

MIXX WINDOWS

NC 65 STH

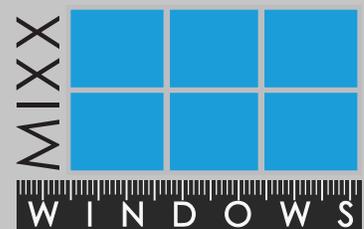


Window And Facade Solutions In

Aluminium | Alu Wood | Wood | Wood Aluminium | Bronze



METRA SpA
Italy

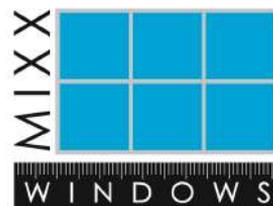




www.metra.it



METRA
Italian Style Emotions



NC 65 STH NC 65 STH-i

Caseament windows and doors





ONLY METRA OFFERS A COMPLETE RANGE OF PRODUCT

OUR CUSTOMER SERVICE: ALWAYS WITH YOU

We are at your side during each phase with our pre-sale and follow-up customer service: from choosing to installing your frames, from cleaning advice to the traceability of your frames' history.

DESIGN AND STYLE

METRA's window and door frames make up a wide range of aesthetic lines which add value to traditional and contemporary living spaces and preserve their original characteristics of buildings in conservative restorations. Our most contemporary creations provide more light to living spaces due to their tapered shapes and the minimum thickness of the profiles.

DESIGN COMPLEMENTS

METRA's design complements are offered in a range of coordinated lines distinguished by a unique style which are able to satisfy and harmonise the aesthetic requirements of any type of living space.

FINISHES

So many finishes, all extremely sturdy and chromatically surprising!

From metallic colours to sand effects ... right up to natural wood cladding with an aluminium heart

CHOOSE ALUMINIUM

Aluminium is becoming ever present in our lives: from cans to high-speed trains. Aesthetically pleasing, malleable, extremely resistant and 100% recyclable.

Aluminium is the ideal material for the creation of window and door frames.

GREEN

METRA operates at a low environmental impact and all its products are Green at the utmost degree.

METRA FRANCHISING

People can enter METRA franchises with a dream and make it come true.



Caseament windows and doors

NC 65 STH

NC 65 STH-i

Mechanical strength, resistance, sealing performance as well as thermal and acoustic insulation. NC 65 STH is a very complete system due to the possibility of creating large-sized windows. The system is also burglar-proof. NC 65 STH is the ideal way to immerse your life in design and well-being.

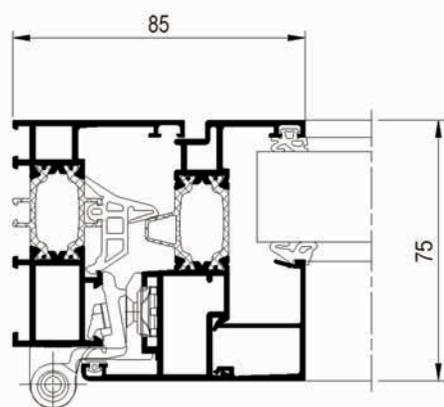
The NC 65 STH-i version possesses all the same features as the NC 65 STH series with the addition of a special insert in the thermal break profiles which further increases the already high thermal insulation performance, thus increasing energy saving.



Advantages

- Wide range of finishes
- Easy maintenance
- High-level design
- Various opening typologies
- Minimal amount of space
- Maximum thermal insulation - with the profile NC 65 STH-i the insulation can be increased
- Maximum acoustic insulation

Section NC 65 STH



Technical features

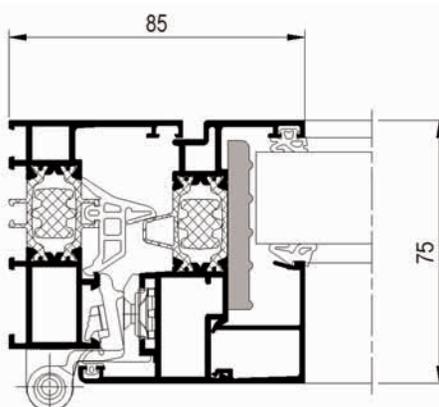
Base dimensions: from 65 to 85 mm

Air-water tightness: open joint (windows and casement doors)

