

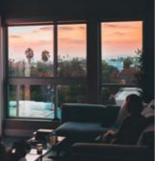


Windows for a **better life**

Ъ































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

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Windows for a b

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Appendix

Summary of profiles Technical chart of Th Acoustic properties of International distribu



"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





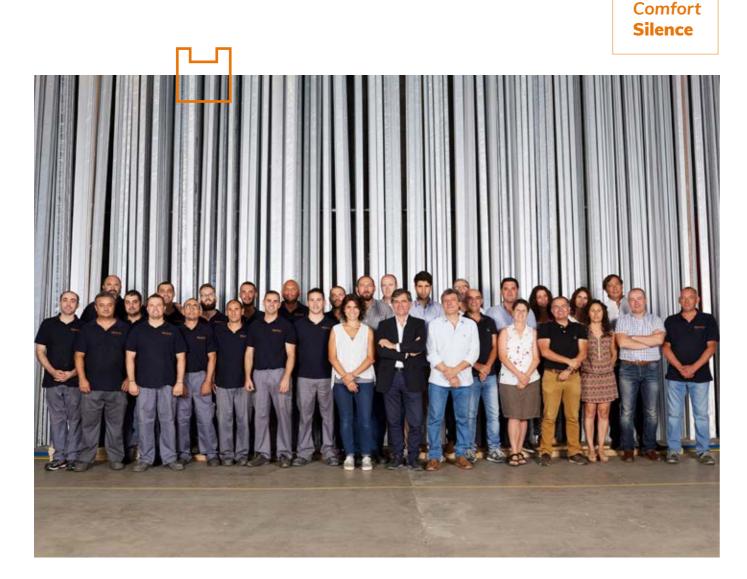
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"Our products are the result of **exhaustive study and design**, with the aim of offering the client **much more than a window.**"



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



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.

THE THERMIABARCELONA.COM

Design



What does a window represent for Thermia Barcelona?

"We think of a window as something more than a structure placed into a wall.

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

For Thermia[®], a window is nothing less than an oppor-

Committed, professional, leading-edge, technicallyminded. involved. transparent, curious, empathic, optimistic, sensitive. That is the approach that we take here at Thermia Barcelona

One of our goals at Thermia Barcelona is to ensure that you as a client can work with our product with full confidence in the quality, design and comfort that the market demands; you need to feel that you partnered with a responsible, professional team that will guide you and support you at all times.

tunity 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."



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.





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 quality seal for lacquer, QUALIDECO for imitation wood lacquer, and QUALANOD for anodization.

QUALITY SEALS



License number: 1014 License License number: ES-0009F

Gensatec (C) (C) (C) (C



CERTIFICATION

DIMAC SL 2018 ACCESSORY EN 1435-1: 2006 THERMIA BARCELONA SERIES

All Thermia Barcelona® Systems are tested in laboratories approved to conduct air permeability, water tightness and wind resistance tests.

European Union



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

In-house Technical Department



All Thermia® European window systems are developed in-house.

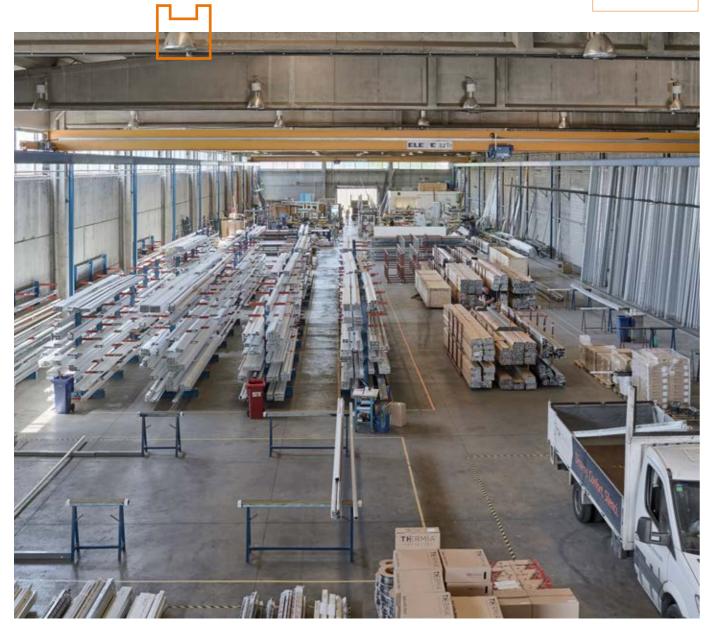
1. Better control and speed in implementing system improvements.

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

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







Facilities. Where Thermia[®] windows are designed.

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.









Most visits to our showroom in Barcelona end in a sale.

Thermia Barcelona's showroom. A powerful selling tool for our clients.

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.

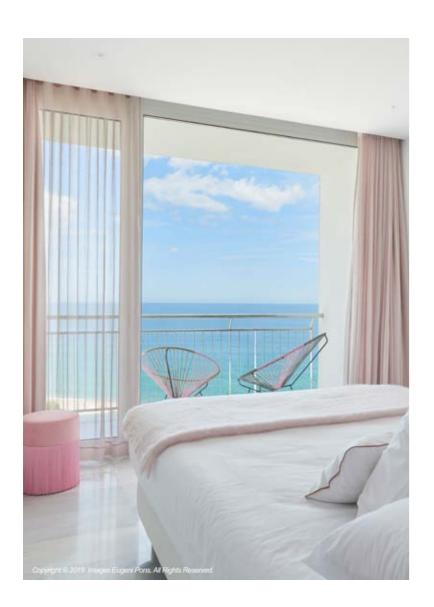




More than 7000m² of space to serve our clients.

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

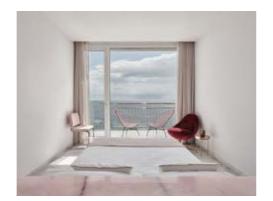




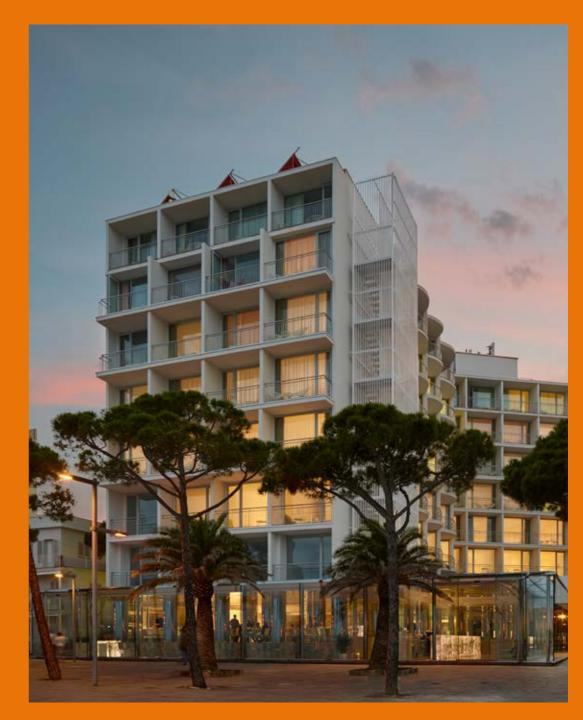




Thermia[®] windows around the world. **Top projects.**



Windows for a better life



Hotel Aromar Architect: XS arquitectes Location: Costa Brava – Catalonia, Spain. © Images Eugeni Pons. All rights reserved



Design Comfort **Silence**









Casa RDP



Casa RDP

Location: Quito. Ecuador. Winner of the Quito Architecture Biennial BAQ2016 Finalist in the Latin American Architecture Biennial 2017 Architects: Daniel Moreno Flores / Sebastián Calero



Casa RDP





guest rooms, leading to a higher rate of satisfaction.

Quieter, better insulated

Hotels.

Design

Comfort Silence

WYNDHAM Hotel







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Windows for a better life
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Wyndham Hotel Quito International Airport Location: Mariscal Sucre Airport - Quito, Ecuador. Architect: Grupo Pronobis.

WYNDHAM Hotel









Klimt Building

Thermia[®] windows in Spain, France, Algeria, Peru, Colombia, Ecuador, Chile, Uruguay, El Salvador, Panamá, Dominican Republic, India.



Klimt Building



Klimt Building



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

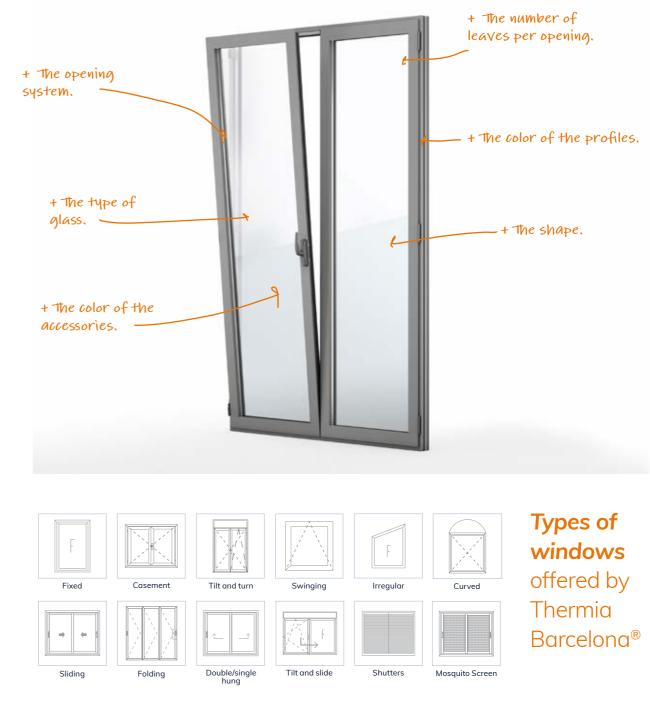






A Thermia® window for everyone

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





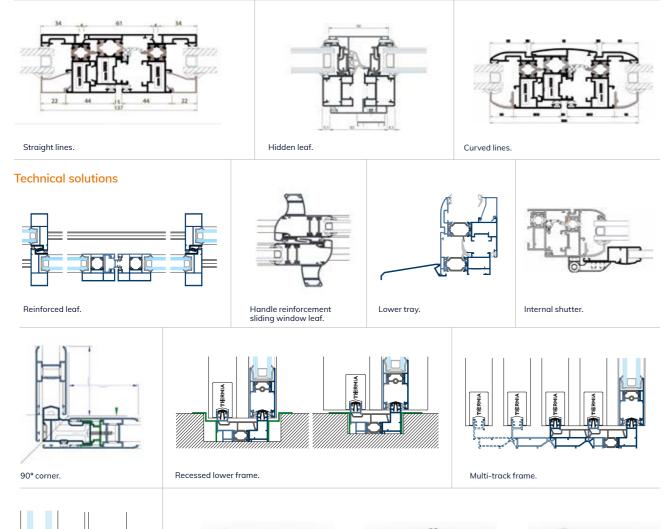
Esthetic solutions

Technical solutions. Windows for all types of projects.



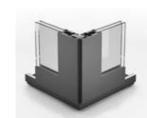
Design

Comfort Silence





combination for hotels.







'Pocket'

Accessories. Getting the details right.

ISEO MASTER

G-U AXALVS

Bearings

Height-adjustable, nylon 6/6 + 30% fiberglass, turned and with single or double ball or needle wheels, depending on the weight borne (40, 80, 160, 200 kg.) F212 stainless steel cap and wheels, and anticorrosive coating.

Folding handles

Manufactured under the ISO 9001 seal. Tested for 25,000 cycles with cast aluminum and AISO 430F stainless steel.

Sliding window multi-point closure

Manufactured under the ISO 9001 seal. Tested for 25,000 cycles.

CE tilt and turn

Manufactured under the ISO 9001 seal. Tested for 25,000 cycles up to 130 kg. Per leaf. Made of high-density zamac with an anti-corrosion treatment and AISI 430F stainless steel

Height and width adjustable +/- 1mm.

CE Projecting stay hinges

Manufactured under the ISO 9001 seal. Made of AISI 430 stainless steel. Tested for 25,000 cycles.

CE hinges

Manufactured under the ISO 9001 seal. Tested for 200,000 cycles. Capable of bearing loads of up to 70 kg. (2 hinges) and 90 kg. (3 hinges). Made of extruded aluminum and AISI 430F stainless steel.

CE door hinges

Manufactured under the ISO 9001 seal. Tested for 200,000 cycles. Capable of bearing loads of up to 90 kg. (2 hinges) and 110 kg. (3 hinges). Made of extruded aluminum and stainless steel.

Sealing and glazing gaskets

for years.

Weatherstripping

Manufactured with double or triple stitching. Provided with an integrated water-repellent textile film that acts as a barrier against the passage of air, water, and noise, allowing the panes to slide silently.

