

BV

75

give shape to
the minimal

METALFORM





History

During the first English industrial revolution at the end of the 1700s, electric lighting was not yet widely used and natural light was used to the fullest to illuminate the working environments through the opening of large windows. The frames were built with simple steel profiles in the shape of T Z L to support small glass plates of about 30x30 cm, the maximum dimensions available at that time. The frames composed in that way had the typical checkerboard design called "Inglesina" due to their origin. The simple "T Z L" profiles evolved to adapt to residential buildings, changing the surfaces from flat to molded "beveled"; to decorate the frame, we continue to shape of the glazing bead and above all make the window profile similar to that of elegant wooden windows, more suitable for residential buildings and moving away from industrial aesthetics. Secco Sistemi re-proposes the "beveled" style with BV 75, profiles with a molded shape on the outside, to satisfy the most careful needs of designers both in restoration and in traditional buildings.



BV 75

has been designed to manufacture windows with the same molding on the outside and inside while maintaining the innovative technology and high performance characteristics of OS2 systems. The beveled shapes of the profile and the glazing beads are symmetrical with respect to the glass, in the axis of the window section. The frame thus takes shape, giving the exterior elevation the same depth as the interior.

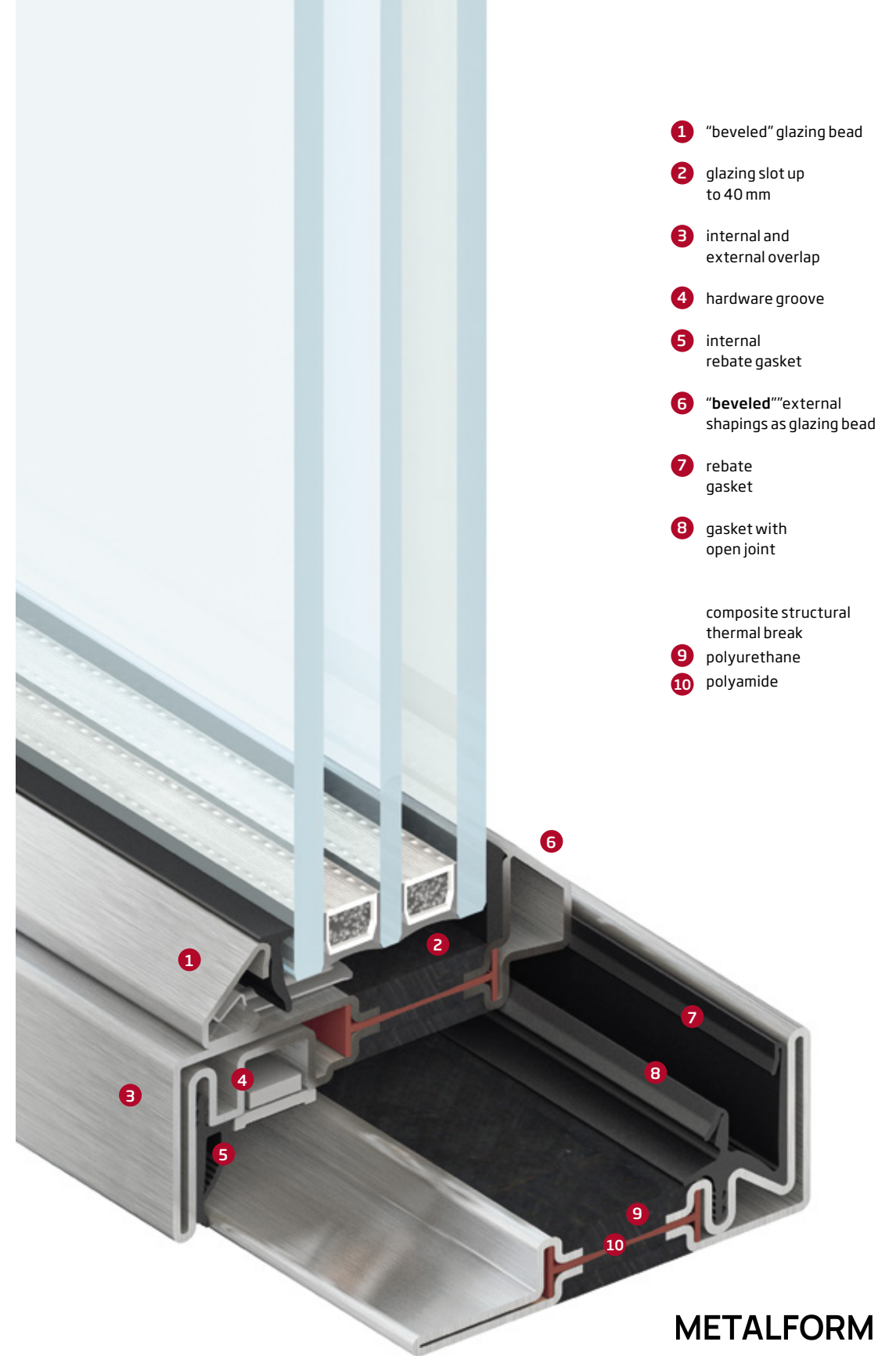
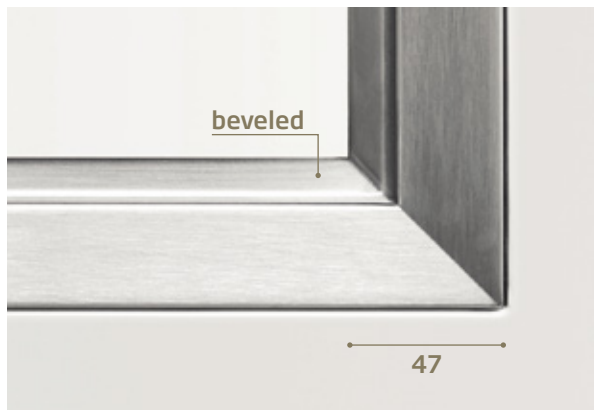
The external view is equal
to the internal view.

