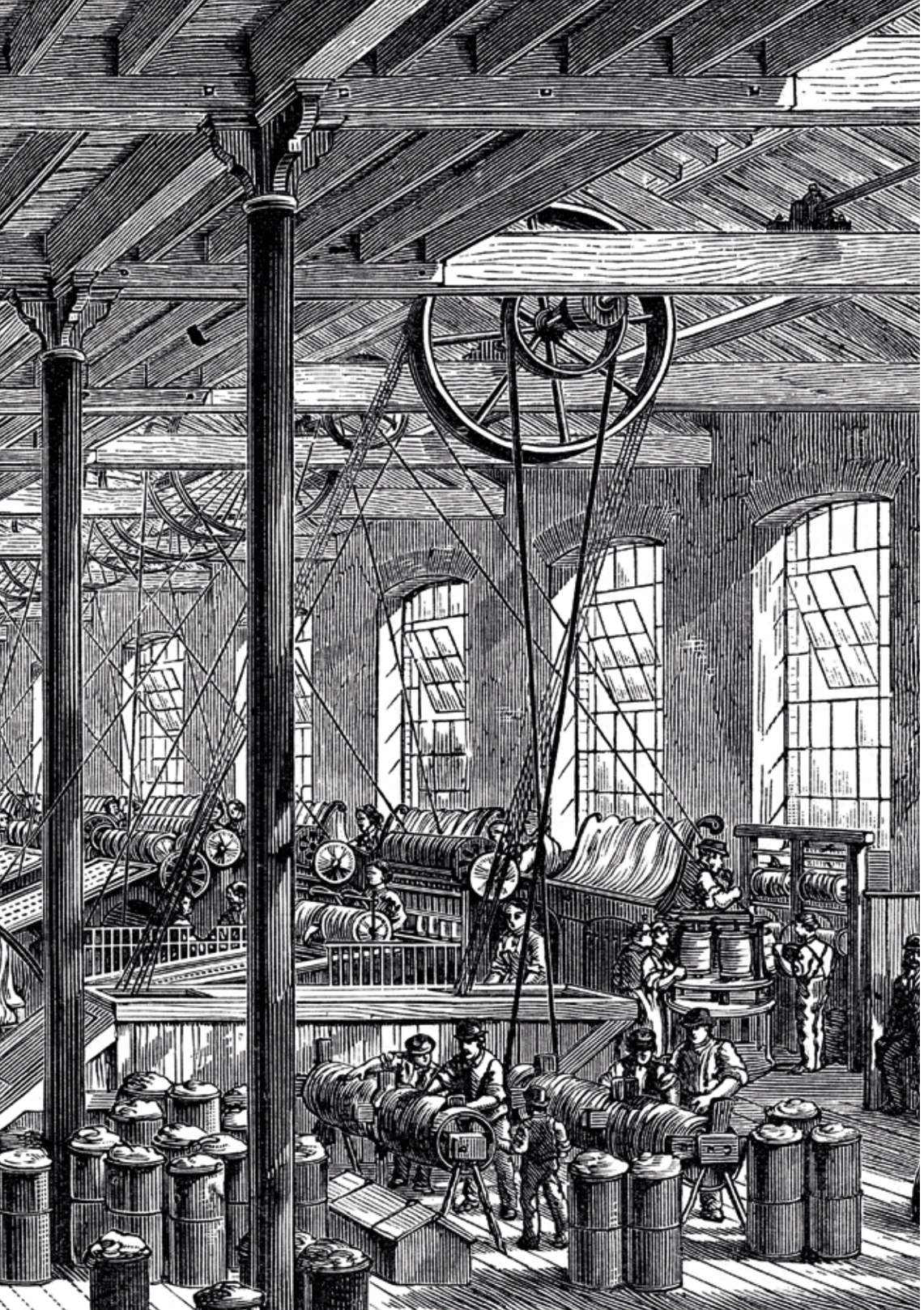
# BV&MB

give shape to
the minimal

secco

During the first Industrial Revolution in late 18th-century England, electric lighting did not yet exist. To illuminate working spaces, natural light was maximized through large windows. Windows were constructed with simple steel profiles in T, Z, and L shapes to support small glass panes, approximately 30x30 cm, the largest available at the time, these windows were arranged in a typical checkerboard pattern. The basic T, Z, and L profiles evolved to suit residential buildings, transitioning from flat surfaces to molded profiles to decorate the window frame. This design borrowed from the elegant profiles of wooden windows, moving away from industrial aesthetics. Secco Sistemi reintroduces molded styles with BV (beveled) and MB (baroque), catering to the meticulous demands of designers for both restoration projects and traditional buildings.



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# MB design

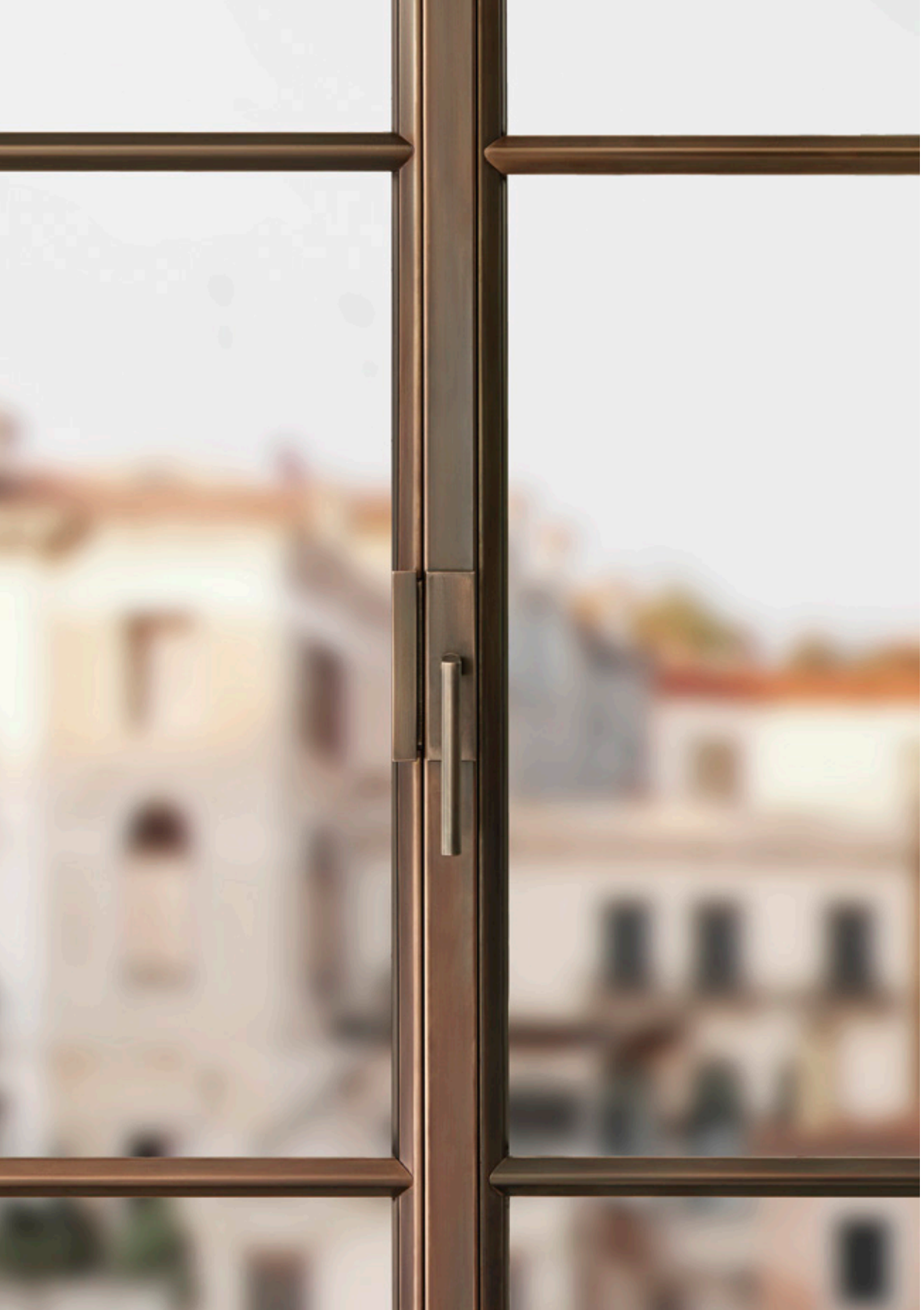
MB stands for Baroque Molding, indicating the refined use of concave profiles to secure glass within window frames, both externally and internally, ensuring aesthetic uniformity on both sides. Additionally, the system is designed to center the glass within the frame's thickness, adding substance to the window and depth to the external facade. MB's baroque molding not only evokes the elegant shapes of the past, making it suitable for restoration, but also harmonizes seamlessly with the architectural design of buildings and interior aesthetics.

