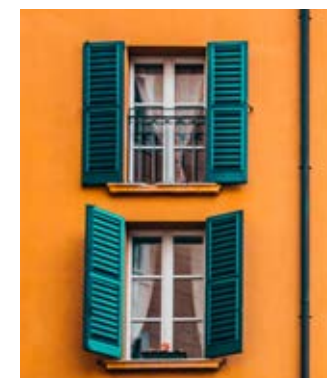
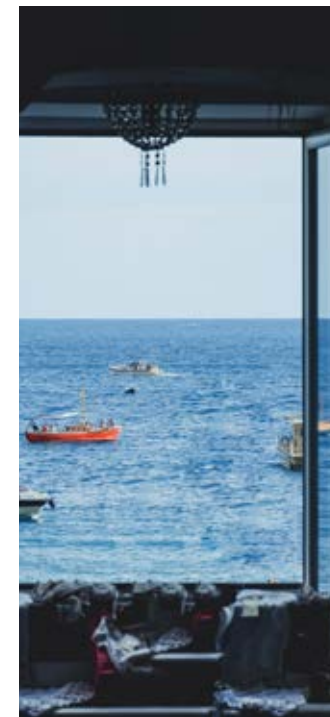
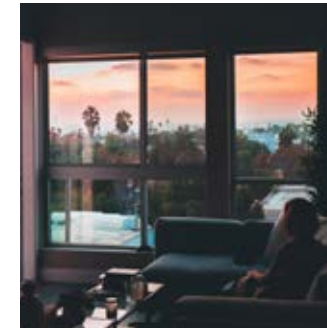
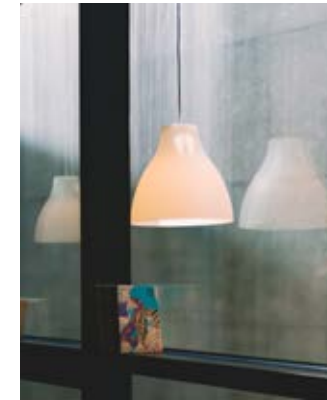
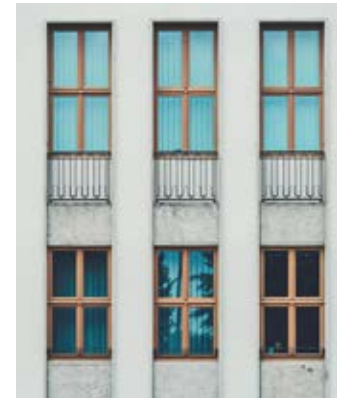




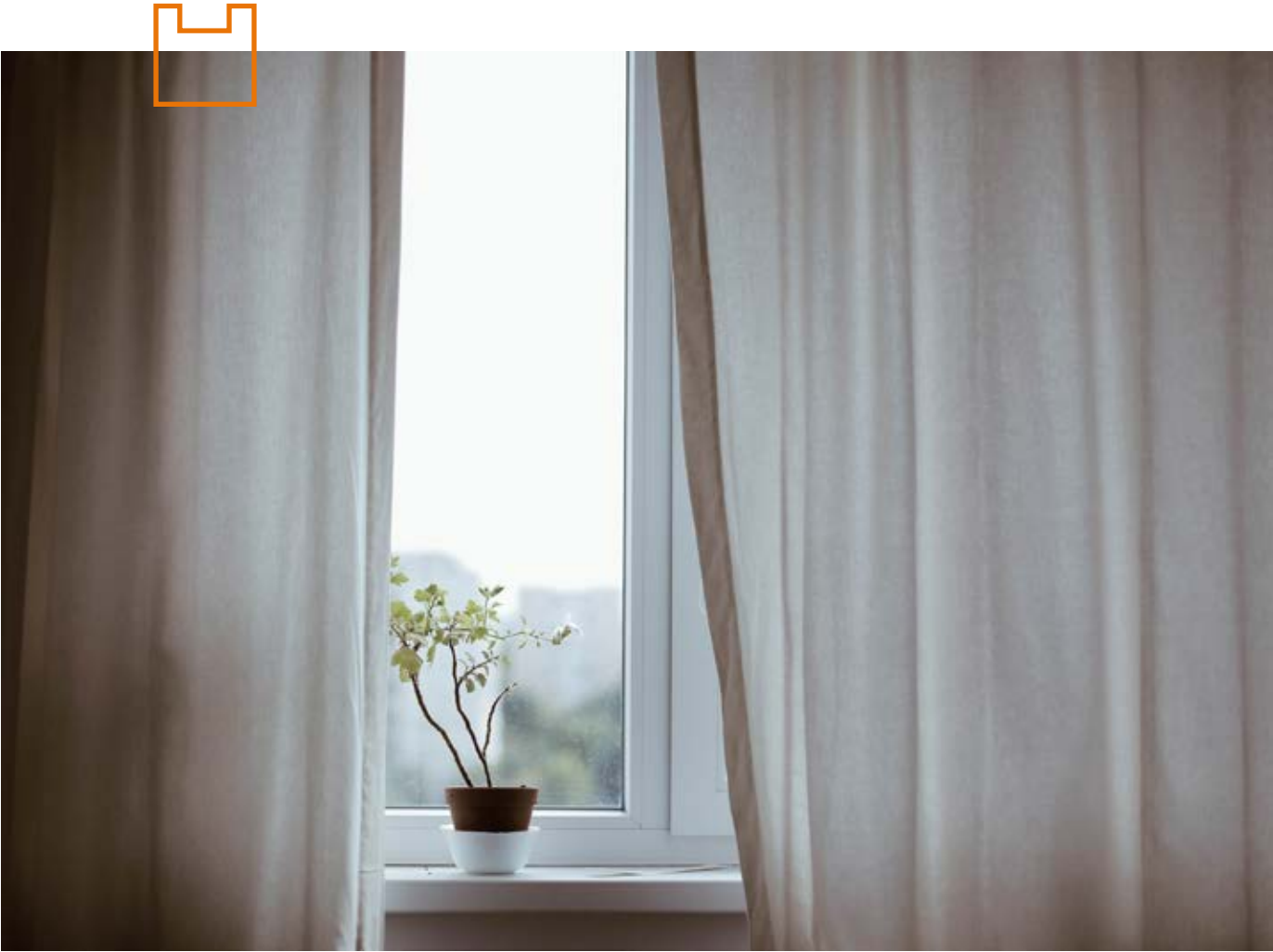
**Windows** for a **better life**

**TH**ERMIA®  
BARCELONA

Windows for a **better life**



“For us, **a window** is more than just a structure placed into 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

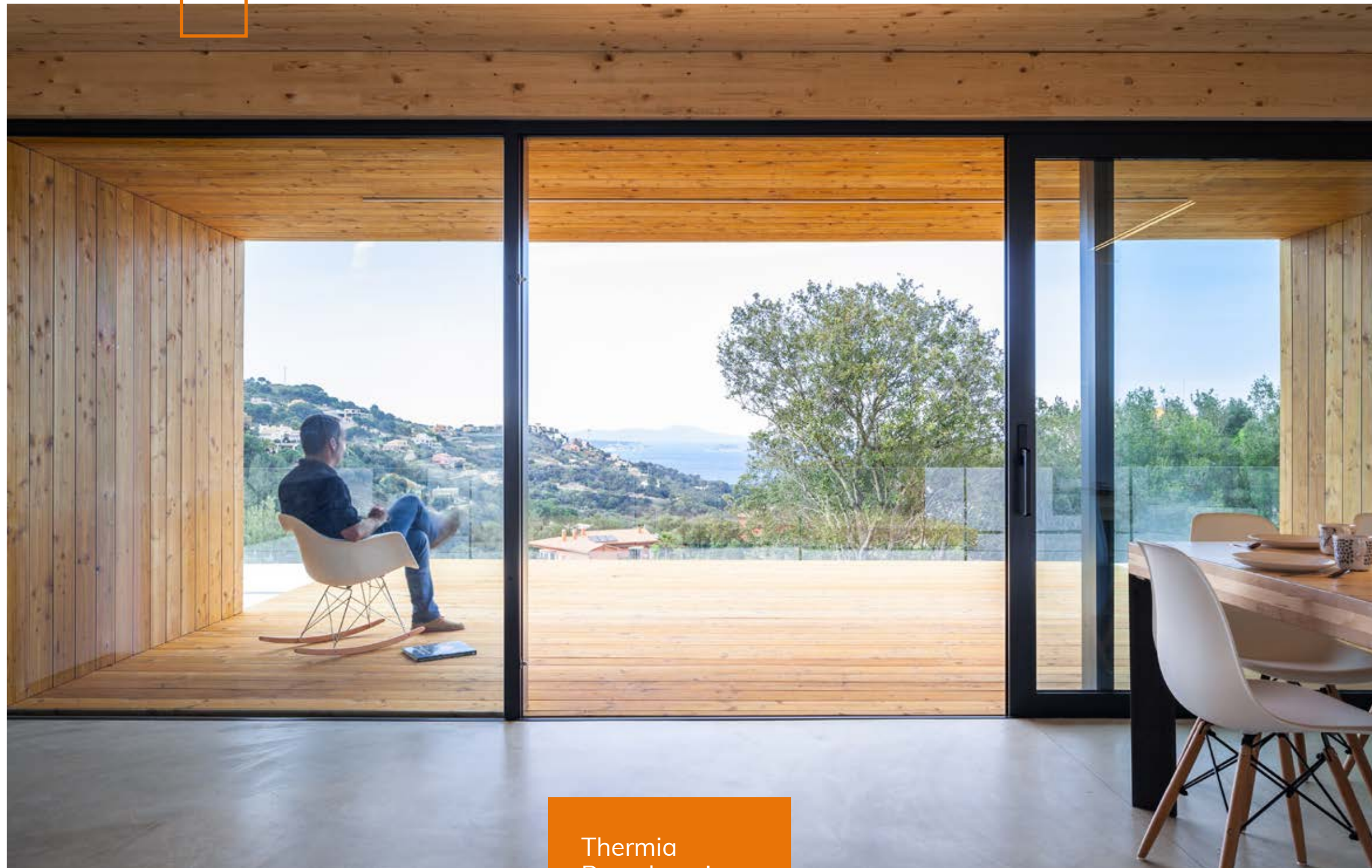
Windows for a better life

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Work: Genial Houses (Girona) | Architect: Ricard Turón | ©Images: Marc Torra Fragments.cat

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.

