

ML



ML | abstract from the general catalogue

Secco Sistemi is an Italian trademark leader in the production of systems for doors, windows and facades in galvanized steel, stainless steel corten steel and brass.

Every year, 2 million linear metres of profile bars are used to produce 200.000 doors and windows.

Secco Sistemi boasts 60 years of experience and constant commitment dedicated to achieve high quality and innovation for their products.



ML

EBE 65 technology meets the warmth of wood to create windows with smaller profiles but with an extremely high structural resistance and acoustic and thermal insulation



Wood, metal and glass are basic natural components in the history of building.

Time after time, the designer needs to mix these components trying to leave as much space as possible for window light in order to maximise brightness, using wood to provide a warm and natural feeling and metal for its sturdiness and resistance.

ML system has been conceived to meet all these specific requirements at once. In fact, thanks to the structural rigidity of steel profiles with thermal break, it's possible to realise large windows with a mere 85 mm visible section, much smaller than the traditional wooden ones.

The width of the metal profile - which allow for the use of thick triple glazing glass - and the range of accessories integrated in the system make it possible to achieve high acoustic, thermal and safety performances, in order to meet all the modern building requirements.

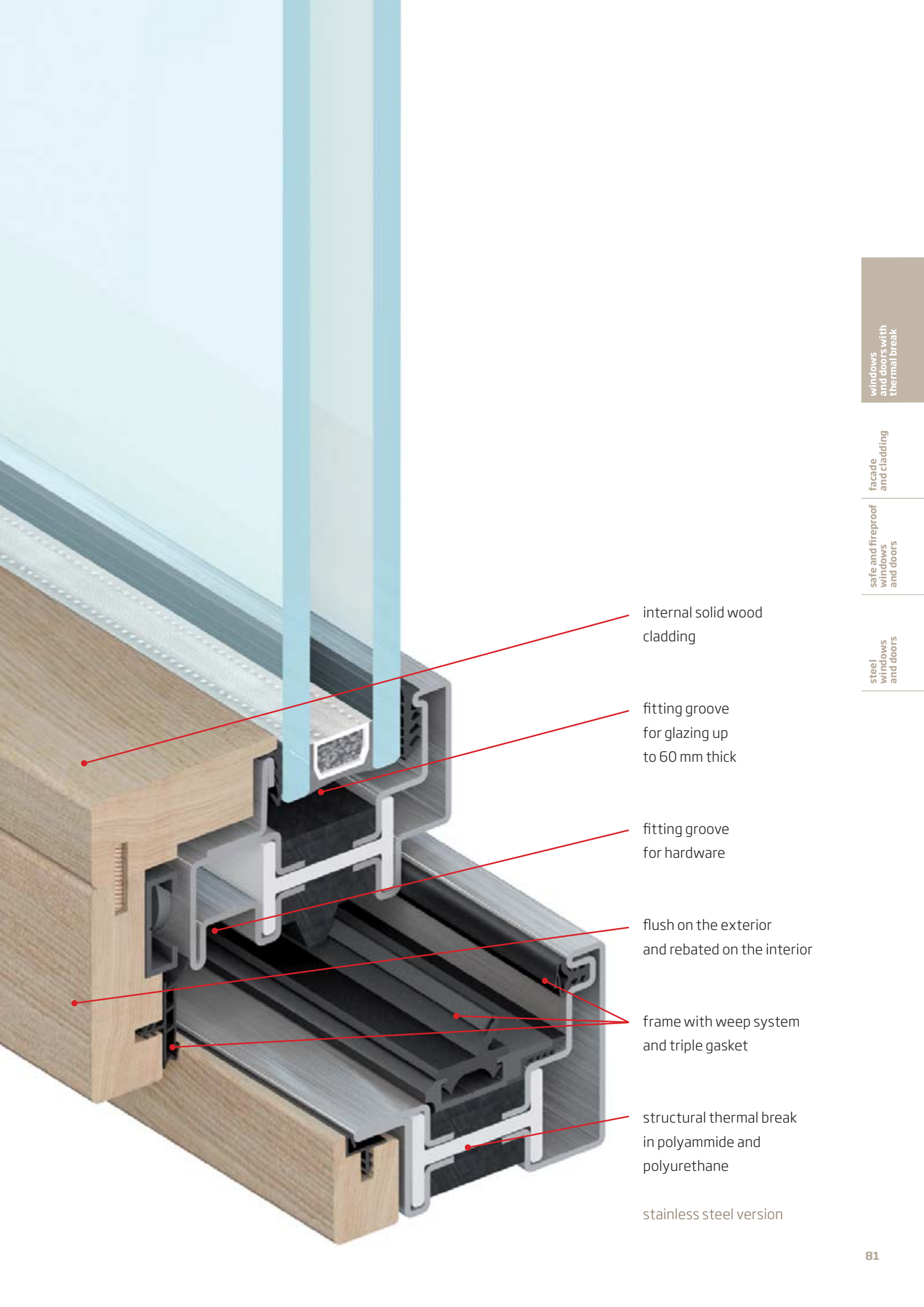
The **ML** profile is coated with solid wood on the internal face - thus making it easier to match it with the room furnishing - while it uses metal on the external face, thus lowering the need for maintenance.