Corner joints

window is most exposed to water.

Surface treatments

Based on testing in neutral salt-spray chamber as per standard EN 1670: 2007 with classes 4 and 5.

Single track and fixed. The ideal 'Kiss 90°' (front view)

- 'Kiss 90°' (inside view)





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.

All made of top-quality EPDM rubber to maintain their properties over time and without deterioration caused by heat and cold, providing windows with a hermetic seal

Made of cast aluminum and held with stainless steel screws, assuring protection against rust at the joints, where there the

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

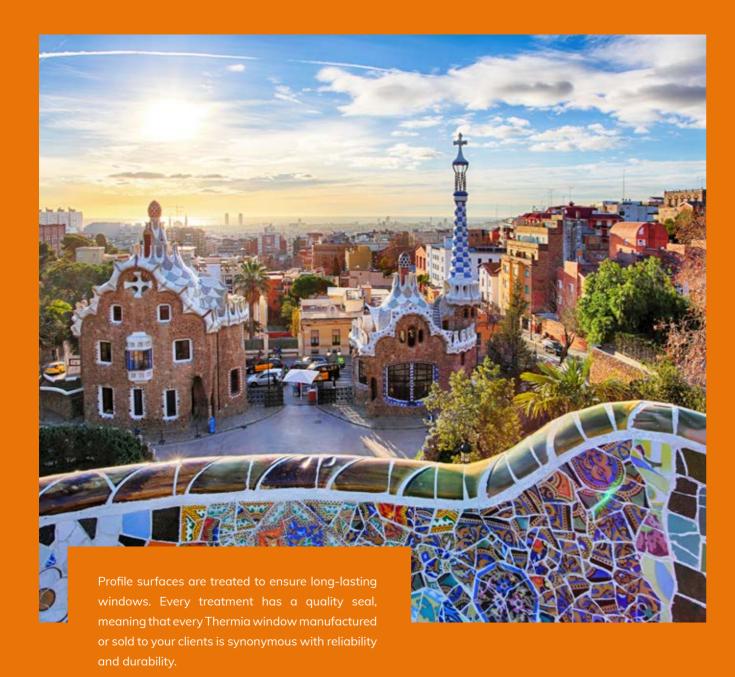


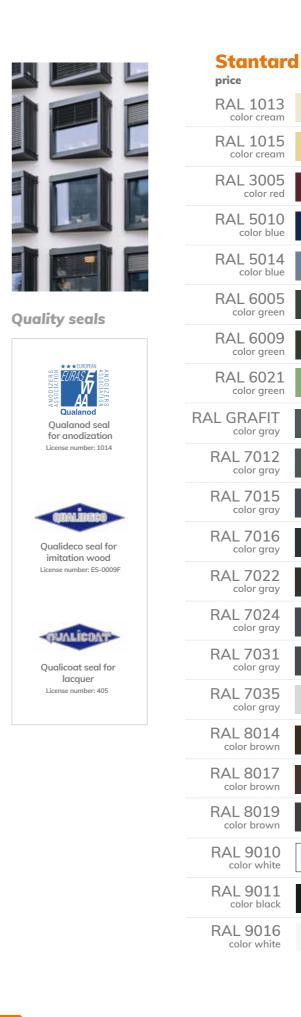
RINA 💮

RINA Θ

Windows with a style of their own.

At Thermia Barcelona[®], we understand the importance of design in the architectural world, and that's 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.





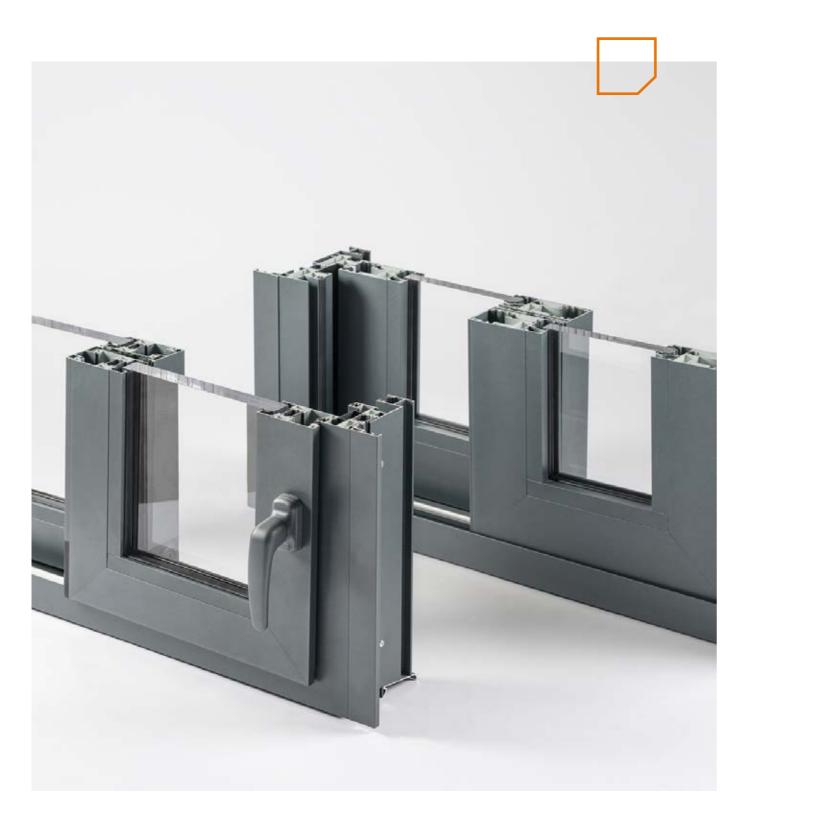
Special price		Glass	Matte	Tovine
Cobre óxido		×	×	~
Noir 100 sable		×	×	~
Noir 200		×	×	~
Brun 650 sable		×	×	~
Blue 600 sable		×	×	~
Gray 150 sable		×	×	~
Wood price Pino envejecido			imes Glass	< Tanatana
Sapelli caoba			~	~
Roble golden			×	~
Pino nudo	Ę		\checkmark	~
Castaño oscuro			\checkmark	~
Embero dorado			×	~
Nogal oscuro			×	~
Roble irlandés			×	~
Fresno			×	~
Wenge			~	~
Nogal andaluz			~	~
Cerezo claro			~	~
Teka			~	× T
Anodized			Matte	Poliched
Bronze			\checkmark	~

X

 \checkmark

Silver

Thermia[®] windows



Thermia Barcelona® series

Systems for aluminium windows





THERMIA® AF35 CE SERIES

THERMIA® AF52 CE SERIES





THERMIA® AR78+ CE SERIES

THERMIA® AF52 C16 SERIES





THERMIA® CF22 SERIES

THERMIA® CF26 SERIES





THERMIA[®] CF40 SERIES

THERMIA® CR40 SERIES





THERMIA[®] AF52M SERIES

THERMIA[®] PM SERIES



THERMIA[®] AR52 CE SERIES



THERMIA® AR62 CE SERIES



THERMIA® AR78+ C16 SERIES



THERMIA® OC78+ C16 SERIES



THERMIA® CF31 SERIES



THERMIA® CR46 SERIES



THERMIA® CR31 SERIES

THERMIA® ER52 SERIES



THERMIA[®] GR48 SERIES



THERMIA® MQ22 SERIES

Our product series

Thermia® AF35 CE

Basic Casement Series

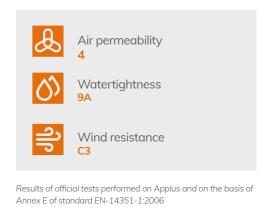
Technical features Thermia® AF35 CE		
Thermal break	No	
Main frame	35 mm	
Main sash	35 mm	
Profile thickness	1.2 mm	
Maximum glass thikness	8 / 21 mm	
Maximum glass weight	90 Kg	
Tilt and turn leaf maximum weight	130 Kg	
Available profiles	Window	



Projecting Casement Tilt and turn

Allows multiple pane-opening systems. Fixed structure

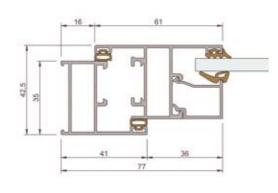
Thermia® AF35 CE test results

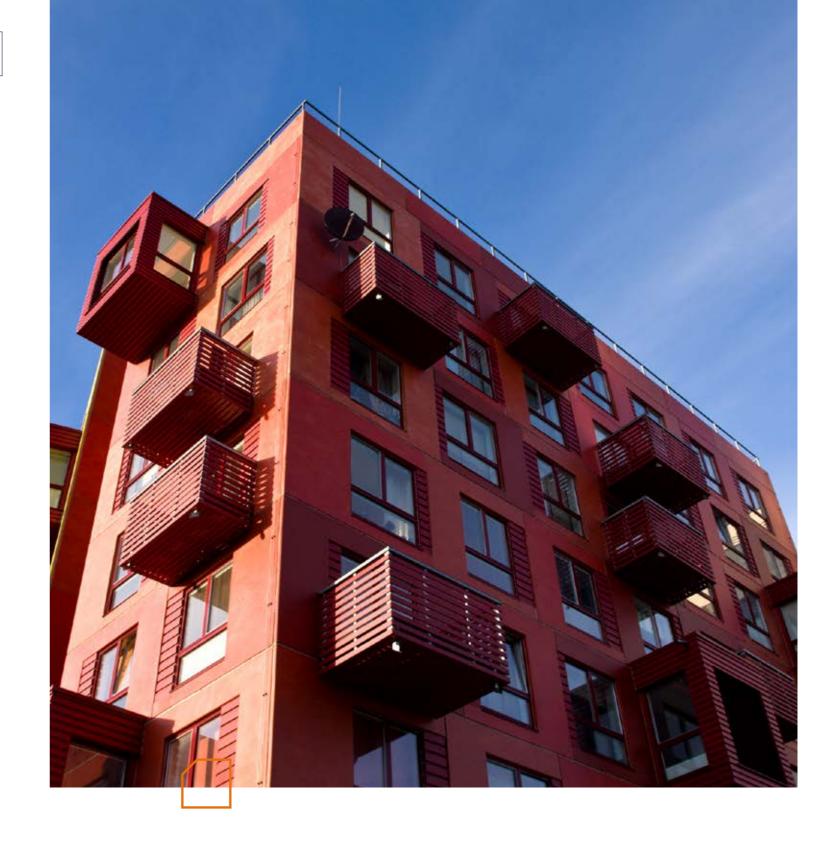


Cross-section of Thermia® AF35 CE series

Acoustic attenuation up to 34 dB (Window size: 1230cm x 1450cm with acoustic laminated glass.) .

34 dB





Quality seals





Qualanod seal for the anodization License number: 1014

Qualicoat seal for the lacquer License number: 405



imitation wood License number: ES-0009F DIMAC SL 2018 Accessories EN 1435-1: 2006

Certification

THE

THERMIA BARCELONA® SERIES

The basic, effective window



Thermia[®] AF52 CE

Standard Casement Series

Technical features Thermia® AF52 CE		
Thermal break	No	
Main frame	45 mm	
Main sash	52 mm	
Profile thickness	1.5 / 1.8 mm	
Maximum glass thikness	27 mm	
Maximum glass weight	90 Kg	
Tilt and turn leaf maximum weight	130 Kg	
16 mm channel	Yes	
Available profiles	Window / Door	

Thermia[®] AF52 CE test results

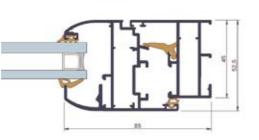


39 dB Acoustic attenuation up to 39 dB

(Window size: 1230cm x 1450cm with acoustic laminated glass.)