Windows for a better life

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.**

### 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-

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."

Committed, professional, leading-edge, 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.

Windows for a better life

Thermia Barcelona®



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

## In-house Technical Department



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

### QUALITY SEALS



### CERTIFICATION



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

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.



Design  
Comfort  
Silence

Windows for a better life

Thermia Barcelona®



More than 7000m<sup>2</sup>  
of space  
to serve our clients.

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

# 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.







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



### Hotel Aromar

Architect: XS arquitectes

Location: Costa Brava – Catalonia, Spain.

© Images Eugeni Pons. All rights reserved.



Design  
Comfort  
Silence

Windows for a better life

Works



**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



Casa RDP





Design  
Comfort  
Silence



WYNDHAM Hotel

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



WYNDHAM Hotel



Windows for a better life

Works



**Wyndham Hotel Quito International Airport**

Location: Mariscal Sucre Airport - Quito, Ecuador.  
Architect: Grupo Pronobis.







Klimt Building



Klimt Building

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



Klimt Building



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





Design  
Comfort  
Silence

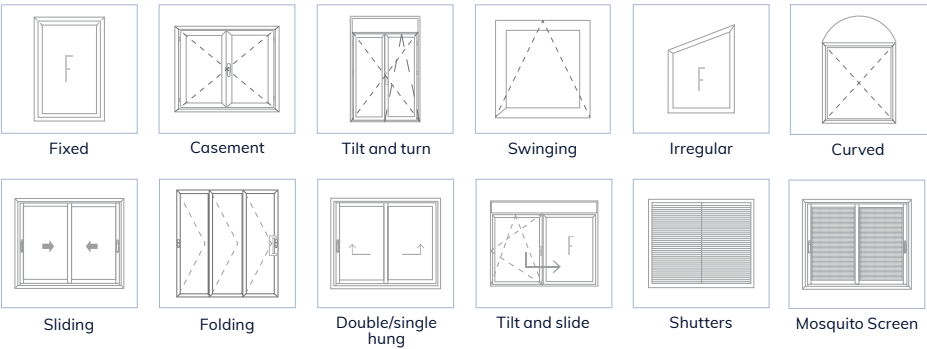


Windows for a better life

Thermia® windows

# 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.



Windows for a better life

Thermia® windows

# Accessories.

## Getting the details right.



**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 anti-corrosive coating.

**Folding handles**

Manufactured under the ISO 9001 seal. Tested for 25,000 cycles with cast aluminum and AISI 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**

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 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**

Made of cast aluminum and held with stainless steel screws, assuring protection against rust at the joints, where there the window is most exposed to water.

**Surface treatments**

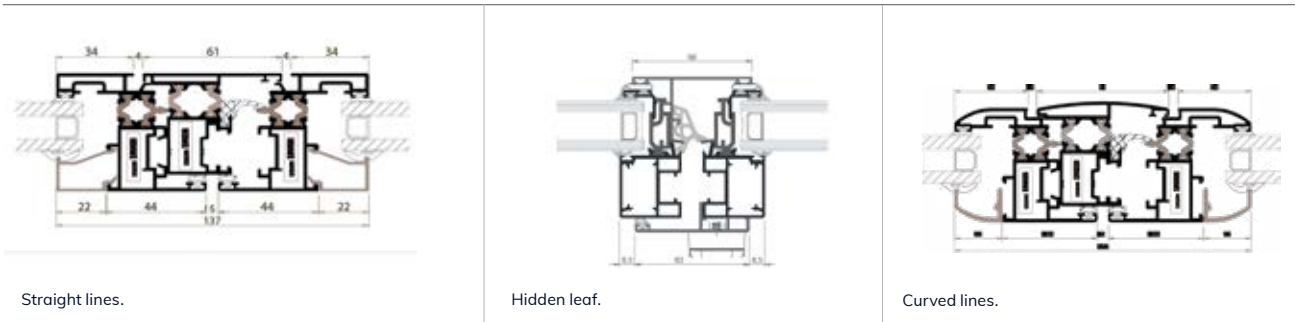
Based on testing in neutral salt-spray chamber as per standard EN 1670: 2007 with classes 4 and 5.

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.**

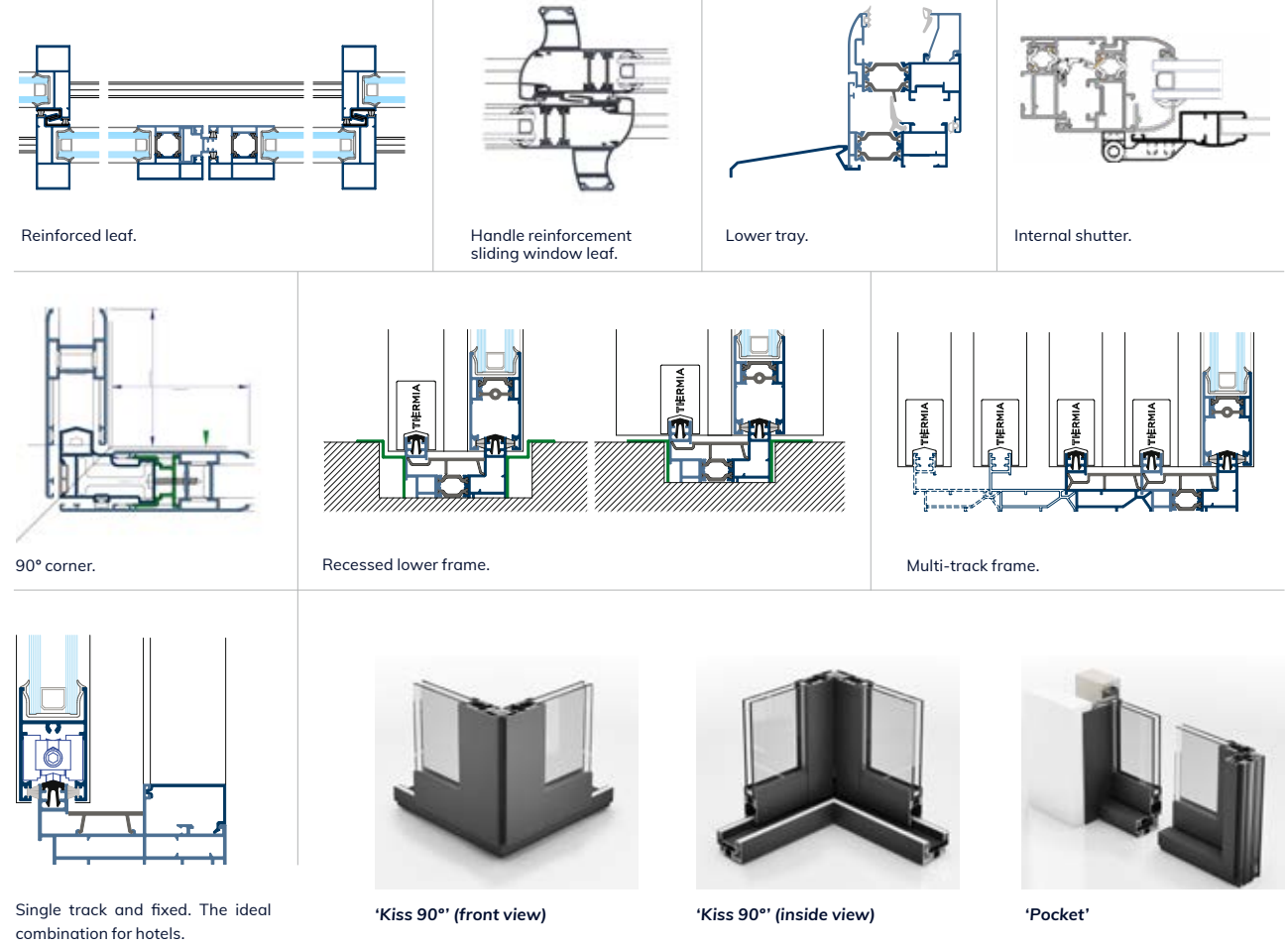
Every component of the window has undergone open-close cycle testing and corrosion measurement in a salt-spray chamber.



Esthetic solutions



Technical solutions





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'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.




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.


Windows for a better life




### Quality seals

























Qualanod seal for anodization  
License number: 1014

























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



Qualicoat seal for lacquer  
License number: 405

| Stantard price        |   | Glass | Matte | Texture |
|-----------------------|---|-------|-------|---------|
| RAL 1013 color cream  |    | ✓     | ×     | ✓       |
| RAL 1015 color cream  |    | ✓     | ✓     | ✓       |
| RAL 3005 color red    |    | ✓     | ✓     | ×       |
| RAL 5010 color blue   |    | ✓     | ×     | ✓       |
| RAL 5014 color blue   |    | ×     | ×     | ✓       |
| RAL 6005 color green  |    | ✓     | ✓     | ✓       |
| RAL 6009 color green  |    | ✓     | ✓     | ✓       |
| RAL 6021 color green  |    | ×     | ×     | ✓       |
| RAL GRAFIT color gray |    | ×     | ✓     | ×       |
| RAL 7012 color gray   |  | ✓     | ✓     | ✓       |
| RAL 7015 color gray   |  | ×     | ×     | ✓       |
| RAL 7016 color gray   |  | ✓     | ✓     | ✓       |
| RAL 7022 color gray   |  | ✓     | ✓     | ✓       |
| RAL 7024 color gray   |  | ✓     | ×     | ✓       |
| RAL 7031 color gray   |  | ×     | ×     | ✓       |
| RAL 7035 color gray   |  | ✓     | ✓     | ✓       |
| RAL 8014 color brown  |  | ✓     | ✓     | ✓       |
| RAL 8017 color brown  |  | ✓     | ✓     | ✓       |
| RAL 8019 color brown  |  | ✓     | ✓     | ✓       |
| RAL 9010 color white  |  | ✓     | ✓     | ✓       |
| RAL 9011 color black  |  | ✓     | ✓     | ✓       |
| RAL 9016 color white  |  | ×     | ✓     | ✓       |

| Thermia® windows |   |       |          |         |
|------------------|---|-------|----------|---------|
| Special price    |   | Glass | Matte    | Texture |
| Cobre óxido      |    | ×     | ×        | ✓       |
| Noir 100 sable   |    | ×     | ×        | ✓       |
| Noir 200 sable   |    | ×     | ×        | ✓       |
| Brun 650 sable   |    | ×     | ×        | ✓       |
| Blue 600 sable   |    | ×     | ×        | ✓       |
| Gray 150 sable   |    | ×     | ×        | ✓       |
| Wood price       |   | Glass | Texture  |         |
| Pino envejecido  |    | ×     | ✓        |         |
| Sapelli caoba    |    | ✓     | ✓        |         |
| Roble golden     |   | ×     | ✓        |         |
| Pino nudo        |  | ✓     | ✓        |         |
| Castaño oscuro   |  | ✓     | ✓        |         |
| Embero dorado    |  | ×     | ✓        |         |
| Nogal oscuro     |  | ×     | ✓        |         |
| Roble irlandés   |  | ×     | ✓        |         |
| Fresno           |  | ×     | ✓        |         |
| Wenge            |  | ✓     | ✓        |         |
| Nogal andaluz    |  | ✓     | ✓        |         |
| Cerezo claro     |  | ✓     | ✓        |         |
| Anodized price   |   | Matte | Polished |         |
| Teka             |  | ✓     | ✓        |         |
| Bronze           |  | ✓     | ✓        |         |
| Stainless steel  |  | ✓     | ✓        |         |
| Silver           |  | ✓     | ✓        |         |

























