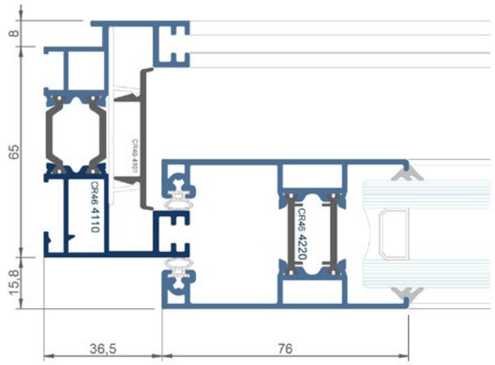
Air permeability
4

Watertightness
7A

Wind resistance
Window: C5 Balcony door: C3

Results of test reports at ENSATEC lab, document no. 250712, and based on Annex of standard EN 14351 - 1:2006+A2:2016

CROSS-SECTION



Windows for ***a better life***

SLIDING / **Thermia® CR46 MAGNA**

Quality seals

Qualanod seal for anodization
License number: 1014

Qualicoat seal for lacquer
License number: 405

Qualideco seal for the imitation wood
License number: ES-0009F

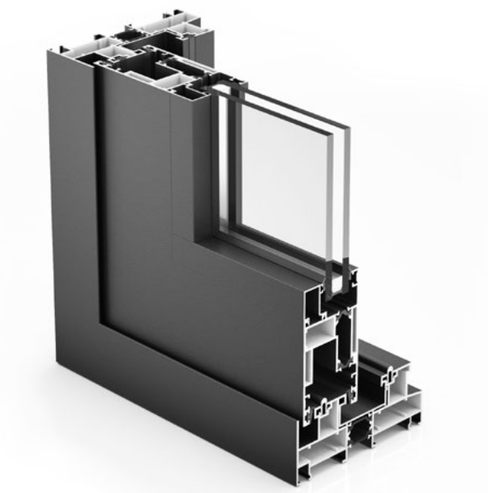
Certification

THERMIA BARCELONA
EN14351-1:2006+A2:2016

Thermia® ER52

Size is not a problem

SERIES FEATURES	
Thermal break	Yes 14 mm - 24 mm
Main frame	125 mm
Main leaf	52 mm
General thickness of the profiles	1.8 mm
Maximum glazing	30 mm
Maximum leaf weight	400 Kg / leaf
Track option	2 or 3 tracks
90° frameless “KISS” closure solution	No
Available profiles	Window / Balcony Door



	THERMAL	Window Uw = **1.84 W/m²k *** * Based on EN 10077-02 4.5x2.8 balcony door glass Ug= 1.1 ψ= 0.053
	ACOUSTICS	Estimated sound attenuation up to Rw **44 dB.** *Window size: 1.23 m x 1.45 m with acoustic laminated glass of 4.4/cam/4.4A*

TEST RESULTS

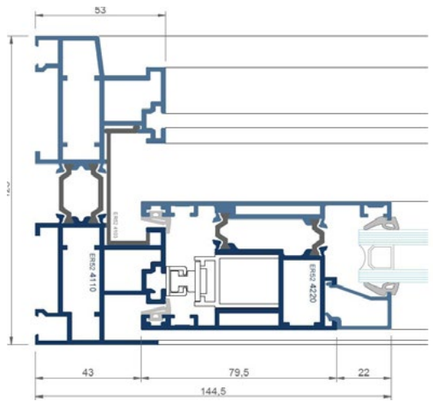
Air permeability
4

Watertightness
7A

Wind resistance
C3

Results of official tests performed on Applus® 10/323000370 - 09/32302504 - 09/32302670 and on the basis of Annex E of standard EN-14351-1:2006

CROSS-SECTION



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License number: ES-0009F

Certification

THERMIA BARCELONA
EN14351-1:2006+A2:2016

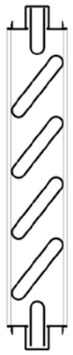
Windows for ***a better life***

Thermia® PM40 SHUTTER

Mediterranean style

Fixed slat shutter

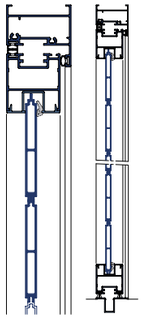
The solution for sun protection and ventilation, protecting the privacy of guests.



Closure with casement shutter and fixed slats.

Blind slat shutter

The solution for achieving a totally opaque and reinforced surface. Allows no light to enter.

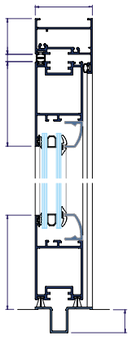


Closure with blind slats, ideal for shutting out light and visibility.

Movable slats shutter

Slat position can be adjusted, allowing the user to position them as desired at any time.

Shutter folding closure with movable slats.



Shutter folding closure with 5 glass panels.

The shutter blind takes its inspiration from the ancient wooden blinds that adorn many buildings in cities and towns throughout the Mediterranean area.

More than a simple decorative facade, it offers ideal protection against the sun's rays as well as home burglaries.
Its extruded aluminum construction is perfect for achieving a stronger, longer-lasting and maintenance-free product.

The huge variety of solutions offered in this series allows you to choose the best option for any construction style.

Shutters, sun protection & security

Windows for ***a better life***

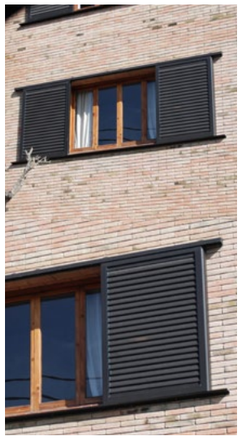
Diseño
Confort
Silencio

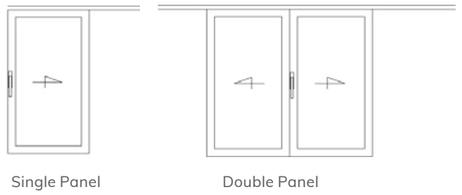
Thermia SHUTTER®

OPENING SYSTEMS

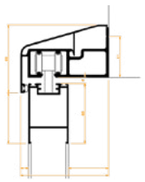
1 *Sliding* shutter system

+ The sliding shutter blind is the perfect solution for sun protection on the facade of a building.
+ Its lateral movement allows for the fabrication of 1, 2, or more panels, with multiple tracks.
+ The wall guide is manufactured with a decorative cover for a more elegant look.
+ The ability to slide all the panels laterally means that the window opening can be left completely unobstructed.

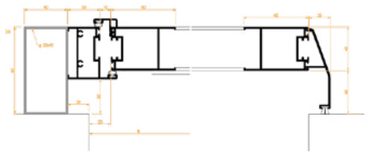




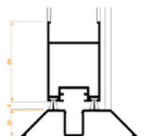
Single Panel Double Panel



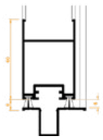
Wall guide with decorative cover



Cross-section 1 panel



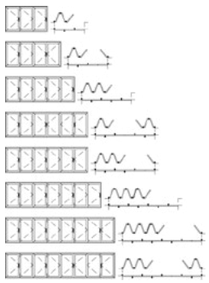
Overlapping lower guide



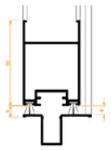
Recessed lower guide

2 *Folding* shutter system

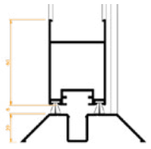
+ The ideal closure for restaurants, bars, pool areas, meeting rooms, etc.
+ Either glass or slats can be mounted in its frames.
+ Multiple combinations (Fig. 1)



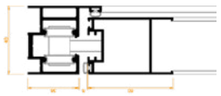
(fig.1)



Recessed lower guide



Overlapping lower guide

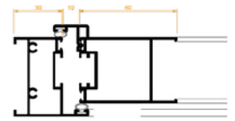


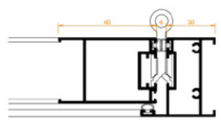
Upper ceiling guide

THERMIABARCELONA.COM

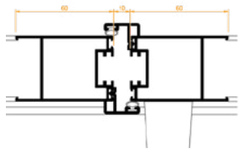
3 *Casement* shutter system

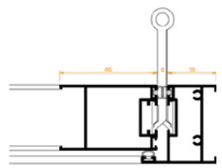
+ The leaf rotates to an open position on a vertical axis, using hinges.
+ Allows for up to 4 leaves to be installed, with different opening solutions.
+ Combinations (Fig. 2)
+ The panels can open to the outside or the inside, as needed.