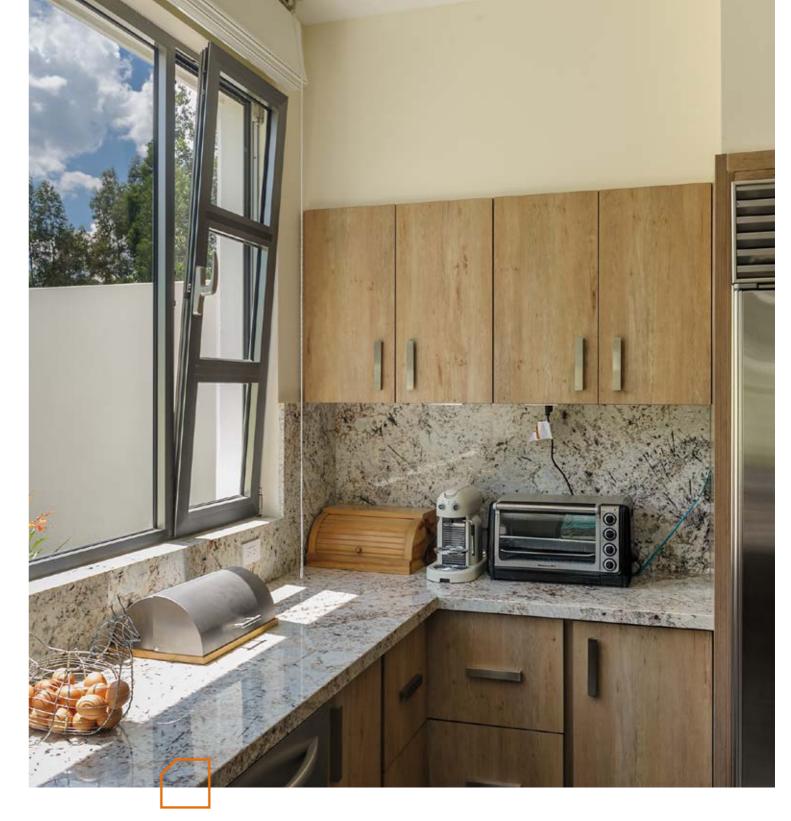


Results of internal tests performed on the basis of Annex E of standard EN-14351-1:2006



Cross-section of Thermig[®] AF52 CE series

Our **product series**



Quality seals



Qualanod seal for the anodization License number: 1014





imitation wood License number: ES-0009F THE

Certification

DIMAC SL 2018 Accessories EN 1435-1: 2006 THERMIA BARCELONA® SERIES

The silence that you have been looking for

Thermia® AR52 CE

Standard RPT Casement Series

Technical features Thermia® AR52 CE		
Thermal break	Yes / 14 mm	
Main frame	45 mm	
Main sash	52 mm	
Profile thickness	1.5 / 1.8 mm	
Maximum glass thikness	27 mm	
Maximum glass weight	90 Kg	
Tilt and turn leaf maximum weight	130 Kg	
Available profiles	Window / Door	

Uw window = 1.56 W/mk^{2*}

* Based on EN 10077-02 Single-leaf 1.5x2.4 balcony door glass Ug= 1.1ψ = 0.053



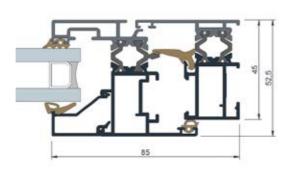
Our product series

Acoustic attenuation up to 40 dB (Window size: 1230cm x 1450cm with acoustic laminated glass.)

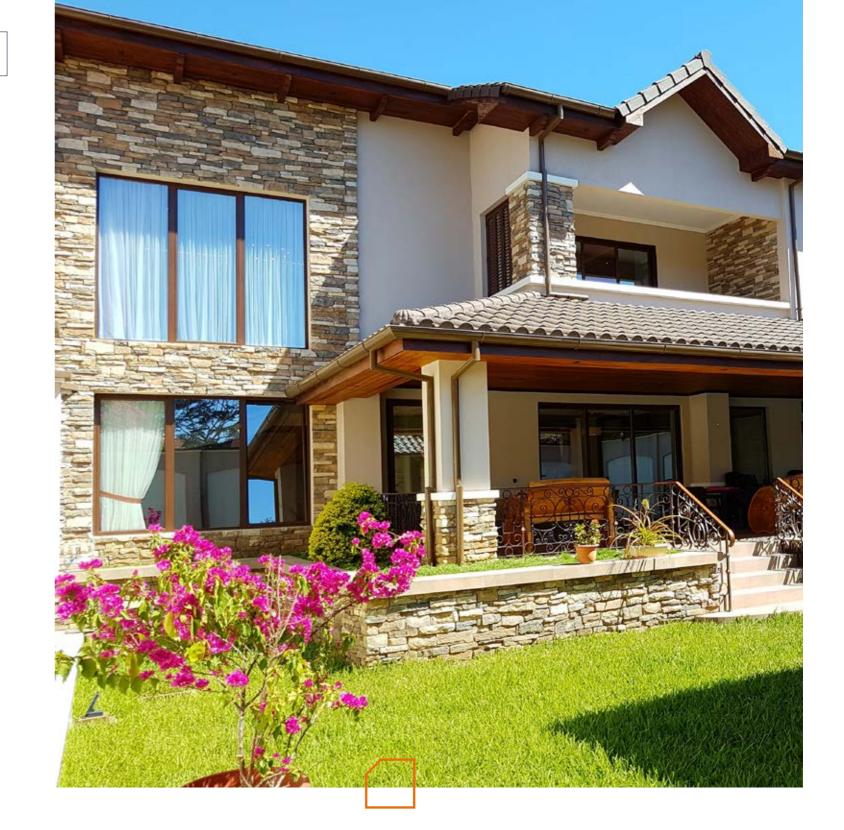
Ð Air permeability Watertightness Window: 9A Balcony door: 6A Wind resistance 5 Window: C4 Balcony door: C2

Thermia[®] AR52 CE test results

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 of Thermia® AR52 CE series



Thermal insulation and acoustic isolation for everyone

Quality seals





Qualanod sea for the anodization License number: 1014





imitation wood License number: ES-0009F THE

Certification

DIMAC SL 2018 Accessories EN 1435-1: 2006 THERMIA BARCELONA® SERIES

Thermia® AR62 CE

Top RPT Casement Series

Technical features Thermia® AR62 CE		
Thermal break	Yes / 24 mm	
Main frame	55 mm	
Main sash	62 mm	
Profile thickness	1.5 / 1.8 mm	
Maximum glass thikness	37 mm	
Maximum glass weight	90 Kg	
Tilt and turn leaf maximum weight	130 Kg	
Available profiles	Window / Door	

Thermia[®] AR62 CE test results



Our product series

Uw window = 1.46 W/mk²*

* Based on EN 10077-02 Single-leaf 1.5x2.4 balcony door glass Ug= 1.1 $\psi\text{=}$ 0.053



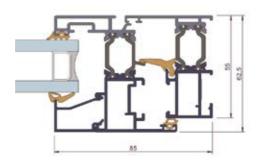
(Window size: 1230cm x 1450cm with acoustic laminated glass.)

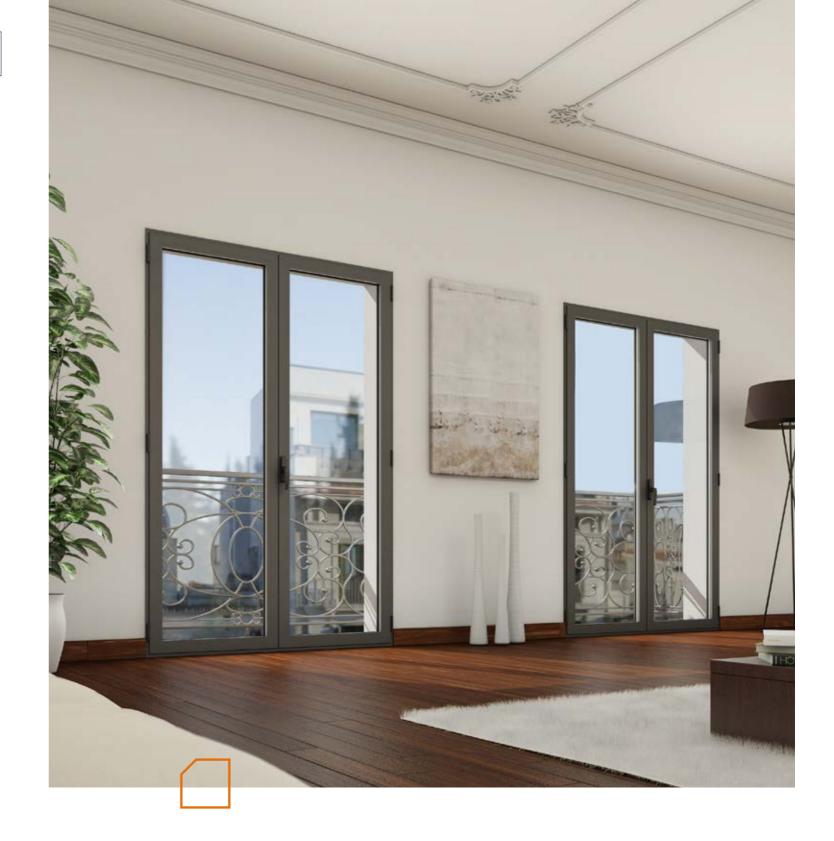
42 dB

Acoustic attenuation up to 42 dB



Results of official tests performed on Ensatec 232623 and 232624 and on the basis of Annex E of standard EN-14351-1:2006





Guaranteed savings and well-being

Quality seals



Qualanod seal for the anodization License number: 1014





imitation wood License number: ES-0009F

Certification



DIMAC SL 2018 Accessories EN 1435-1: 2006 THERMIA BARCELONA® SERIES

Our product series

Thermia® AR78 CE

Extreme RPT Casement Series

Technical features Thermia® AR78 CE		
Thermal break	Yes / 24 mm	
Main frame	70 mm	
Main sash	78 mm	
Profile thickness	1.5 / 1.8 mm	
Maximum glass thikness	49 mm	
Maximum glass weight	90 Kg	
Tilt and turn leaf maximum weight	130 Kg	
16 mm channel	Yes	
Available profiles	Window / Door	



Uw window = 1.07 W/mk^{2*}

* Based on EN 10077-02 Single-leaf 1.7x2.6 balcony door glass Ug= 0.7 $\psi\text{=}$ 0.046

Thermia® AR78 CE test results



E1050

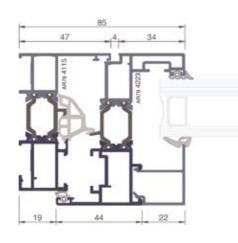


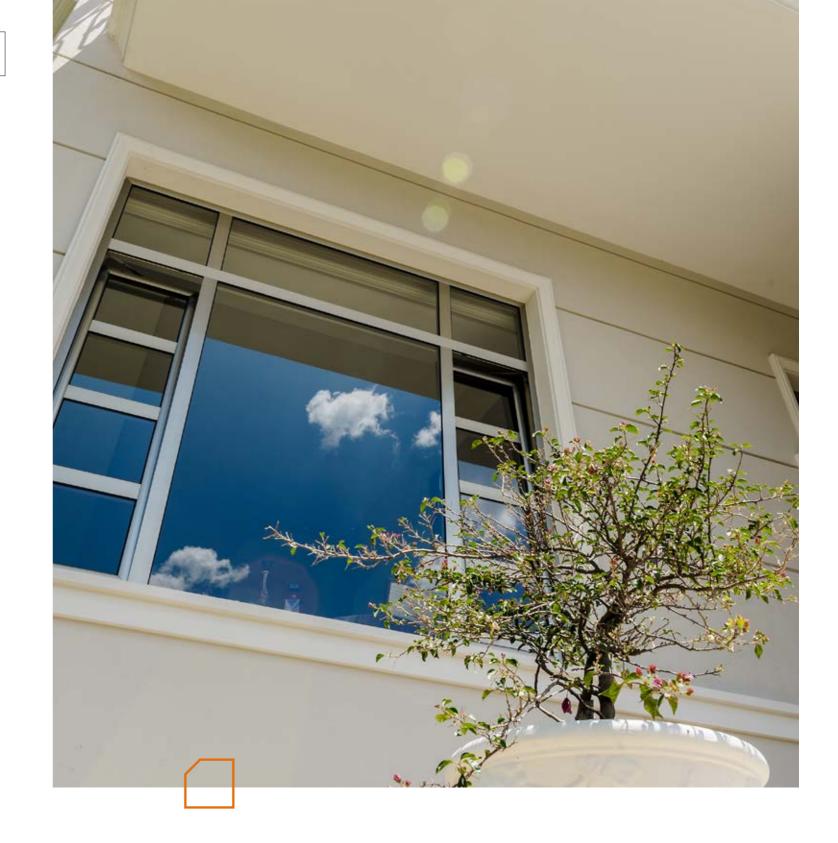
Results of official tests performed on Applus and on the basis of Annex E of standard EN-14351-1:2006

Cross-section of Thermia® series AR78 CE

Acoustic attenuation up to 45 dB (Window size: 1230cm x 1450cm with acoustic laminated glass.)