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BV 75

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 40mm.

external view



BV 75

window corner



window corner in corten
steel - external view



window corner in corten
steel with BV glazing
bead - internal view

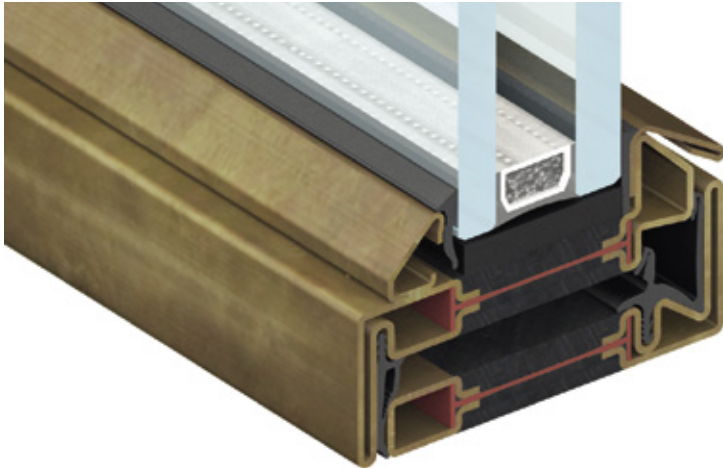
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BV 75 window

inward-opening

system and performance

size and variations



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/m ² K)	1,38 W/m ² K
air permeability	4