The external view is equal
to the internal view.

# BV design

BV stands for Beveled, referring to a chamfered profile inspired by shaped profiles of wooden window frames. This molding is present along the glass-blocking profiles, both inside and outside, ensuring aesthetic consistency on both sides. Similar to MB, the BV system is designed to center the glass within the frame's thickness, enhancing the window's presence and external appearance. BV's molding not only recalls the elegant shapes of wooden windows but also reintroduces a window frame with a distinct aesthetic identity, integrating harmoniously into restoration and architectural projects, while also enhancing interior design.

The external view is equal
to the internal view.

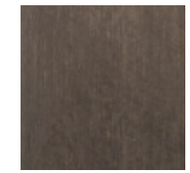


# MB & BV materials

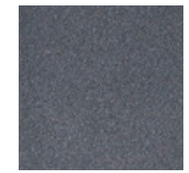
The profiles are made in solid and tenacious materials with certified quality of oxidation and corrosion resistance.
Materials for Secco are a source of design too, with them natural surfaces they affect the appearance of the frame and they can catch light or reflect it, they can have warm colors or austere ones and at the same time they have non-homogeneous surfaces for a continuous variant that emphasises the craftsmanship aspect of the product.
All the used metals are 100% recyclable and they have high durability to concretize the sustainability of the product.

**stainless steel**
*not available for MB*


scotch brite 316SB stainless steel


burnished 316SB stainless steel

**galvanised steel**


(painted) galvanised steel

**corten steel**
*not available for MB*


oxidised corten steel

**brass**


patinated OT67 brass

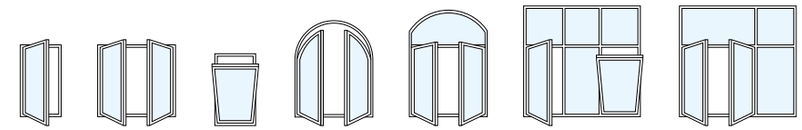

satin-finished OT67 brass

# MB & BV type of opening

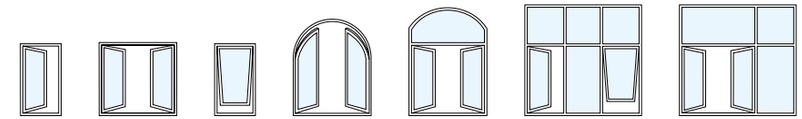
The types of opening created by Secco Sistemi are not dictated only by tradition, but also to participate to the harmony of the facade of the building, to make an environment more accessible and to solve projects in restoration or in contemporary architecture.

MB & BV offers the usual type of opening with profiles and new technologies with the goal of "returning to draw the frame".

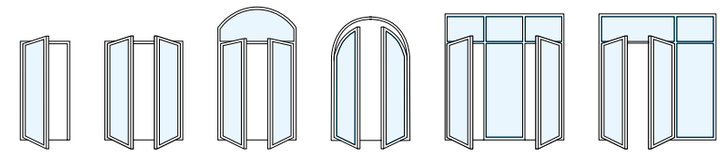
**window**
inward opening
with tilt & turn
mechanism