**Thermia Barcelona® series**  
Systems for aluminium windows

Windows for **a better life**

Our product series

|   |   |   |   |
|---|---|---|---|
|    |    |    |    |
| THERMIA® AF35 CE SERIES   | THERMIA® AF52 CE SERIES   | THERMIA® AR52 CE SERIES   | THERMIA® AR62 CE SERIES   |
|    |    |    |    |
| THERMIA® AR78+ CE SERIES  | THERMIA® AF52 C16 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 SERIES  | THERMIA® ER52 SERIES  |
|  |  |  |  |
| THERMIA® AF52M SERIES   | THERMIA® PM SERIES  | THERMIA® GR48 SERIES  | THERMIA® MQ22 SERIES  |



# Thermia® AF35 CE

Basic Casement Series

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



Allows multiple  
pane-opening  
systems.

Projecting  
Casement  
Tilt and turn  
Fixed structure



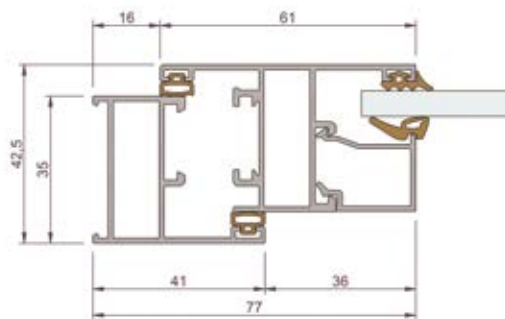
Acoustic attenuation up to 34 dB  
(Window size: 1230cm x 1450cm with acoustic laminated glass.)

## Thermia® AF35 CE 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 of Thermia® AF35 CE series



## 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



# The basic, effective window

Windows for a better life



Our product series

# 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 thickness             | 27 mm         |
| Maximum glass weight                | 90 Kg         |
| Tilt and turn leaf maximum weight   | 130 Kg        |
| 16 mm channel                       | Yes           |
| Available profiles                  | Window / Door |



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



Thermia® AF52 CE test results



Air permeability  
**4**



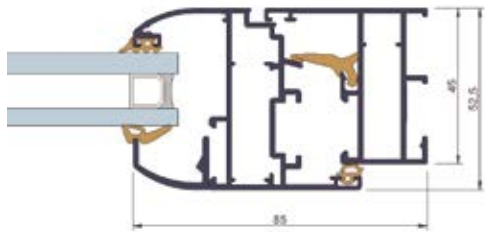
Watertightness  
**9A**



Wind resistance  
**C5**

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

Cross-section of Thermia® AF52 CE series



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

The silence that  
you have been looking for

Windows for a better life



# 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 thickness             | 27 mm         |
| Maximum glass weight                | 90 Kg         |
| Tilt and turn leaf maximum weight   | 130 Kg        |
| Available profiles                  | Window / Door |



Uw window = 1.56 W/mk²\*

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



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

Thermia® AR52 CE test results



Air permeability  
4



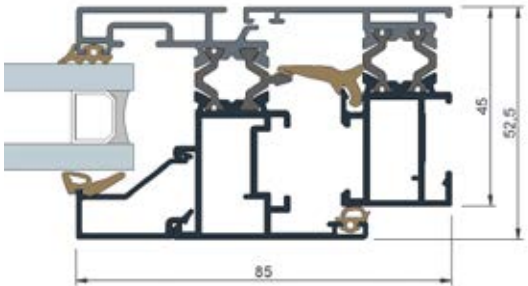
Watertightness  
Window: 9A Balcony door: 6A



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 of Thermia® AR52 CE series



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



# Thermal insulation and acoustic isolation for everyone

Windows for a better life



Our product 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 thickness             | 37 mm         |
| Maximum glass weight                | 90 Kg         |
| Tilt and turn leaf maximum weight   | 130 Kg        |
| Available profiles                  | Window / Door |



Uw window = 1.46 W/mk²\*

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



Acoustic attenuation up to 42 dB  
(Window size: 1230cm x 1450cm with acoustic laminated glass.)



CASEMENT / Thermia® AR62 CE

Thermia® AR62 CE test results

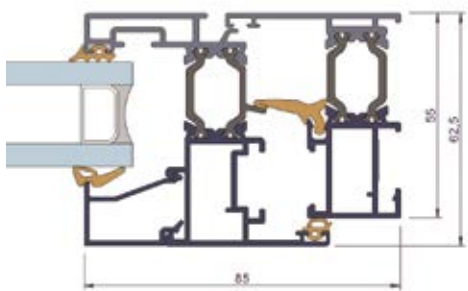
Air permeability  
**4**

Watertightness  
Window: **E1050** Balcony door: **8A**

Wind resistance  
Window: **C5** Balcony door: **C2**

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

Cross-section of Thermia® AR62 CE series



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

Guaranteed savings  
and well-being

Windows for a better life



# Thermia® AR78 CE

Extreme RPT Casement Series

| Technical features <b>Thermia® AR78 CE</b> |               |
|--|---------------|
| Thermal break                              | Yes / 24 mm   |
| Main frame                                 | 70 mm         |
| Main sash                                  | 78 mm         |
| Profile thickness                          | 1.5 / 1.8 mm  |
| Maximum glass thickness                    | 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/mk²\***