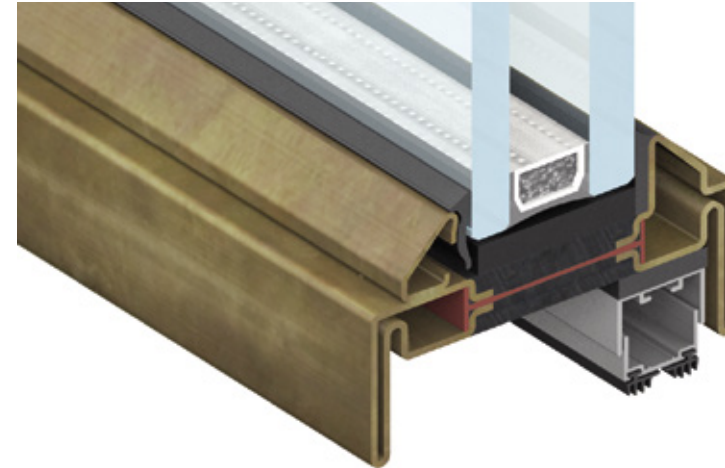
maximum achievable performance

BV 75 door

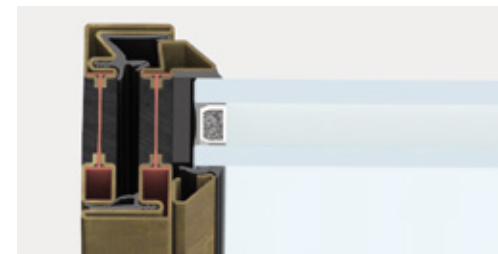
inward-opening

system and performance

size and variations



lower point | frame section 47 mm



lateral point | frame section 47 mm



central point | frame section 62 mm

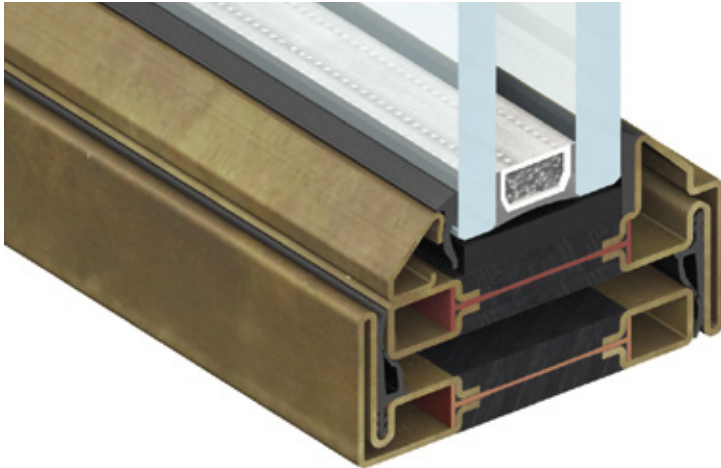
wind resistance - test pressure	1
wind resistance - frame bending	C
water tightness	1A
thermal transmittance (with Ug glass 1.0 W/m ² K)	1,35 W/m ² K
air permeability	4

maximum achievable performance

BV 75 window outward-opening

system and performance

size and variations



lower point | frame section 47 mm



lateral point | frame section 47 mm



central point | frame section 62 mm

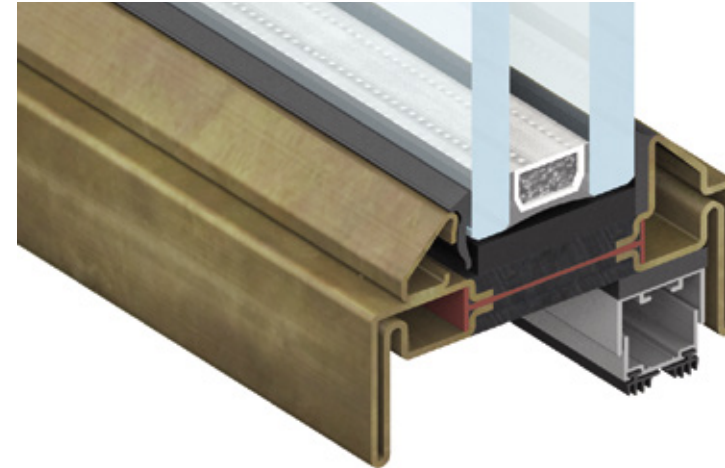
wind resistance - test pressure	4
wind resistance - frame bending	C
water tightness	8A
thermal transmittance (with Ug glass 1.0 W/m ² K)	1,38 W/m ² K
air permeability	3

maximum achievable performance

BV 75 door outward-opening

system and performance

size and variations



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/m ² K)	1,35 W/m ² K
air permeability	3

maximum achievable performance

BV 75

Villa Casole d'Elsa | Siena



The farmhouse is set in the beautiful setting of the Tuscan countryside, a few kilometers away from Siena and is part of a large project dedicated to the redevelopment of rural buildings.

The restoration has envisioned the maintenance of the original size of the windows and doors as well as the closing of wide arches of the porches using BV 75 windows for the

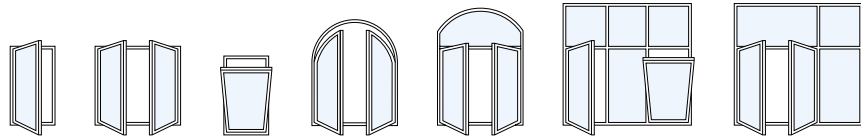
construction of new rooms. The BV 75 system has been used because of its profiles which are shaped like the original wooden windows and doors, creating continuity between the wooden and steel frames on the façade of the building.