Glass thickness: from 4 to 58 mm

Aesthetic lines: Piana, Sagomata, Raggiata, Ferro, Scomparsa, Classica, Stondata

Section NC 65 STH-i



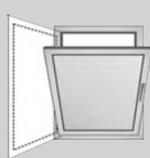
Opening typologies



Double side-hung casement



Single side-hung casement



Tilt and turn



Bottom-hung



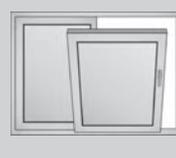
Horizontal pivot casement



Vertical pivot casement



Top hung casement



Tilt-and-slide

Finishes and coatings

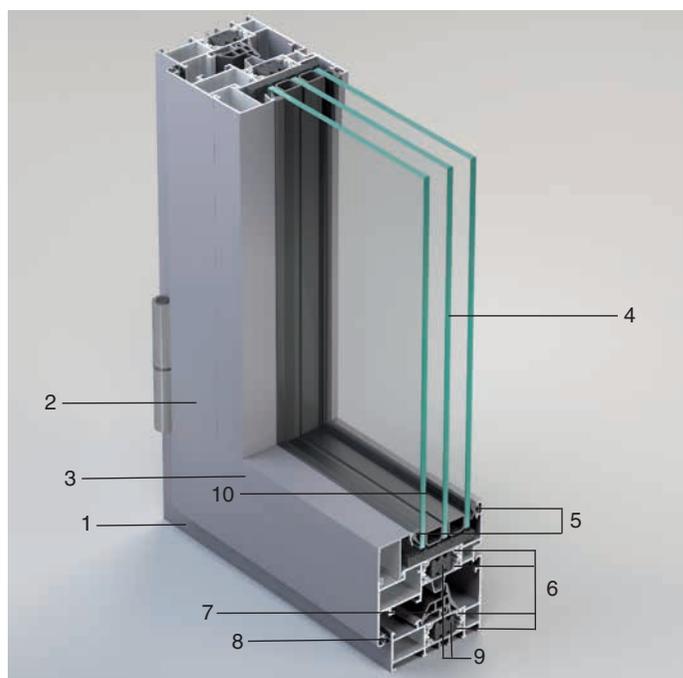
The surface finishing is made using natural pigments with zero environmental impact thus ensuring exceptional aesthetic results and durability such as mat, gloss and extra gloss anodised or sandeffect paint, fantastic to be seen and touched.

Design complements

Handles and hinges. The complements and accessories are suitable for all METRA systems. Contemporary shapes with unique and exclusive styles are designed to enhance every latest detail in all types of living space, combining aesthetics and functionality.



Technology



- 1 - Frame
- 2 - Sash
- 3 - Glazing bead available in different sizes depending on glass thickness
- 4 - Insulating glass with one air space (double glazing) or two air spaces (triple glazing)
- 5 - EPDM gasket for glazing
- 6 - Insulating bars made of polyamide 6.6 reinforced with 25% fibreglass
- 7 - Open joint tightness central gasket
- 8 - EPDM internal rabbet gasket
- 9 - Insulating bars which reduce the heat dispersion due to convection (NC 65 STH-i version)
- 10 - Under-glass insulating gasket

METRA Quality

Purchasing METRA trademark profiles and accessories gives the security of using materials that guarantee the highest performances and durability. METRA systems have been certified by the most important European test laboratories, reaching results at the highest levels.

Take no substitute, demand original profiles, easily recognizable by mark "M" present on the internal part of the windows and on each accessory.

Remember that the accessory is integrating part of the system and only with the original accessories marked METRA you can obtain high performances.

Moreover, METRA is one of the first Italian Companies which obtained a trademark on its products in order to recognize them easily and protect its customer.

The quality of METRA systems is also guaranteed by the European Trademark certified productive processes and by the Company quality system certified by RINA in conformity with standard ISO 9001:2008.



Certified performances

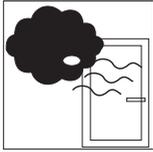


Water tightness EN 1027 - EN 12208

The METRA window or door has not had any seepage of water even with a wind pressure equal to a speed of 111,54 km/h (600Pa).

Air pressure applied km/h	(0Pa)	(50Pa)	(100Pa)	(150Pa)	(200Pa)	(250Pa)	(300Pa)	(450Pa)	(600Pa)	(900Pa)
	0	32,2	45,53	55,77	64,39	72	78,87	96,59	111,54	136,6
Class achieved	1A	2A	3A	4A	5A	6A	7A	8A	9A	E900

Capacity of the window or door to block seepage of water when it is struck by a water flow and there is a pressure difference between the internal and external side.

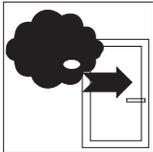


Air permeability EN 1026 - EN 12207

The METRA window or door was subjected to a wind pressure equal to a speed of 111,54 km/h (600Pa) and passed the test with positive results.

Air pressure applied	(150Pa)	(300Pa)	(600Pa)	(600Pa)
Class achieved	1	2	3	4

Characteristic of a closed vent to let air pass through when the internal and external pressures are mutually different; the smaller the volume dispersed, the greater the window or door quality.



Resistance to wind load EN 12211 - EN 12210

The METRA window or door was subjected to a wind pressure equal to a speed of 182,14 km/h (2000Pa) and passed the test without damage or permanent deformations.