\* 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 CE test results



Air permeability  
**4**



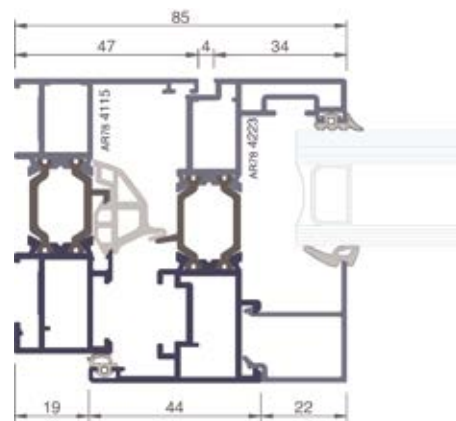
Watertightness  
**E1050**



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 of Thermia® series AR78 CE



## Quality seals



Qualanod seal for the anodization  
License number: 1014



Qualicoat seal for the lacquer  
License number: 405

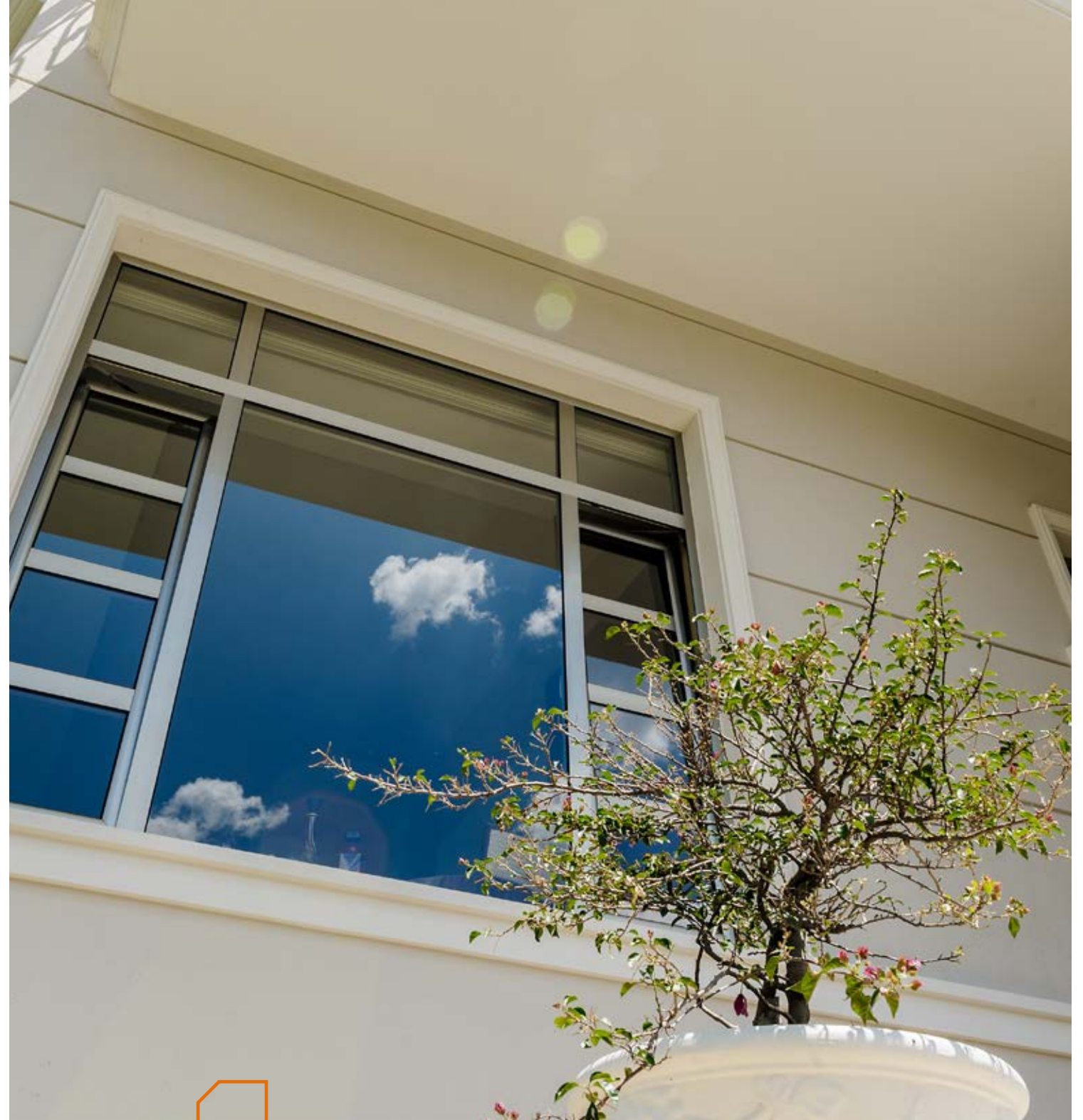


Qualideco seal for the imitation wood  
License number: ES-0009F

## Certification



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



# The solution for the most demanding clients

Windows for a better life



# Thermia® AF52 C16

Standard 16 Casement Series

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



39 dB

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

## Thermia® AF52 C16 test results



Air permeability  
**4**



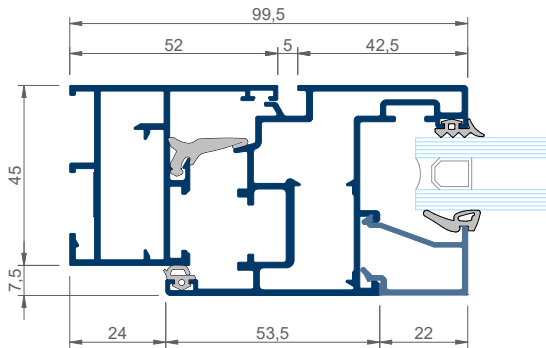
Watertightness  
Window: **7A** Balcony door: **6A**



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 of Thermia® series AF52 C16



## 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

# Greater comfort with a simple system

Ventanas para vivir mejor



# Thermia® AR78+ C16

Extreme RPT 16 Casement Series

| Technical features <b>Thermia® AR78+ C16</b> |                     |
|--|---------------------|
| Thermal break                                | Yes / 24 mm         |
| Main frame                                   | 70 mm               |
| Main sash                                    | 78 mm               |
| Profile thickness                            | 1.5 / 1.8 mm        |
| Maximum glass thickness                      | 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/mk²\***

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



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

## Thermia® AR78+ C16 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 of Thermia® series AR78+ C16



## 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



# Maximum thermal insulation

Windows for a better life



# Thermia® OC78+ C16

Ocult RPT 16 Casement Series

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



Uw window = **1.47 W/mk²\***

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



Acoustic attenuation up to 41 dB  
(Window size: 1230cm x 1450cm with acoustic laminated glass.)

## Thermia® OC78+ C16 test results



Air permeability  
**4**



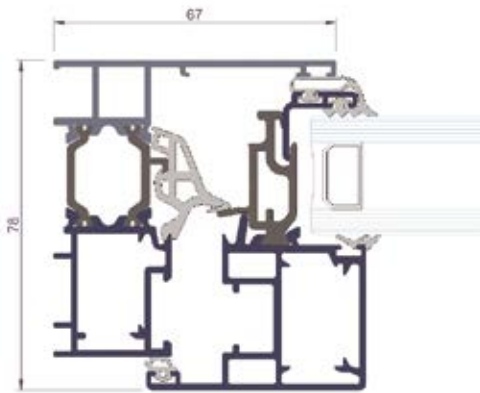
Watertightness  
**E1200**



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 of Thermia® series OC78+ C16



## Quality seals



Qualanod seal for the anodization  
License number: 1014



Qualicoat seal for the lacquer  
License number: 405

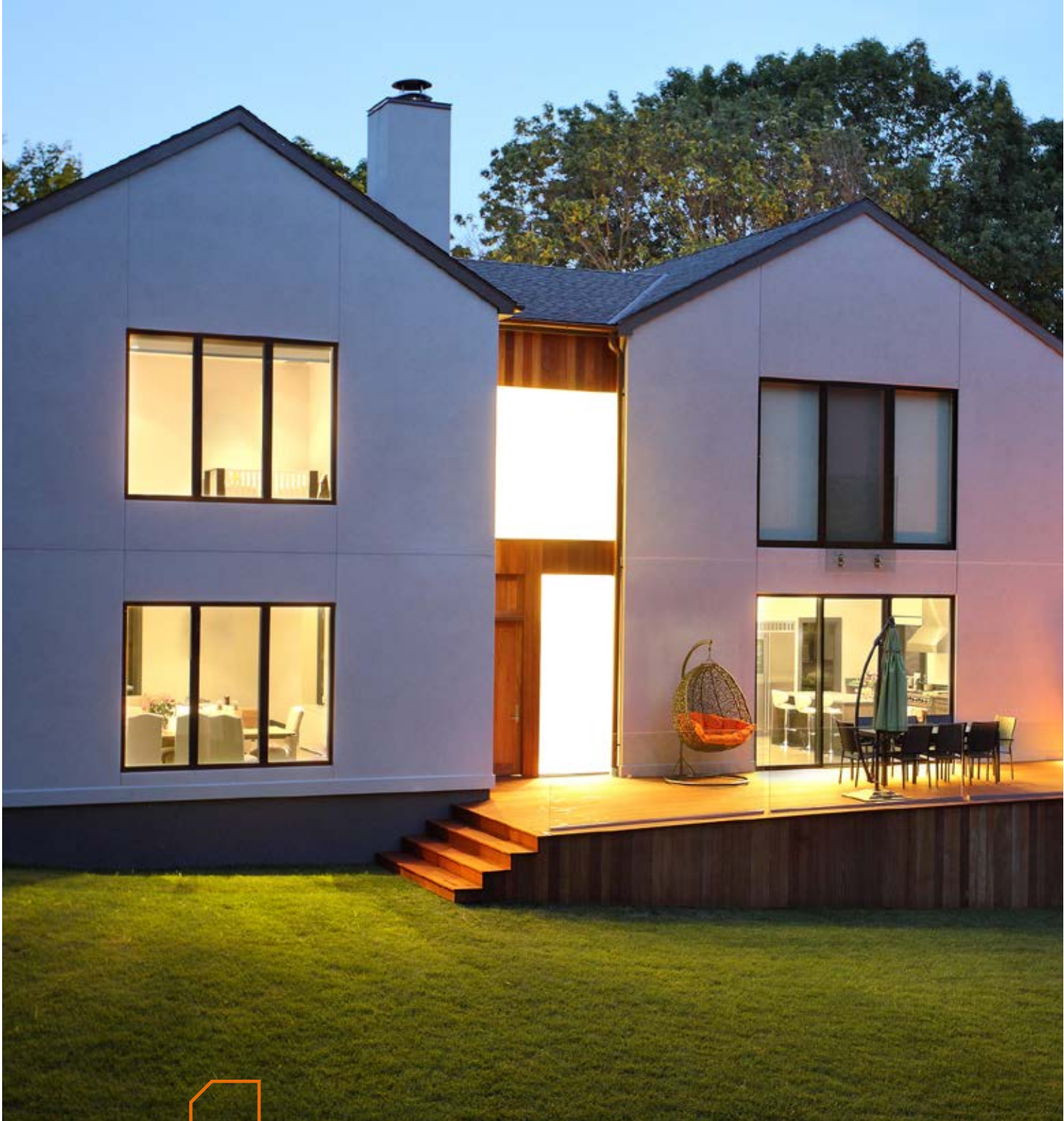


Qualideco seal for the imitation wood  
License number: ES-0009F

## Certification



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



More luminosity  
with a slim look

Windows for a better life



# 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 thickness          | 8 / 15 mm     |
| Maximum glass weight             | 80 Kg         |
| Track option                     | 2 tracks      |
| 90° frameless closure solution:  | No            |
| Available profiles               | Window / Door |



33 dB

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

### Thermia® CF22 test results



Air permeability  
2



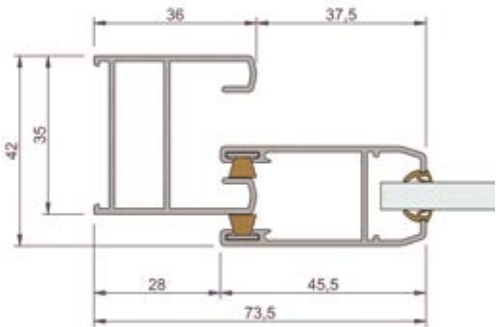
Watertightness  
C4



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 of Thermia® series CF22



### 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



# Design and comfort for everyone

Windows for a better life



# Thermia® CF26

Basic+ Sliding Series

| Technical features <b>Thermia® CF26</b> |                        |
|---|------------------------|
| Thermal break                           | No                     |
| Main frame                              | 65 mm                  |
| Main sash                               | 26 mm                  |
| Profile thickness                       | 1.3 mm                 |
| Maximum glass thickness                 | 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                     |



Acoustic attenuation up to 36 dB  
(Window size: 1230cm x 1450cm with acoustic laminated glass.)

### Thermia® CF26 test results



Air permeability  
**3**



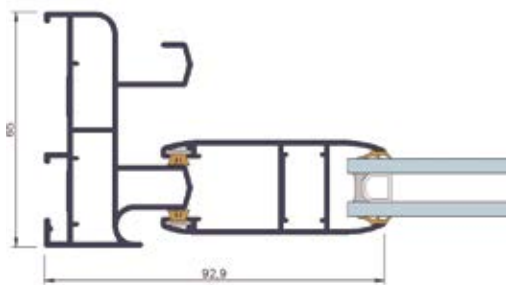
Watertightness  
Window: **5A** Balcony door: **3A**



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



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

### Certification



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



Extraordinarily versatile windows

Windows for a better life



# 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 thickness          | 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                    |



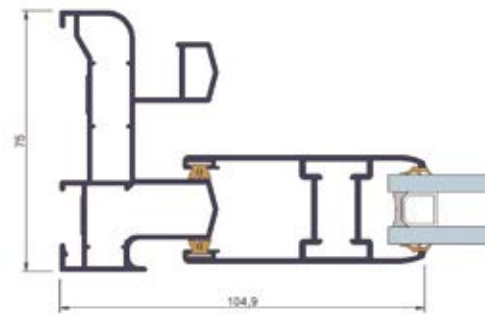
Acoustic attenuation up to 36 dB  
(Window size: 1230cm x 1450cm with acoustic laminated glass.)