ML doors and windows are available in steel-wood, stainless steel-wood, corten steel-wood and in brass-wood.

There are different wood finishes available making it easier to adapting it to the different architectural needs.

areas of application

- windows
- glass door



internal solid wood cladding

fitting groove for glazing up to 60 mm thick

fitting groove for hardware

flush on the exterior and rebated on the interior

frame with weep system and triple gasket

structural thermal break in polyamide and polyurethane

stainless steel version

ML window

system and performance



ML is an integrated system with accessories, seals and thermal break profiles 91 mm deep allowing for a wide range of windows, rectangular, shaped or curved. They can be equipped with insulating glass up to 50 mm thick. The sealing of the window frames is guaranteed by a three-level sealing weep system. It's possible to replace the internal wooden profile face without removing the window.



Each solution is equipped with a related set of accessories (also concealed) integrated in the system. The performance of the ML system has been tested by the best European certifying labs under the reference standard EN 14351-1.

wind resistance - test pressure	5
wind resistance - frame bending	C
water tightness	9A
acoustic performance (with R_w per IGU 42 dB)	47 (-2;-5) dB*
thermal transmittance (with U_g glass 1,0 W/m ² K)	1,16 W/m ² K**
air permeability	4
break-in resistance	(WK)3

ref: single-sash EBE 65 stainless steel 1200x2400mm window
 *ref: single-sash EBE 65 galvanized steel 1230x1480mm window
 **calculation ref. EN ISO 10077/1

size and variations



lower section | frame section 85 mm



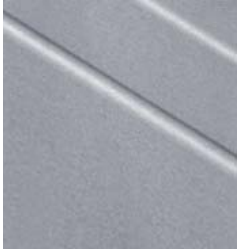
lateral section | frame section 85mm



central section | frame section 145mm

ML window is rebated on the interior and flush on the exterior. The standard solution has a 85 mm lateral frame section.

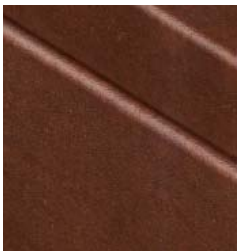
materials



galvanized steel



stainless steel



corten steel



brass

ML is available in the following:

- in wood and galvanized steel, in a wide range of colours and superficial finishes.
- in wood and AISI 304 brushed stainless steel
- in wood and AISI 316 polished or Scotch-Brite stainless steel.
- in wood and corten steel
- In wood and brass (OT67 copper alloy).

The internal cover can be made with different type of wood, styles and finishes according to the furnishing requirements.

glazing bead



rectangular

The glazing bead is in wood and is available in different shapes and material according to the architectural needs.

handles



DK inox I 5056
h.135 | d.20 mm



DK "vitruvio medium"
cut round
h.116 | d.15 mm



DK "vitruvio medium"
sphere round
h.116 | d.15 mm



DK "vitruvio medium"
cut square
h.116 | l.15 mm

The DK "vitruvio" handles are available in paintable raw brass, burnished brass, chrome polished brass and polished brass. Medium square model is provided also in corten steel. The system allows for different handles to be fitted, picture 7.

hinges



AR standard
h.85 | d.15 mm



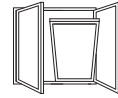
AR stainless steel
h.85 | d.15 mm



AR concealed

Standard three-wing hinges are adjustable and supplied in galvanized steel with "e-look" finish and coloured plastic cover. Stainless steel hinges are available in polished, Scotch-Brite or burnished finishing.

main type



windows
and doors with
thermal break

facade
and cladding

safe and fireproof
windows
and doors

steel
windows
and doors

Custom solutions are available in co-operation with Secco Sistemi technical office.

