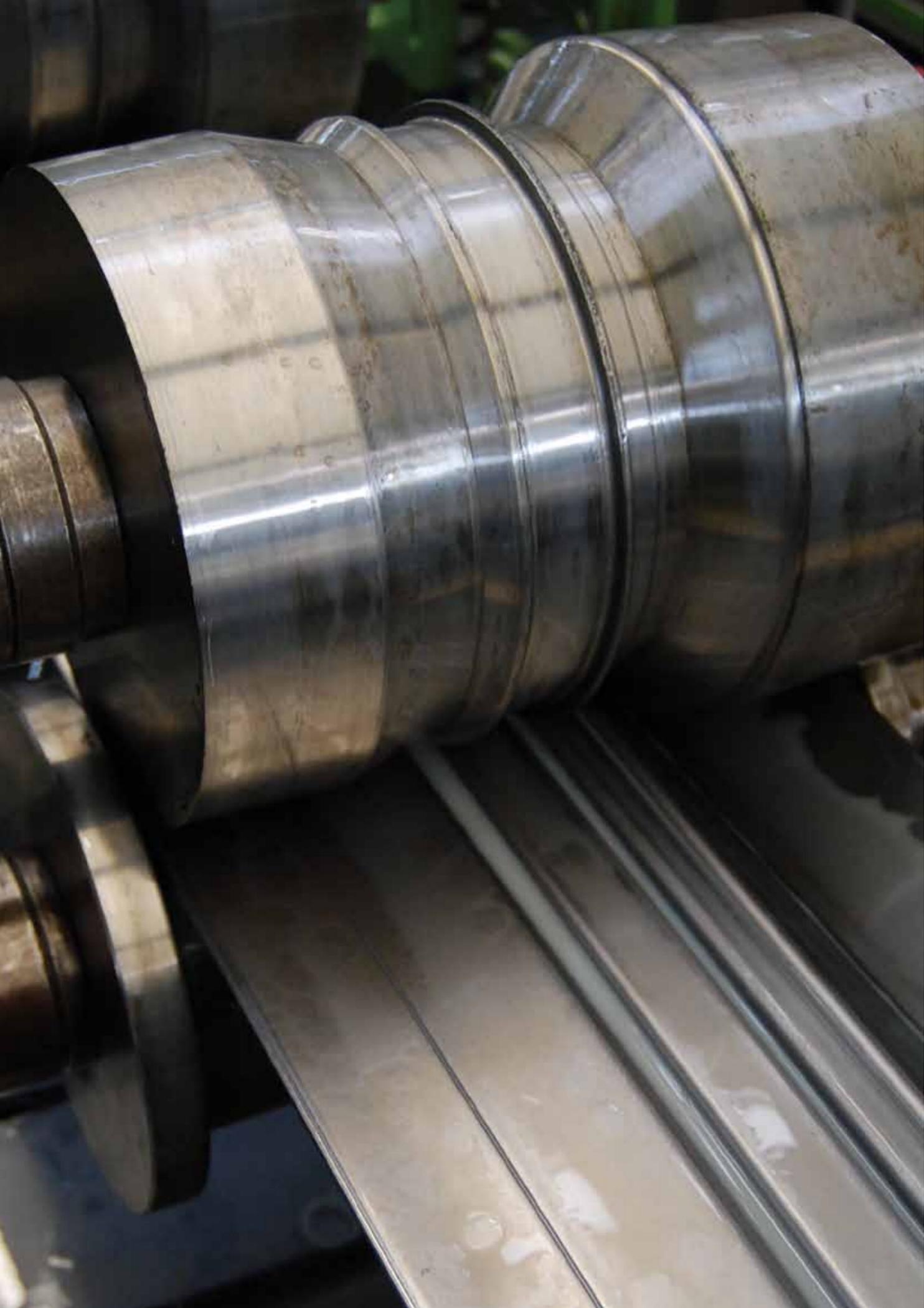


# EBE 85



**secco**



Secco Sistemi is an Italian trademark leader in the production of systems for doors, windows and facades in galvanised steel, stainless steel, corten steel and brass. Every year, 2 million linear metres of profiles 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 in their products.

The Secco logo consists of a red trapezoidal shape pointing to the right, with the word "secco" written in white, lowercase, sans-serif font inside it.

secco

# EBE 85

small frame sections combined with cutting-edge energy saving performance: EBE 85 is the perfect solution for sustainable design.