Thermia® CF31 test results

-  Air permeability **3**
-  Watertightness  
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

Cross-section of Thermia® series CF31



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



Enjoy the outdoors  
without sacrificing silence

Windows for a better life



Our product series

# Thermia® CF40

Slim Sliding Series

| Technical features Thermia® CF40 |                       |
|----------------------------------|-----------------------|
| Thermal break                    | No                    |
| Main frame                       | Perimeter cut 65 mm   |
| Main sash                        | Straight cut 40 mm    |
| Profile thickness                | 1.4 / 1.6 mm          |
| Maximum glass thickness          | 28 mm                 |
| Maximum glass weight             | 160 / 200 kg          |
| Track option                     | 2, 3 or more tracks   |
| Available profiles               | Window / Balcony Door |
| Stock colors                     | White / Silver        |



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



SLIDING / Thermia® CF40

### Thermia® CF40 test results



Air permeability  
**4**



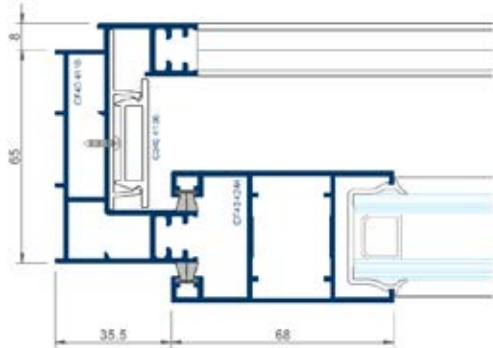
Watertightness  
**7A**



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 of Thermia® series CF40



### 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

Sliding windows  
that can do it all.

Windows for a better life



# 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 thickness          | 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                    |



Uw window = 1.79 W/mk²\*

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



37 dB

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

## Thermia® CR31 test results



Air permeability  
3



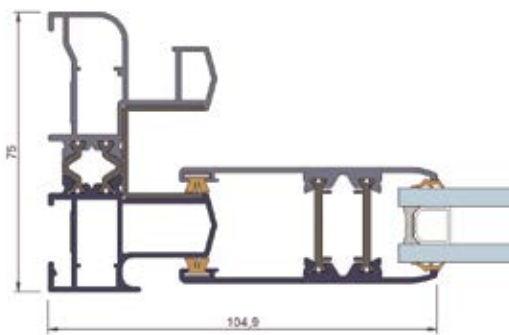
Watertightness  
Window: 6A Balcony door: 4A



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 of Thermia® series CR31



## 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



# Windows to bring together the outdoors and the indoors

Windows for a better life



# 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 thickness          | 28 mm                 |
| Maximum glass weight             | 160 / 200 Kg          |
| Track option                     | 2, 3 or more tracks   |
| Available profiles               | Window / Balcony Door |
| Stock colors                     | White / Silver        |



Uw window = 1.58 W/mk²\*

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



40 dB

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

## Thermia® CR40 test results



Air permeability  
4



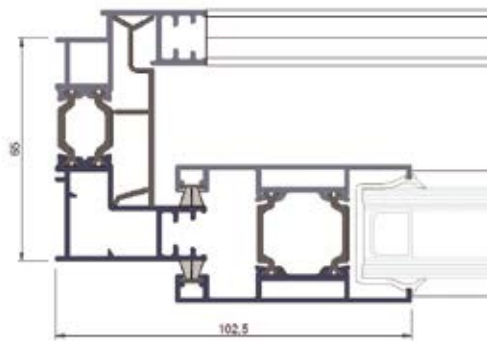
Watertightness  
6A



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 of Thermia® series CR40



## 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



# The perfect solution for today's architecture

Windows for a better life



# 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 thickness          | 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                    |



Uw window = **1.65 W/mk²\***

\* Based on EN 10077-02 3.6x2.6 balcony door glass Ug= 1.1 ψ= 0.053



Acoustic attenuation up to 41 dB  
(Window size: 1230cm x 1450cm with acoustic laminated glass.)

### Thermia® CR46 test results



Air permeability  
**4**



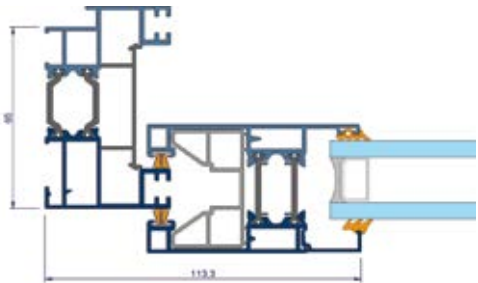
Watertightness  
**6A**



Wind resistance  
Window: **C5** Balcony door: **C1**

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



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



# The latest in window technology

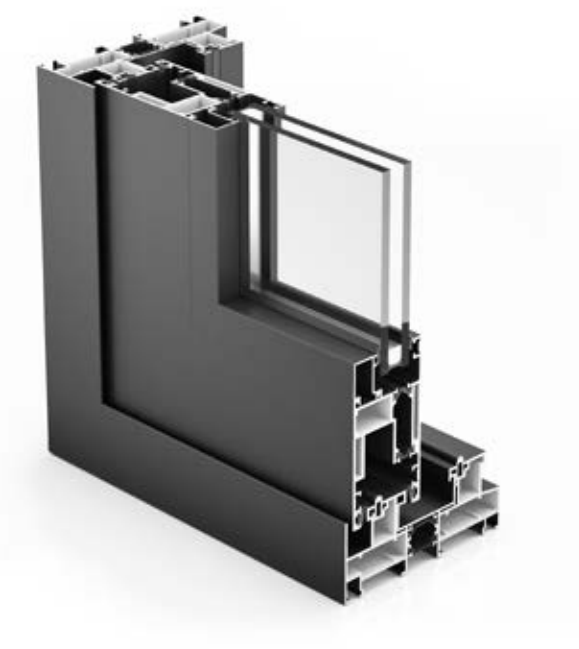
Windows for a better life



# 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 thickness          | 30 mm                 |
| Maximum glass weight             | 350 Kg                |
| Track option                     | 2 or 3 tracks         |
| Available profiles               | Window / Balcony Door |
| 90° frameless closure solution:  | No                    |



Uw window = 1.84 W/mk²\*

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



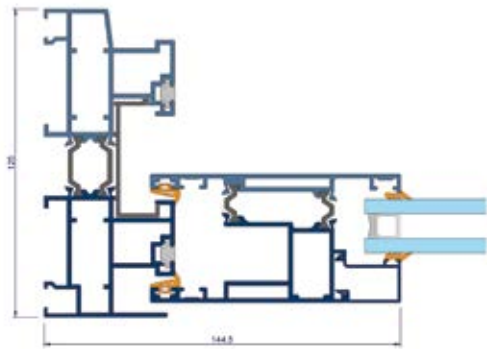
Acoustic attenuation up to 44 dB  
(Window size: 1230cm x 1450cm with acoustic laminated glass.)

### Thermia® ER52 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 of Thermia® series ER52



### 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



Size is not a problem

Windows for a better life



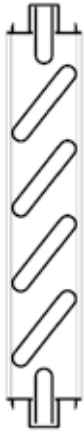
**Thermia® Shutter Series**  
with 4 kinds of slats and glass.

**Thermia® PM**

Sun & sight protection and security series

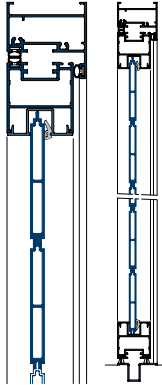
**Fixed slat shutter**

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.



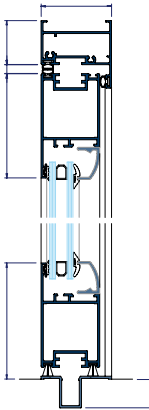
**Movable slats shutter**

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



**Glass slide & folding**

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



**Mediterranean style**  
Thermia® Shutter

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.

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.



Design  
Comfort  
Silence

# Thermia® PM

Sun & sight protection and security series

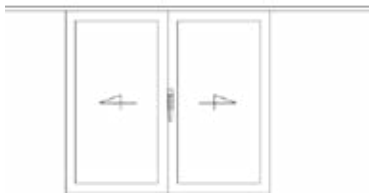
## Opening systems

### Sliding shutter system

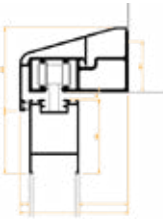
- The sliding shutter is the perfect solution for sun protection on the facade of a building. Its lateral movement allows for the fabrication of 1, 2, or more panels, with multiple trucks.
- The wall guide is manufactured with a decorative cover for a more elegant look.
- The ability to slide all the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



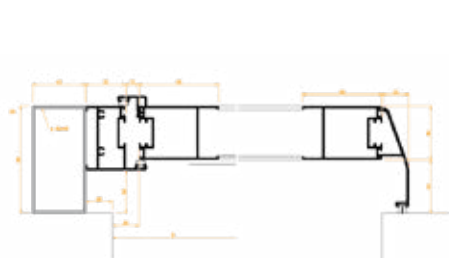
Single panel



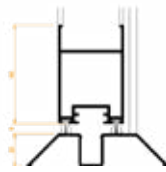
Double panel



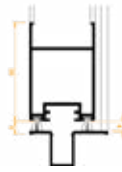
Wall guide with decorative cover



Cross-section single panel



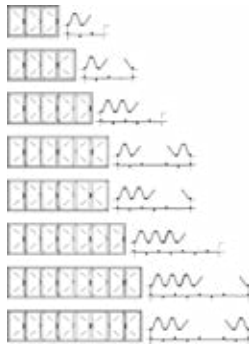
Overlapping lower guide



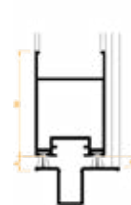
Embedded lower guide

### Folding shutter system

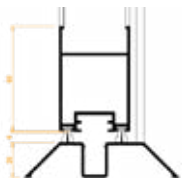
- The ideal closure for restaurants, bars, pool areas, meeting rooms, etc.
- Either glass or slats can be mounted in its frames.
- Multiple combinations (Fig. 1)



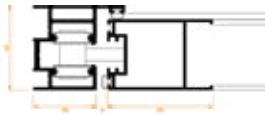
(Fig. 1)



Recessed lower guide



Overlapping lower guide



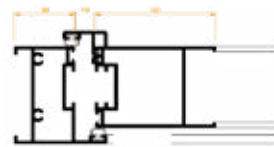
Upper ceiling guide



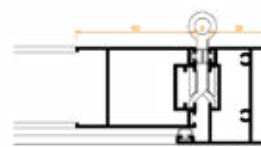
## Windows for a better life

### Casement shutter system

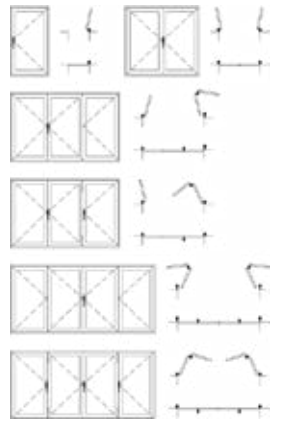
- The frame rotates to an open position on a vertical axis, using hinges.
- Allows for up to 4 panels to be installed, with different opening solutions.
- Combinations (Fig. 2)
- The panes can open to the outside or the inside, as needed.



