



MAGNA

CONNECT WITH THE
OUTDOORS

High performance range of
sliding windows



THERMIA[®]
BARCELONA





Photograph for inner cover and back cover:
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**Design
Comfort
Silence**

An increasingly faster pace of life entails an inevitable disconnection with the outdoors and with nature. This is our energy source, our primordial home.

Connecting with nature means once again feeling calm, restoring a balance and achieving a sense of well-being. Nature is synonymous with recuperation.

If we provide our day-to-day life with views of the great outdoors, we will create a more harmonious, wholesome and peaceful mood.

Connecting with the great outdoors means connecting with your inner self

Feel the natural light

Natural light is a priority in modern architectural design, a subtle and invisible guiding principle that can create magical and vibrant natural settings.



Specialists know that well-being, comfort and health are all largely determined by the amount of natural light we are exposed to.

Design
Comfort
Silence



More natural light
More views of the outdoors
Larger dimensions
More insulation

Modern architecture has evolved towards simple shapes and asymmetric distribution, and away from facades which have now become glass surfaces allowing more natural light to enter the interior setting.

Thermia CR46 MAGNA® is an innovative, high-performance, insulating sliding window system, allowing the creation of structures with large dimensions and meeting the latest architectural demands in which natural light plays a pivotal role.

Slender
and minimalist lines



The Thermia CR46 **MAGNA** is a high-performance sliding window, designed to guarantee maximum thermal and acoustic benefits.

The anatomy of the Thermia CR46 MAGNA

Able to support the weight of glass up to **300 kg** per leaf

Maximum glazing width 34 mm

The non-lift and slide mechanism makes it a more economical option for large openings



Minimalist look



Centre with less aluminium

Optional frameless 90° opening and closing



Thermia CR46 MAGNA

High-performance sliding SERIES

Technical features of the Thermia® CR46 MAGNA	
Thermal break	24 mm
Main frame	65 mm
Main leaf	46 mm
Maximum glazing width	34 mm
General thickness of the profiles	1.6 mm
Maximum leaf weight	up to 300 kg / leaf
Track option	2, 3 or more tracks
Available profiles	Window / Balcony Door
90° frameless closure solution	Yes

Window $U_w = 1,60 \text{ W/mK}^*$

Profile $U_f = 3,22 \text{ W/mK}^2$

* Based on EN 10077-02 Balcony Door 2800 x 2250 glass
Ug= 1.0 $\psi_g = 0.053$



Acoustic attenuation up to 38 dB with acoustic laminated glass of 44.A/cam/44.A composition (window measuring 1230 x 1450)

Thermia® CR46 MAGNA test results

	Air permeability	4
	Watertightness	7A
	Window wind resistance	C5
	Balcony door wind resistance	C3

Results of official tests performed on Ensatec document N° 250712 and on the basis of Annex E of standard EN 14351 - 1:2006+A2:2016