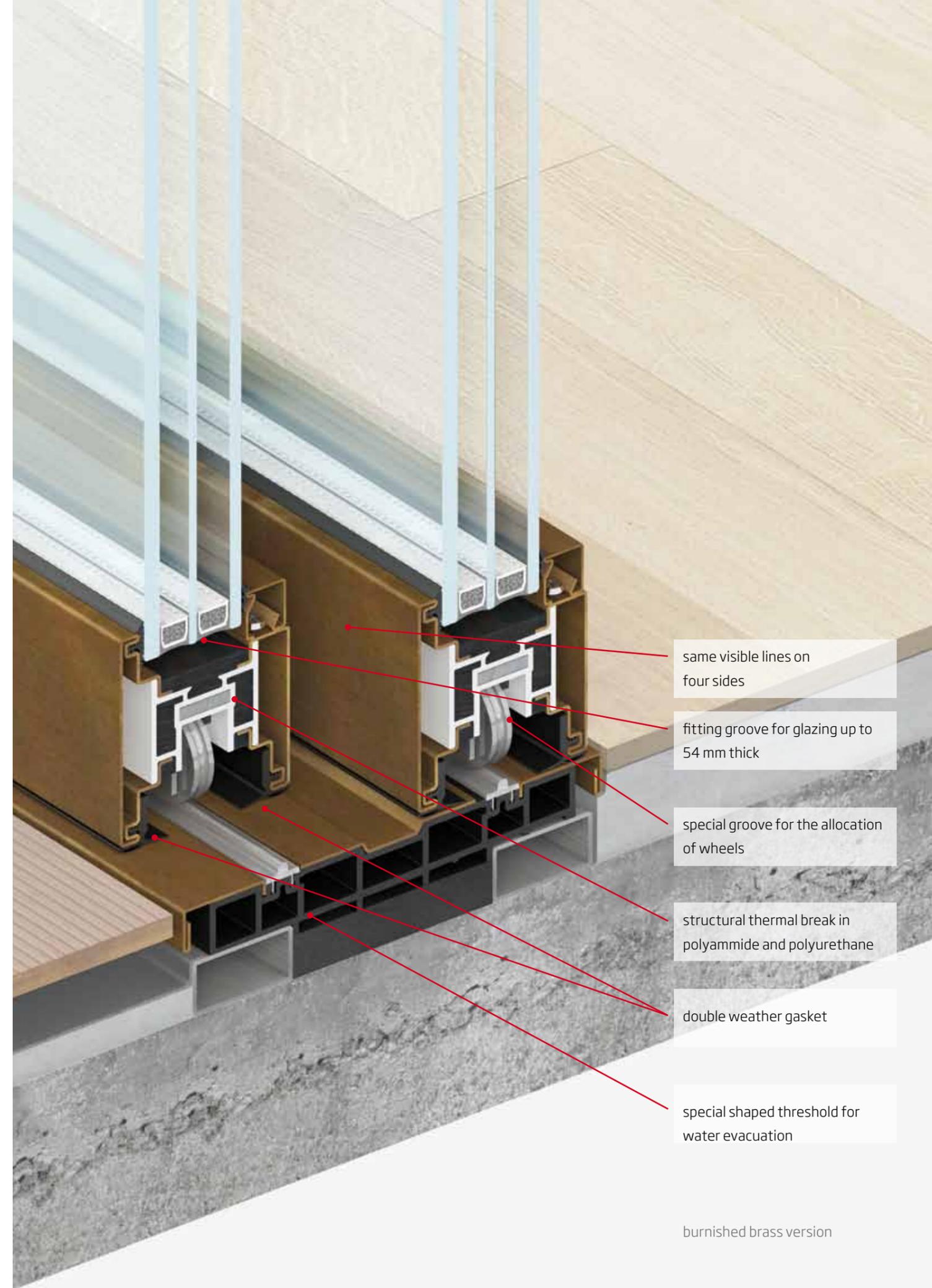
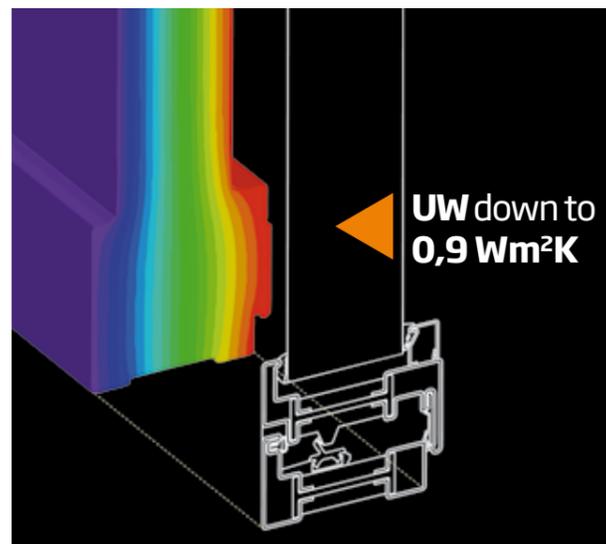
The growing importance of energy related matters raises new challenges for architecture. Designers are ever more careful to carry out eco-friendly projects with a low energy consumption.

**EBE 85** represents a new generation of cutting-edge energy-efficient door and window frames. Thanks to the enhancement of the insulating area and to the reduction of visible sections, **EBE 85** combines in one product all the functional advantages and the architectural aspects thus meeting all the requirements for sustainable projects. On the technical side, the width of the profiles makes it possible to use triple glazing, with high thermal, acoustic and safety performance and to use concealed hinges and locks for a more elegant design.

From an architectural point of view, the slender sections of the **EBE 85** windows and the possibility of having concealed wings leaves space for bigger windows, giving more drawing freedom to the designer.



- areas of application
- doors
  - windows
  - lift and slide



same visible lines on four sides

fitting groove for glazing up to 54 mm thick

special groove for the allocation of wheels

structural thermal break in polyamide and polyurethane

double weather gasket

special shaped threshold for water evacuation

burnished brass version



The current hotel complex is the result of an articulated environmental and structural regeneration project, which on one hand has turned the former Ospedale Militare (Military Hospital), dating back to the beginning of 1900, into an accommodation facility; on the other hand it has required the construction of a new building with

minimal environmental impact. The former Ospedale Militare (Military Hospital), despite not having major architectural relevance, has been restored with a faithful preservation of its external fronts while reorganising, at the same time, the internal space to ensure maximum comfort for the guests. The new building was set in the headland behind the Ospedale in

order to minimise the visual impact. The roofing of the building goes beyond the idea of the garden-roof and it becomes a whole with the surrounding landscape.