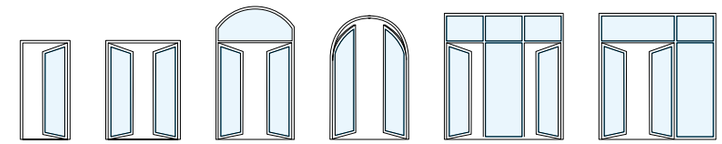
**window**
outward
opening



**door**
inward
opening



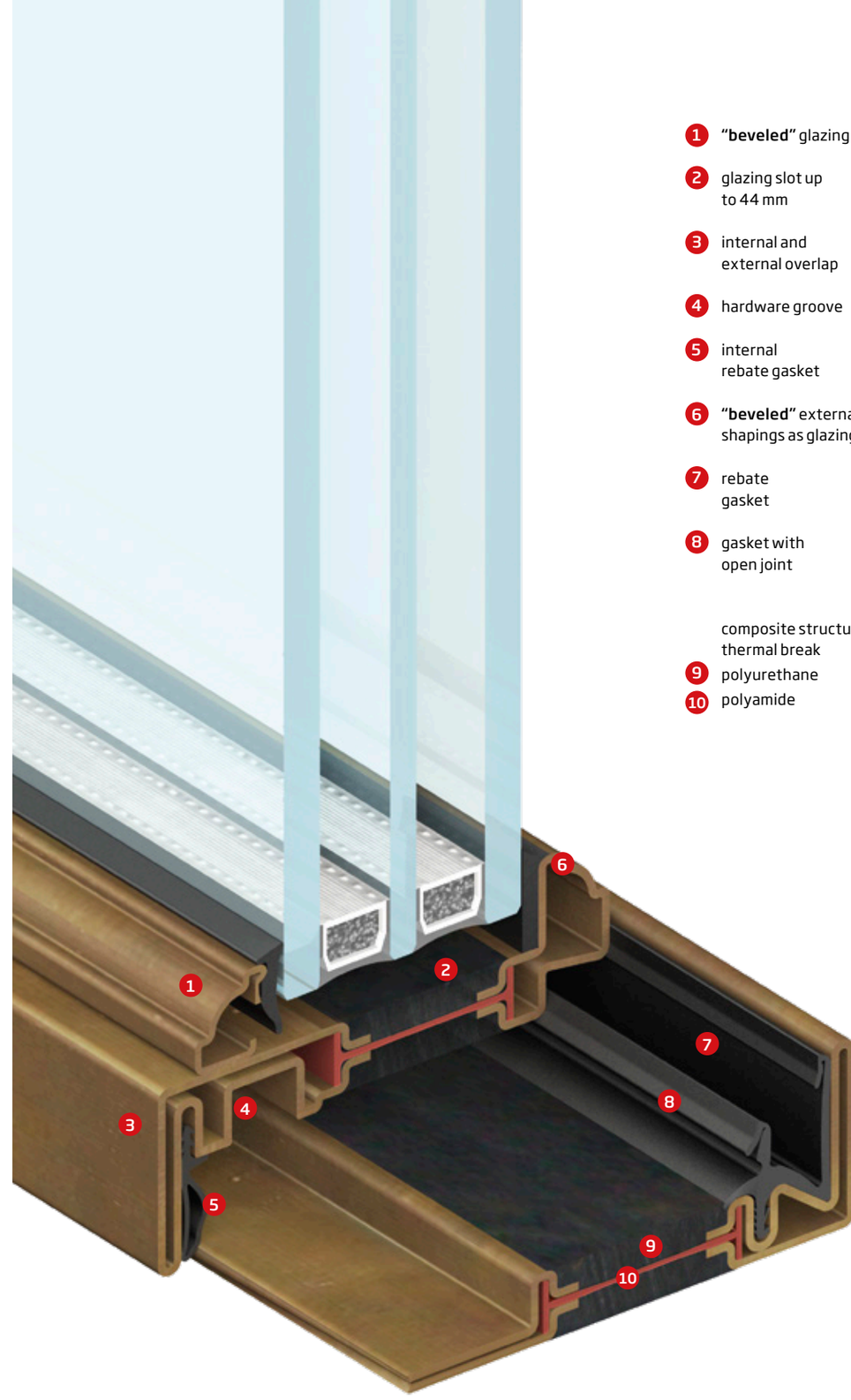
**door**
outward
opening



# MB technology

MB doors and windows, made of high-quality metals with thermal breaks and minimal profiles, shaped on the outside and with reduced visible sections, from 27 mm to 47 mm for the lateral point, 62 mm for the central point, with a depth of 85 mm for glasses up to 44 mm.

**external view**

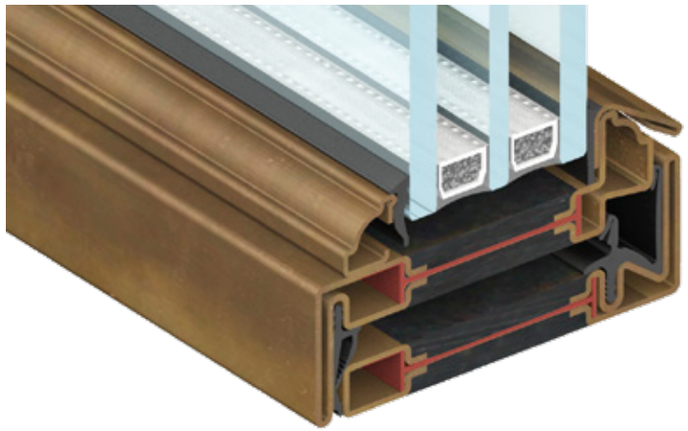

1. **"beveled"** glazing bead
2. glazing slot up to 44 mm
3. internal and external overlap
4. hardware groove
5. internal rebate gasket
6. **"beveled"** external shapings as glazing bead
7. rebate gasket
8. gasket with open joint

composite structural thermal break

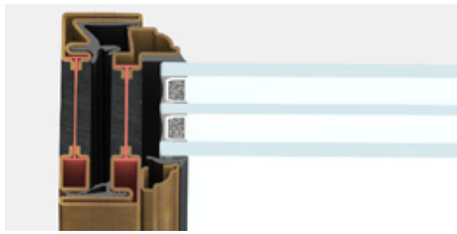
9. polyurethane
10. polyamide

# MB window
## inward-opening

### size and performance



lower point | frame section 47 mm



lateral point | frame section 47 mm

central section | frame section 62 mm

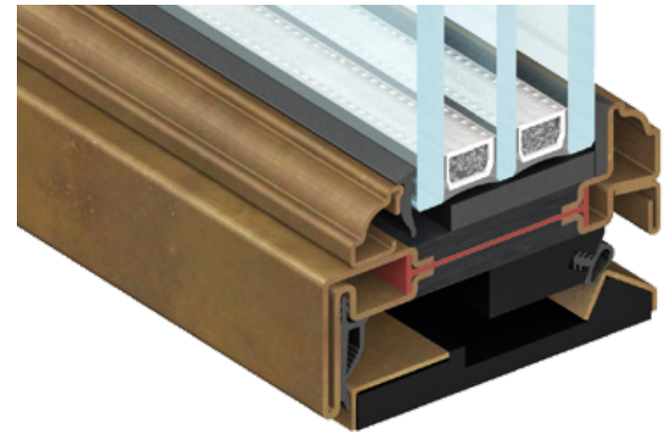
| | |
|---|---|
| wind resistance - test pressure | 4 |
| wind resistance - frame bending | C |
| water tightness | 8A |
| thermal transmittance (with Ug glass 1.0 W/m2K) | 1,38 W/m²K |
| air permeability | 4 |

maximum achievable performance

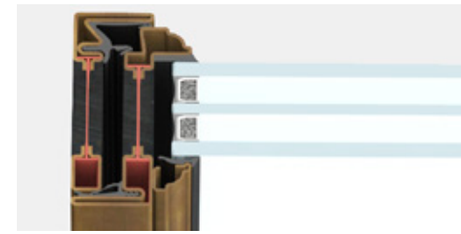


# MB door
## inward-opening

### size and performance



lower point | frame section 52 mm



lateral point | frame section 47 mm

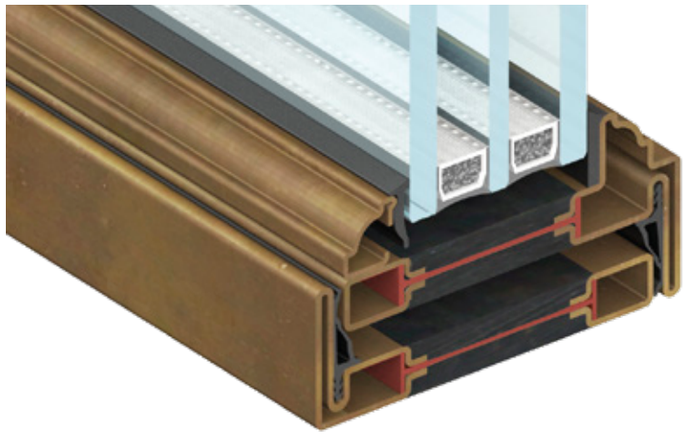
central point | frame section 62 mm

| | |
|---|---|
| wind resistance - test pressure | 1 |
| wind resistance - frame bending | C |
| water tightness | 1A |
| thermal transmittance (with Ug glass 1.0 W/m2K) | 1,35 W/m²K |
| air permeability | 4 |