Cross-section single panel



Cross-section double panel



(Fig. 2)



The aluminum shutter serie is ideal for:

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





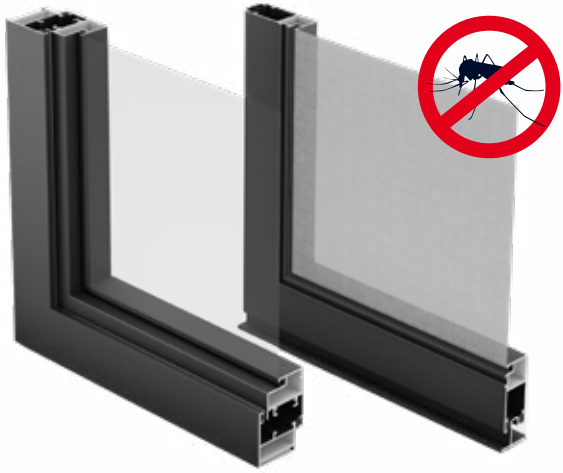
# Thermia® MQ22

Mosquitoes screen

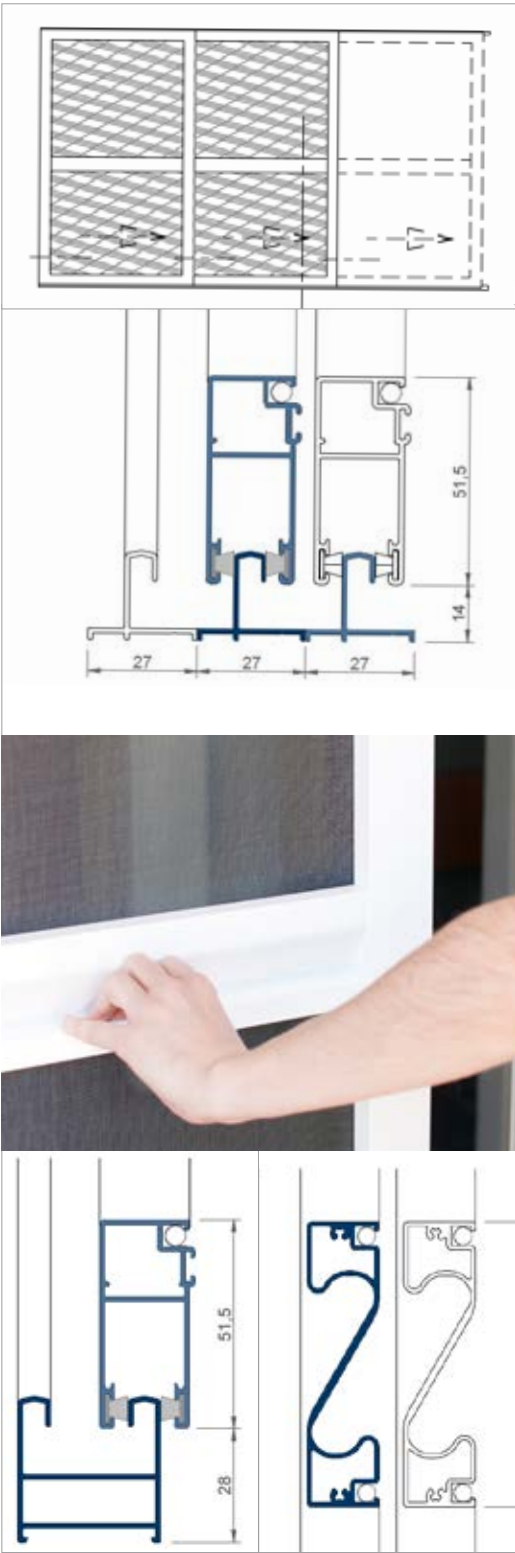
Insect protection series

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.



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.



### 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.

# Protection against insects.

Thermia® MQ22

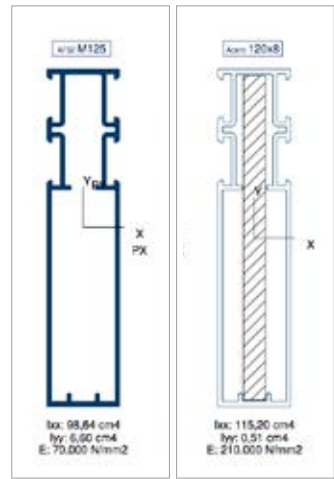


# Thermia® AF52M Mullion

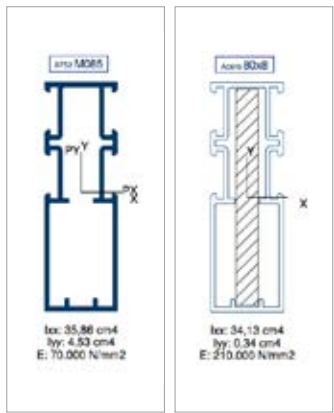
Light structural series

| Technical features <b>Thermia® AF52M - Mullion</b>  |
|---|
| 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. |

### Inertias

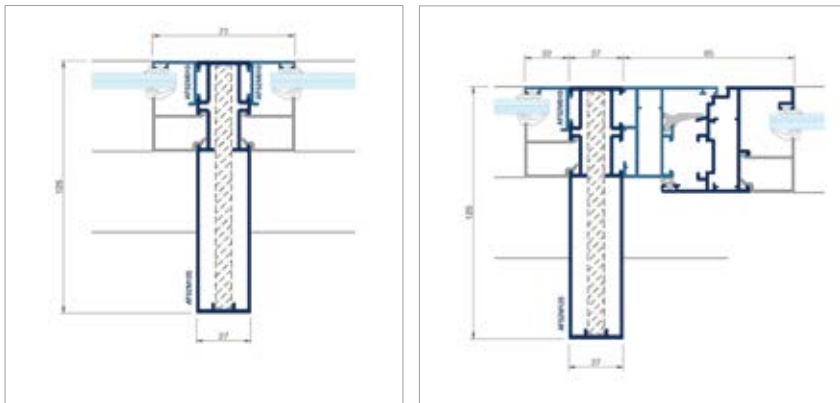


Non-reinforced Reinforced

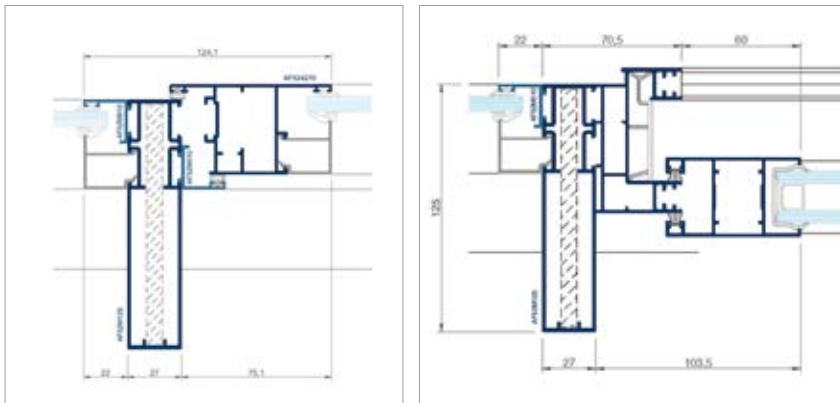


Non-reinforced Reinforced

### 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

### 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



# 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.



# Thermia® GR48

Glass rail series

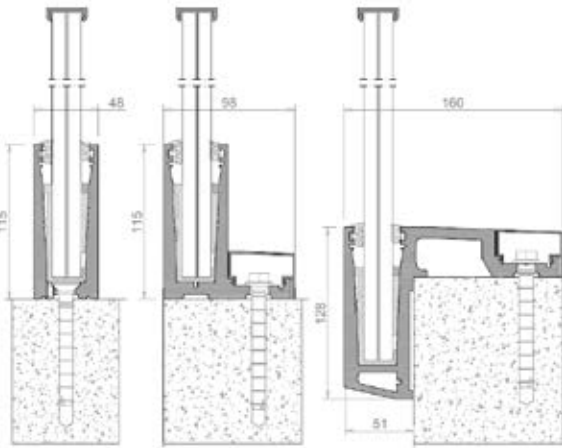


Tests

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)   |
|--|---|---|--|
|  | ✓ A,C1y2,D,G<br>(Shw. 243812)<br>(1100mm altuz) | ✓ C3y4,E,F<br>(Shw. 243812)<br>(1100mm altuz)<br>✓ A,C1y2,D,G<br>(Shw. 243812*)<br>(1100mm altuz) | ✓ C5 (Shw. 244388)<br>(1100mm altuz)   |
|  | ✓ A,C1y2,D,G<br>(Shw. 243812)<br>(1100mm altuz) | ✓ C3y4,E,F<br>(Shw. 243812)<br>(1100mm altuz)<br>✓ A,C1y2,D,G<br>(Shw. 243812*)<br>(1100mm altuz) | ✓ C3y4,E,F<br>(Shw. 243812)<br>(1100mm altuz)  |
|  | ✓ A,C1y2,D,G<br>(Shw. 243812)<br>(1100mm altuz) | ✓ C3y4,E,F (Shw. 243812)<br>(1100mm altuz)<br>✓ A,C1y2,D,G<br>(Shw. 243812*)<br>(1100mm altuz)    | ✓ C5 (Shw. 244387)<br>(1100mm altuz)<br>✓ C3y4,E,F (Shw. 243812)<br>(1100mm altuz)<br>✓ A,C1y2,D,G<br>(Shw. 243812*)<br>(1100mm altuz) |
|  | ✓ A,C1y2,D,G<br>(Shw. 243812)<br>(1100mm altuz) | ✓ C3y4,E,F (Shw. 243812)<br>(1100mm altuz)<br>✓ A,C1y2,D,G<br>(Shw. 243812*)<br>(1100mm altuz)    | ✓ C3y4,E,F (Shw. 243812)<br>(1100mm altuz)   |

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



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



## Minimalist security

Thermia® GR48

Extrusion alloy  
- 6060.