Burnished brass **EBE 85** door and window frames with thermal break have been installed in both the pre-existing and the newly built building, thus guaranteeing maximum thermal and acoustic comfort. Thanks to **EBE 85** system, it was possible to realise both the big fixed glass window, which give brightness to the rooms, and the large opening doors.

A further reason for choosing this material was the possibility to use it in a particular aggressive environment, such as the marine environment.

# EBE 85 window

## system and performance



EBE 85 window is an integrated system with accessories, seals and thermal break profiles 85 or 93,5 mm deep allowing for a wide range of windows, rectangular, shaped or curved. They can be equipped with insulating glass up to 68 mm thick. Each solution is equipped with a related set of accessories (also concealed) integrated in the system.



The sealing of the window frames is guaranteed by a three-layer sealing weep system. The performance of EBE 85 thermally insulated 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
watertightness	9A
acoustic performance (with Rw per IGU 45dB)	47 (-2;-5) dB **
thermal transmittance (with Ug glass 0.6 W/m²K)	0,99 W/m²K *
air permeability	4
break-in resistance	(WK)3

Ref: single-sash EBE 65 stainless steel 1200x2400 mm window | \* calculation ref. EN ISO 10077/1 | \*\*Ref: single-sash EBE 65 galvanised steel 1230x1480mm window

## size and variations



standard section | Frame section 85 mm



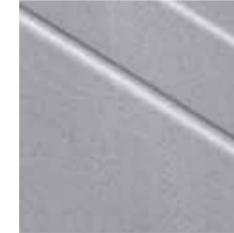
bottom section with threshold | Frame section 77 mm



central section | Frame section 145 mm

EBE 85 windows are available in two versions: one rebated on the interior and flush on the exterior with 85 mm frame sections; the other is with concealed sashes (and therefore invisible) with only an external 47 mm frame section.

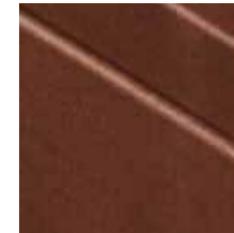
## materials



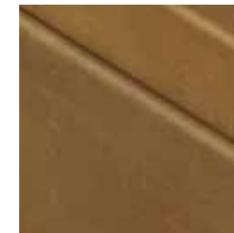
galvanised steel



stainless steel



corten steel



brass

EBE 85 is available in galvanised steel - in a wide range of colours and finishes - in AISI 304 brushed stainless steel, in AISI 316L polished or Scotch-Brite stainless steel, corten steel and in brass (OT67 copper alloy).

## glazing beads



rectangular



gothic



thin

Rectangular, gothic, thin (L shaped): the wide range of glazing beads allows for a different internal frame look according to architectural needs

## handles



DK inox 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 | d.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