maximum achievable performance

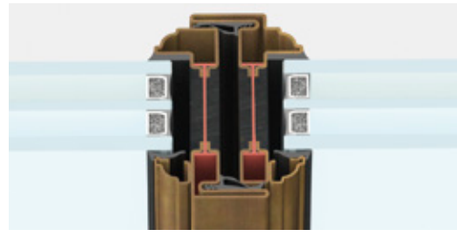
# MB window
## outward-opening

### size and performance



lower point | frame section 47 mm

lateral point | frame section 47 mm



central point | frame section 62 mm

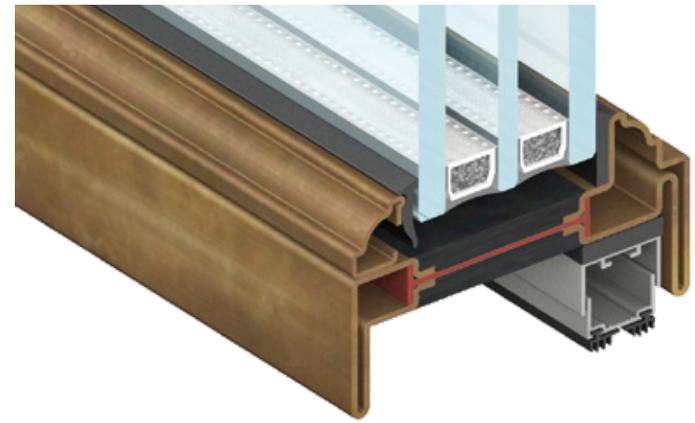
| | |
|---|---|
| wind resistance - test pressure | 4 |
| wind resistance - frame bending | C |
| water tightness | 8A |
| thermal transmittance (with Ug glass 1.0 W/m2K) | 1,38 W/m²K |
| air permeability | 3 |

maximum achievable performance

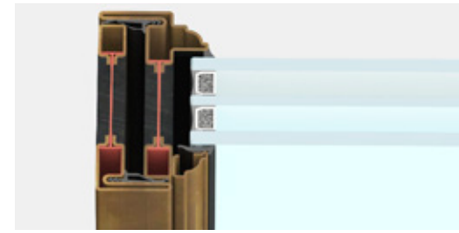


# MB door
## outward-opening

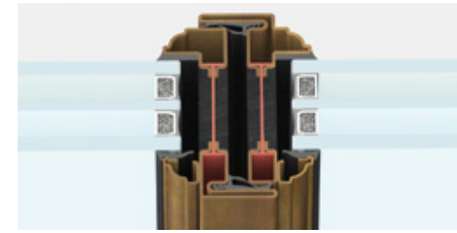
### size and performance



lower point | frame section 47 mm



lateral point | frame section 47 mm



central point | frame section 62 mm

| | |
|---|---|
| wind resistance - test pressure | 1 |
| wind resistance - frame bending | C |
| water tightness | 1A |
| thermal transmittance (with Ug glass 1.0 W/m2K) | 1,35 W/m²K |
| air permeability | 3 |

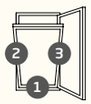
maximum achievable performance

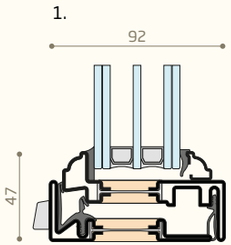
**MB** patinated brass
**external view** *(inward opening window)*

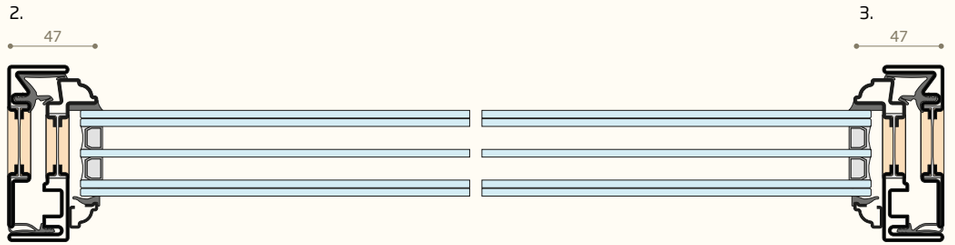
**MB** patinated brass
**internal view** *(inward opening window)*