State of supply  
- T6 - T66.

Dimensions  
- Profile depth 48 mm.  
- Cross-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.

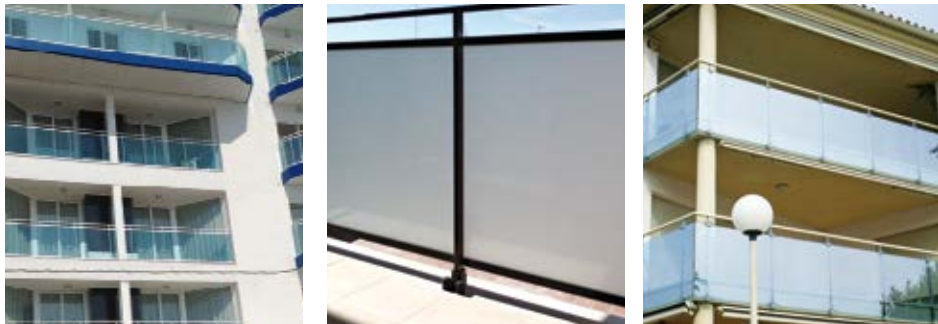
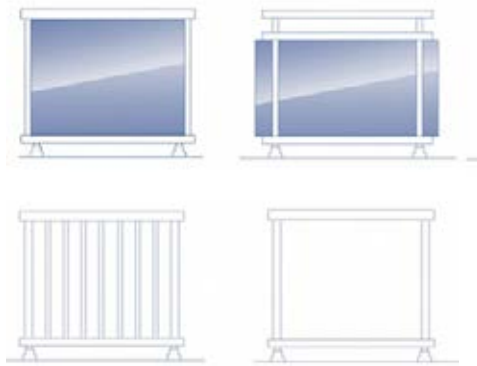
Windows for a better life



# Thermia® Railing

Railing series

Assembly options



## Safety and elegance

Thermia® Railing

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.

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

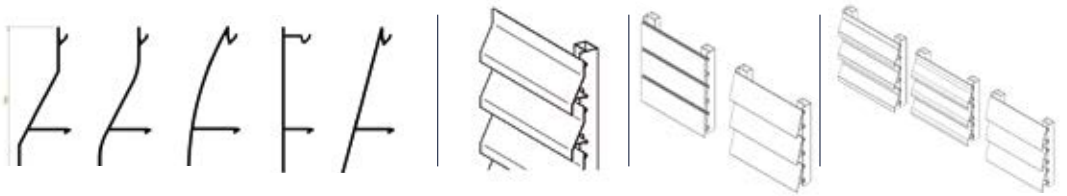
Windows for a better life

# Thermia® Louvers

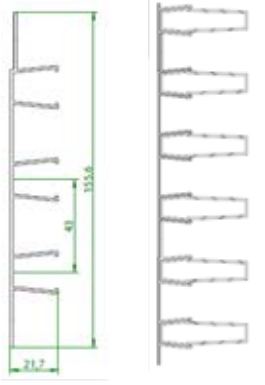
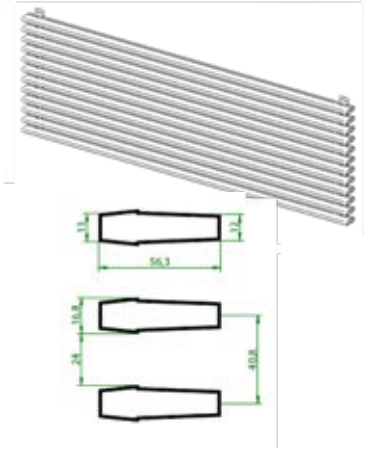
Solar protection series

Ventilation system with varying distances between slats.

- + -10 mm, 0 mm, 10mm.
- + Slat thickness 1.4 mm.
- + Clip fastening system.



VELAM LOUVRES



## Protection and ventilation

Thermia® Louvers

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.



Design  
Comfort  
Silence

# 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.



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.**

Windows for a better life

Manufacture or install Thermia® anywhere in the world

# 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.

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.

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



### Wholesale Thermia® windows manufacturers:

Service to all companies in the construction, architecture, and remodeling industries:





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.

Windows for a better life



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

Windows and energy efficiency

**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.

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.



# 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?

## Windows for a better life



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.

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-

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.



Design  
Comfort  
Silence

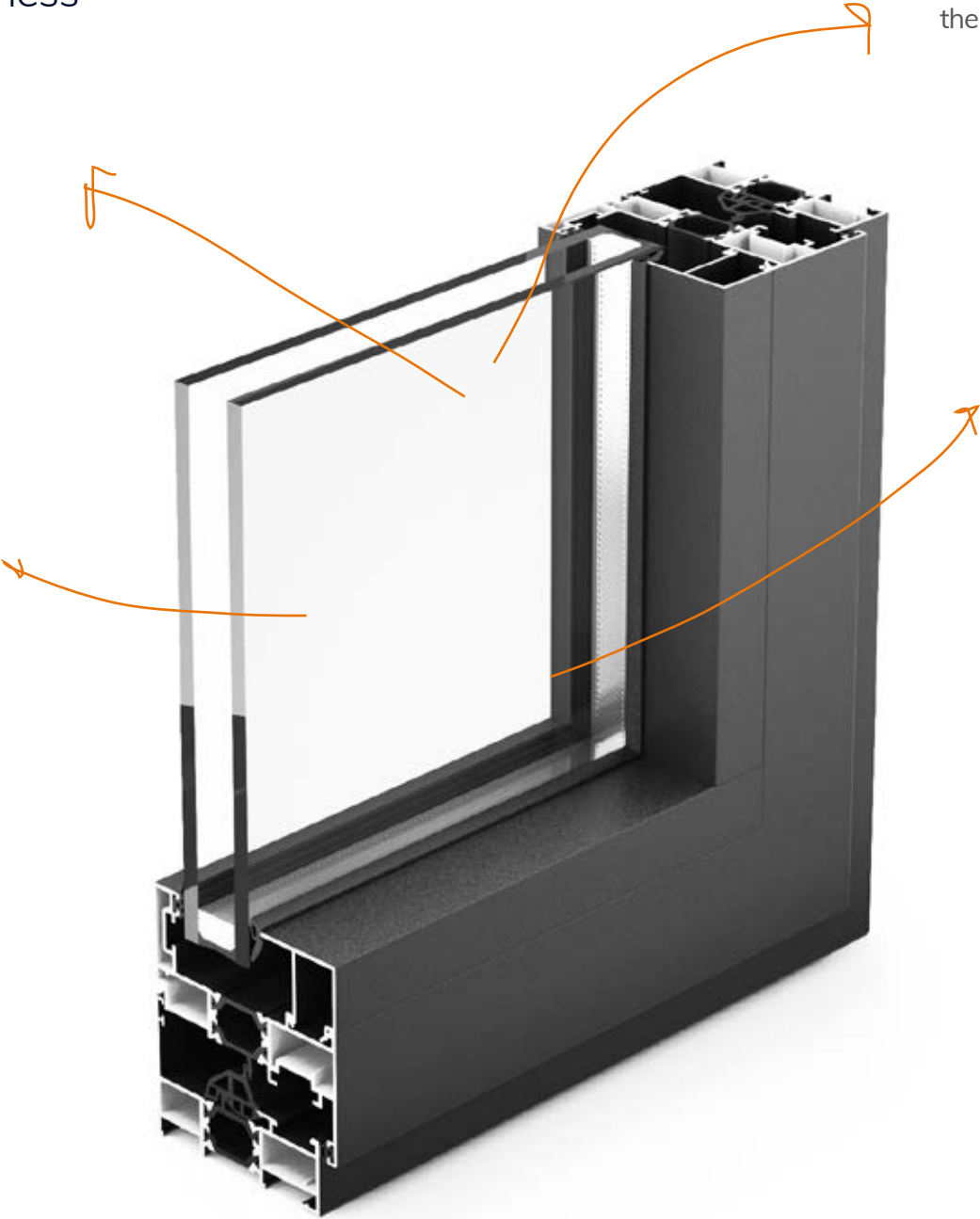
Windows for a better life

# 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) do not alter the acoustic properties.  
However, acoustic laminated glass attenuates more than the same thickness of float glass.

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



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).



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.

| 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.



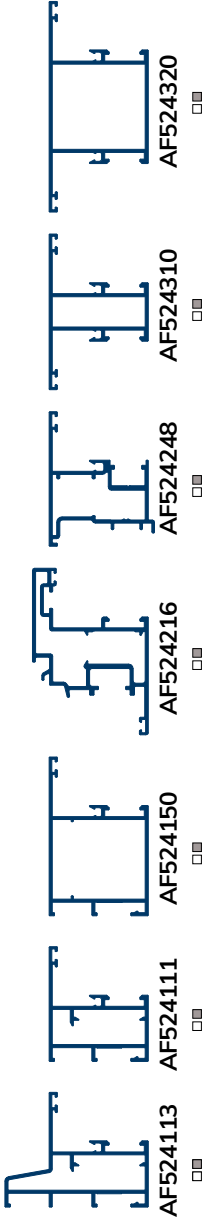
## ACOUSTIC NOISE TABLE

- 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.