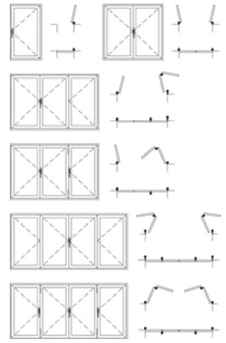


Cross-section 1 leaf

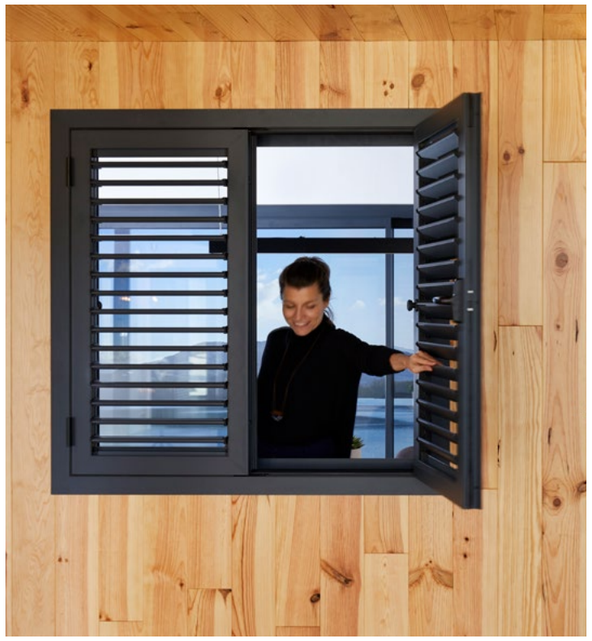




Cross-section double leaf



(fig. 2)



The aluminum **shutter blind** series is ideal for:

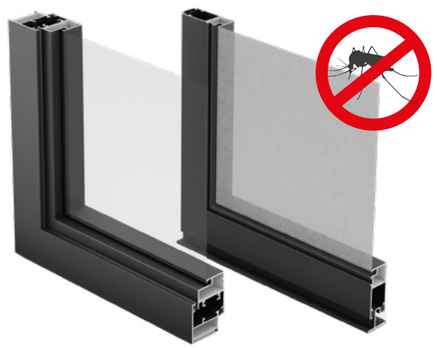
- Decoration of the facade.
- Greater protection against robbery.
- Solar protection in buildings and residences.

Thermia® MQ22 Mosquito Screen

Protection from insects

A versatile system offering effective protection from mosquitos.

+ Casement, sliding, or fixed structure opening systems.
+ Manufactured with 1, 2, 3 or more panels.
+ Manufacture of large-format balcony doors.

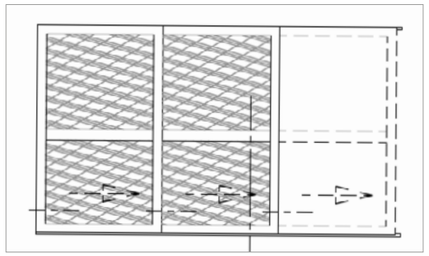


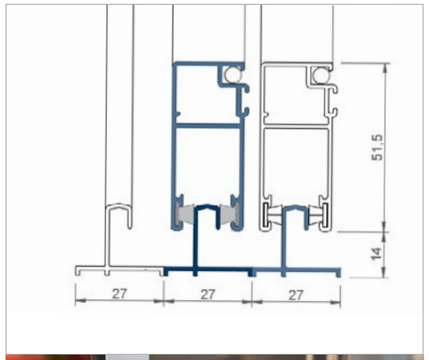
Maximum robustness

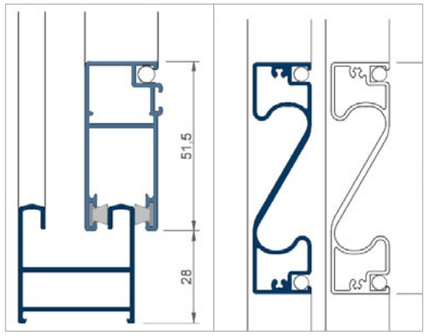
A system of tubular profiles joined by machined corner joints on the profile and robust, high-quality components to ensure a long useful life.

100% Adaptable

This system is fully adaptable to all Thermia series and to any other window on the market.







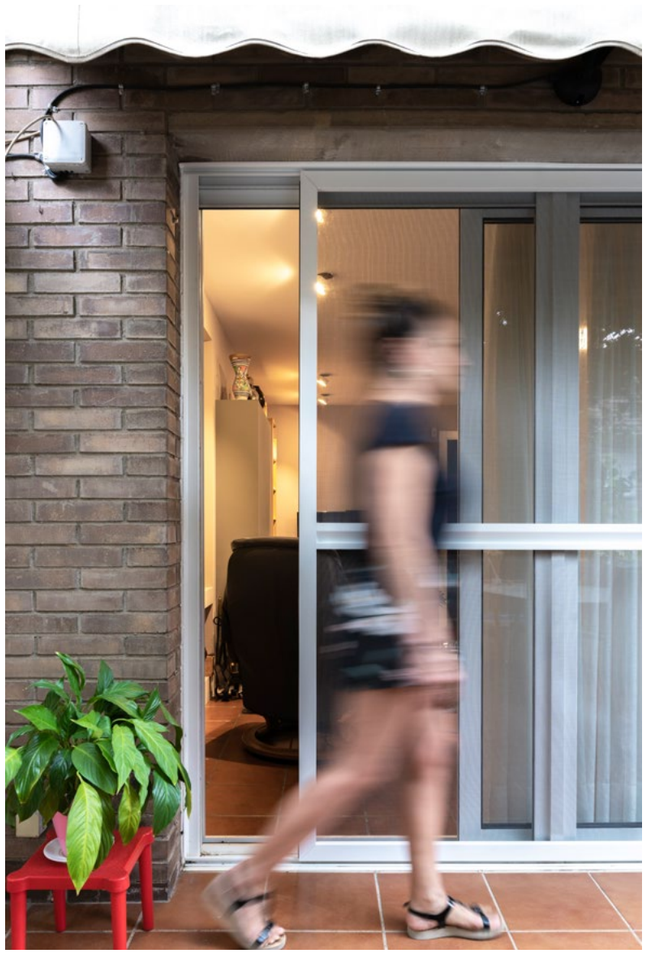
A **unique system** in the market for **large-format balcony doors.**

Easy to manufacture and install

Highly intuitive manufacture and installation. All you need are the same fixtures and accessories used with the Thermia Barcelona® windows series.

Impeccable aesthetics

Unlike most mosquito screen systems sold on the market, Thermia MQ22 uses aluminum corner joints on tubular profiles to create frames and panels joined at 45° (like a window), avoiding flimsy plastic components that deteriorate quickly.

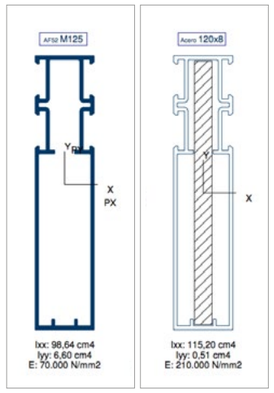


Thermia® AF52 MULLION

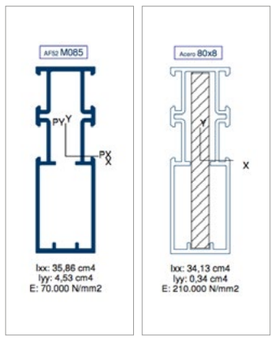
Light structural series

The Thermia® Series AF52M is a light structural system made up of 85 mm and 125 mm mullion, conceived for projects with different reinforcement requirements.

Inertias

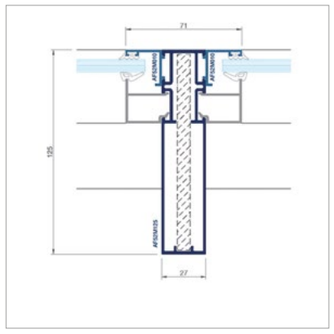


Non-reinforced Reinforced

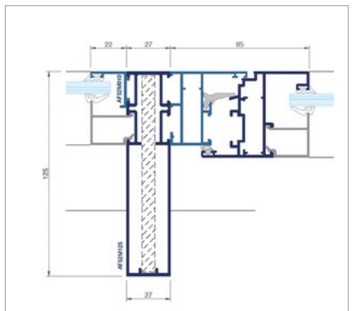


Non-reinforced Reinforced

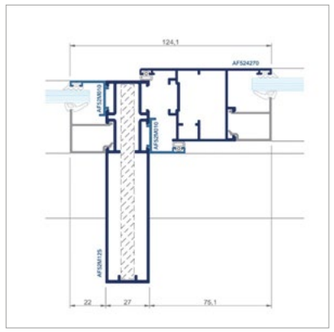
Cross-section



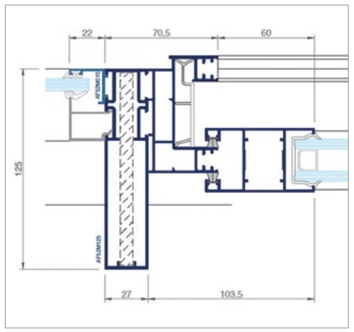
Cross-section fixed structure - fixed structure



Cross-section fixed structure - inward opening



Cross-section fixed structure - outward opening



Cross-section fixed structure - sliding opening

Technical features Thermia® AF52M Mullion

+ Compatible with the Thermia® AF52 series, an upright and crossbeam system measuring 85 mm and 125 mm.
+ Glass panels supported mechanically by the glazing beads of the Thermia system.
+ Wide range of glazing.
+ Ability to mount outward-opening leaf from the AF52 series.
+ Ability to attach any sliding or casement window from the Thermia system to the uprights.
+ Option of internal steel reinforcement to increase strength (ExY module).
+ Many combinations can be achieved by attaching a screw-on blade or glazing bead in multiple positions.