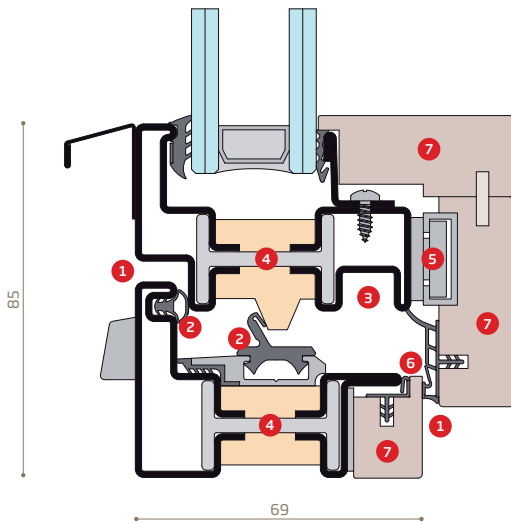
designing together

the Secco Sistemi
team works with
the designer,
with enthusiasm
and competence,
looking for
the right solution.
Its work is our
main strength

- alongside those who design
to shape solutions that are
customised and tailored;
- alongside those who design
to support the development
of the technical-operational
process and the cost estimates
- alongside those who design
to provide consultancy
and constant update
on the current regulations
- alongside those who design
to identify the most suitable
window and door frames provider
to carry out the project
- alongside those who design
to assist to the entire project
development and final work,
from the manufacturing
to the final set-up

ML

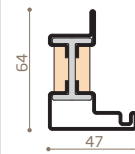
main sections



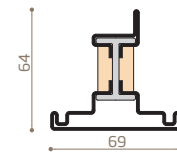
1. flush on the exterior and rebated on the interior
2. frame with weep system and triple gasket
3. lodging for anti break-in ironware on steel profile
4. structural thermal break in polyamide and polyurethane
5. point fixed curtain walls in plastic material
6. finishing and levelling seals
7. internal frames in solid wood

profiles

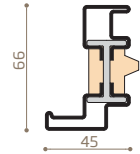
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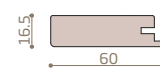
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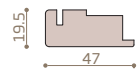
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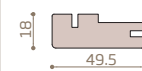
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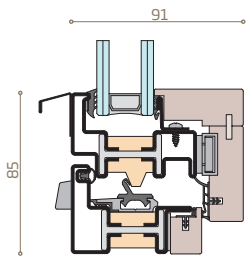
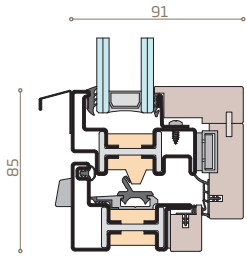
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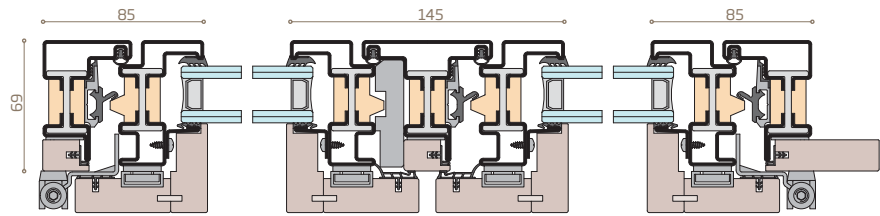
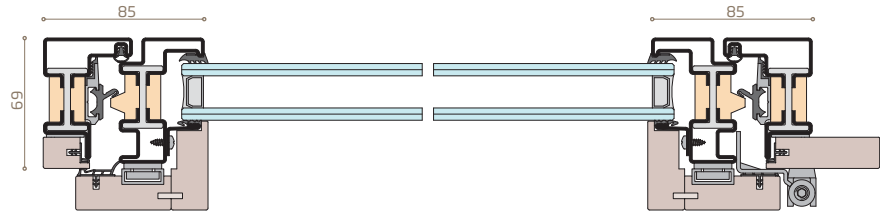
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vertical section



horizontal section



products comparison: performance, heat flow, safety and face dimension



products comparison: design options

	OS2	EBE 65	EBE 85	ML	termica	termica UP	infinities HT	AF	blindacciaio	sistemacciaio	security
galvanized steel	●	●	●	●	●	●	●	●	●	●	●
stainless steel		●	●	●	●	●	●	●		●	
corten steel	●	●	●	●	●	●	●	●		●	
brass	●	●	●	●	●	●	●			●	
flush door/window		●	●					●	●	●	●
rebated door/window	●	●	●	●						●	●
concealed sashes			●								
concealed hinges for windows		●	●	●						●	●
concealed hinges for doors		●	●							●	●
concealed door closer			●							●	●

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