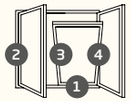
# MB sections

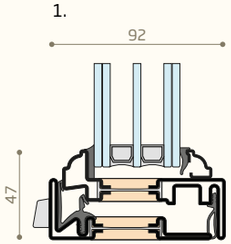
## inward opening

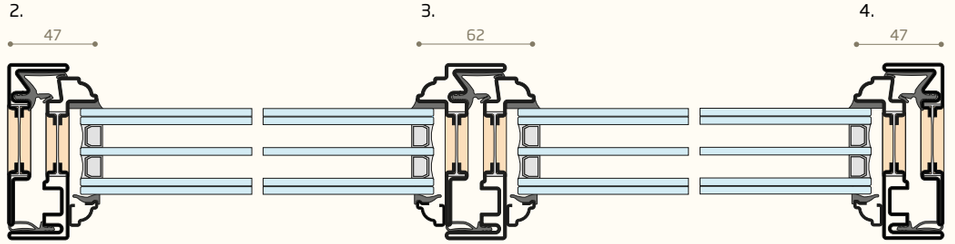


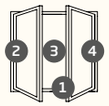



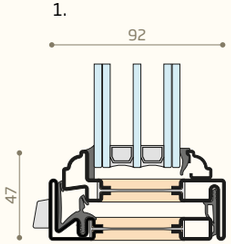



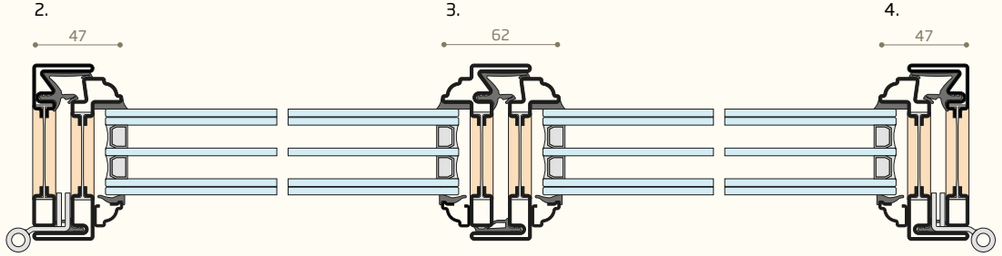



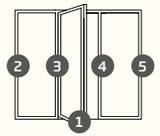



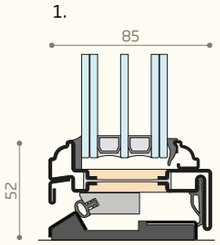



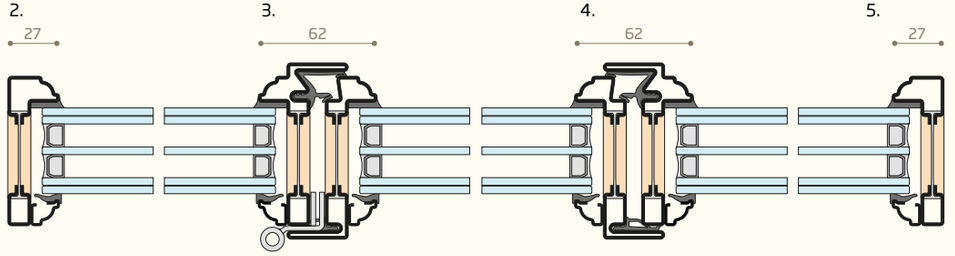



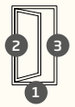



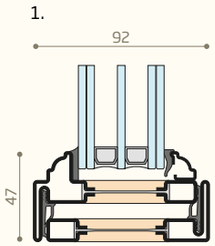



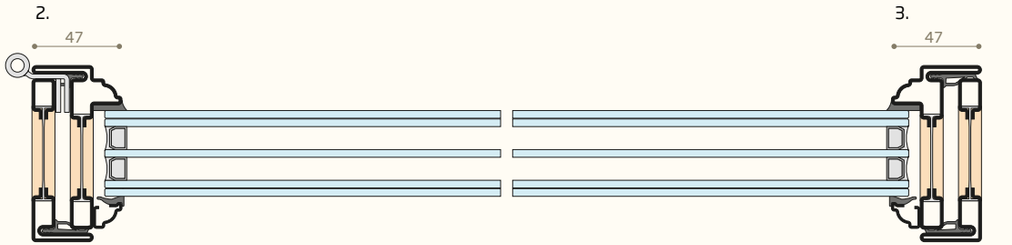



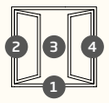
# MB sections

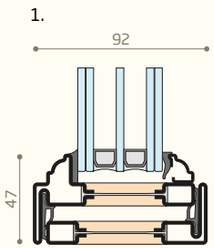
## outward opening

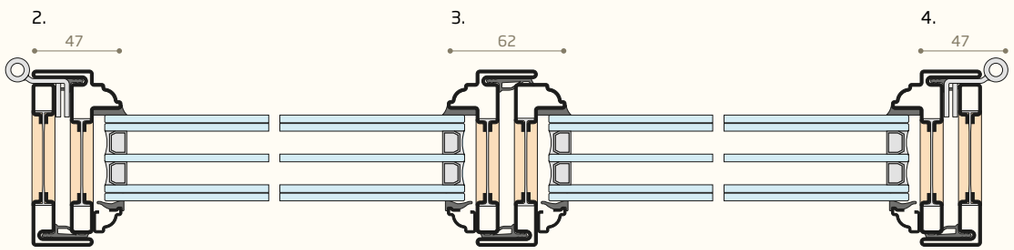


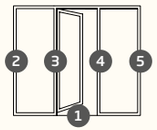



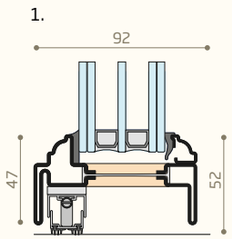



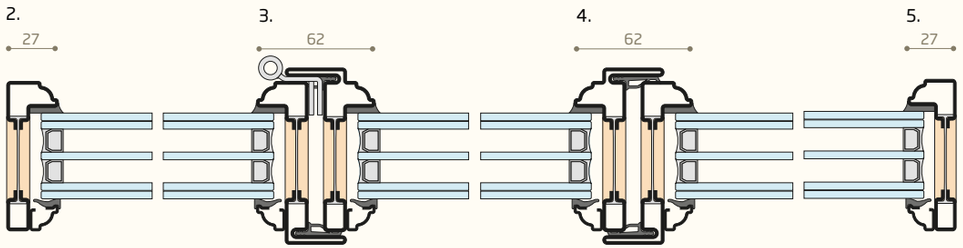



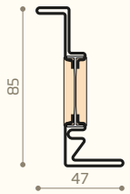



# MB sections

## profiles

PR2503H

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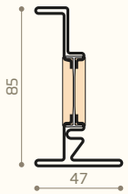


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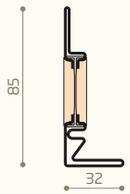


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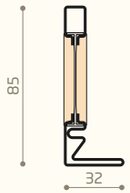


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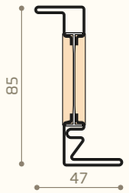
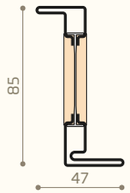
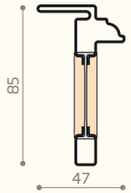



PR2963H




PR2962MB

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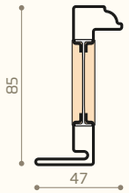


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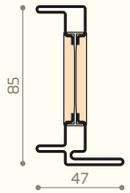


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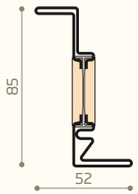


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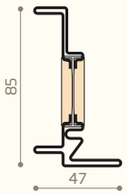
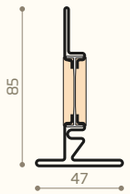



PR2522H

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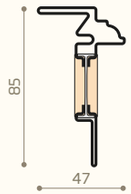


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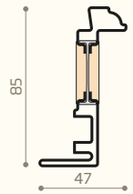


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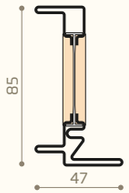


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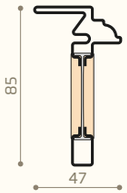


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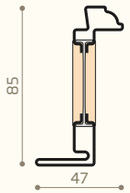
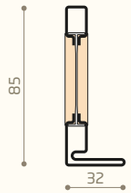



PR2961H

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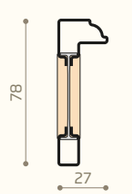


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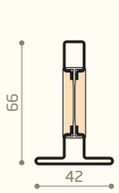


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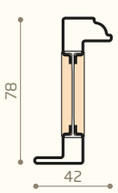


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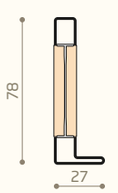


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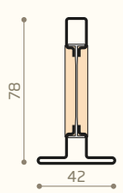
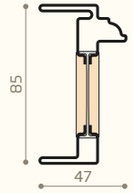