Detail of central profile



Quality seals



Qualanod seal for anodization
Licence number: 1014



Qualicoat seal for the lacquer
Licence number: 405



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

Certification



THERMIA BARCELONA
EN14351-1:2006+A2:2016

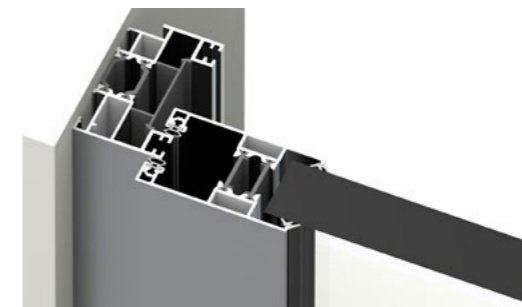
Structural solutions



2 leaves 2 tracks with central reinforcement



Joining of central leaves



Lateral joining of main frame and leaf



Multi-track frame with 4 tracks



Large central joining option

Small central joining option



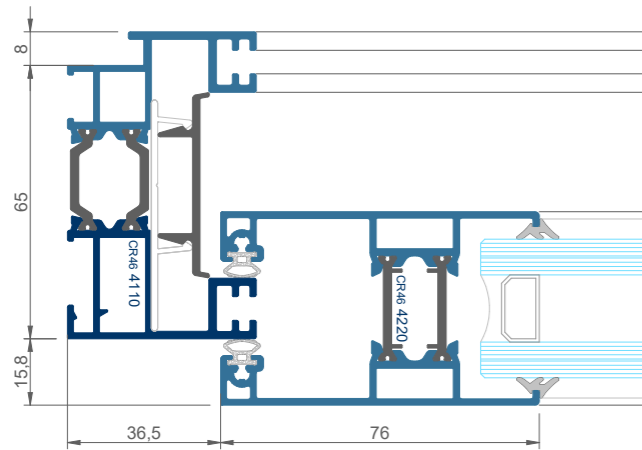
Central joining all around option



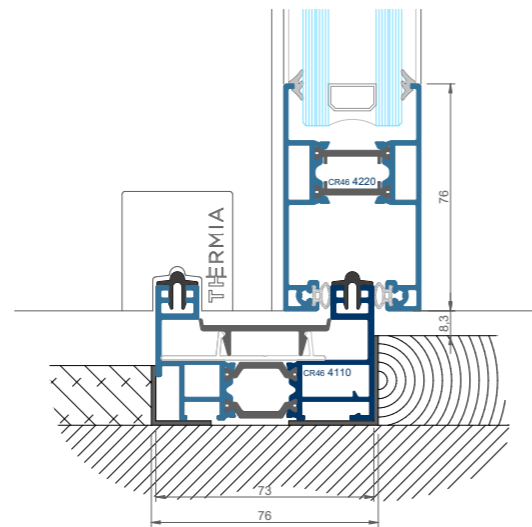
90° frameless joint

Structural solutions

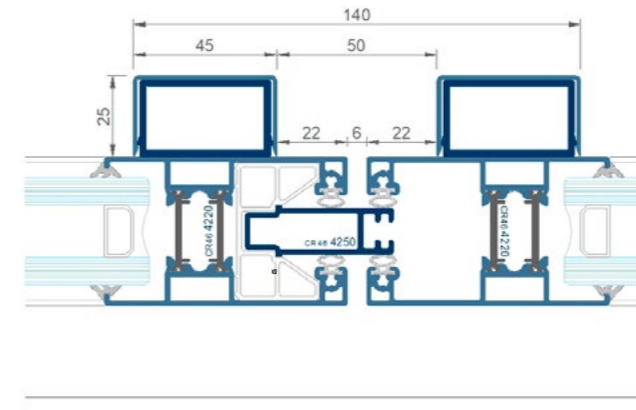
MAIN FRAME-LEAF SECTION



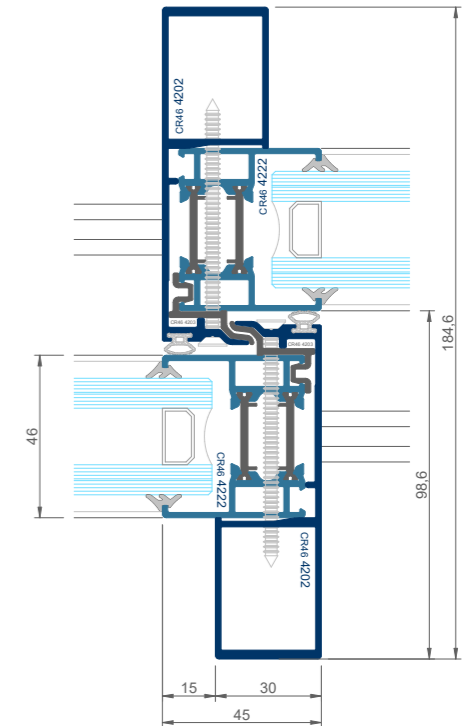
RECESSED MAIN FRAME



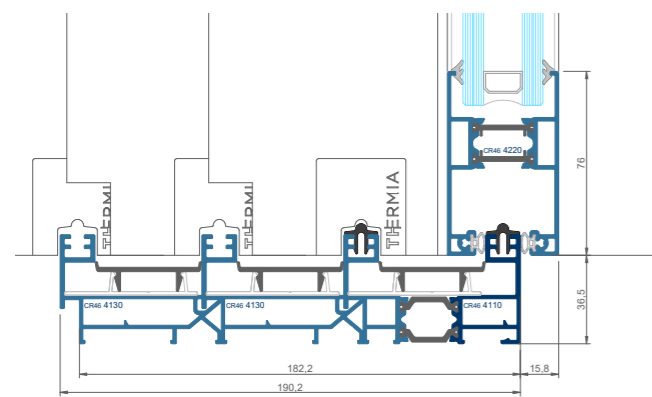
CENTRAL WITH 3 LEAVES



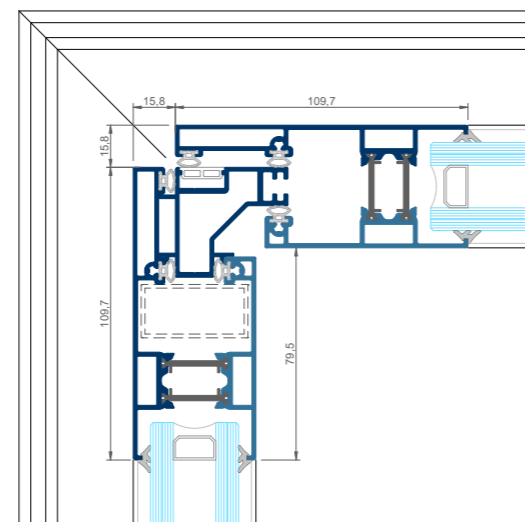
CENTRAL BALCONY DOOR (LARGE REINFORCEMENT)