tilt and turn standard  
h.85 | d.15 mm



tilt and turn stainless steel  
h.85 | d.15 mm



tilt and turn concealed



butt hinges  
h.160 | d.15 mm

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

## main type

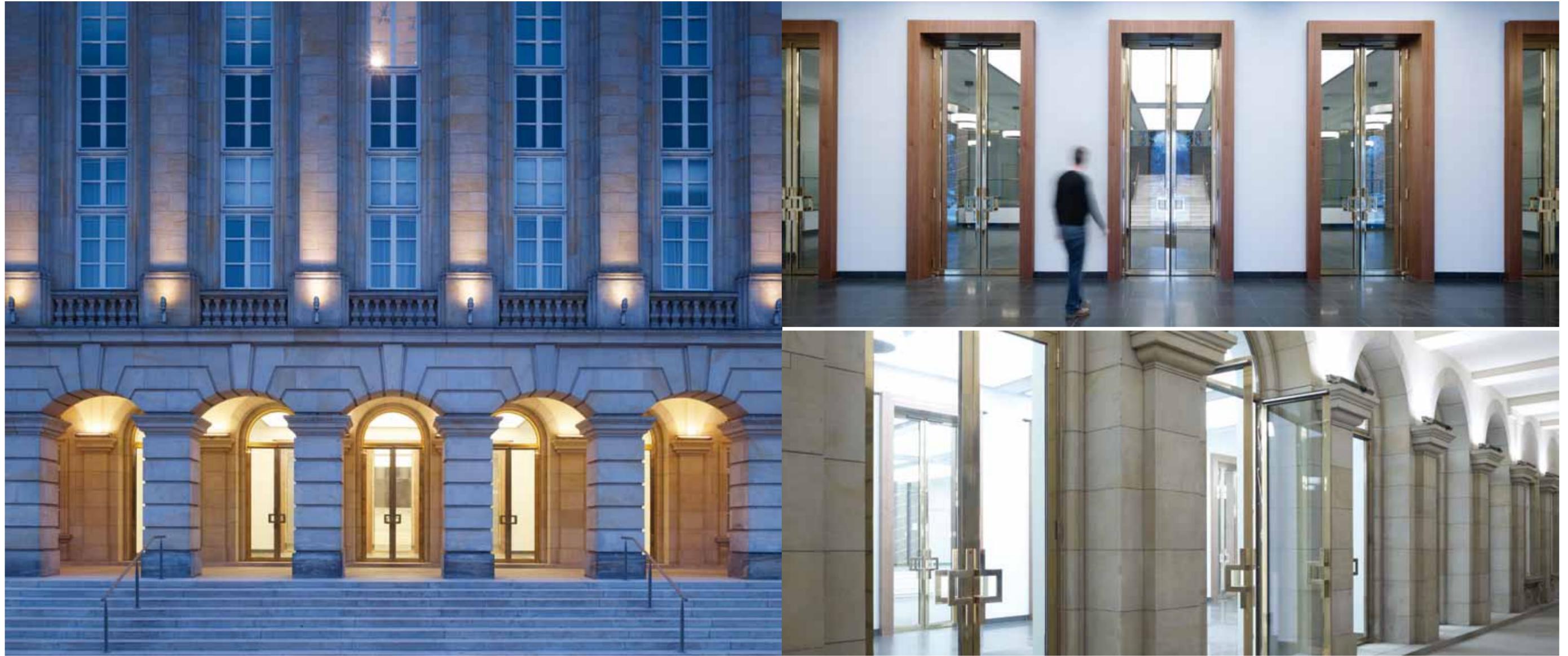


Custom solutions are available in co-operation with Secco Sistemi technical office.

**size limitations**  
1200x2400 - 1 leaf  
1480 x 3710 - 2 leaves  
**weight limitations**  
200 Kg. leaf  
130 Kg. tilt and turn

# EBE 85

Ernst-Reuter-Haus | Berlino (D)



This grand structure was built in a "neo-classic" style at the end of the 30s for a project by Karl Elkart. It represents the only example of an east-west co-operation wanted by architect Albert Speer to give magnificence to the capital of the Third Reich. It was planned as the head office of the infrastructures and various local associations and it's situated on Straße des 17 Juni in the Berlin quarter

of Charlottenburg. The building, unfinished and damaged during the war, was partly recovered during the 50s and destined as head office of the association of the municipal administration in Berlin and named after the former mayor of the city, Ernst Reuter. Now considered a national monument (therefore protected by the relevant authority) the building hosts various important services and

national associations such as the Senate's library, the national health service, the German institute for city-planning, a congress centre and a restaurant.

The restoration project was carefully designed in order to safeguard both the monumental external look and the 50s style of the internal decorations. The particular and complex use of the building persuaded the designers to redraw the lobby and the grand entrances. Big doors and windows were installed here (4,2 meters in height) made with **EBE 85** brass profiles with thermal break. The polished finish bestows

the required elegance for such an important part of the building set in the heart of the German capital. Moreover, the thermal break guarantees high performances in terms of energy saving and acoustic insulation.

# EBE 85 door

## system and performance



EBE 85 door is an integrated system with accessories, seals and thermal break profiles 85 mm deep allowing for a wide range of windows, rectangular, shaped or curved. They can be equipped with triple glazing up to 60 mm thick.

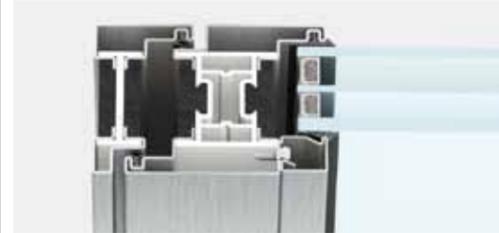


The sealing of the door frames is guaranteed by a three-side rebate double seal and an automatic retractable seal. Each solution is equipped with a related set of accessories (also concealed) integrated in the system. The performance of EBE 85 thermally insulated system has been tested by the best European certifying labs under the reference standard EN 14351-1.

wind resistance - test pressure	5
wind resistance - frame bending	C
watertightness	2A
acoustic performance (with Rw per IGU 42 dB)	42 (-1;-3) dB *
thermal transmittance (with Ug glass 0.6 W/m²K)	1,12 W/m²K **
air permeability	3
break-in resistance	(WK)3

Ref: two-leaf EBE 65 galvanised steel 2400x2400 mm door | \*\* calculation ref. EN ISO 10077/1 | \*Ref: single-leaf EBE 65 galvanised steel 900x2235 mm door

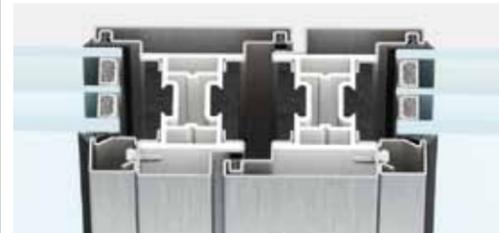
## size and variations



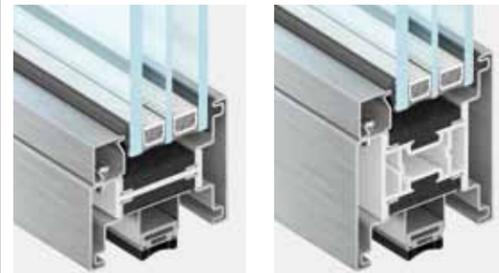
slim section | frame section 109mm  
solution for butt and weld-on hinges



standard section | frame section 134mm  
solution for three-wing and concealed hinges



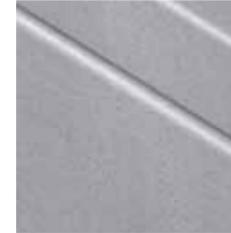
central section | Frame section 156 mm



standard and slim bottom rail | frame section 69 and 94mm

EBE 85 is an interior and exterior flush door. The solution with butt or weld-on hinge has a 109mm lateral frame section. By using three-wing or concealed hinges, the lateral face section becomes 134 mm.