45 dB





The solution for the most demanding clients

Quality seals



Qualanod sea for the anodization License number: 1014





imitation wood License number: ES-0009F DIMAC SL 2018 Accessories EN 1435-1: 2006 THERMIA BARCELONA® SERIES

Certification

THE

Thermia[®] AF52 C16

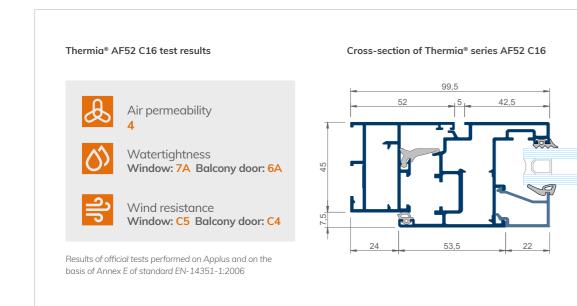
Standard 16 Casement Series

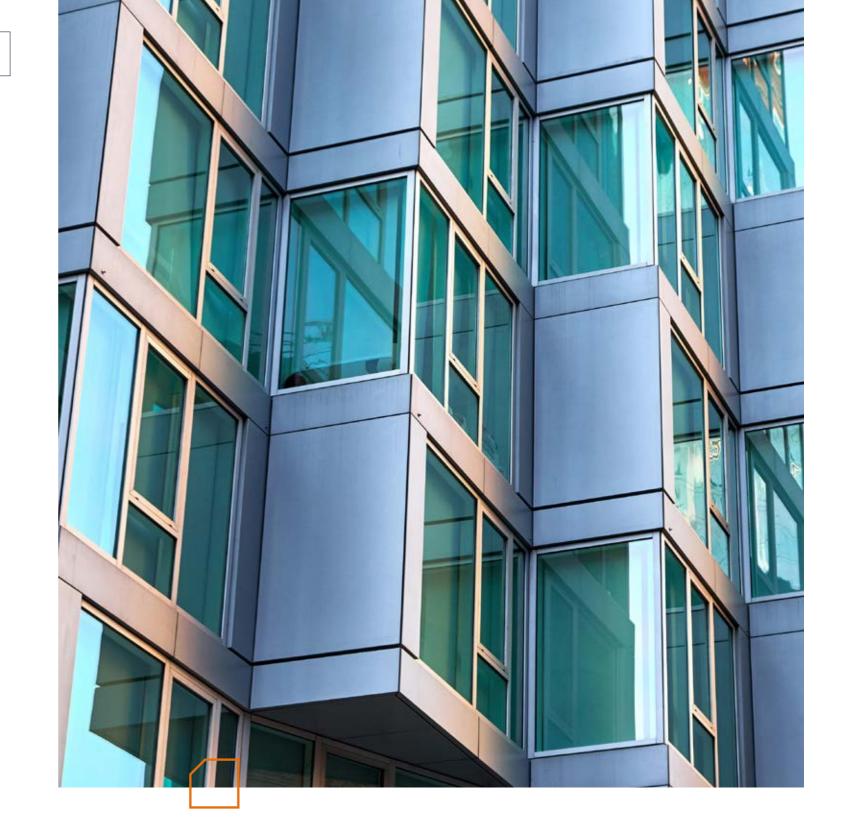
Technical features Thermia® AF52	2 C16
Thermal break	No
Main frame	45 mm
Main sash	52 mm
Profile thickness	1.5 mm
Maximum glass thikness	27 mm
Maximum glass weight	90 Kg
Tilt and turn leaf maximum weight	100 Kg
Available profiles	Window



Our product series

Acoustic attenuation up to 39 dB (Window size: 1230cm x 1450cm with acoustic laminated glass.)





Quality seals





Qualanod seal for the anodization License number: 1014





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

THE

Certification

DIMAC SL 2018 Accessories EN 1435-1: 2006 THERMIA BARCELONA® SERIES

Greater comfort with a simple system

Ventanas para vivir mejor

³⁹ dB

Our product series

Thermia[®] AR78+ C16

Extreme RPT 16 Casement Series

Technical features Thermia® AR7	′8+ C16
Thermal break	Yes / 24 mm
Main frame	70 mm
Main sash	78 mm
Profile thickness	1.5 / 1.8 mm
Maximum glass thikness	49 mm
Maximum glass weight	90 kg / door 100 kg
Tilt and turn leaf maximum weight	100 Kg
Available profiles	Window / Door

Uw window = 1.17 W/mk^{2*}

C16

* Based on EN 10077-02 Single-leaf 1.7x2.6 balcony door glass Ug= 0.7 ψ= 0.046



45 dB Acoustic attenuation up to 45 dB (Window size: 1230cm x 1450cm with acoustic laminated glass.)

Thermia® AR78+ C16 test results



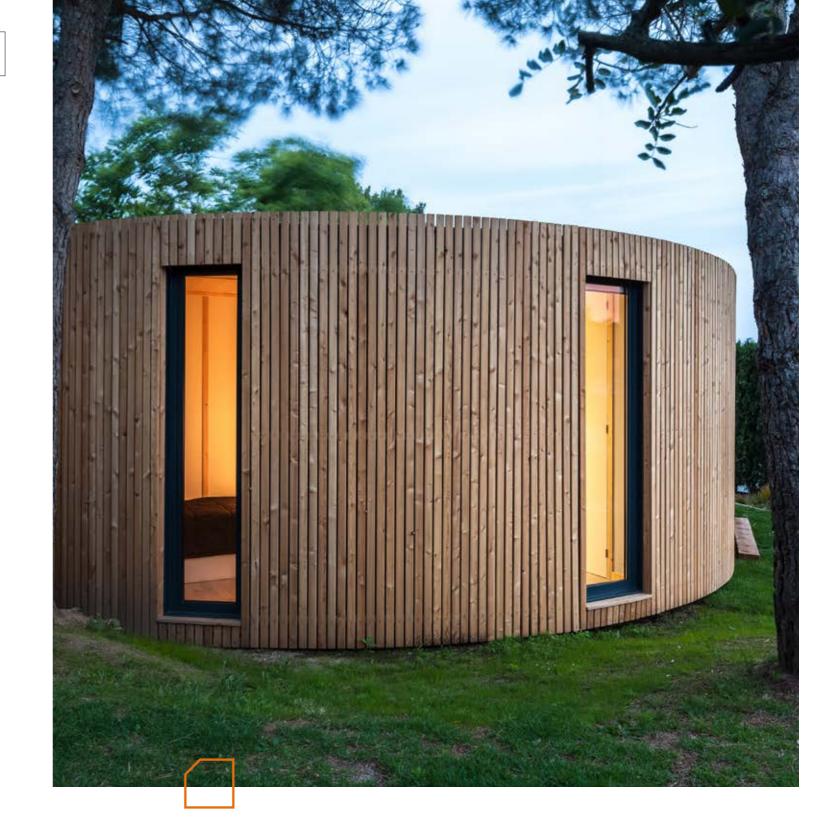
Window: E1050 Balcony door: E2100



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

Cross-section of Thermia® series AR78+ C16





Quality seals





Qualanod seal for the anodization License number: 1014

lacquer License number: 405



imitation wood License number: ES-0009F

DIMAC SL 2018 Accessories EN 1435-1: 2006 THERMIA BARCELONA® SERIES



Jualicoat seal for the





Certification

Maximum thermal insulation

Thermia® OC78+ C16

Ocult RPT 16 Casement Series

Technical features Thermia® AR78+ C16		
Thermal break	Yes / 24 - 32 mm	
Main frame	70 mm	
Main sash	66 mm	
Profile thickness	1.5 mm	
Maximum glass thikness	28 mm	
Maximum glass weight	90 Kg	
Tilt and turn leaf maximum weight	100 Kg	
Available profiles	Window	



Our product series

* Based on EN 10077-02 Single-leaf 1.2x2.4 balcony door glass Ug= 1,1 ψ = 0.053

Thermia® OC78+ C16 test results

E1200

Annex E of standard EN-14351-1:2006

Air permeability

Watertightness

Wind resistance

æ

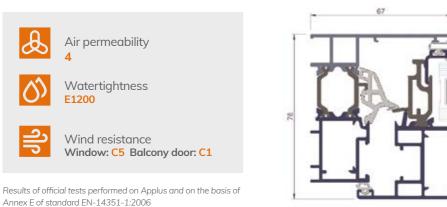
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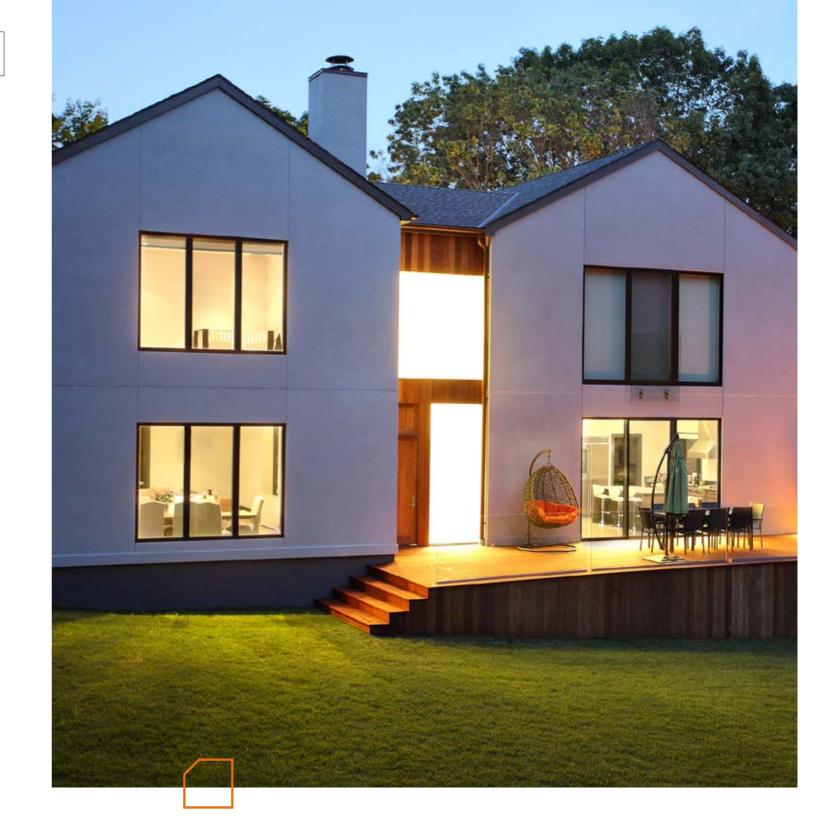
5

Uw window = 1.47 W/mk^{2*}



Cross-section of Thermia® series OC78+ C16





Quality seals





Qualanod seal for the anodization License number: 1014





imitation wood License number: ES-0009F Certification



DIMAC SL 2018 Accessories EN 1435-1: 2006 THERMIA BARCELONA® SERIES

More luminosity with a slim look

Our product series

Thermia[®] CF22

Basic Sliding Series

Technical features Thermia® CF22		
Thermal break	No	
Main frame	35 mm	
Main sash	22 mm	
Profile thickness	1.2 mm	
Maximum glass thikness	8 / 15 mm	
Maximum glass weight	80 Kg	
Track option	2 tracks	
90° frameless closure solution:	No	
Available profiles	Window / Door	

Thermia[®] CF22 test results

C2

Air permeability

Watertightness

Wind resistance

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



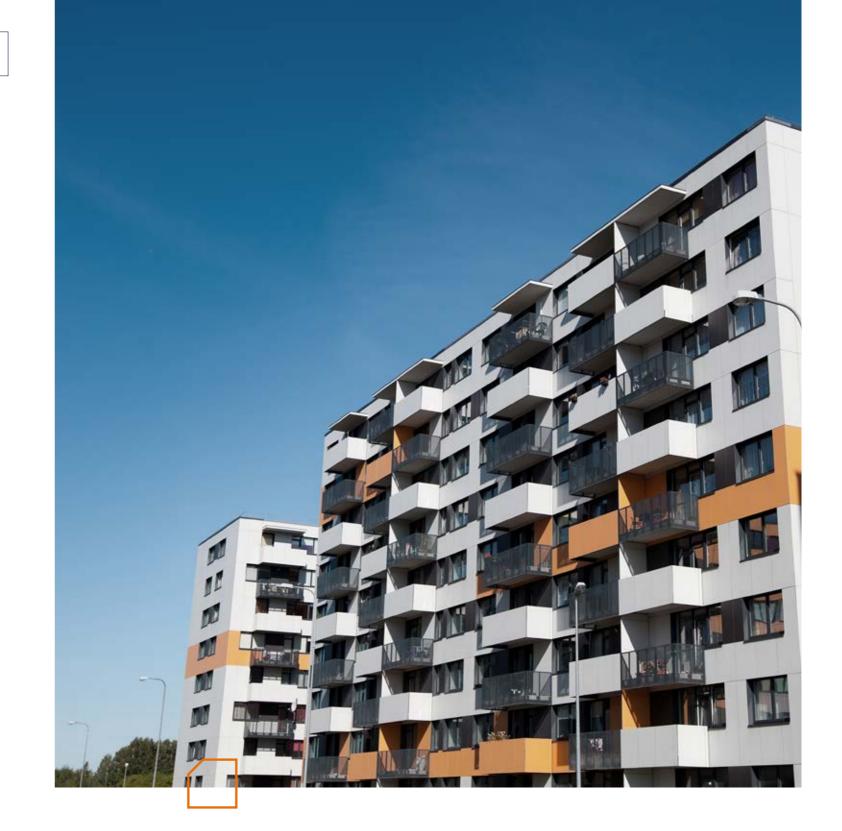
Cross-section of Thermia® series CF22

Acoustic attenuation up to 33 dB (Window size: 1230cm x 1450cm with acoustic laminated glass.)