Air pressure applied	(400Pa)	(800Pa)	(1200Pa)	(1600Pa)	(2000Pa)	(>2000Pa)
With deflection	A (1/150)		B (1/200)		C (1/300)	
Class achieved	1	2	3	4	5	Exxx

Capacity of a window or door subjected to high pressure and/or suction, such as those caused by wind, to remain within admissible deformation limits and to conserve its initial properties so as to ensure protection and safety to the users.

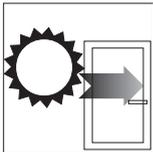


Soundproofing power EN ISO 140-3, EN ISO 717-1

METRA windows and doors are able to cut out airborne noise from the outside up to 43dB.

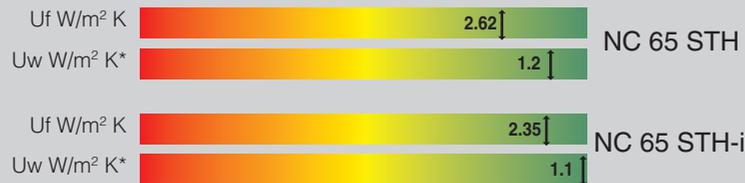
Up to 43 dB

Capacity of a window and door to attenuate external noise.



Thermal transmittance

The METRA window and door comply with the energy saving standards.



* Single casement window 1230 x 1480 mm; glass: Ug=0.6 W/m²K, psi=0.05 W/m K

The heat transmission rate U is the heat flow which goes through the window or door according to m² of surface and for each degree of difference in temperature between exterior and interior. The unit of thermic transmission measurement is W/m²K.

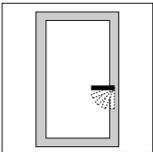


Burglar resistance EN 1627 - EN 1630

METRA windows and doors effectively resist intruders attempting to get inside.

Resistance class	WK1	WK2	WK3
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Capacity of a window and door to resist a violent intrusion attempt following application of a physical force with the help of tools.

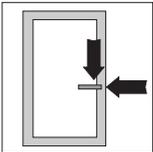


Operating forces EN 13115

METRA windows and doors enable easy opening with minimum effort.

Class achieved	Class 0	Class 1	Class 2
	-	100 N	30 N

Capacity of a window and door to enable easy opening with minimum effort.

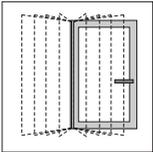


Mechanical resistance EN 12046 - EN 13115

METRA windows and doors resist applied loads without twisting, permanent deformation or breakage.

Class achieved	Class 0	Class 1	Class 2	Class 3	Class 4
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Capacity of a window and door to resist applied loads without breaking, with no permanent deformation or twisting that could impair their correct functioning.

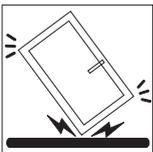


Resistance to repeated opening and closing cycles EN 1191 - EN 12400

METRA windows and doors effectively resist repeated opening and closing cycles over time (110,000 openings).

Class achieved/No.cycles	Windows and doors				Doors only					
	0	1	2	3	4	5	6	7	8	
	-	5000	10000	20000	50000	100000	200000	500000	1000000	

Capacity of a window and door to resist repeated opening and closing cycles over time.



Impact resistance (TEST METHOD WITH A HARD BODY) EN 13049

METRA windows and doors effectively resist impact.

Drop height	200 mm	300 mm	450 mm	700 mm	950 mm
Class achieved	1	2	3	4	5

Capacity of a window and door to withstand involuntary or accidental impact.

Curtain walls

Casement windows and doors

Aluminium-wood windows and doors

Sliding windows and doors

Internal doors

Systems for balconies

Verandas

Shading systems

Photovoltaic applications

Accessories and design complements

Finishes and coatings



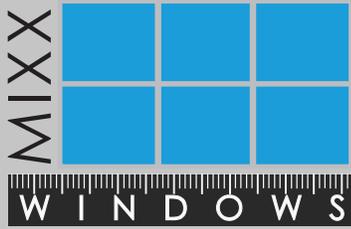
METRA

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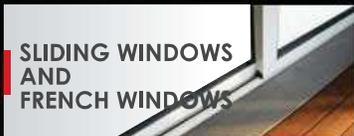
METRA uses ecological paper for its documentation
and low environmental impact printing products.



METRA Documentation
Brochure
NC 65 STH NC 65 STH-i - English
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Italy



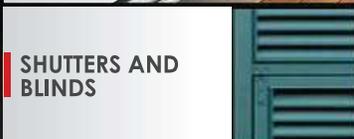
**SLIDING WINDOWS
AND
FRENCH WINDOWS**



**CASEMENT
WINDOWS AND
FRENCH WINDOWS**



CURTAIN WALLS



**SHUTTERS AND
BLINDS**



SUNBLADES



**VERANDAS AND
GAZEBOS**



**INTERNAL DOORS
AND
PARTITION WALLS**



**DESIGN
COMPLIMENTS**



**FINISHING
AND COATING**

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