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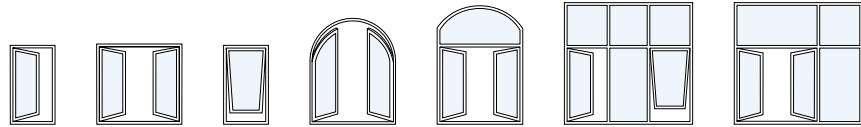
BV 75

type of opening

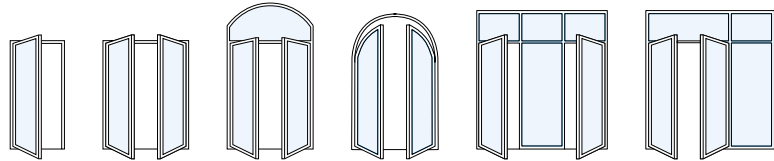
window
inward opening
with tilt & turn
mechanism



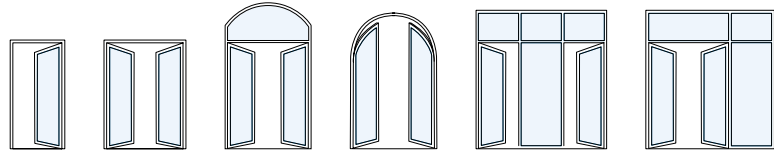
window
outward opening



door
inward opening



door
outward opening



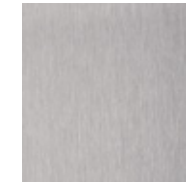
BV 75

materials

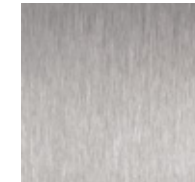
stainless steel



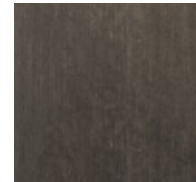
polished 316L
stainless steel



scotch brite 316SB
stainless steel

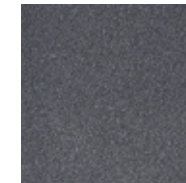


satin-finished 304
stainless steel



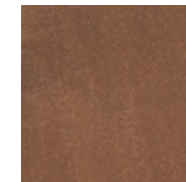
burnished 316SB
stainless steel

galvanised steel

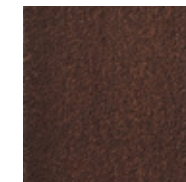


painted galvanised
steel

corten steel

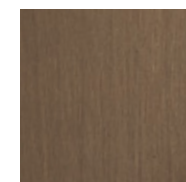


oxidised corten
steel



waxed oxidised
corten steel

brass



patinated OT67
brass



satin-finished OT67
brass

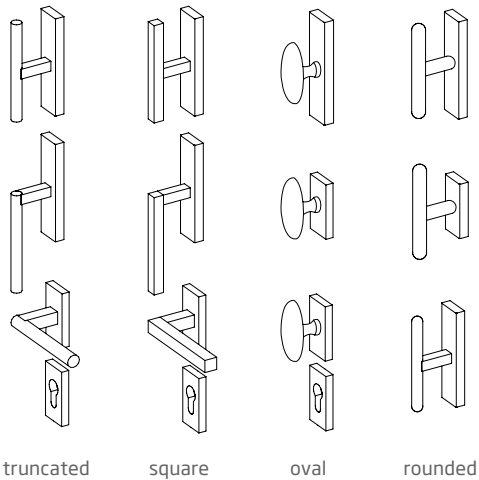


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Handles

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

Vitruvio



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Glazing beads

the small profiles placed in front of the glass to secure it are also elements of the frame design and make it unique