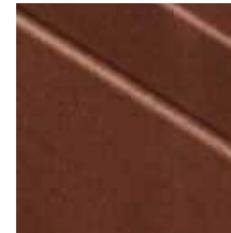
## materials



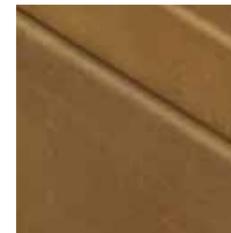
galvanised steel



stainless steel



corten steel



brass

EBE 85 is available in galvanised steel - in a wide range of colours and finishes - in AISI 304 brushed stainless steel, in AISI 316L polished or Scotch-Brite stainless steel, corten steel and in brass (OT67 copper alloy).

## glazing beads



rectangular



gothic



thin

Rectangular, gothic, thin (L shaped): the wide range of glazing beads allows for a different internal frame look according to architectural needs

## handles



stainless steel 5002  
h.150 | d.20 mm



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



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



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

The 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.

## hinges



weld-on  
h.145 | d.20 mm



three-wing flush  
h.130 | d.20 mm



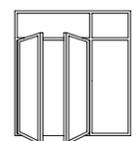
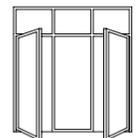
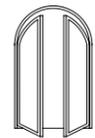
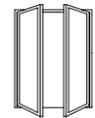
three-wing butt hinge  
h.160 | d.22,5 mm



concealed

Weld-on hinges are in galvanised and stainless steel. Three-wing hinges are adjustable and are supplied in galvanised steel, stainless steel, burnished stainless steel. A three-wing hinge is provided also in corten steel.

## main type



All models can be made to open inward or outward

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

# EBE 85

## Detached Villa | Szentendre (H)



Szentendre is a Hungarian town on the river Danube near Budapest at the feet of the Pilis hills. From the top of these hills one can enjoy a breathtaking view of the bigger island on the Danube. The town has slowly developed from holiday destination to a new residential area, with isolated buildings surrounded by ample gardens. Although the majority of the buildings in the area have pitched

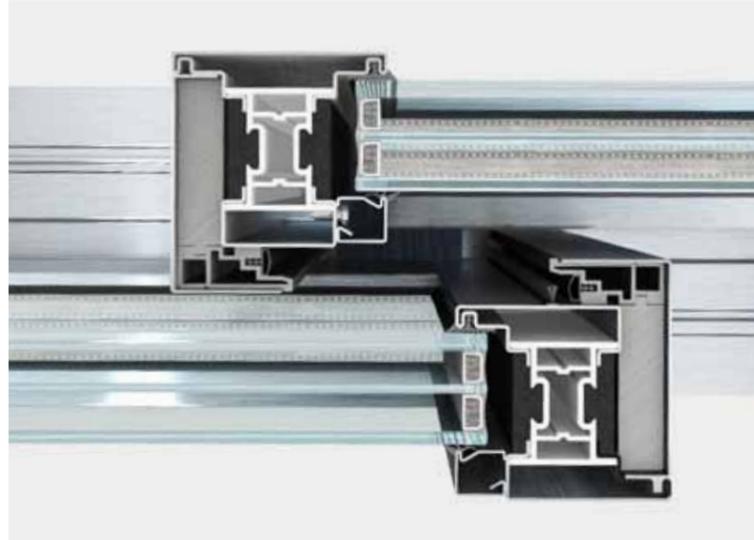
roofs, the designer has built a detached villa with a flat roof. The result is breathtaking: the villa and the terraces perfectly fit in with the natural sloping ground and in the surrounding landscape.

The sliding doors, the windows and the ample glazing has been finished in polished stainless steel **EBE 85** profiles with thermal break, a system that makes it possible to work with large surfaces without compromising the performance standards. An invisible barrier is therefore created between the garden and the house, a barrier that doesn't interfere with the spectacular view of the

surrounding landscape. The polished finish makes the villa unique.

# EBE 85 lift and slide doors

## system and performance

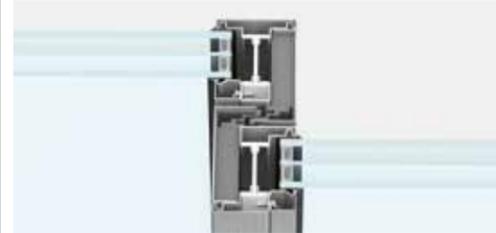


EBE 85 lift and slide doors is an integrated system with accessories, seals and thermal break profiles 85 mm deep. This makes it possible to produce lift and slide door and window frames with one to four panels of big dimensions and weight (up to 400 Kgs.). They can be fitted with triple glazing up to 60 mm thick. The sealing of the lift and slide frame is guaranteed by a four-side double seal system. Each solution is equipped with a set of concealing accessories integrated in the system. The performance of EBE 85 lift and slide doors thermally insulated sliding system has been tested by the best European certifying labs under the reference standard EN 14351-1.