Quality seals

Qualanod seal for anodization
License number: 1014

Qualicoat seal for lacquer
License number: 405

Qualideco seal for the imitation wood
License number: ES-0009F

Certification

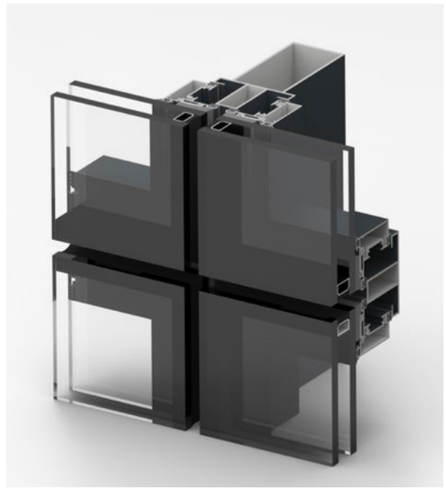
THERMIA BARCELONA
EN14351-1:2006+A2:2016

Thermia® FS45 QUICK

Quick, slender and practical walls

The Thermia® FS45 QUICK series is a system for creating glazed walls using aluminum for beautiful visual tempo.

PRESTACIONES DE LA SERIE	
Thermal break (TB)	No
Mullion	128/168 mm
Transom	65 mm
Leaf	42 mm
General thickness of the profiles	2,1 mm
Maximum leaf weight	130 Kg / leaf
Maximum glazing width	31 mm
Available profiles	Façade



THERMAL

Window Ucw = **1,9 W/m²k***

*Based on EN 10077-02 2700 x 6200 façade glass Ug= 1.1 ψ= 0.053 (results obtained with the bonded insulated glass solution)

TEST RESULTS

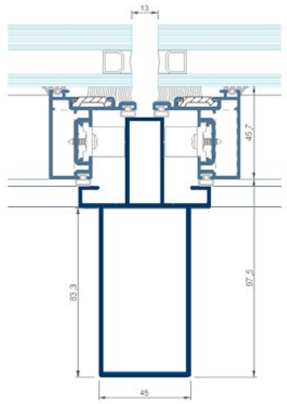
Air permeability
AE1200

Watertightness
R7

Wind resistance
PASS

Results obtained from reports according to ENSATEC with test number 251.064 and on the basis of the standards UNE-EN 13830:2016, UNE-EN 12153:2000, UNE-EN 12155:2000 and UNE-EN 12179:2001

CROSS-SECTION



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Qualicoat seal for lacquer
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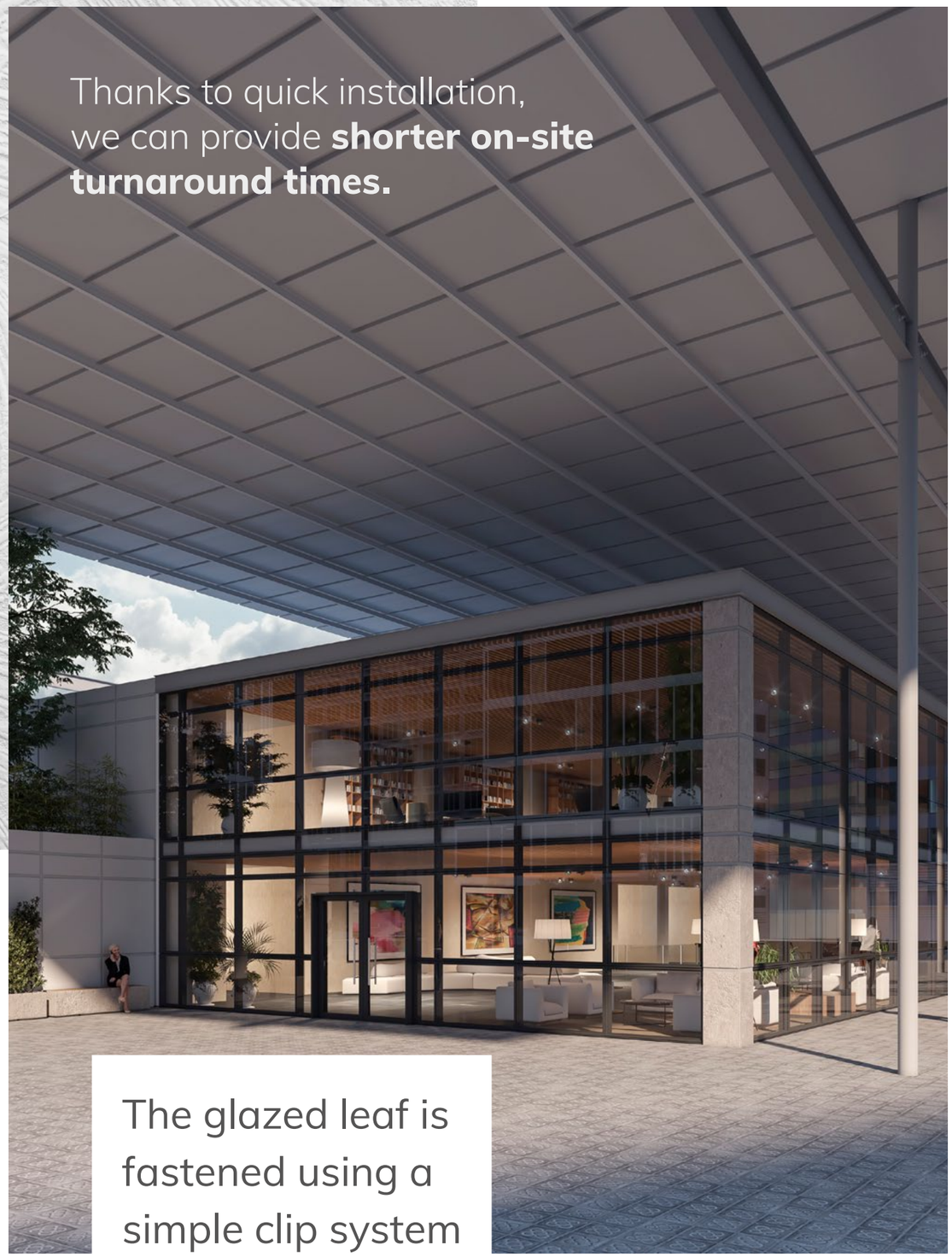
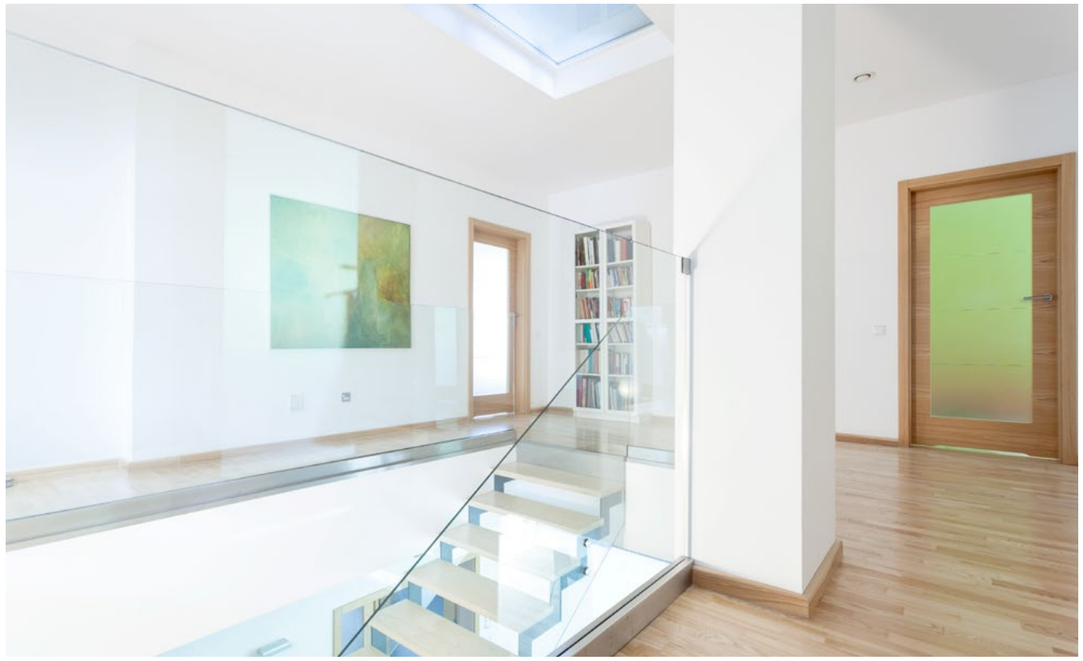
EN14351-1:2006+A2:2016



Thermia® GR48 GLASS RAIL

Minimalist security



Extrusion alloy
- 6060.

State of supply
- T6 - T66.