PR2968MB

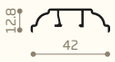



## glazing beads

PA2028CA


PA2030CA


PA2035CA




PRE028CA

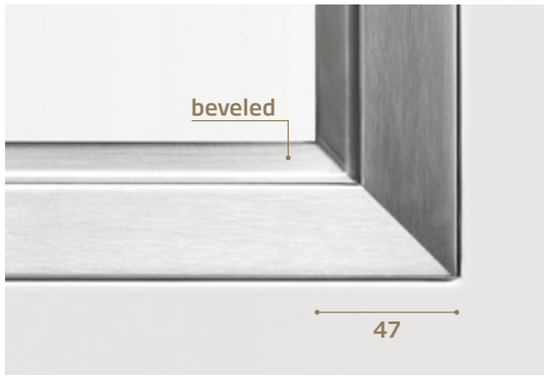

PRE030CA

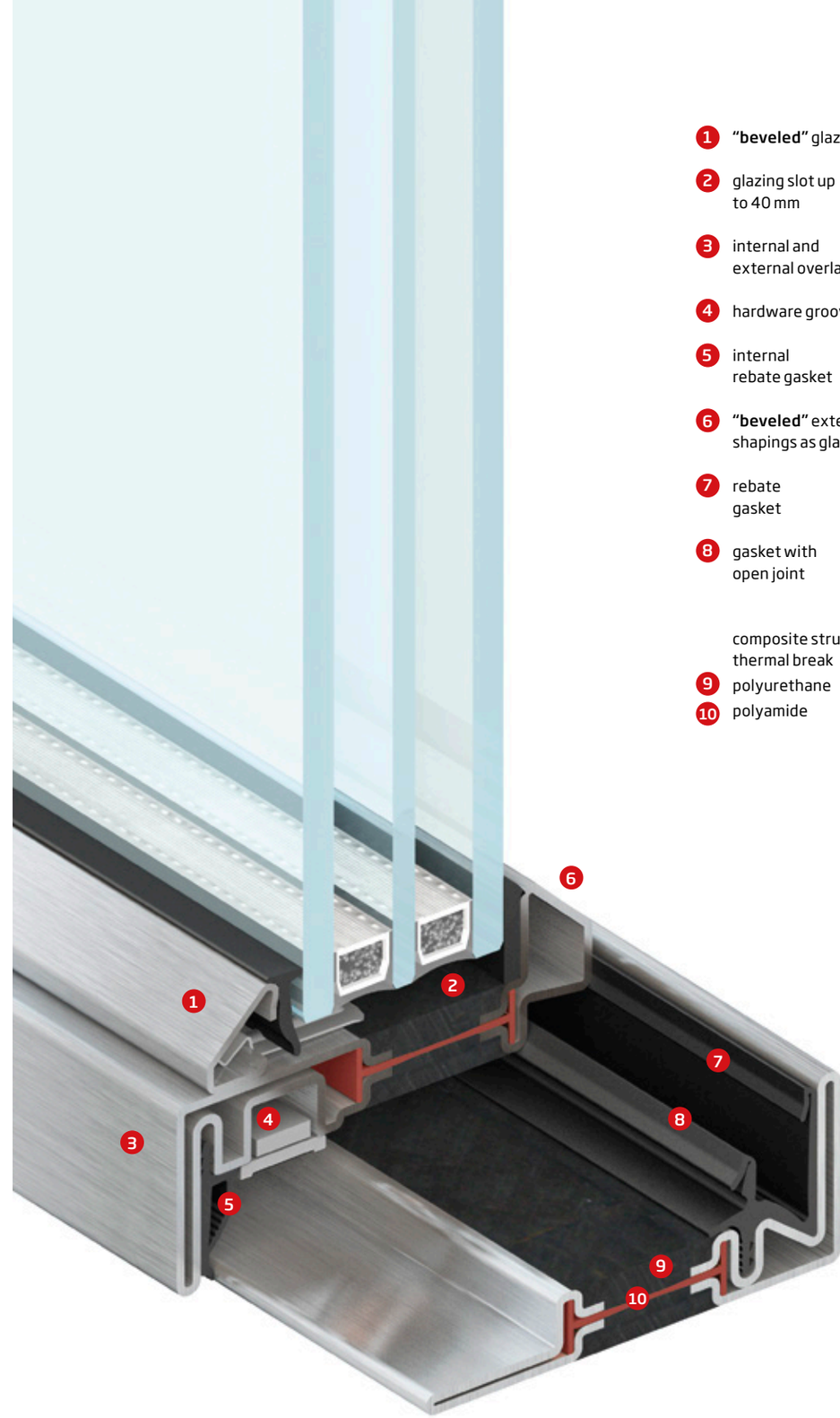
**MB** patinated brass

# BV technology

BV doors and windows made of high-quality metals with thermal breaks and minimal profiles, shaped on the outside and with reduced visible sections, from 27 mm to 47 mm for the lateral point, 62 mm for the central point, with a depth of 77 mm for glasses up to 40 mm.

**external view**



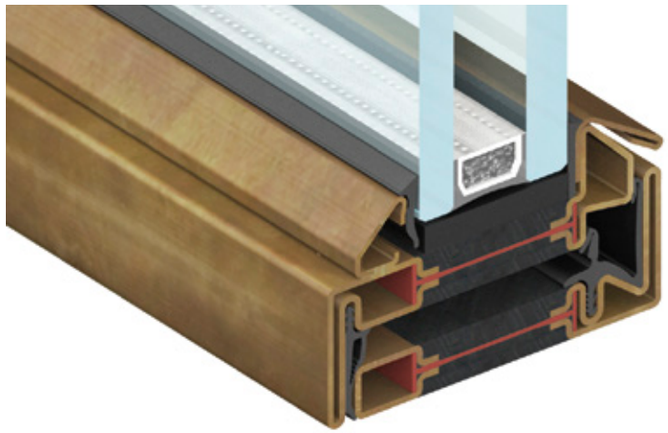

1. **"beveled"** glazing bead
2. glazing slot up to 40 mm
3. internal and external overlap
4. hardware groove
5. internal rebate gasket
6. **"beveled"** external shapings as glazing bead
7. rebate gasket
8. gasket with open joint

composite structural thermal break

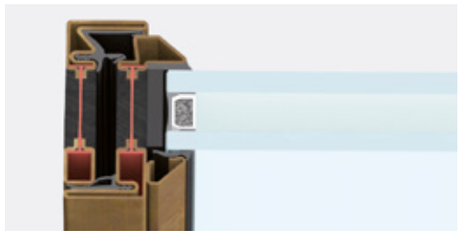
9. polyurethane
10. polyamide

# BV window
## inward-opening

### size and performance



lower point | frame section 47 mm



lateral point | frame section 47 mm

central section | frame section 62 mm

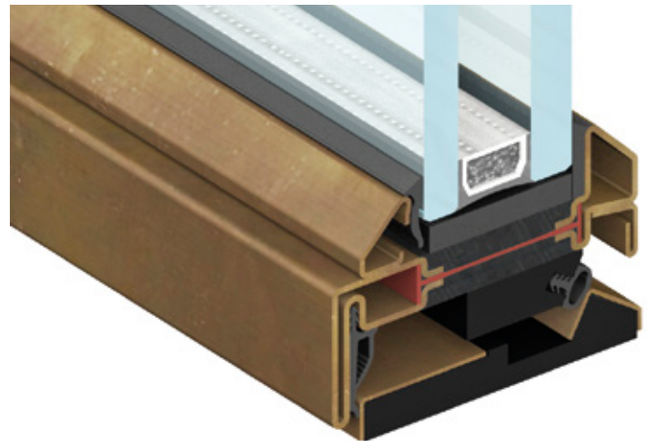
| | |
|---|---|
| wind resistance - test pressure | 4 |
| wind resistance - frame bending | C |
| water tightness | 8A |
| thermal transmittance (with Ug glass 1.0 W/m2K) | 1,38 W/m²K |
| air permeability | 4 |

maximum achievable performance

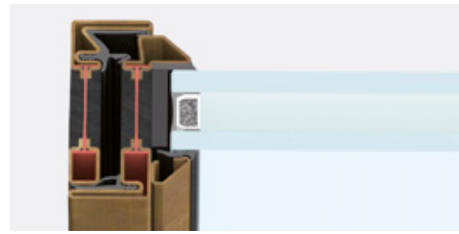


# BV door
## inward-opening

### size and performance



lower point | frame section 52 mm



lateral point | frame section 47 mm

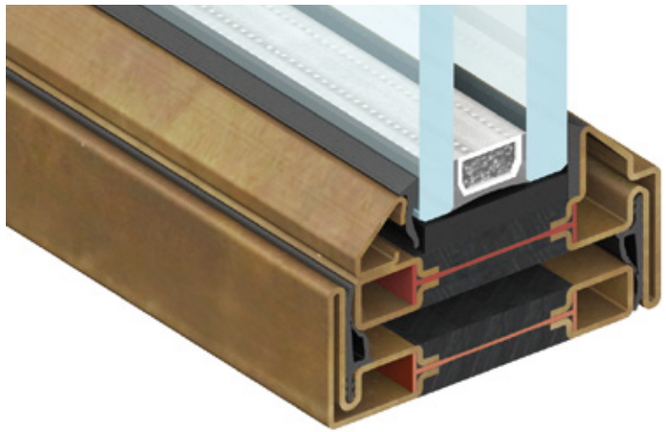
central point | frame section 62 mm

| | |
|---|---|
| wind resistance - test pressure | 1 |
| wind resistance - frame bending | C |
| water tightness | 1A |
| thermal transmittance (with Ug glass 1.0 W/m2K) | 1,35 W/m²K |
| air permeability | 4 |