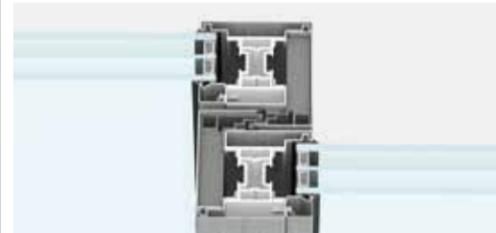
wind resistance - test pressure	3
wind resistance - frame bending	C
watertightness	8A
acoustic performance (with Rw per IGU 52 dB)	43 (-1;-4) dB **
thermal transmittance (with Ug glass 0,6 W/m²K)	1,1 W/m²K *
air permeability	4
break-in resistance	(WK)2

Ref: two-leaf EBE 85 brass lift and slide door 3800x3000mm | \*calculation ref. EN ISO 10077/1 | \*\*Ref: single-leaf EBE 85 brass lift and slide door with fix frame 4380x3000 mm

## size and variations



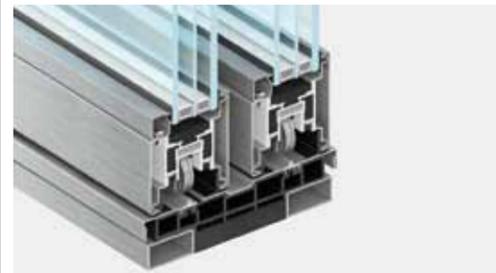
reduced central section | frame section 69mm



standard central section | frame section 94mm



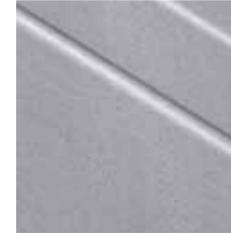
upper section | h 133 mm



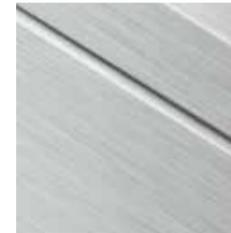
bottom section with threshold | h 97-122 mm

EBE 85 lift and slide doors are available with 69 or 94 mm frame sections.. There are two solutions available for the threshold: with floor guide track or with guide track integrated in the frame with a drainage system.

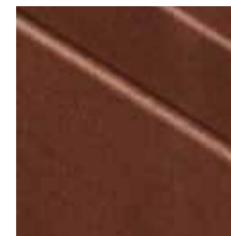
## materials



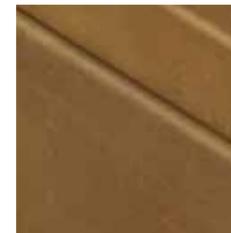
galvanised steel



stainless steel



corten steel



brass

EBE 85 is available in galvanised steel - in a wide range of colours and finishes - in AISI 304 brushed stainless steel, in AISI 316L polished or Scotch-Brite stainless steel, corten steel and in brass (OT67 copper alloy).

## glazing beads



rectangular



gothic



thin

Rectangular, gothic, thin (L shaped): the wide range of glazing beads allows for a different internal frame look according to architectural needs

## handles



stainless steel handle for sliding door  
h.280 | d.20 mm

The system allows for different handles to be fitted

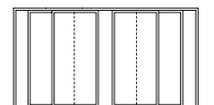
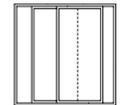
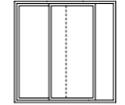
## accessories



automated system for lift and slide doors

The automated system for lift and slide doors can be used for leaf up to 400 kg

## main type

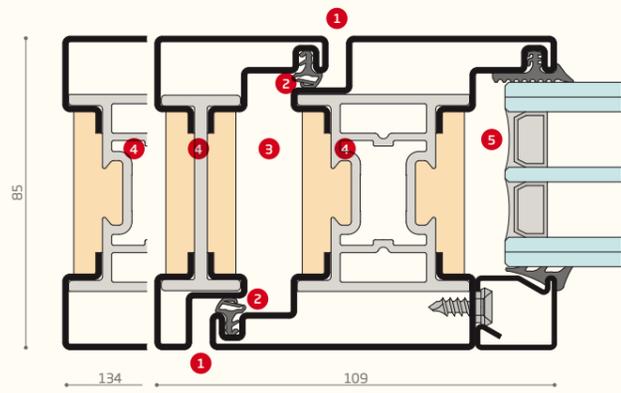


Single or two-leaf lift and slide doors can be produced with or without fixed side leaves. Custom solutions are available in co-operation with Secco Sistemi technical office.

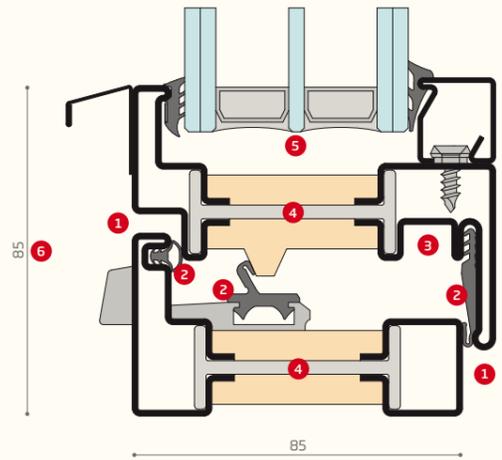
leaf size limitations  
w.2208 | h.2907  
weight limitations  
400 Kg.