37,5

45.5

73,5



Design and comfort for everyone

Quality seals





Qualanod seal for the anodization License number: 1014 Qualicoat seal for the lacquer License number: 405



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

Certification



DIMAC SL 2018 Accessories EN 1435-1: 2006 THERMIA BARCELONA® SERIES

Our product series

Thermia® CF26

Basic+ Sliding Series

Technical features Thermia® CF26		
Thermal break	No	
Main frame	65 mm	
Main sash	26 mm	
Profile thickness	1.3 mm	
Maximum glass thikness	10 / 17 mm	
Maximum glass weight	120 Kg	
Track option	2, 3, 4 or more tracks	
Available profiles	Window / Balcony Door	
90° frameless closure solution:	No	



36 dB Acoustic attenuation up to 36 dB

(Window size: 1230cm x 1450cm with acoustic laminated glass.)

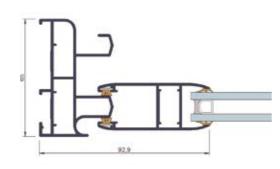
Thermia[®] CF26 test results

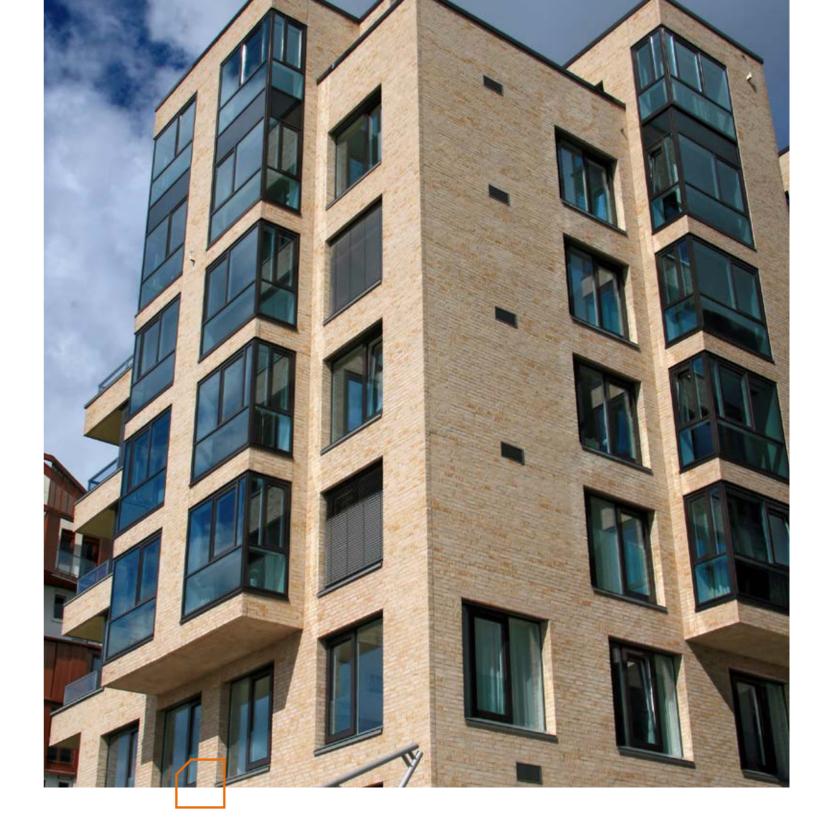


Wind resistance Window: C4 Balcony door: C2

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

Cross-section of Thermia® series CF26





Quality seals



Qualanod seal

for the anodization

License number: 1014



Qualicoat seal for the lacquer License number: 405



imitation wood License number: ES-0009F DIMAC SL 2018 Accessories EN 1435-1: 2006 THERMIA BARCELONA® SERIES

Certification





Extraordinarily versatile windows

Thermia[®] CF31

Standard Sliding Series

Technical features Thermia® CF31					
Thermal break:	No				
Main frame:	75 mm				
Main sash	31 mm				
Profile thickness	1.5 mm				
Maximum glass thikness	10 / 31 mm				
Maximum glass weight	160 Kg				
Track option	2, 3, 4 or more tracks				
Available profiles	Window / Balcony Door				
90° frameless closure solution:	Yes				



Our product series

36 dB Acoustic attenuation up to 36 dB

Cross-section of Thermia® series CF31

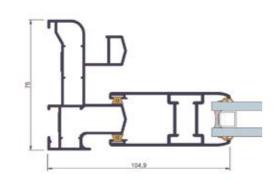
(Window size: 1230cm x 1450cm with acoustic laminated glass.)

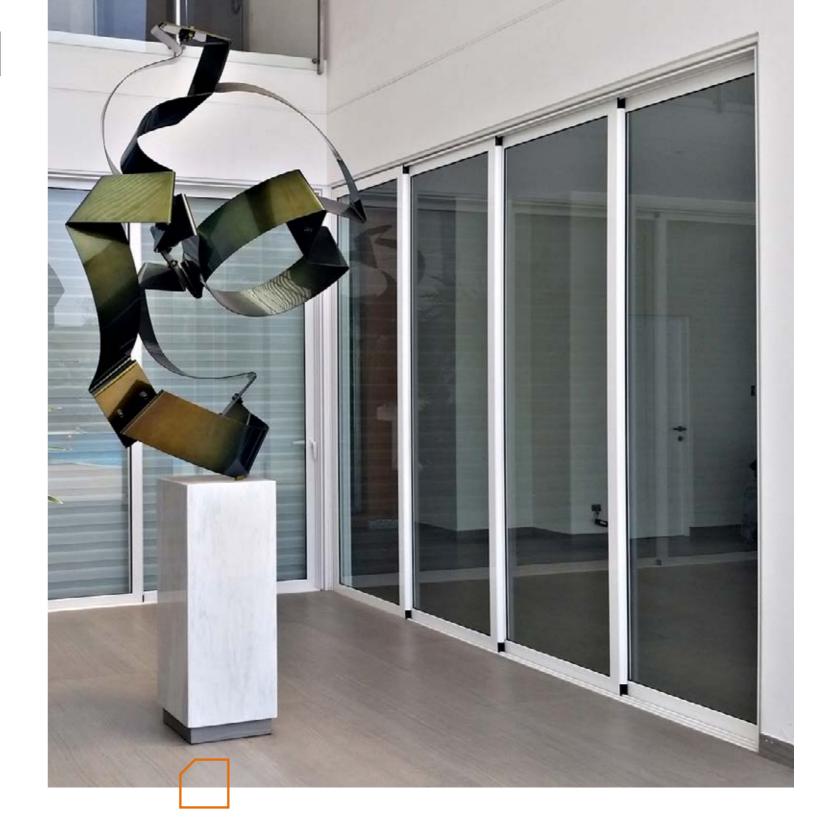


Thermia[®] CF31 test results

Window: 6A Balcony door: 4A Wind resistance Window: C5 Balcony door: B1

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





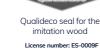
Enjoy the outdoors without sacrificing silence

Quality seals



Qualanod seal for the anodization License number: 1014





imitation wood License number: ES-0009F Certification



DIMAC SL 2018 Accessories EN 1435-1: 2006 THERMIA BARCELONA® SERIES

Thermia[®] CF40

Slim Sliding Series

Technical features Thermia® CF	40
Thermal break	No
Main frame	Perimeter cut 65 mm
Main sash	Straight cut 40 mm
Profile thickness	1.4 / 1.6 mm
Maximum glass thikness	28 mm
Maximum glass weight	160 / 200 kg
Track option	2, 3 or more tracks
Available profiles	Window / Balcony Door
Stock colors	White / Silver

Thermia[®] CF40 test results

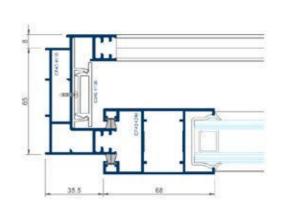


39 dB Acoustic attenuation up to 39 dB.

(Window size: 1230×1450 with acoustic laminated glass.)



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



Cross-section of Thermia® series CF40

Our **product series**

Quality seals



Qualanod seal for the anodization License number: 1014

Jualicoat seal for the lacquer License number: 405



imitation wood License number: ES-0009F Certification



DIMAC SL 2018 Accessories EN 1435-1: 2006 THERMIA BARCELONA® SERIES



Sliding windows that can do it all.

Thermia® CR31

Standard RPT Sliding Series

Technical features Thermia® CR31					
Thermal break	Yes / 14 - 25 mm				
Main frame	75 mm				
Main sash	31 mm				
Profile thickness	1.5 mm				
Maximum glass thikness	24 mm				
Maximum glass weight	160 Kg				
Track option	2, 3, 4 or more tracks				
Available profiles	Window / Balcony Door				
90° frameless closure solution:	Yes				



Our product series

Uw window = 1.79 W/mk^{2*}

* Based on EN 10077-02 2.8x2.2 balcony door glass Ug= 1.1 ψ= 0.053

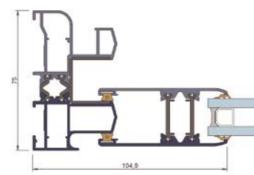


Acoustic attenuation up to 37 dB (Window size: 1230cm x 1450cm with acoustic laminated glass.)

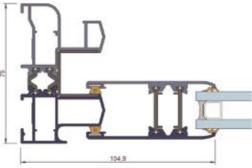
Thermia[®] CR31 test results

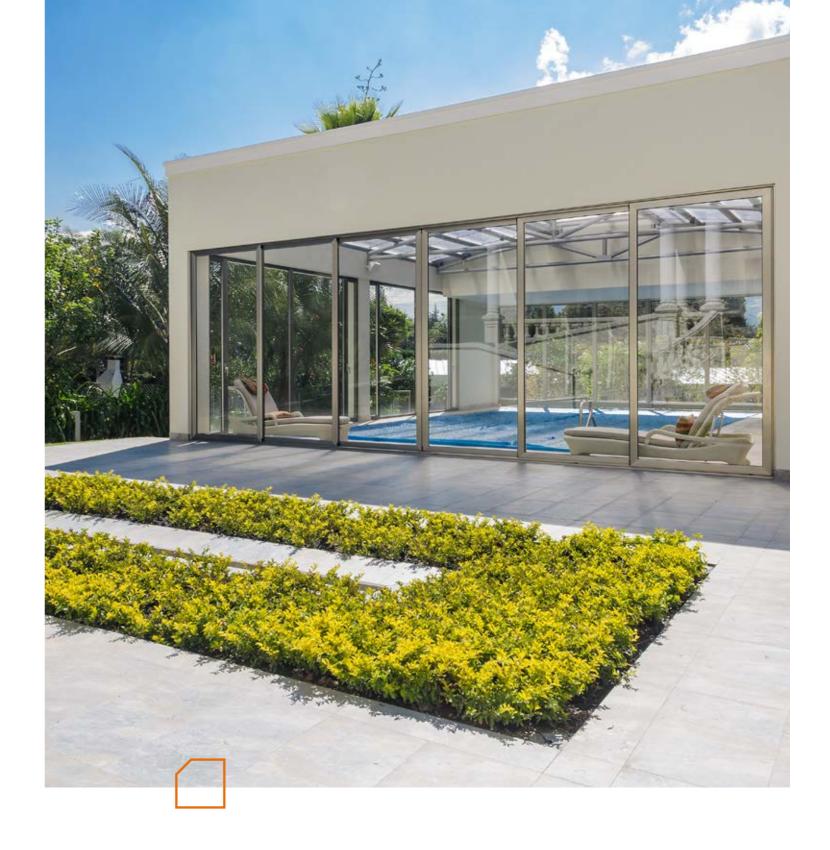


Results of official tests performed on Ensatec 232625 and 232626 and on the basis of Annex E of standard EN-14351-1:2006



Cross-section of Thermia® series CR31





Windows to bring together the outdoors and the indoors

Quality seals





Oualanod sea for the anodizatio License number: 1014





mitation wood License number: ES-0009F THE

Certification

DIMAC SL 2018 Accessories EN 1435-1: 2006 THERMIA BARCELONA® SERIES

Thermia® CR40

Slim RPT Sliding Series

Technical features Thermia® CR40						
Thermal break	Yes					
Main frame	Perimeter cut 65 mm					
Main sash	Straight cut 40 mm					
Profile thickness	1.4 / 1.6 mm					
Maximum glass thikness	28 mm					
Maximum glass weight	160 / 200 Kg					
Track option	2, 3 or more tracks					
Available profiles	Window / Balcony Door					
Stock colors	White / Silver					



Our product series

Uw window = **1.58 W/mk**^{2*}

* Based on EN 10077-02 3.2x2.4 balcony door glass Ug= 1.1 ψ= 0.053

(Window size: 1230cm x 1450cm with acoustic laminated glass.)