maximum achievable performance

# BV window
## outward-opening

**size and performance**



lower point | frame section 47 mm

lateral point | frame section 47 mm

central point | frame section 62 mm

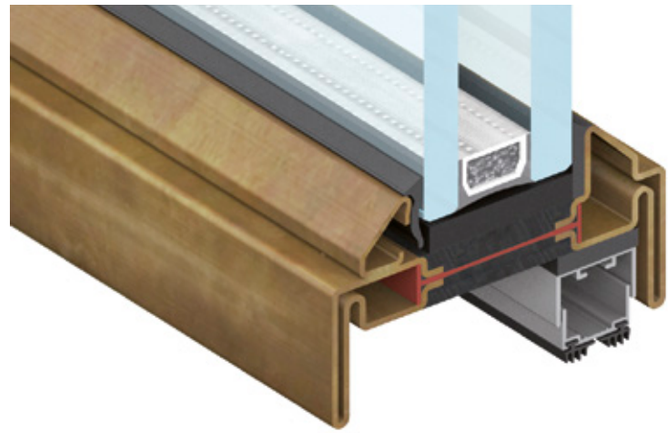
| | |
|---|---|
| wind resistance - test pressure | 4 |
| wind resistance - frame bending | C |
| water tightness | 8A |
| thermal transmittance (with Ug glass 1.0 W/m2K) | 1,38 W/m²K |
| air permeability | 3 |

maximum achievable performance



# BV door
## outward-opening

**size and performance**



lower point | frame section 47 mm

lateral point | frame section 47 mm

central point | frame section 62 mm

| | |
|---|---|
| wind resistance - test pressure | 1 |
| wind resistance - frame bending | C |
| water tightness | 1A |
| thermal transmittance (with Ug glass 1.0 W/m2K) | 1,35 W/m²K |
| air permeability | 3 |

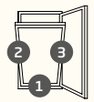
maximum achievable performance

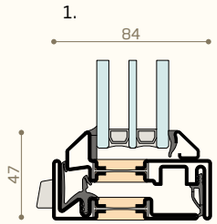
**BV** patinated brass
**external view** *(inward opening window)*

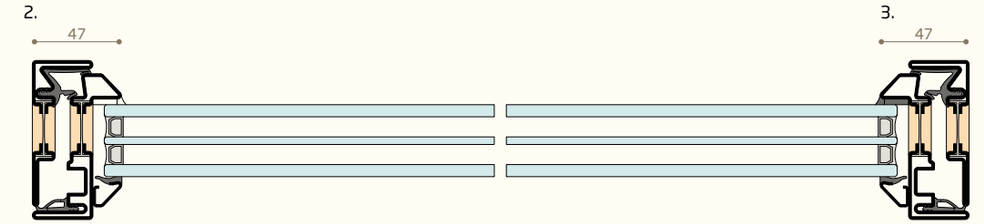
**MB** patinated brass
**internal view** *(inward opening window)*