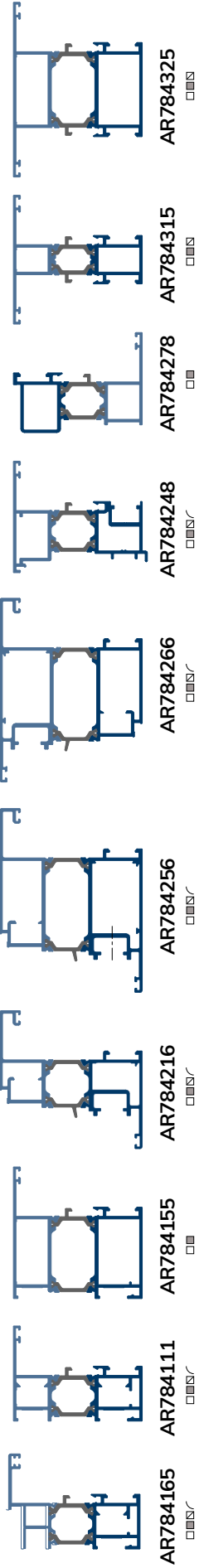


16 mm Cave series

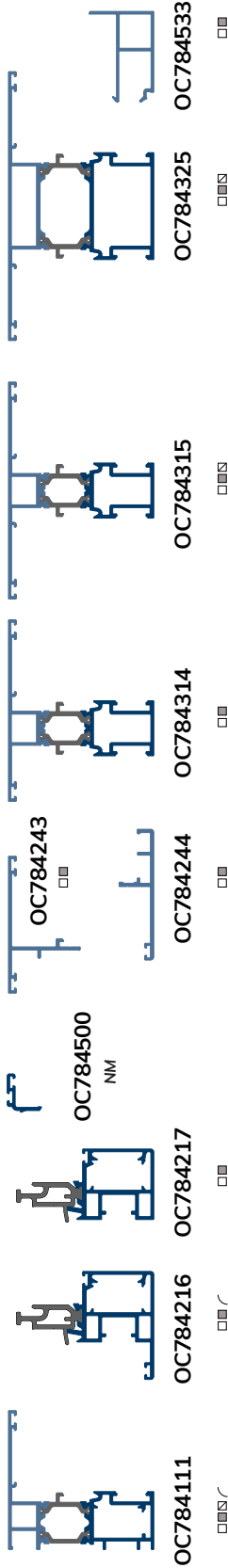
AF52



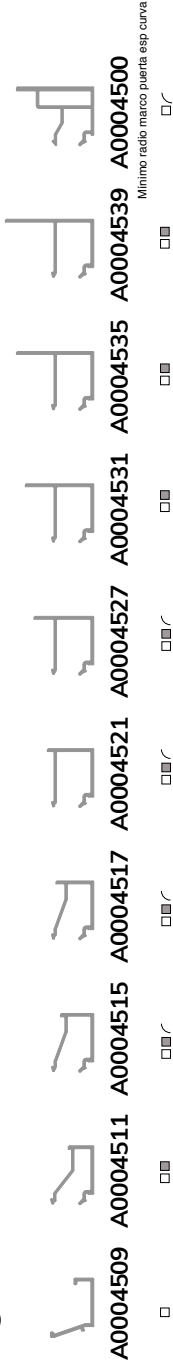
AR78+



OC78+



glazing beads



Key

- WHITE STOCK
- SILVER STOCK
- ∩ SUITABLE FOR CURVE

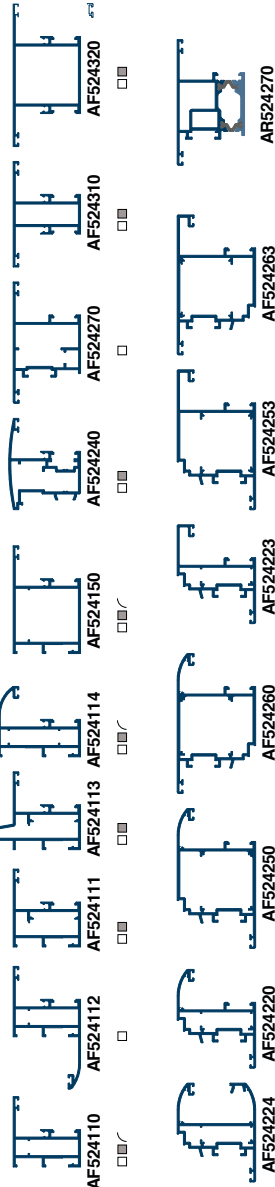
- ☒ TWO-COLOUR STOCK AVAILABLE
- ★ UNFINISHED UPON REQUEST
- ★★ UNFINISHED UPON REQUEST WITH MINIMUM (see number of bars).

- NB MATTE BLACK
- Unfinished available in all profiles except those marked with \* or \*\*

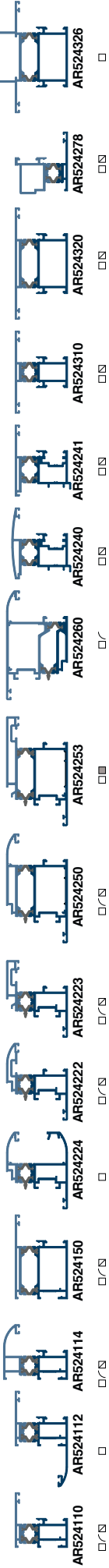
- △ Minimum measurements for curved profiles;
- Minimum radius of window frame AF52 / AR52 / AR62: 650
- Minimum radius of window frame AR78+ 600 mm
- Minimum radius of door frame for all series: 900 mm
- Minimum radius of window frame OC78+ 750 mm

Casement series

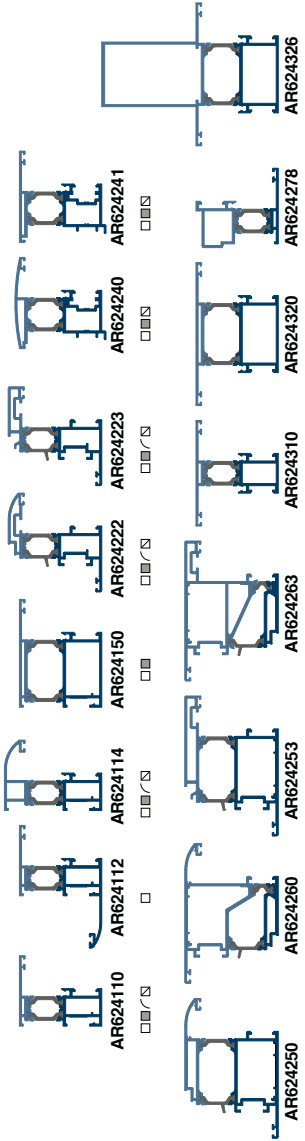
AF52 series



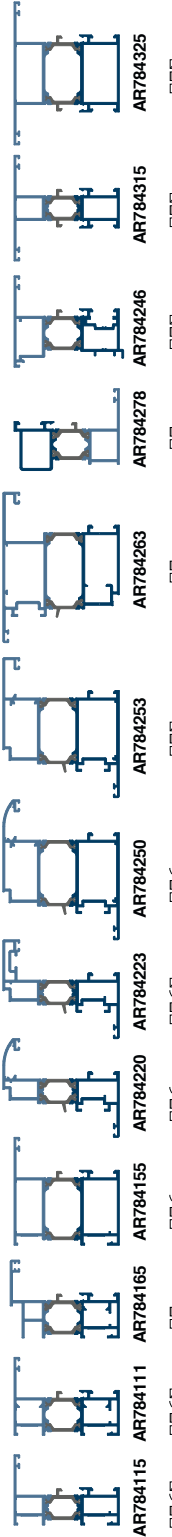
AR52 series



AR62 series



AR78+ series



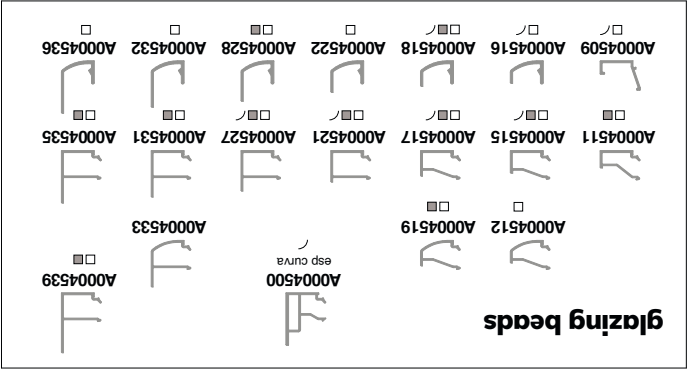
Key

- WHITE STOCK
- SILVER STOCK
- ∩ SUITABLE FOR CURVE

- ☒ TWO-COLOUR STOCK AVAILABLE
- ★ UNFINISHED UPON REQUEST
- ★★ UNFINISHED UPON REQUEST WITH MINIMUM (see number of bars).

- NB MATTE BLACK
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- △ Minimum measurements for curved profiles;
- Minimum radius of window frame AF52 / AR52 / AR62: 650
- Minimum radius of window frame AR78+ 600 mm
- Minimum radius of door frame for all series: 900 mm
- Minimum radius of window frame OC78+ 750 mm









Design  
Comfort  
Silence

# Technical charts of theThermia® systems



## Thermia® sliding series

| Series        | RPT Series | mm<br>Frame / sash<br>POLYAMIDE | Uw<br>WINDOW*<br>up to | mm<br>MAIN<br>FRAME | mm<br>MAIN<br>SASH | mm<br>PROFILE<br>THICKNESS | mm<br>MAXIMUM<br>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<br>GLASS WEIGHT<br>(kg) | 3 TRACK OPTION | 4 OR MORE<br>TRACKS | AVAILABLE<br>PROFILES | COLORS<br>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          |

Windows for a better life



## Thermia® casement series

| SERIES             | RPT Series | mm<br>POLYAMIDE<br>Frame / sash | Uw<br>WINDOW*<br>up to | mm<br>MAIN<br>FRAME | mm<br>MAIN<br>SASH | mm<br>PROFILE<br>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<br>GLASS (mm) | MAXIMUM GLASS<br>WEIGHT WITH<br>CASEMENT<br>GLASS SYSTEM (kg) | MAXIMUM GLASS<br>WEIGHT WITH<br>TILT AND TURN SYS-<br>TEM (kg) | AVAILABLE<br>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          |



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# 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.
- 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 m² |                 |   |        |          |          |             |                            |        |          |          |             |
|--|-----------------|---|--------|----------|----------|-------------|----------------------------|--------|----------|----------|-------------|
| Composition  |                 | THERMIA® Series                         |        |          |          |             |                            |        |          |          |             |
|  |                 | CF31 / CF40 / CR31 / CR40 / CR46 / ER52 |        |          |          |             | AF52 / AR52 / AR62 / AR78+ |        |          |          |             |
| Type   | Thickness (mm)  | Rw (dB)                                 | C (dB) | Ctr (dB) | RA (dBA) | RA,tr (dBA) | Rw (dB)                    | C (dB) | Ctr (dB) | RA (dBA) | RA,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 panes                                       | 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 RA and RAtr |
|---------------------|-----------------------------------|--|
|                     | 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
- Europe
- Africa
- Asia
- Peru
  - Ecuador
  - Chile
  - Colombia
  - El Salvador
  - Panama
  - Honduras
  - Costa Rica
  - Dominican Republic
- Spain
  - France
- Algeria
- India





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