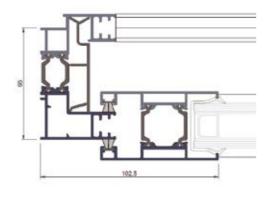
Thermia® CR40 test results

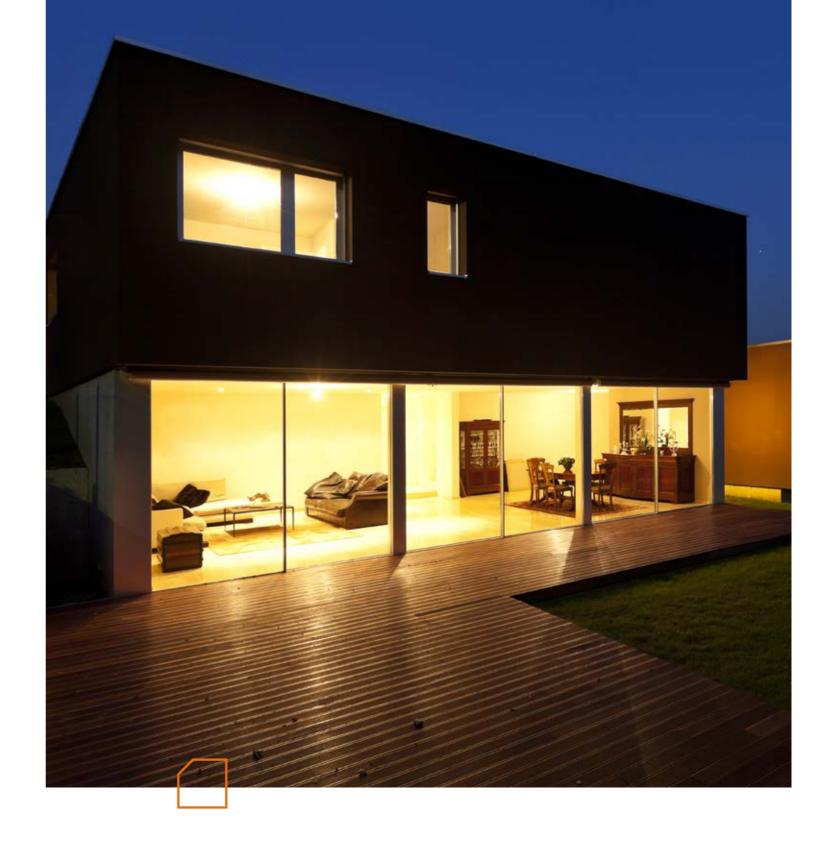


Results of official tests performed on Ensatec 244728 and on the basis of Annex E of standard EN-14351-1:2006

Cross-section of Thermia® series CR40

Acoustic attenuation up to 40 \mbox{dB}





The perfect solution for today's architecture

Quality seals





Qualanod seal for the anodization License number: 1014





imitation wood License number: ES-0009F DIMAC SL 2018 Accessories EN 1435-1: 2006

Certification

THE

THERMIA BARCELONA® SERIES

Thermia® CR46

Top RPT Sliding Series

Technical features Thermia® CR46					
Thermal break	Yes / 24 - 25 mm				
Main frame	65 mm				
Main sash	65 mm				
Profile thickness	1.6 / 1.8 mm				
Maximum glass thikness	28 mm				
Maximum glass weight	180 Kg				
Track option	2, 3, 4 or more tracks				
Available profiles	Window / Balcony Door				
90° frameless closure solution:	Yes				



Our product series

Uw window = 1.65 W/mk^{2*}

* Based on EN 10077-02 3.6x2.6 balcony door glass Ug= 1.1 $\psi{=}$ 0.053



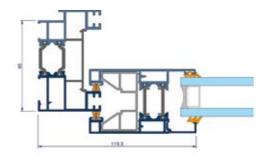
41 dB

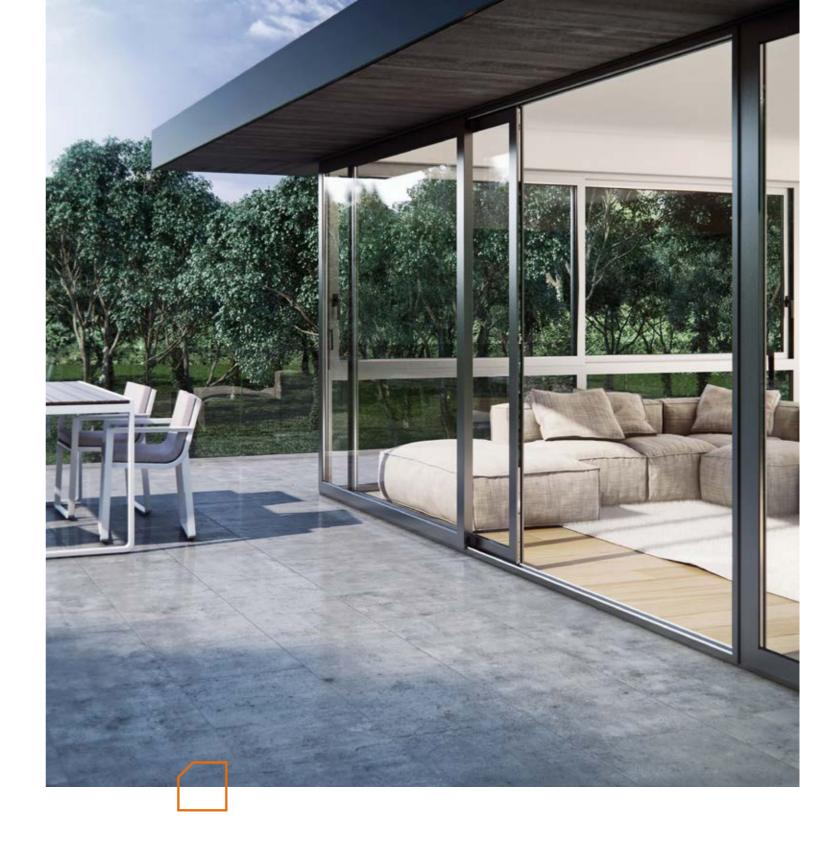
Thermia® CR46 test results



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 of Thermia® series CR46





Quality seals





Qualanod seal for the anodization License number: 1014





DIMAC SL 2018 Accessories EN 1435-1: 2006

Certification

THE

THERMIA BARCELONA® SERIES

The latest in window technology

Thermia[®] ER52

RPT Lift & Slide

Technical features Thermia® ER52					
Thermal break:	Yes / 24 - 14 mm				
Main frame:	125 mm				
Main sash	52 mm				
Profile thickness	1.8 mm				
Maximum glass thikness	30 mm				
Maximum glass weight	350 Kg				
Track option	2 or 3 tracks				
Available profiles	Window / Balcony Door				
90° frameless closure solution:	No				

Thermia® ER52 test results

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standard EN-14351-1:2006

Our product series

Uw window = 1.84 W/mk^{2*}

Air permeability

Watertightness 7A

Wind resistance

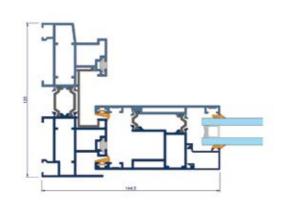
Results of official tests performed on Applus 10/323000370 -09/32302504 - 09/32302670 and on the basis of Annex E of

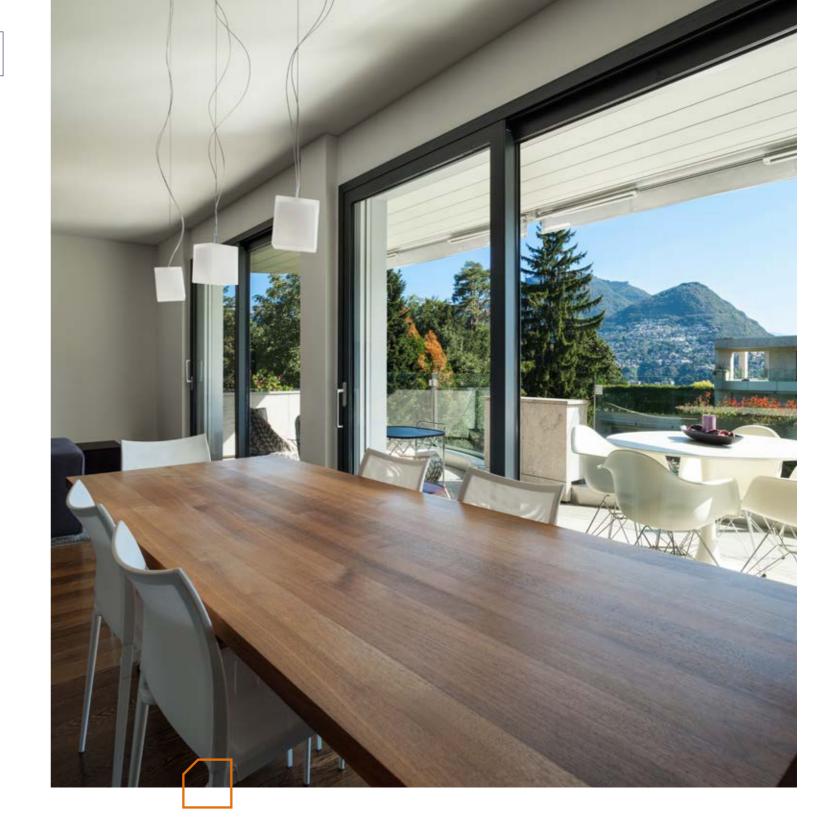
* Based on EN 10077-02 4.5x2.8 balcony door glass Ug= 1.1 ψ= 0.053



Cross-section of Thermia[®] series ER52

44 dB





Quality seals



Qualanod seal for the anodization License number: 1014





imitation wood License number: ES-0009F

Certification



DIMAC SL 2018 Accessories EN 1435-1: 2006 THERMIA BARCELONA® SERIES

ER52 JBLE HUNG / **Thermia**®

Size is not a problem

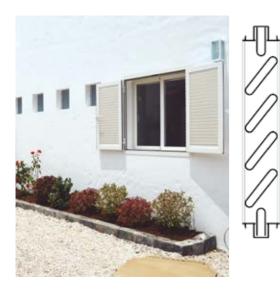
Thermia[®] Shutter Series

with 4 kinds of slats and glass.

Thermia® PM

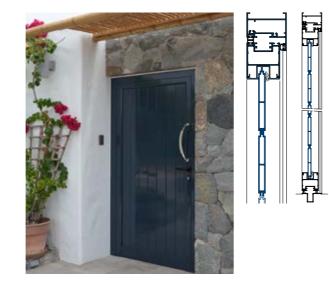
Sun & sight protection and security series

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



Blind slat shutter

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



Glass slide & folding Commonly used with exterior and interior folding closures, for dividing interior space.



Movable slats shutter

Slat position can be adjusted, allowing

the user to position them as desired at any time.







The Thermia ® shutter takes its inspiration from the ancient wooden shutters 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.

Mediterranean style Thermia[®] Shutter

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.

Thermia® PM

Sun & sight protection and security series

Opening systems

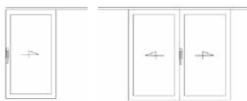
Sliding shutter system

- The sliding shutter 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 trucks.
- The wall guide is manufactured with a decorative cover for a more elegant look.
- The ability to slide all the panes laterally means that the window opening can be left completely unobstructed.