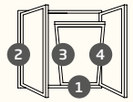
# BV sections

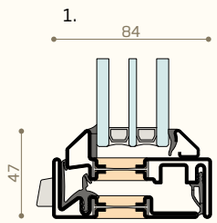
## inward opening

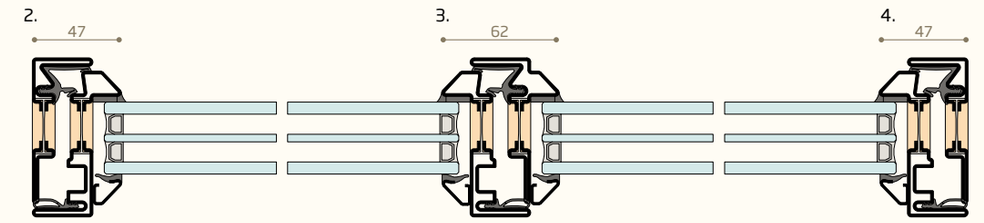


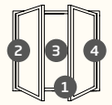



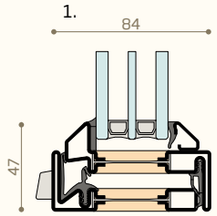



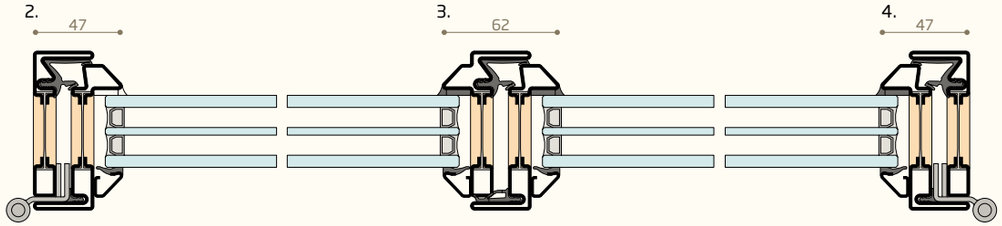



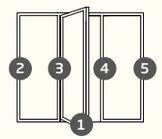



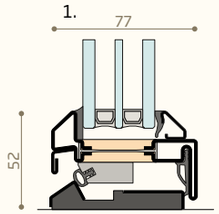



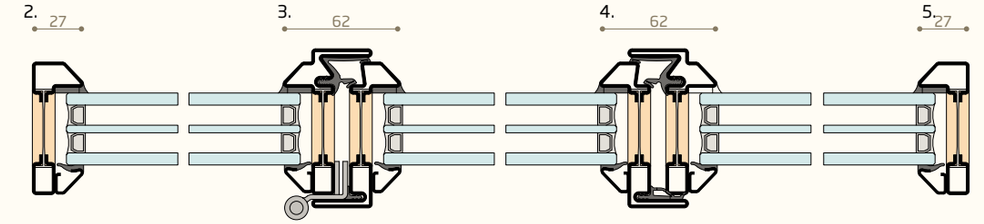



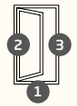



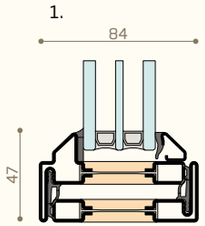



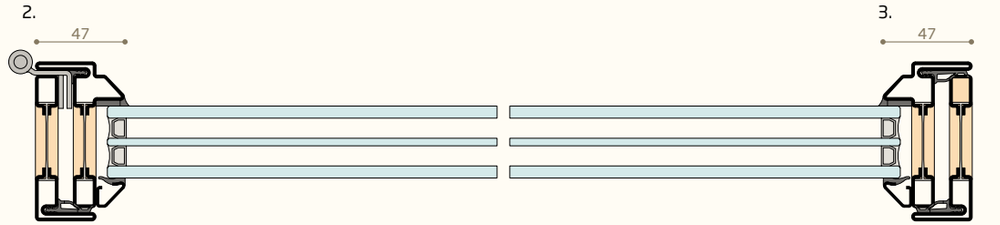



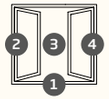
# BV sections

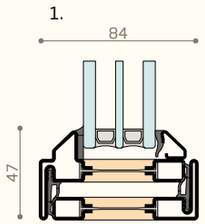
## outward opening

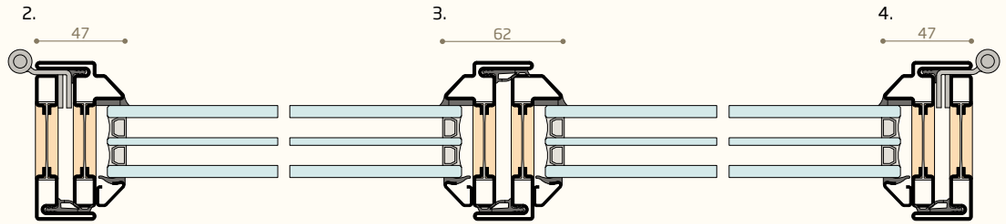


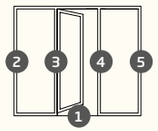



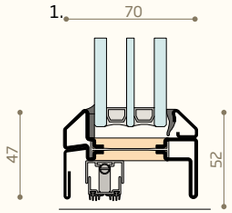



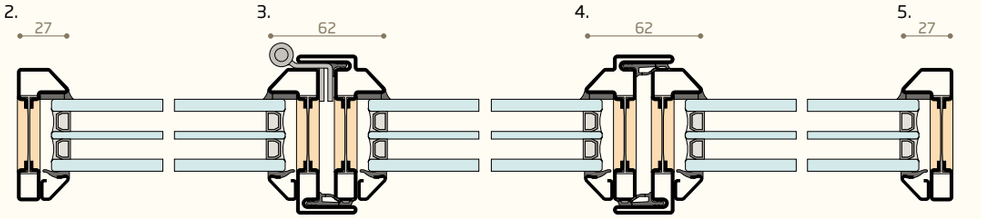



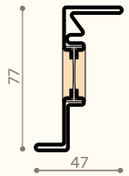



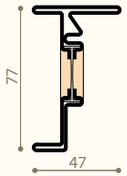
# BV sections

## profiles

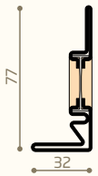
PR2503



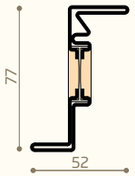

PR2505



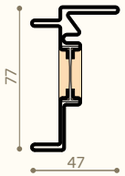

PR2511



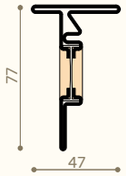

PR2513



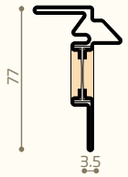

PR2515



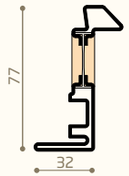

PR2522



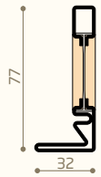

PR2542BV



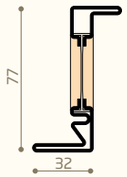

PR2543BV




PR2901




PR2903

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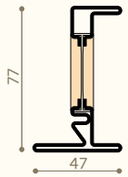


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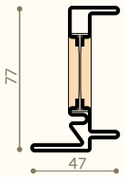
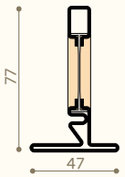



PR2922

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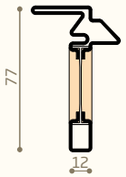


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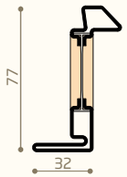


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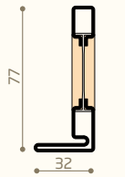


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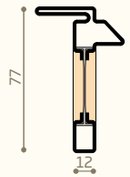


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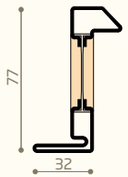


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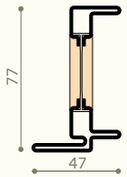


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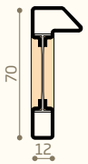


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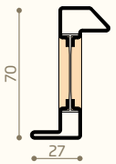


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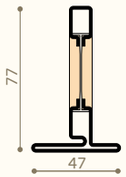


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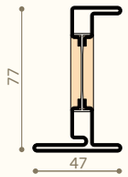


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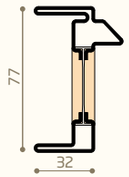


## glazing beads

PR2629BV


PR2030BV


PR2606


PR2607


PR2627


PR2629


PR2638


**BV** patinated brass

# Handles

Elegant, discrete complements, in harmony with the essential lines of the window and door, in the same precious materials and finishes

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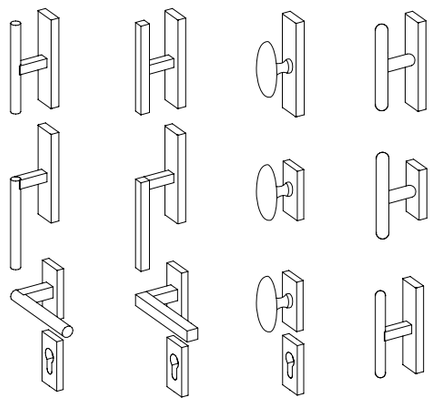
**Vitruvio**



truncated square oval rounded

# Water drain

Even on the outside of the window, detail becomes a value.

The water drain is a fundamental device for the correct functioning of the water sealing system of the fixtures. Its geometry allows, even with adverse winds, the outflow of any water present in the window. The water drain is produced in the same finishes as the profiles of the frames and offered in two versions, traditional with a trapezoidal shape and the new round one.

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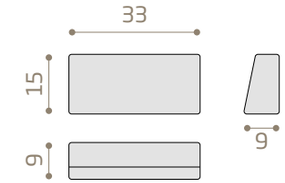
## trapezoid *water drain*

**trapezoid**

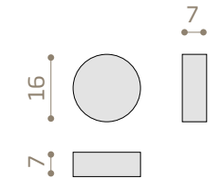
trapezoidal water drain
with double drain




## round *water drain*

**round**

round water drain to be
applied always in pairs



# Hinges

Thin, light, they are both technological devices and plastic elements to be composed in the design of the frame, in the same precious metals

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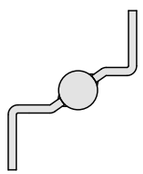
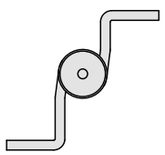


two-winged
Ø 12 mm



three wings
Ø 15 mm

to weld
Ø 13 mm



# advice

suggesting tricks to bring attention to the details that often go unnoticed, not evaluated, but which greatly affect the aesthetic and functional performance of the window frame

**Extra clear glass,** whenever possible. Unlike standard glass, which often has a greenish tint, extra-clear glass preserves the window's desired appearance without alteration.

**If not evaluated,** the warm edge is typically finished in polished aluminum. While eye-catching, this finish may disrupt the window frame's harmony. Therefore, we suggest matching the warm edge's color to either the glass seals (opaque black) or the frame itself to ensure visual cohesion across all visible components of the window frame.

**Installation,** the proper installation of fixtures plays a critical role in determining the window's functionality and finish. We strongly recommend entrusting the installation to experienced companies with expertise in Secco systems.

**Details',** always prioritize attention to detail, as it holds the key to the success of your glazing project.

Secco Sistemi is an Italian brand expression of innovation and design awarded “Compasso d’Oro”.

For 70 years it contributes to the evolution of window engineering: it invents systems and profiles that become reference models for the industry and Secco continues to improve them, to interpreting projects and trends in contemporary architecture and restoration.

Secco Sistemi produces every year 1 million linear meters profiles in over 300 models that allow to realize 35 different types of openings in 4 precious metals – galvanized steel, stainless steel, corten steel and brass – and in 9 finish.
It adapts its industrial capacity to the artisanal sensibility to solve and produce more than 50 special projects every year.

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