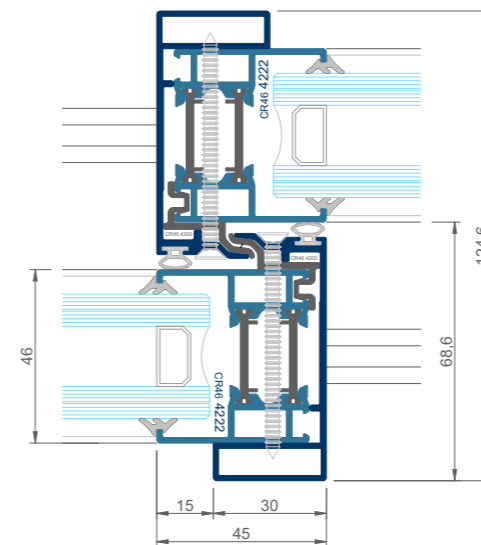
MULTI-TRACK FRAME FOR STRUCTURES OF +2 LEAVES



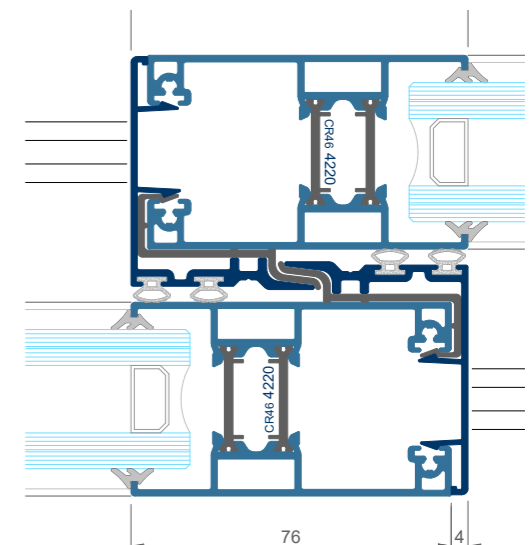
VERTICAL JOINT OF LEAVES AT 90° FRAMELESS



CENTRAL WINDOW (SMALL REINFORCEMENT)



100% PERMIETER BALCONY DOOR DOOR CENTRE



(cross-section drawing not to scale)

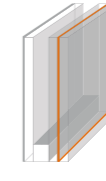
The Thermia CR46 **MAGNA** system is designed so that its architectural presence is subtle and favours aspects such as space, scale and light. However, its technology allows it to optimally perform its insulating and sealing functions.



Insulating technology



Double glazing with chamber

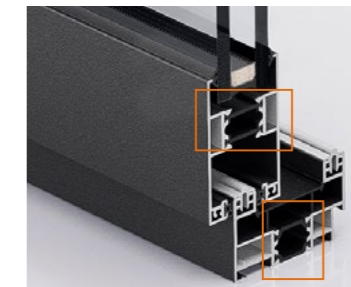


Double glazing with chamber and laminated glass panels

GLAZING

Its great glazing capacity facilitates the installation of high-insulating glass compositions.

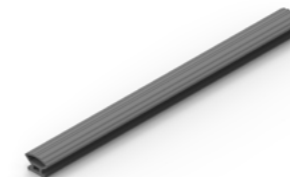
34 mm
Maximum insulating capacity



THERMAL BREAK (TB)

The thermal break design provides more thermal insulation.

24 mm
TB capacity



THERMOPLASTIC (TPE)

The rubber and sealing joints are made of TPE (thermoplastic elastomers), a class of polymer that produces materials with thermoplastic and elastomeric properties. These ensure the sealing properties of the windows for many years.