Design

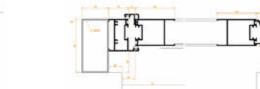
Comfort Silence



Single panel

Double panel





Cross-section single panel

Overlapping lower guide

Embedded lower guide

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(Fig. 1)

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M M BRIDE

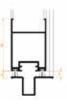
DEEDK M. N

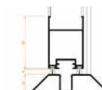
www.gooddad

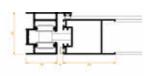
N W ROOM DEDERKAM. M

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)







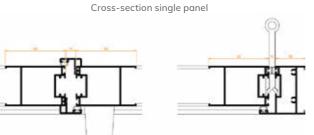


Windows for a better life

Casement shutter system

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





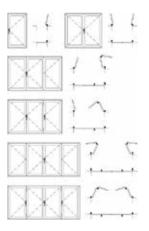
Cross-section double panel



Recessed lower guide

Overlapping lower guide

Upper ceiling guide



(Fig. 2)



The aluminum shutter serie

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

Thermia[®] MQ22 **Mosquitoes screen**

Insect protection series

A versatile system offering effective protection against mosquitoes.

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



Our product series



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.

Impeccable aesthetics

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

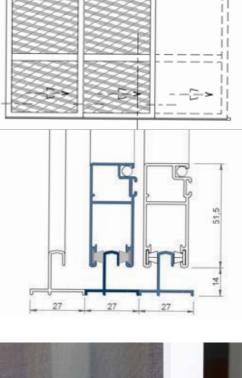
Easy to manufacture and install

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

100% Adaptable

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

Windows for a better life

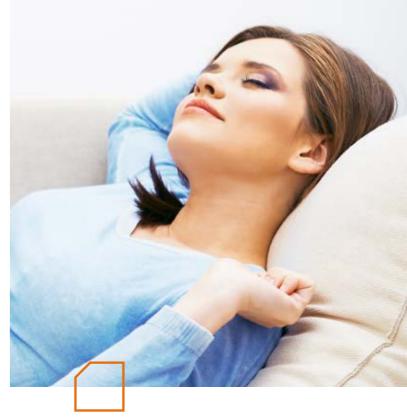




A unique system in the market for large-format balcony doors.

Thanks to the use of robust profiles and the assembly system, large-format panels can be assembled with whatever combination works best.

While other products on the market have a very short useful life, The Thermia MQ22 mosquito screen has been specially designed to last a long time in large openings.

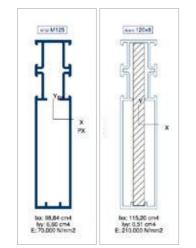


Protection against insects. Thermia® MQ22

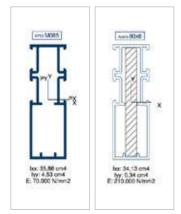
Thermia[®] AF52M Mullion

Light structural series





Non-reinforced Reinforced



Non-reinforced Reinforced Technical features Thermia® AF52M - Mullion

Compatible with the Thermia® AF52 series, an upright and crossbeam system measuring 85 mm and 125 mm.

Glass panes supported mechanically by the moldings of the Thermia system.

Wide range of glazing.

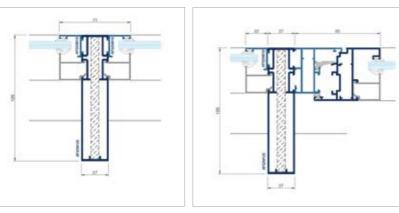
Ability to mount outward-opening sash from the AF52 series.

Ability to attach any sliding or casement window from the Thermia system to the uprights.

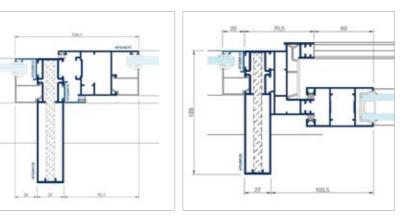
Option of internal steel reinforcement to increase strength (ExY module).

Many combinations can be achieved by attaching a screw-on blades or glazing bead in multiple positions.

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

Quality seals



Oualanod seal for the anodization License number: 1014



lacauer License number: 405

Qualideco seal for the

imitation wood

License number: ES-0009F



Certification

DIMAC SL 2018 Accessories EN 1435-1: 2006 THERMIA BARCELONA[®] SERIES



Thermia® AF52M 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.



Our product series

Thermia® GR48

Glass rail series

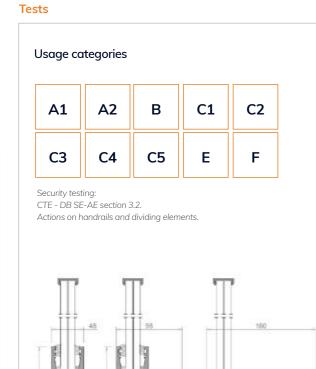


Performance

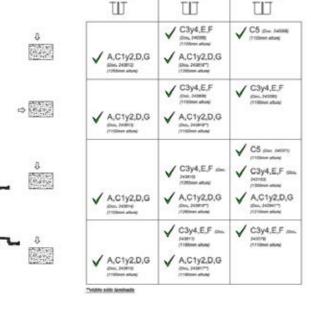
Ц

Usage categories certified for

P



compliance with standards CTE-DB SE-AE 6+6//(T) 8+8//(T) 10+10 // (T) U Ш



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.

Quality seals







imitation wood License number: ES-0009F

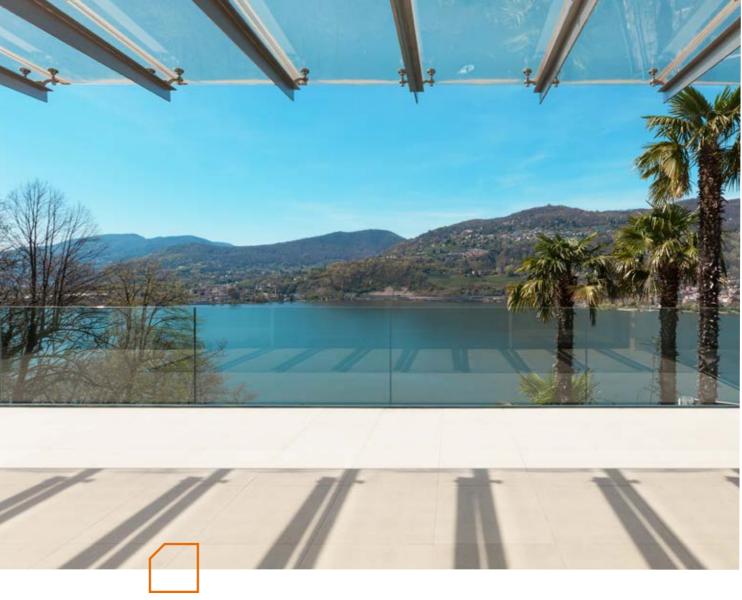


Certification



DIMAC SL 2018 Accessories EN 1435-1: 2006 THERMIA BARCELONA® SERIES





Extrusion alloy - 6060.

State of supply - T6 - T66.

Dimensions

- Profile depth 48 mm.
- Cross-section view 115 mm.

Construction options

- On the floor.

Glazing - 6+6 T (Butyrals)

- Recessed.

- 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.

Qualanod seal for the anodization

Qualicoat seal for the lacquer License number: 405



Minimalist security Thermia® GR48

- On the edge of the floor.

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

- Mechanical adjustment for leveling on the floor.

- Compatible with alignment strings and connecting angles.

- Integrated water drainage, caps and external anodic protection.

Railing series

Assembly options

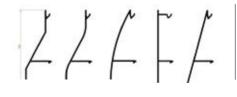
Thermia[®] Railing

Our product series

Thermia[®] Louvers

Solar protection series





VELAM LOUVRES



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.

Quality seals





Oualanod sea for the anodization License number: 1014

oat seal for th se number: 405



License number: ES-0009F

used with the windows.

THE

Certification

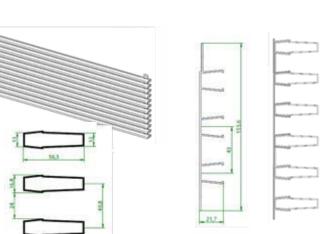
Safety and elegance

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

DIMAC SL 2018 Accessories EN 1435-1: 2006 THERMIA BARCELONA® SERIES

Thermia[®] Railing





Protection and ventilation Thermia[®] Louvers



Manufacture Thermia[®] Windows anywhere in the world.

Our Thermia[®] systems distribution division serves window manufacturers, offering the following advantages to metal carpentry workers:

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.











"We offer a comprehensive, fully customized service"

Thermia® window man-

ufacturers benefit from

optimized inventory man-

agement, personalized

business consulting for all

Thermia[®] systems.

The Thermia® systems distribution network + Marketing to **domestic manufacturers**. + Marketing to **international manufacturers**.

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.



Trained professionals in Thermia[®] windows manufacture, 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.





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.





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

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 construction and existing buildings in the process of being sold or leased.



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 wellbeing that we all want.



How the noise pollution affect 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.

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 im-

According to the WHO (World Health Organization) it establishes the **maximum levels at 50-60 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.

prove 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:

alter the acoustic properties.

The window must guarantee

Any minor crack in the closure

than the same thickness of float glass.

the maximum possible air-tightness.

represents an air inlet and, therefore, noise.

Tempered or laminated glass (not acoustic) do not

However, acoustic laminated glass attenuates more

Composition .aminated coustic laminated /onolithic 10/12/66 6/12/44SC coustic laminated monolithi

Glass composition and its acoustic attenuation.



Different thicknesses of insulated glass attenuate more than insulated 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).





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

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



80 dB Noisy street.

70 dB Quiet road traffic.

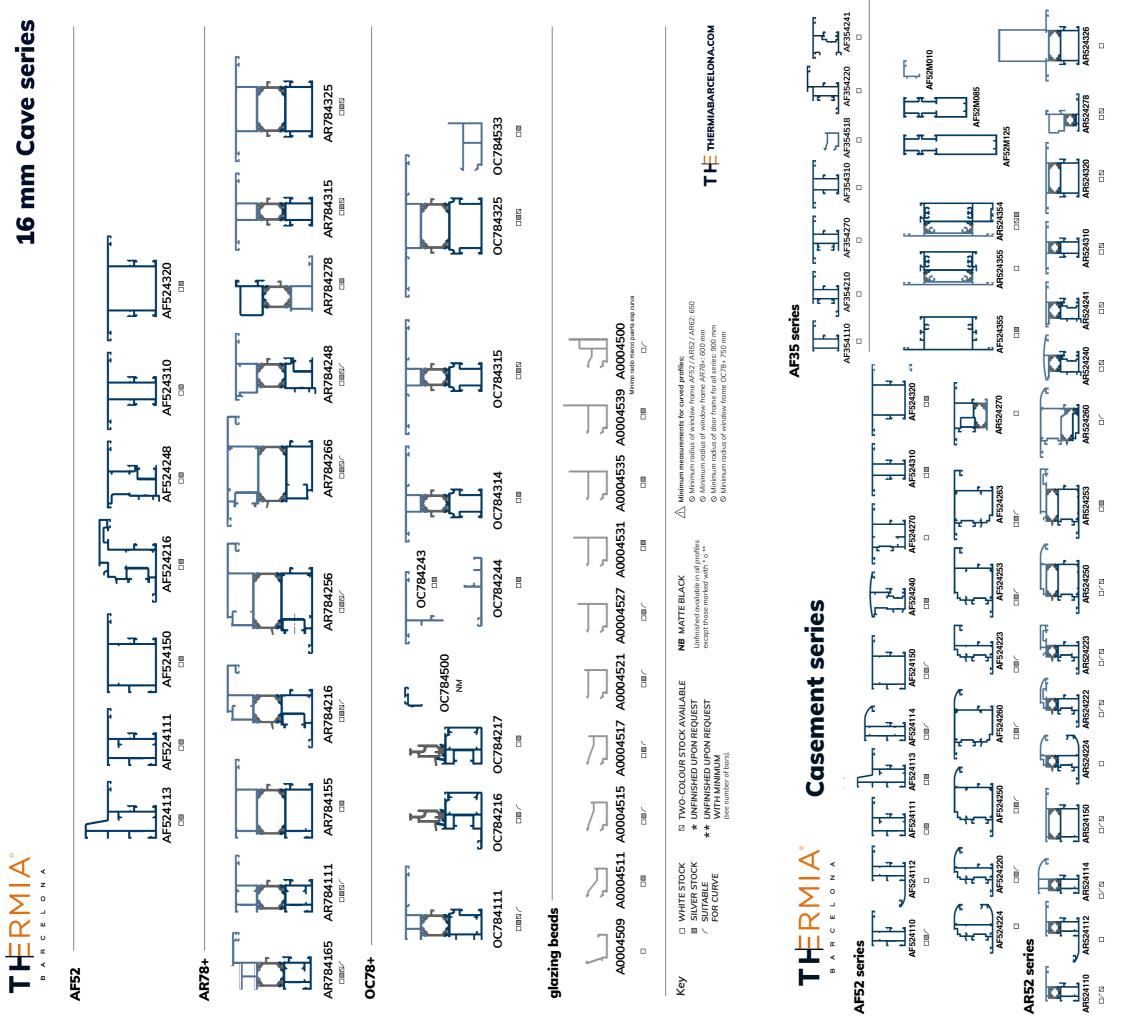
60 dB Restaurant. Store.