Dimensions
- Profile depth 48 mm.
- Section view 115 mm.

Construction options
- On the floor.
- On the edge of the floor.
- Recessed.

Glazing
- 6+6 T (Butyrals)
- 8+8 T (Butyrals)
- 10+10 T (Butyrals)

Principal characteristics
- CTE - DB SE-AE approval for all usage categories*.

- Double anti-lift system for glazing.

- Protective seating for glass, with impact resistance and high load-bearing capacity.

- Mechanical adjustment for leveling on the floor.

- Compatible with alignment strings and connecting angles.

- Integrated water drainage, caps and external anodic protection.

Quality seals

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License number: 1014

Qualicoat seal for lacquer
License number: 405

Qualideco seal for the imitation wood
License number: ES-0009F

Certification

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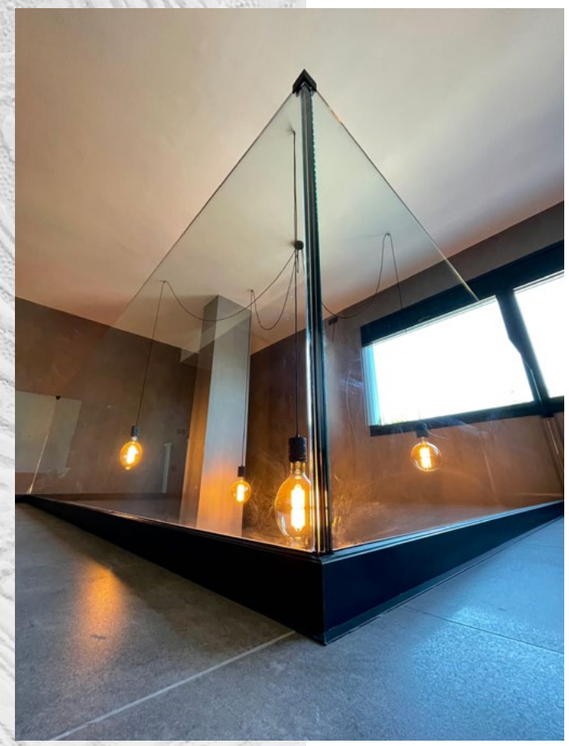
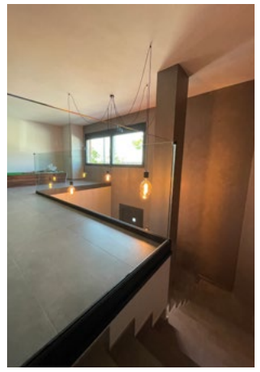
EN14351-1:2006+A2:2016



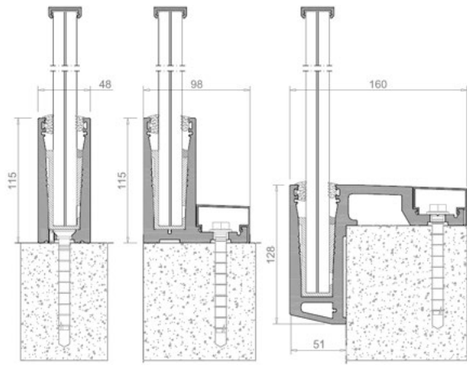


Tests

Usage categories

A1	A2	B	C1	C2
C3	C4	C5	E	F

Security testing:
CTE - DB SE-AE section 3.2.
Actions on handrails and dividing elements.



Performance

Usage categories certified for compliance with standards CTE-DB SE-AE

	6+6 // (T)	8+8 // (T)	10+10 // (T)
E-64300	✓ A,C1y2,D,G (Doc. 243812) (1265mm altura)	✓ C3y4,E,F (Doc. 240388) (1105mm altura) ✓ A,C1y2,D,G (Doc. 243818**) (1265mm altura)	✓ C5 (Doc. 240368) (1105mm altura)
	✓ A,C1y2,D,G (Doc. 243813) (1150mm altura)	✓ C3y4,E,F (Doc. 243808) (1150mm altura) ✓ A,C1y2,D,G (Doc. 243819**) (1150mm altura)	✓ C3y4,E,F (Doc. 243880) (1150mm altura)
E-64301	✓ A,C1y2,D,G (Doc. 243814) (1105mm altura)	✓ C3y4,E,F (Doc. 243810) (1265mm altura) ✓ A,C1y2,D,G (Doc. 243816**) (1265mm altura)	✓ C5 (Doc. 240371) (1105mm altura) ✓ C3y4,E,F (Doc. 243153) (1300mm altura) ✓ A,C1y2,D,G (Doc. 242941**) (1210mm altura)
E-64303	✓ A,C1y2,D,G (Doc. 243815) (1185mm altura)	✓ C3y4,E,F (Doc. 243811) (1185mm altura) ✓ A,C1y2,D,G (Doc. 243817**) (1185mm altura)	✓ C3y4,E,F (Doc. 243776) (1110mm altura)

**vidrio sólo laminado

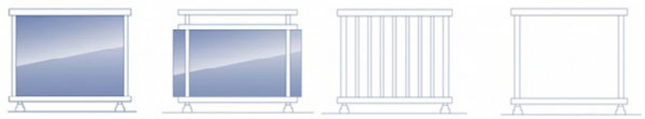
NOTE 1:
Usage category C5 covers cases C3, C4, E and F.
NOTE 2:
Usage category C3 and 4, E, F covers cases A, C1, C2, D and G.

Thermia® RAILING

Safety & elegance

The wide variety of combinations of aluminum profiles and accessories make Thermia Barcelona® railing a safe, versatile and simple construction component that can be decorated with the same technologies used with the windows.

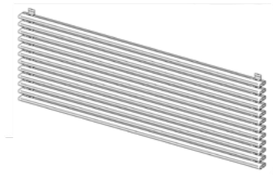
INSTALLATION OPTIONS

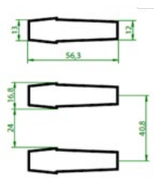


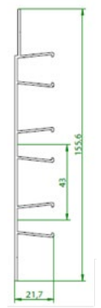
VELAM louver

Sun protection and ventilation

A ventilation and sun protection system for facades, using horizontally fastened slats. The surface can be treated with whatever color fits the architecture as a whole.



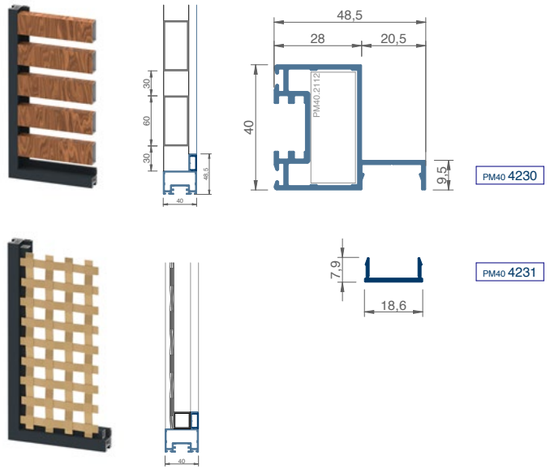




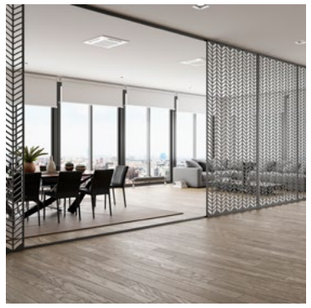
Thermia® PM40 DECOR

Shadows as construction elements

+ Decoration for interior and exterior (interior divider).
+ It is a construction element that lends projects character and distinction.
+ Also can be used for sun control and protection.
+ Durable and functional aluminum system.
+ It shares components with the Thermia MALLORQUINA® shutter system. In other words, **it is manufactured with the same profiles and fittings.**



Applications



Interior design

Interior design

Exterior design

Quality seals

Qualanod seal for anodization
License number: 1014

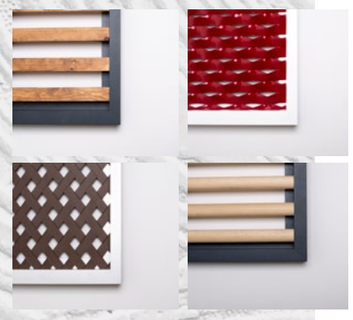
Qualicoat seal for lacquer
License number: 405

Qualideco seal for the imitation wood
License number: ES-0009F

Certification

THERMIA BARCELONA
EN14351-1:2006+A2:2016

Aluminum solution for architectural decorations and sun control.



Thermia® PM40 DECOR can be used to cover the system's leaves using items such as:

+ Square or rectangular tubes of any material (aluminum, wood, stainless steel, PVC, etc.) No greater than 30 cm in width.
+ Expanded metal sheet.
+ Perforated, braided, or free-design sheets.
+ Frameworks.

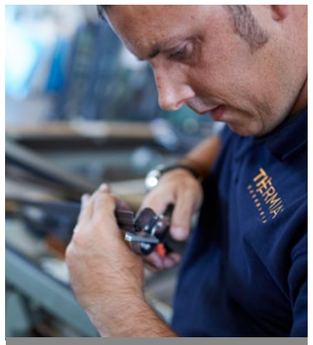
Design
Comfort
Silence

Manufacture Thermia® windows anywhere in the world.