# EBE 85

## main sections

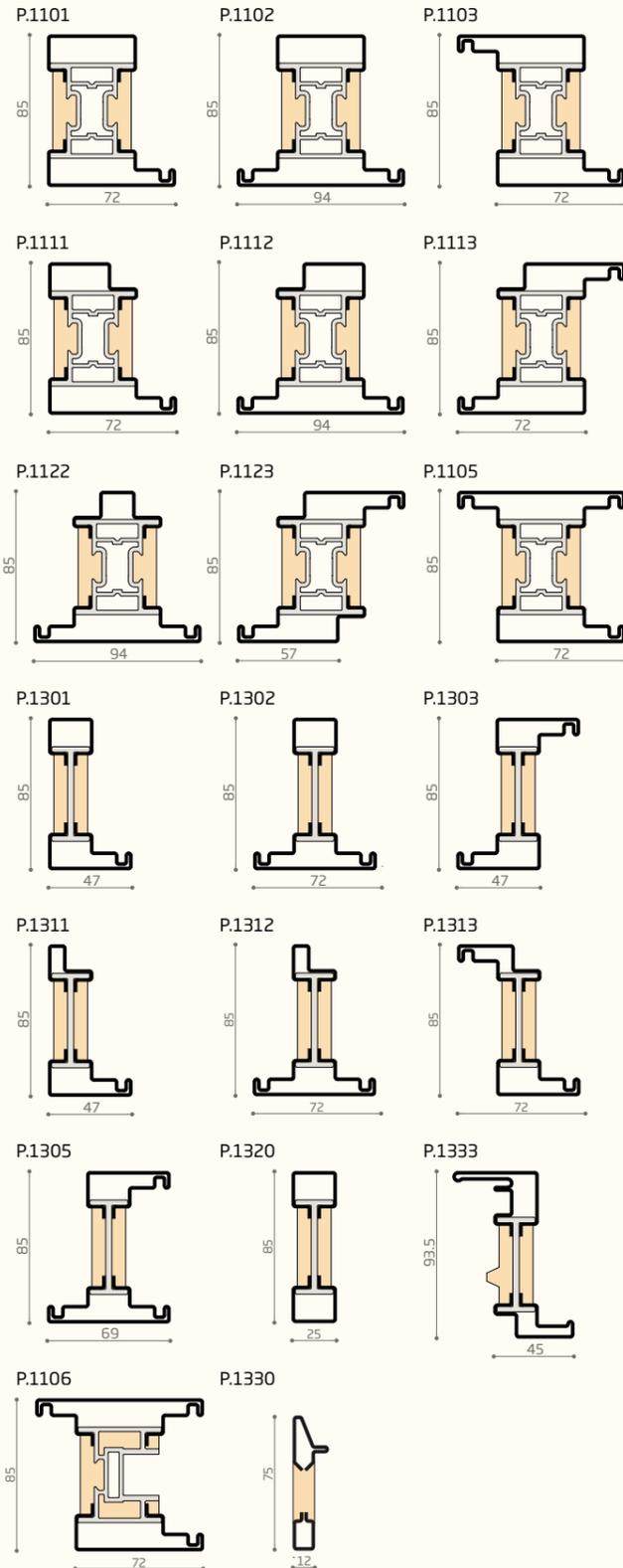


1. internal and external flush
2. double rebate seal
3. eurogroove for accessories
4. structural thermal break in polyamide and polyurethane
5. fitting groove for glazing up to 60 mm thick

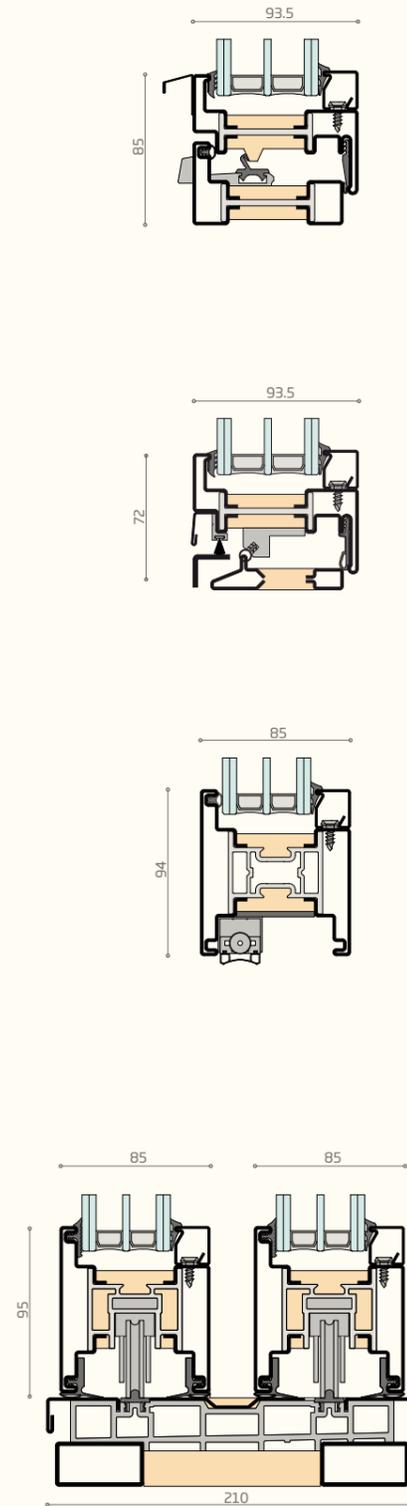


1. flush on the exterior and rebated on the interior
2. frame with weep system and triple gasket
3. wood/pvc fitting groove for hardware
4. structural thermal break in polyamide and polyurethane
5. fitting groove for glazing up to 68 mm
6. section with reduced size