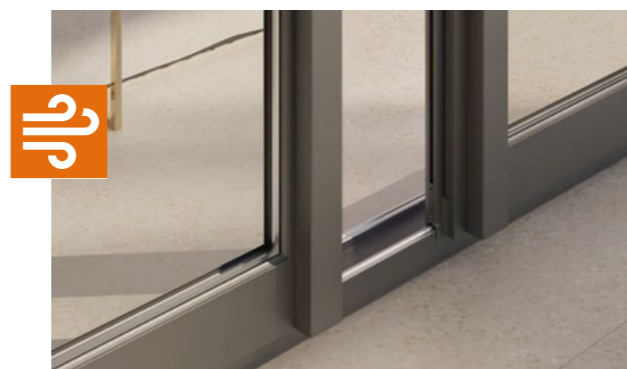
Functional design

Windows made to measure for their **users**

 Up to 300Kg / leaf



Jumbo tandem wheel
CR463786

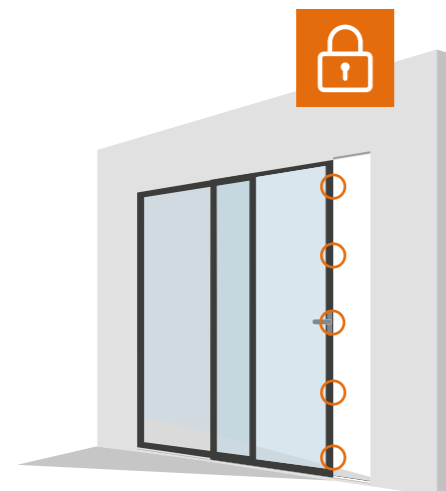


Up to 300 Kg / leaf

The double-tandem adjustable wheels support weights of **up to 300 kg per leaf**, facilitating both assembly and sliding of the leaf along the track.

The wind, **under control**

The MAGNA solution enables structures of great heights and widths to be created. That is why special emphasis is placed on the **reinforcement of the central and lateral leaf**. Thanks to its design we have achieved **improved inertia and wind resistance**.

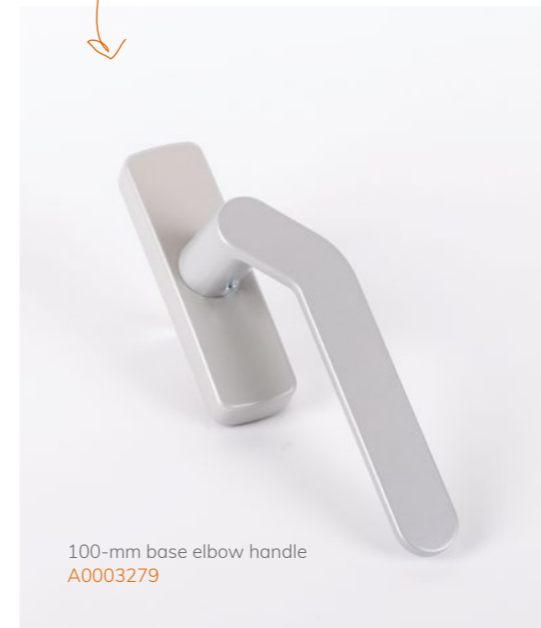


Maximum **security**

The series offers the multipoint locking system option. The locking points are located every 500 mm.

Beauty in the details

Choose between different aesthetics, colours and finishes



100-mm base elbow handle
A0003279

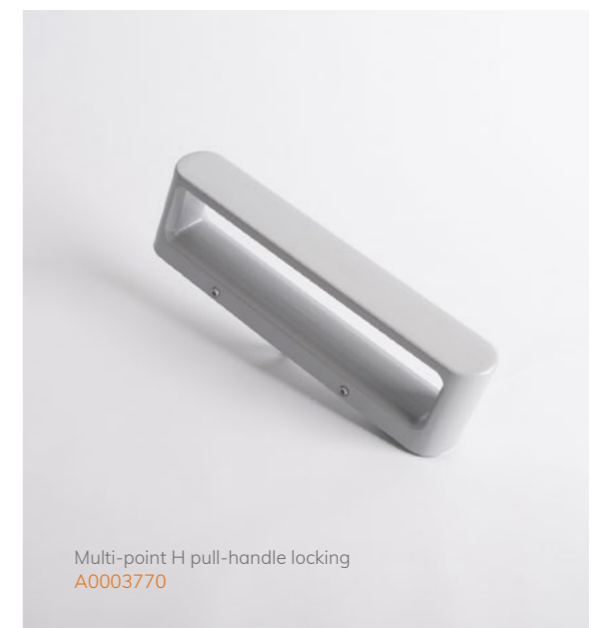


100-mm base Italia multi-point handle – long liftable handle
A0003285

Modern manoeuvrable fittings to accessorise a **great window**



Large-escutcheon central STAC
A0003277



Multi-point H pull-handle locking
A0003770

Integration with
our natural environment
makes for
true integration

Windows for a better life



THERMIA®

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