Our Thermia systems distribution division serves window manufacturers, offering the following advantages to aluminum window companies:

Comprehensive service to manufacturers

+ Optimization of inventory of Thermia® ***profiles and accessories.***
+ Specific tools for optimal manufacture of Thermia® ***window.***
+ Specialized carpentry software, customized for your use.
+ Start-up and after-sale service.
+ Comprehensive logistics service and tracking of goods.
+ Ongoing training in the manufacture of Thermia® ***system.***
+ Corporate communication and marketing support.
+ Ongoing technical and business consulting.



Thermia window manufacturers benefit from optimized inventory management, personalized technical support and business consulting for all Thermia® systems.

"We offer a comprehensive, fully customized service"

The Thermia® systems distribution network

+ Marketing to **domestic manufacturers.**
+ Marketing to **international manufacturers.**

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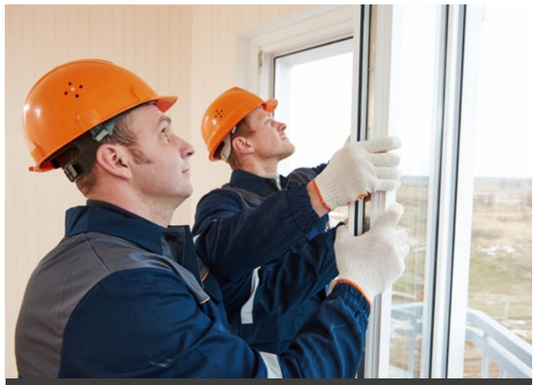
Install Thermia® windows



Comprehensive service to installers:

+ Ongoing technical and business consulting.
+ Fast delivery service.
+ Comprehensive logistics service and tracking of goods.
+ Corporate communication and marketing support.

Our manufactured window division allows window installers to purchase Thermia® doors and windows with whatever technical and aesthetic features they need.

Our personnel, specially trained in manufacturing Thermia® windows, will create whatever closures are requested ***under CE*** regulations.

In order to guarantee quality, Thermia® closures undergo thorough quality control for:

- Functionality of components.
- The airtightness of the system.
- Surface finishes.

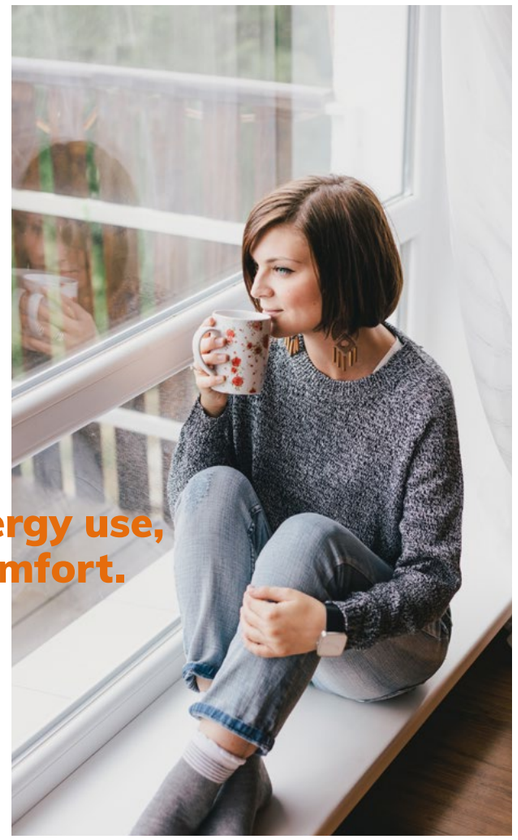
Wholesale Thermia® windows manufacturers:

Serving all companies in the construction, architecture, and remodeling industries:

Factory in Barcelona, *Spain*
Factory in *Peru*
Factory in *Chile*
Factory in *Costa Rica*
Factory in *El Salvador*
Factory in *Colombia*
Factory in *Uruguay*
Factory in *Dominican Republic*
Factory *in Mexico*

Design
Comfort
Silence

Windows that measure up to the latest environmental trends: energy efficiency



Less energy use, more comfort.

The maximum thermal insulation of a building is directly related to the resistance capacity of the elements that are in contact with the outside environment: windows doors, exterior walls and roofs. To achieve optimal energy efficiency, suitable insulating materials must be installed on the building envelope.

As part of the fight against energy waste and worldwide CO2 emissions, European authorities connected to the construction industry have established strict and mandatory directives on energy efficiency, which must be applied to buildings and which are found in the Basic Energy Saving Document (DB HE) as an extension to the current Technical Building Code (CTE).

This new legal framework affects both new constructions and existing buildings in the process of being sold or leased.

A well-insulated house can **save up to 50%** on energy consumption.

The windows are the most vulnerable part of a residence.

At Thermia Barcelona® **thermal insulation is one of the highest priority goals** in the design and manufacture of doors and windows. We know that controlling the temperature and humidity inside homes is key to providing the comfort and well-being that we all want.

How noise pollution affects our health and comfort and how insulated windows can help us

Noise pollution is an affliction that affects everyone who lives in major cities. The noise of cars and motorbikes, helicopters and planes remain excessive and annoying sounds that we continue to hear and which affect our health on a daily basis.

In fact, traffic is the main source of noise pollution. A constant sound that hardly ever stops seems to envelop everywhere we go (work, walking around town, the home, etc.)

If you live near to a road with traffic, sleeping or simply the peace of mind of being at home can be a difficult task and often an irritating one.

Being able to rest at home should be routine, but that is not the case for many millions of people.
And then there is sleep. Getting a good night's sleep can become a nightmare if noise penetrates our entire room. And getting the recommended sleeping hours is vital for our well-being and health.

The WHO (World Health Organization) establishes the maximum levels at 50 dB-60 dB (decibels) and warns that higher exposure can be seriously harmful.

As an example, the noise of a vacuum cleaner is already at 65 dB, a normal conversation is 50 dB and rustling of leaves is 20 dB. It is important to try to lower the decibels in our homes to guarantee a more peaceful house, places to rest and to alleviate tension accumulated during the day. Ultimately, our home is our temple. Shouldn't it be a place of rest and happiness?

Noise-related illnesses include hearing loss, learning problems, strokes, respiratory diseases, stress and irritability or neurosis, hysteria and psychosis.

The WHO (World Health Organization) establishes the **maximum levels at 50 dB-60 dB (decibels)** and warns that higher exposure can be seriously harmful to our health.

Psychological health specialists state that peacefully benefiting from sleep time translates to greater effectiveness on a work and emotional level.

Regardless of the government campaigns to draw up action plans to control and prevent sound contamination in streets and common areas, the fact is that people currently continue to endure pollution damage on a daily basis.

It is not possible to halt the consequences of these pollution indices in public areas in the short term, but we can in our homes.
If we can insulate our home against the constant outside noise, we will be able to improve the quality of our lives, increase our comfort and, above all, ensure that our health is protected.

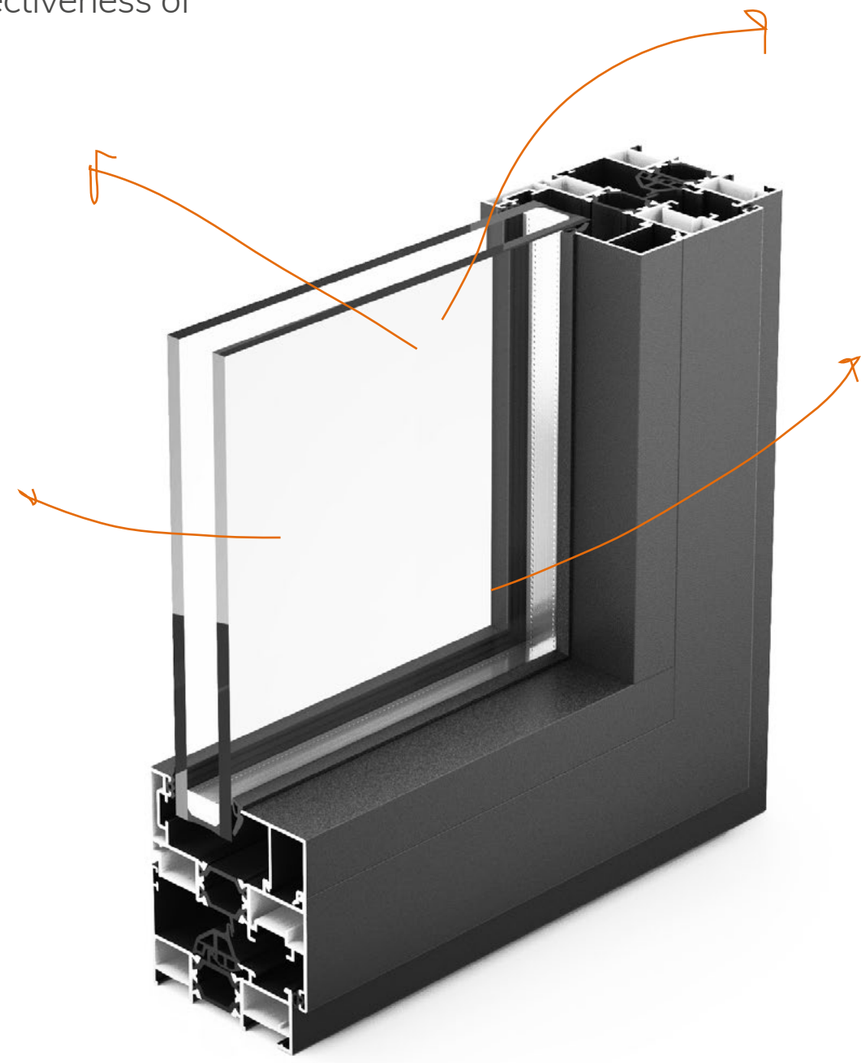
One of the best options for living with peace and quiet at home is insulated (thermo-acoustic) windows that protect on the one hand against outside noise, and on the other against the cold and heat depending on the time of year.