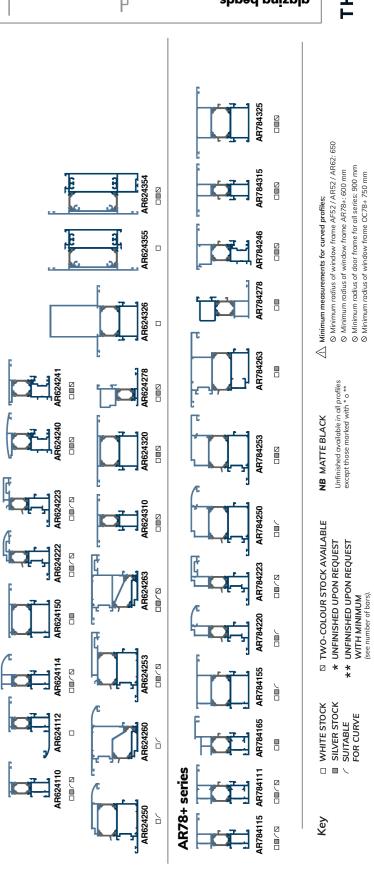
50 dB Quiet street.

40 dB Living room.

30 dB Bedroom. Quiet refrigerator.

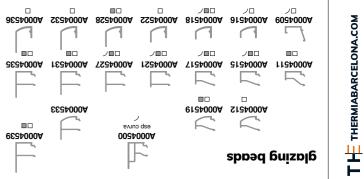
- 20 dB Quiet rustling of tree leaves.
- 10 dB Quiet breathing.

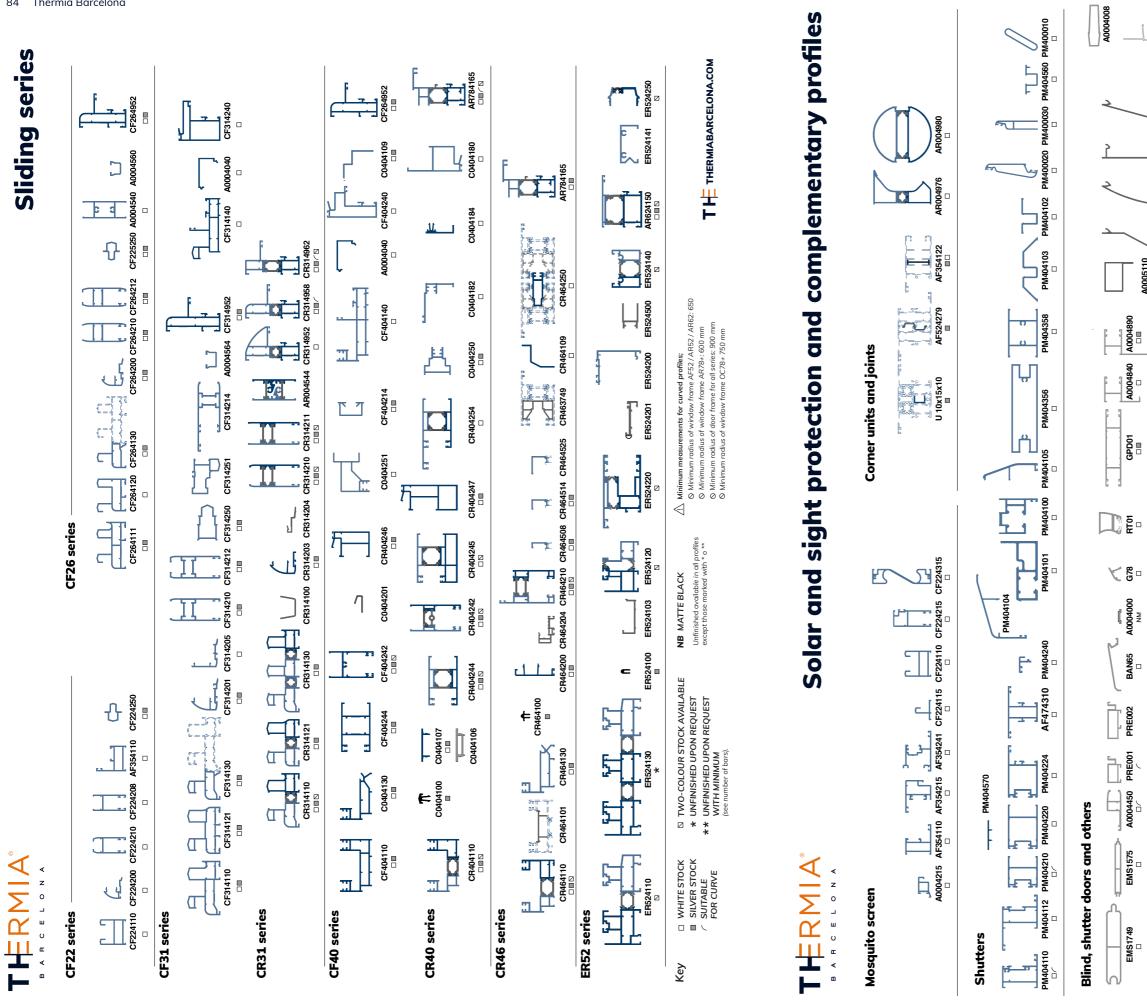


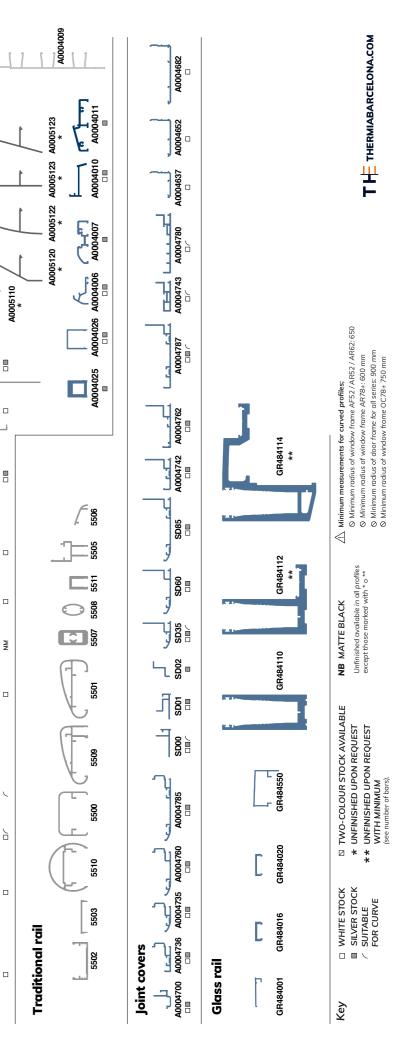


series

AR62









Technical charts of theThermia[®] systems



Thermia[®] sliding series

Series	RPT Series	mm Frame / sash POLYAMIDE	Uw WINDOW* up to	mm MAIN FRAME	mm MAIN SASH	mm PROFILE THICKNESS	mm MAXIMUM GLASS
Thermia [®] ER52	Yes	24/14	1.84*	125	52	1.8	30
Thermia [®] CR46	Yes	24/25	1.65*	65	46	1.6 / 1.8	28
Thermia [®] CR40	Yes	24	1.53*	65	40	1.4/1.6	28
Thermia [®] CF40	No	No	-	65	40	1.4 / 1.6	28
Thermia [®] CR31	Yes	14/25	1.79*	75	31	1.5	24
Thermia® CF31	No	No	-	75	31	1.5	10/21
Thermia [®] CF26	No	No	-	65	26	1.3	10/17
Thermia [®] CF22	No	No	-	35	22	1.2	8/15

*Uw: According to standard EN 10077. See the details of the values in each series' specifications sheet.

SERIES	MAXIMUM GLASS WEIGHT (kg)	3 TRACK OPTION	4 OR MORE TRACKS	AVAILABLE PROFILES	COLORS IN STOCK
Thermia® ER52	350	Yes	No	Window / Balcony Door	Raw
Thermia [®] CR46	180	Yes	Yes	Window / Balcony Door	Raw/Silver/White
Thermia [®] CR40	160 / 200 kg	Yes	Yes	Window / Balcony Door	Raw/Silver/White
Thermia [®] CF40	160 / 200 kg	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

Thermia[®] casement series

SERIES	RPT Series	mm POLYAMIDE Frame / sash	Uw WINDOW* up to	mm MAIN FRAME	mm MAIN SASH	mm PROFILE THICKNESS
Thermia [®] AF52 C16	No	No	-	45	52	1.5-1.8
Thermia® AR78+ C16	Yes	24	1.17*	70	78	1.5-1.8
Thermia [®] OC78+ C16	Yes	24	1.47*	70	66	1.5
Thermia [®] AR78+ CE	Yes	24	1.07*	70	78	1.5-1.8
Thermia [®] AR62 CE	Yes	24	1.46*	55	62	1.5-1.8
Thermia®AR5 CE	Yes	14	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: According to standard EN 10077. See the details of the values in each series' specifications sheet.

SERIES	MAXIMUM GLASS (mm)	MAXIMUM GLASS WEIGHT WITH CASEMENT GLASS SYSTEM (kg)	MAXIMUM GLASS WEIGHT WITH TILT AND TURN SYS- TEM (kg)	AVAILABLE PROFILES	COLORS IN STOCK
Thermia® AF52 C16	27	80	100	Window	Raw / Silver / White
Thermia® AR78+ C16	49	80	100	Window / Door	Raw / Silver / White
Thermia® OC78+ C16	28	90	100 (C16)	Window	Raw / Silver / White
Thermia [®] AR78+ CE	49	90 (CE)	130 (CE) 100 (C16)	Window / Door	Raw / Silver / White
Thermia [®] AR62 CE	37	90	130	Window / Door	Raw / Silver / White
Thermia [®] AR52 CE	27	90	130	Window / Door	Raw / White
Thermia® AF52 CE	27	90 (CE)	130 (CE) 100 (C16)	Window / Door	Raw / Silver / White
Thermia [®] AF35	8/21	90	130	Window	Raw / White



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:

- С Spectral adaptation term of the sound reduction index for incident pink noise, in dB.
- Ctr Spectral adaptation term of the sound reduction index for automobile noise, in dB.
- RA Global sound reduction index, A weighted, in dBA.
- RA,tr Global sound reduction index, A weighted, for automobile noise, in dBA.
- Rw Global sound reduction index, in dB.

ACOUSTIC INSULATION VALUES FOR WINDOWS with a surface area of up to 2.7 m ²											
Compo	sition	THERMIA® Series									
		CF31 /	/ CF40 / C	R31 / CR4	40 / CR46	/ ER52		AF52 / AF	R52 / AR6	2 / AR78+	
Туре	Thickness (mm)	Rw (dB)	C (dB)	Ctr (dB)	RA (dBA)	Ra,tr (dBA)	Rw (dB)	C (dB)	Ctr (dB)	RA (dBA)	Ra,tr (dBA)
	6	28	-1	-1	27	27	31	-2	-3	29	28
Disis sizes	8	29	-1	-2	28	27	32	-2	-3	30	29
Plain glass	10	29	-1	-2	28	27	33	-2	-3	31	30
	12	29	-1	-1	28	28	34	0	-2	34	32
	3+3										
	4+4										
Laminated glass (0.36	6+6	29	-1	-2	28	27	32	-1	-3	31	29
butyral)	8+8	29	-1	-2	28	27	33	-1	-3	32	30
	10+10	29	-1	-2	28	27	34	-1	-3	33	31
	4/(620)/4	27	-1	-2	26	25	32	-1	-5	31	27
	4/(620)/6	29	-1	-2	28	27	34	-1	-4	33	30
Insulated glass	4/(620)/8	29	-1	-2	28	27	34	-1	-4	33	30
units (air chamber measuring	4/(620)/10	29	-1	-2	28	27	35	-1	-4	34	31
6 mm to 20 mm)	6/(620)/6	28	-1	-2	27	26	33	-1	-4	32	29
	6/(620)/8	29	-1	-2	28	27	35	-1	-5	34	30
	6/(620)/10	29	-1	-1	28	28	35	-1	-3	34	32
Insulated glass	6/(620)/6+6	29	-1	-2	28	27	34	-1	-4	33	30
with laminated panes	6/(620)/10+10	-	-	-	-	-	36	-1	-4	35	32

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



International Distribution

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· El Salvador		
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· Costa Rica		

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