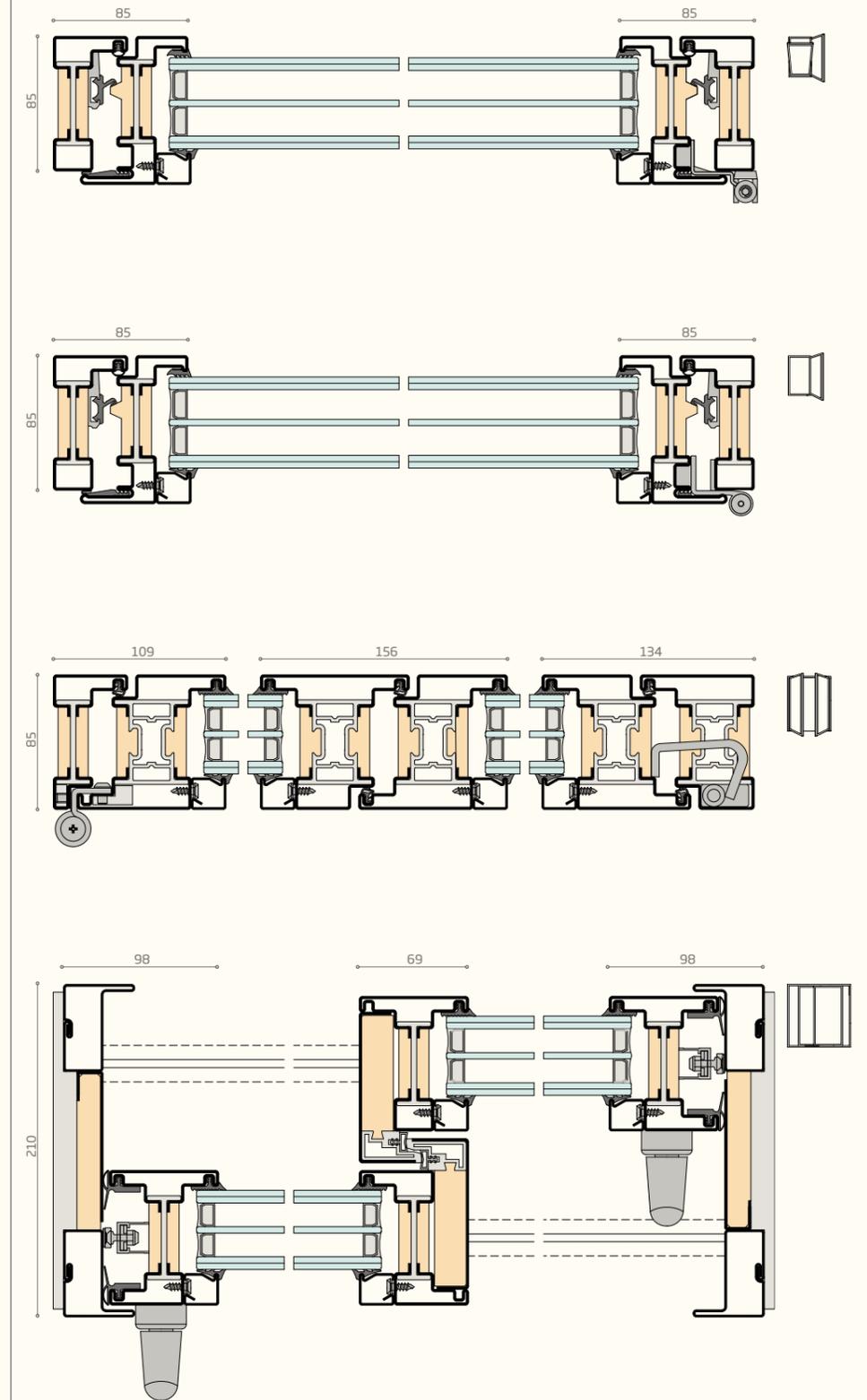
## profiles



## vertical section



## horizontal section



# EBE 85 because

- increased thermal insulation with **Uw value down to 0,9 W/m<sup>2</sup>K**
- **very large elements** with leaves up to 3710mm high and 200Kg weight (windows) and up to 3000mm high and 400Kg weight (lift and slide doors)
- **available** in four different materials and even more finishes: **galvanized steel, cor-ten steel, brass, bronze, stainless steel** with brushed (304), scotch brite or polished (316L) surface
- **different opening types to choose** from: in or out-swing doors, lift and slide doors, tilting windows, top hung windows, tilt and turn windows
- **very high structural strength** thanks to the special thermal break assembly
- **remarkable performances** in terms of air permeability, watertightness, resistance against wind load and acoustic insulation
- **different glazing beads** available for more flexibility
- **hinges and handles** available in the same material and finish as the frame
- **concealed accessories** for windows (hinges), doors (hinges and door closer) and lift and slide doors (motorization)



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