The importance of glass in acoustic attenuation

Studying the phonic performance of a window, we can find the factors that determine the effectiveness of acoustic attenuation:

Tempered or laminated glass (not acoustic) does not alter the acoustic properties.
However, acoustic laminated glass attenuates more than the same thickness of float glass.

The closures must guarantee the maximum possible air-tightness
Any minor crack in the closure represents an air inlet and, therefore, noise.

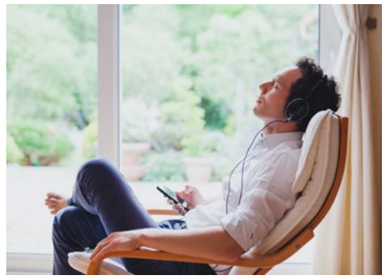


Different thicknesses of chamber glass attenuate more *than chamber glass with the same thickness.*

The thicker the glass, the greater the attenuation.
It is advisable to fit thicker glass, keeping in mind its weight (2.5 kg per m2 and mm of thickness).

Composition		Rw	C	Ctr
Monolithic	3	28	-1	-4
	4	29	-1	-2
	6	31	-1	-2
	10	34	-1	-2
Laminated	33.1	31	0	-1
	44.1	34	0	-1
	66.1	37	0	-2
Acoustic laminated	33SC	33	-1	-2
	44SC	31	-1	-3
	66SC	35	-1	-2
Monolithic	4/12/6	33	-1	-3
	5/12/5	31	-1	-4
	6/12/8	35	-1	-3
Laminated monolithic	5/12/33	36	-1	-5
	5/12/44	36	-1	-4
	10/12/66	39	-1	-3
Acoustic laminated monolithic	6/12/44SC	39	-1	-5
	6/12/66SC	41	-1	-3
Acoustic monolithic acoustic laminated	44SC/12/66SC	45	-1	-5

Glass composition and its acoustic attenuation



The ***solution*** at home: ***installing airtight windows*** that insulate against the outdoors.

Thermia Barcelona® thermo-acoustic windows and screens offer high acoustic and thermal insulation in homes. They feature high airtightness, ideal for combating noise issues, dust and changes in temperature.

ACOUSTIC NOISE TABLE

100 dB Ambulance siren.
90 dB Noisy road traffic.
80 dB Noisy street.
70 dB Quiet road traffic.
60 dB Restaurant. Store.
50 dB Quiet street.
40 dB Living room.
30 dB Bedroom. Quiet refrigerator.
20 dB Quiet rustling of tree leaves.
10 dB Quiet breathing.

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Series Abatibles

Ed. 21.05

serie AF52

AF524110 □■◜ AF524119 □■ AF524113 □■ AF524150 □■◜ AF524220 □■◜ AF524223 □■◜ AF524225 □■ AF524253 □■◜ AF524263 □■◜ AF524270 □ AF524241 □■ AF524310 □■ AF524320 □■

AF52M125 AF52M085 AF52M010

AR524354 □▨

serie AR52

AR524110 □▨◜ AR524119 □ AR524278 □■▨ AR524150 □▨◜ AR524222 □▨◜ AR524223 □▨◜ AR524225 □ AR524253 □▨◜ AR524263 □▨◜ AR524270 □▨ AR524241 □▨ AR524310 □▨ AR524320 □▨ AR524326 □

serie AF35

AF354110 □ AF354518 □

AF354270 □ AF354210 □

AF354278 □ AF354310 □

serie AR62

AR624110 □■▨ AR624119 □■ AR624278 □■▨ AR624150 □■▨ AR624222 □■▨ AR624223 □■▨ AR624253 □■▨ AR624263 □■▨ AR624241 □■▨ AR624310 □■▨ AR624320 □■▨ AR624326 □ AR624354 □■▨

serie AR78+

AR784115 □■▨▧◜ AR784111 □■▨◜ AR784278 □▨ AR784155 □■◜ AR784220 □■ AR784223 □■▩▨ AR784253 □■▨▧◜ AR784263 □■▩▧◜ AR784246 □■▩▨◜ AR784315 □▩▨ AR784325 □■▩▨ AR784165 □■▩▨◜

serie OC78 LUMIA

OC784110 □■▩▧◜ OC784220 □■▩◜ OC784222 □■▩

OC784500 OC784240 □■▩

OC784314 □ OC784315 □■▩▧ OC784325 □■▩▧ OC784533 □■▩

junquillos

A0004539 □■ A0004535 □■ A0004532 □

A0004533 □ A0004531 □■

A0004527 □■◜

A0004521 □■◜

A0004519 □ A0004517 □■◜ A0004518 □

A0004512 □ A0004515 □■◜ A0004516 □

A0004500 esp curva □ A0004511 □■ A0004509 □

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Series corredera

Ed. 21.05

serie CF26

CF264111 □ CF264120 □ CF264130 □ CF264200 □ CF224250 □ CF264210 □ CF264212 □ A0004540 □ CF264952 □■◜

serie CF31

CF314110 □■ CF314121 □■ CF314130 □■ CF314201 □■ CF314205 □■ CF314250 □■ CF314210 □■ CF314212 □■ CF314251 CF314214 A0004564 CF314952 □■◜

serie CR31

CR314110 □■▧ CR314121 □■ CR314130 □■ CR314100 PVC CR314203 □■ CR314204 CR314210 □■▧ CR314211 □■▧ AR004544 CR314958 □■◜ CR314962 □■▧◜

serie CF22

CF224110 □ CF224202 □ AF354110 □ CF224212 □ CF224250 □

serie CF40

CF404110 □ C0404130 □■▨ CF404244 □ CF404242 □ CF404243 CF404241 CF404246 CF404247 C0404250 □■ C0404251 □ CF404214 □ C0404109 □■ C0404182 □ C0404184 □ C0404180 □ CF264952 □■◜

serie CR40

CR404110 □■▨▧ C0404100 A0004105 C0404107 □■ C0404106 PVC CR404244 □■▨▧ CR404242 □■▨▧ CR404254 □▧ C0404201 CR404246 □■▨ CR404247 □■▨

CR404140 □ A0004041 CR404042 CR404240 □

AR784165 □■▧◜ CR404165 □■▧◜

serie CR46 MAGNA

CR464110 □■▧ CR464100 CR464101 A0004105 PVC CR464130 □■ CR464206 □■ CR464203 PVC CR464205 PVC CR464220 □■▧ CR464210 □■ CR464508 □■ CR464222 CR464202 CR464201 □ CR464254 CR464251 CR463749 PVC CR464250 □ CR464214 CR464109 □ AR784165 □■▧◜ CR404165 □■▧◜

serie ER52

ER524110 □▧ ER524130 * ER524100 ER524103 PVC ER524120 ER524220 □▧ ER524201 PVC ER524200 ER524500 ER524140 AR624150 □■▧ ER524141 ER524250

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Series Mallorquina, Barandilla, Mosquitero y Complementos

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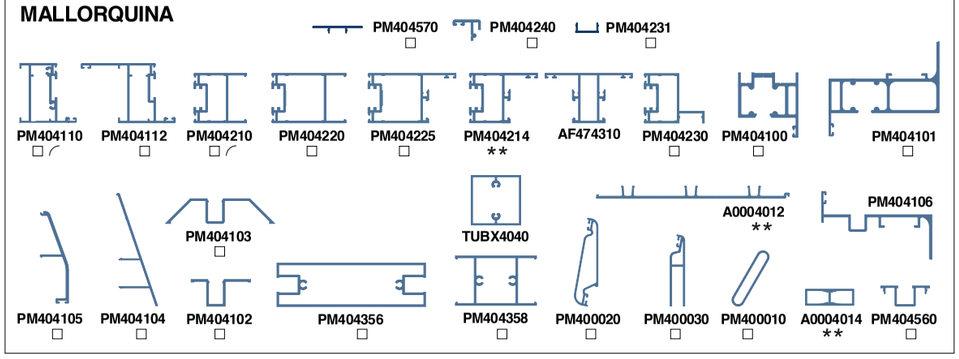
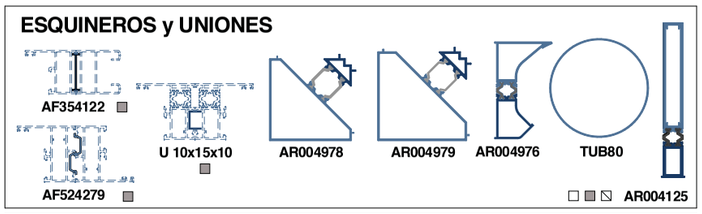
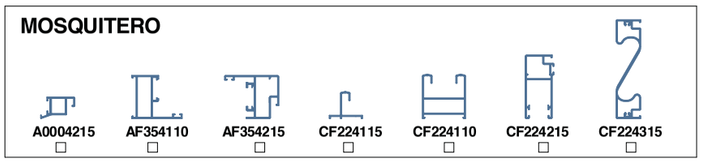
MALLORQUINA



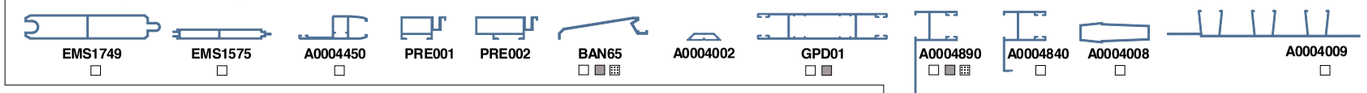
ESQUINEROS y UNIONES



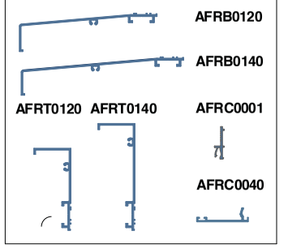
MOSQUITERO



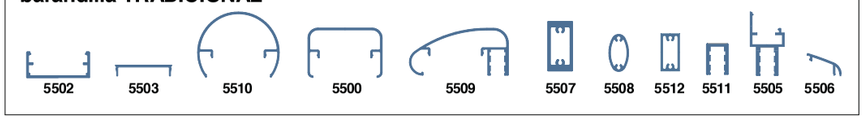
PERSIANA, POSTIGO y OTROS



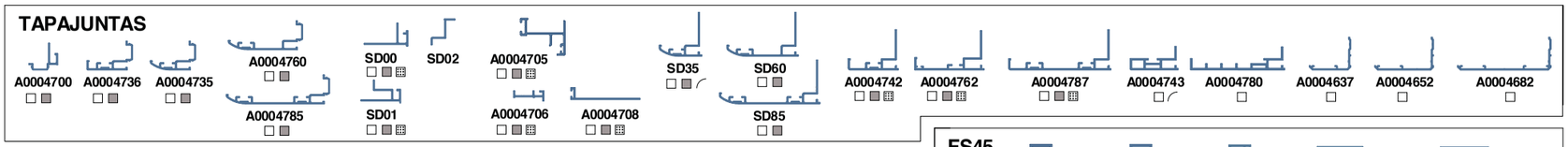
Complementos France



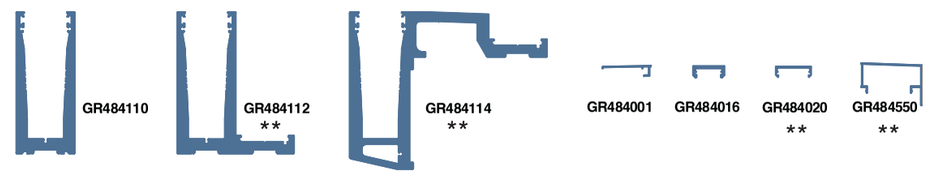
barandilla TRADICIONAL



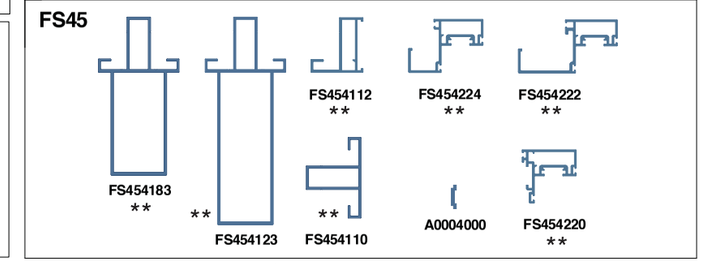
TAPAJUNTAS



barandilla GLASS RAIL



FS45



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Series Abatibles canal 16

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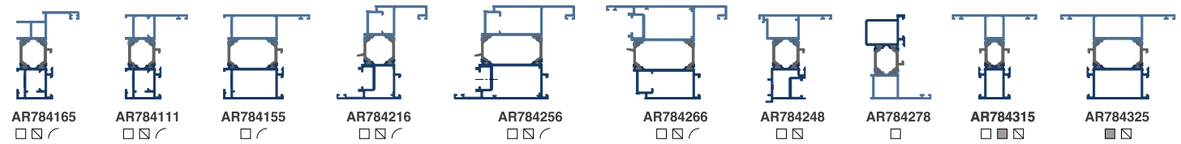
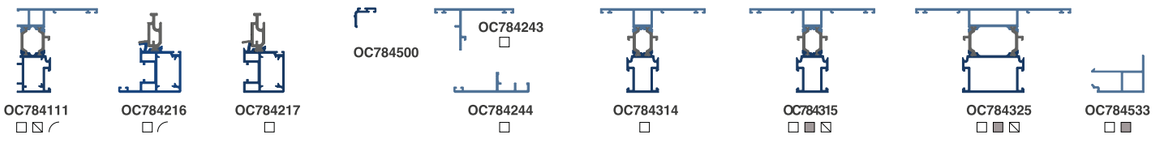
serie AR78+ C16



serie OC78+ C16



junquillos

Leyenda □ STOCK BLANCO ■ STOCK PLATA ◜ APTO CURVA ▧ STOCK DISPONIBLE BICOLOR * BRUTO BAJO PEDIDO ** BRUTO BAJO PEDIDO CON MÍNIMO (consultar numero de barras).

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Technical charts for Thermia® systems

Thermia® sliding series

Series	RPT Series	mm Frame / leaf POLYAMIDE	Uf	Uw WINDOW* up to	mm MAIN FRAME	mm MAIN LEAF	mm PROFILE THICKNESS	mm MAXIMUM GLASS
Thermia® ER52	Yes	24/14	4.385	1.84*	125	52	1.8	30
Thermia® CR46 MAGNA	Yes	24/25	3.162	1.65**	65	46	1.6 / 1.8	34
Thermia® CR40 VERSIA	Yes	24	3.3	1.60*	65	40	1.4 / 1.6	28
Thermia® CF40 VERSIA	No	No	-	-	65	40	1.4 / 1.6	28
Thermia® CR31	Yes	14/25	4.1	1.80*	75	31	1.5	24
Thermia® CF31	No	No	-	-	75	31	1.5	11 / 21
Thermia® CF26	No	No	-	-	65	26	1.3	11 / 17
Thermia® CF22	No	No	-	-	35	22	1.2	8 / 15

**Uw: DB HE 1.6 x 2.1 balcony door glass Ug = 1.1 W/m2K Thermal transmittance coefficient of the profiles (Uf= chart value), EN, 10077-2*
***UW: DB HE 2.8 x 2.25 balcony door glass Ug = 1.0 W/m2K Thermal transmittance coefficient of the profiles (Uf= chart value), EN, 10077-2*

SERIES	MAXIMUM GLASS WEIGHT (kg)	3 TRACK OPTION	4 OR MORE TRACKS	THICKNESS PROFILES	COLORS IN STOCK
Thermia® ER52	350	Yes	No	Window / Balcony Door	Raw / Silver / White
Thermia® CR46 MAGNA	300	Yes	Yes	Window / Balcony Door	Raw / Silver / White
Thermia® CR40 VERSIA	160 / 200	Yes	Yes	Window / Balcony Door	Raw / Silver / White
Thermia® CF40 VERSIA	160 / 200	Yes	Yes	Window / Balcony Door	Raw / Silver / White
Thermia® CR31	160	Yes	Yes	Window / Balcony Door	Raw / Silver / White
Thermia® CF31	160	Yes	Yes	Window / Balcony Door	Raw / Silver / White
Thermia® CF26	120	Yes	Yes	Window / Balcony Door	Raw / Silver / White
Thermia® CF22	80	No	No	Window	Raw / White

Technical charts for Thermia® systems

Thermia® casement series

SERIES	RPT Series	mm POLYAMIDE Frame / leaf	Uf	Uw WINDOW* up to	mm MAIN FRAME	mm MAIN LEAF	mm PROFILE THICKNESS
Thermia® AR78+ CE	Yes	24	2.50	1.07**	70	78	1.5-1.8
Thermia® OC78 LUMIA	YES	24	2.65	1.29*	70	78	1.5 - 1.8
Thermia® AR62 CE	Yes	24	2.58	1.46*	55	62	1.5-1.8
Thermia® AR5 CE	Yes	14	3.139	1.56*	45	52	1.5-1.8
Thermia® AF52 CE	No	No	-	-	45	52	1.5-1.8
Thermia® AF35	No	No	-	-	35	35	1.2

**Uw: DB HE 1.6 x 2.1 balcony door glass Ug = 1.1 W/m2K Thermal transmittance coefficient of the profiles (Uf= chart value), EN, 10077-2*
***Glass Ug=0.7 W/m2K*
'+ 20 Kg door hinges

SERIES	MAXIMUM GLASS (mm)	MAXIMUM GLASS WEIGHT WITH CASEMENT FOLDABLE SYSTEM (kg)	MAXIMUM GLASS WEIGHT WITH TILT AND TURN SYSTEM (kg)	THICKNESS PROFILES	COLORS IN STOCK
Thermia® AR78+ CE	49	90	160	Window / Door	Raw / Silver / White
Thermia® OC78 LUMIA	31	90	160	Window	Raw / Silver / White
Thermia® AR62 CE	37	90	160	Window / Door	Raw / Silver / White
Thermia® AR52 CE	27	90	160	Window / Door	Raw / Silver
Thermia® AF52 CE	27	90	160	Window / Door	Raw / Silver / White
Thermia® AF35	8 / 21	90	160	Window	Raw / Silver

SERIES	RPT Series	mm POLYAMIDE Frame / leaf	Uf	Uw WINDOW* up to	mm MAIN FRAME	mm MAIN LEAF	mm PROFILE THICKNESS
Thermia® AR78+ C16	Yes	24	2.9	1.17***	70	78	1.5-1.8
Thermia® OC78+ C16	Yes	24	2.68	1.47*	70	66	1.5

SERIES	MAXIMUM GLASS (mm)	MAXIMUM GLASS WEIGHT WITH CASEMENT FOLDABLE SYSTEM (kg)	MAXIMUM GLASS WEIGHT WITH TILT AND TURN SYSTEM (kg)	THICKNESS PROFILES	COLORS IN STOCK
Thermia® AR78+ C16	49	90 / 130 (door)	100	Window / Door	Raw / Silver / White
Thermia® OC78+ C16	28	90	100	Window	Raw / Silver / White

**Uw: DB HE1 1.6 x 2.1 balcony door glass Ug = 1.1 W/m2K, Thermal transmittance coefficient of the profiles Uf=2.68 W/m2K*
****UW: DB HE1 1.6 x 2.2 balcony door glass Ug = 0.7 W/m2K, Thermal transmittance coefficient of the profiles with Politech NA33 Uf=2.94 W/m2K*

Design
Comfort
Silence

Acoustic properties of glazed windows

Simplified calculation according to standard EN-UNE 14351-1:2006
Valid according to the Technical Building Code Catalog of Construction Components

Annotations:

- C — Spectral adaptation term of the sound reduction index for incident pink noise, in dB.
- C_{tr} — Spectral adaptation term of the sound reduction index for automobile noise, in dB.
- R_A — Global sound reduction index, A weighted, in dBA.
- $R_{A,tr}$ — Global sound reduction index, A weighted, for automobile noise, in dBA.
- R_w — Global sound reduction index, in dB.

ACOUSTIC INSULATION VALUES FOR WINDOWS with a surface area of up to 2.7 m²

Composition		THERMIA® Series									
		CF31 / CF40 / CR31 / CR40 / CR46M / ER52					AF52 / AR52 / AR62 / AR78+/ OC78+				
Type	Thickness (mm)	R_w (dB)	C (dB)	C_{tr} (dB)	R_A (dBA)	$R_{A,tr}$ (dBA)	R_w (dB)	C (dB)	C_{tr} (dB)	R_A (dBA)	$R_{A,tr}$ (dBA)
Plain glass	6	28	-1	-1	27	27	31	-2	-3	29	28
	8	29	-1	-2	28	27	32	-2	-3	30	29
	10	29	-1	-2	28	27	33	-2	-3	31	30
	12	29	-1	-1	28	28	34	0	-2	34	32
Laminated glass (0.36 butyral)	3+3										
	4+4										
	6+6	29	-1	-2	28	27	32	-1	-3	31	29
	8+8	29	-1	-2	28	27	33	-1	-3	32	30
	10+10	29	-1	-2	28	27	34	-1	-3	33	31
Insulated glass units (air chamber measuring 6 mm to 20 mm)	4/(6..20)/4	27	-1	-2	26	25	32	-1	-5	31	27
	4/(6..20)/6	29	-1	-2	28	27	34	-1	-4	33	30
	4/(6..20)/8	29	-1	-2	28	27	34	-1	-4	33	30
	4/(6..20)/10	29	-1	-2	28	27	35	-1	-4	34	31
	6/(6..20)/6	28	-1	-2	27	26	33	-1	-4	32	29
	6/(6..20)/8	29	-1	-2	28	27	35	-1	-5	34	30
	6/(6..20)/10	29	-1	-1	28	28	35	-1	-3	34	32
Insulated glass with laminated panels	6/(6..20)/6+6	29	-1	-2	28	27	34	-1	-4	33	30
	6/(6..20)/10+10	-	-	-	-	-	36	-1	-4	35	32

Correction by side:	Total surface area of the windows	Correction factor to be applied to R_A and R_{Atr}
	2.7 m² < A ≤ 3.6 m²	-1 dB
	3.6 m² < A ≤ 4.6 m²	-2 dB
	4.6 m² < A	-3 dB

International Distribution

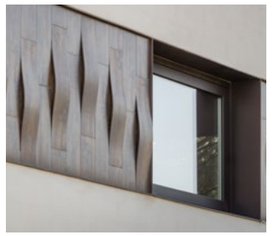
Latin America
- Peru
- Ecuador
- Chile
- Colombia
- El Salvador
- Panama
- Costa Rica
- Dominican Republic
- Mexico

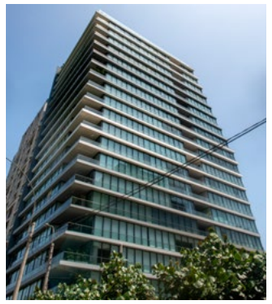
Europe
- Spain
- France

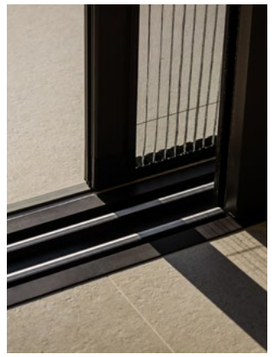
Africa
- Algeria
- Ghana

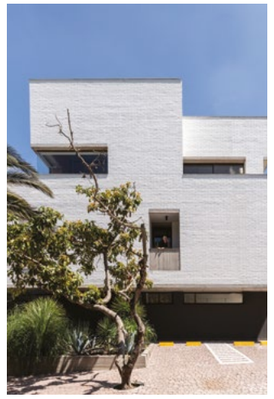
Asia
- India

THERMIA® BARCELONA

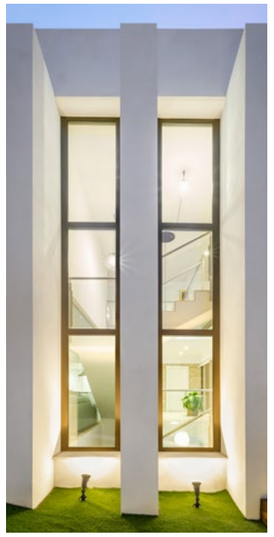


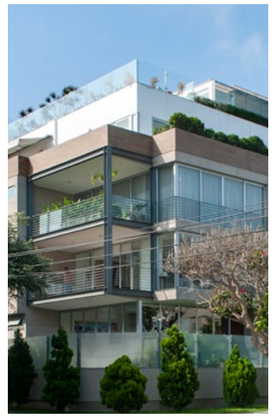


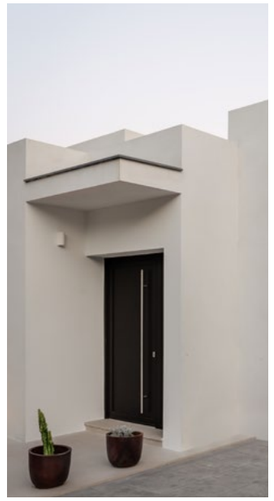


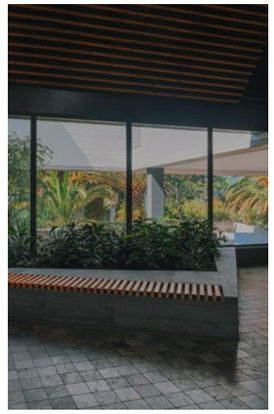


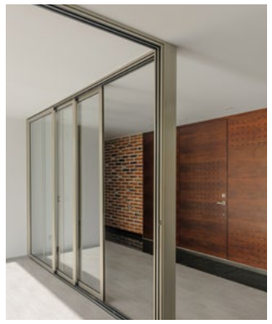
We are proud that our windows have played a part in improving the comfort and quality of life in all these homes.











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