beveled



thin



triangular



rectangular

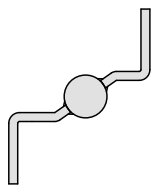


rounded square

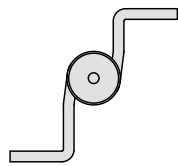


Hinges

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



two-winged
Ø 12 mm



three wings
Ø 15 mm



to weld
Ø 13 mm



BV 75

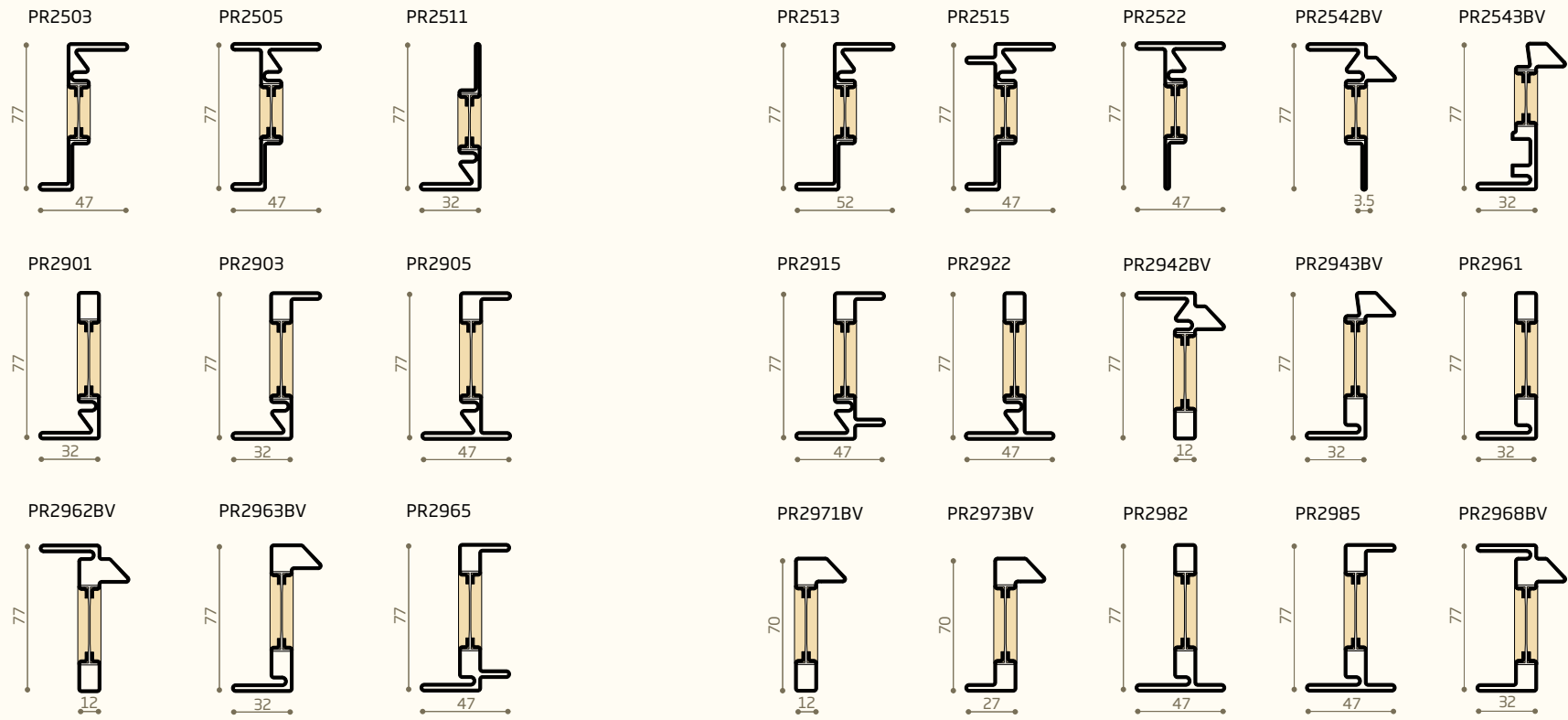
Kunsthau Dahlem | Berlin



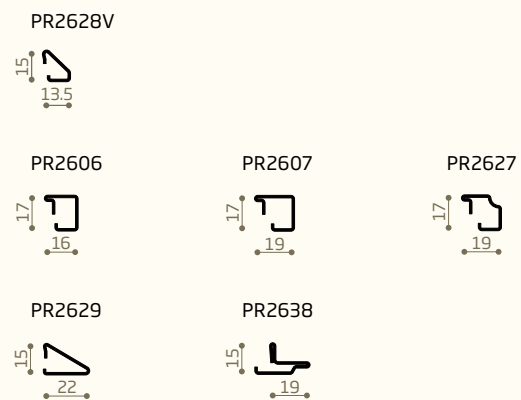
system 052 BV material painted
galvanised steel design Petra and
Paul Kahlfeldt officina Jens Schröter
Metallbau GmbH location Berlin -
Germany

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profiles

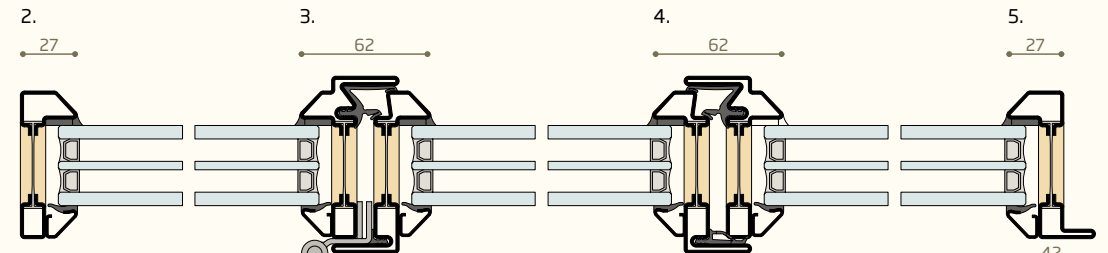
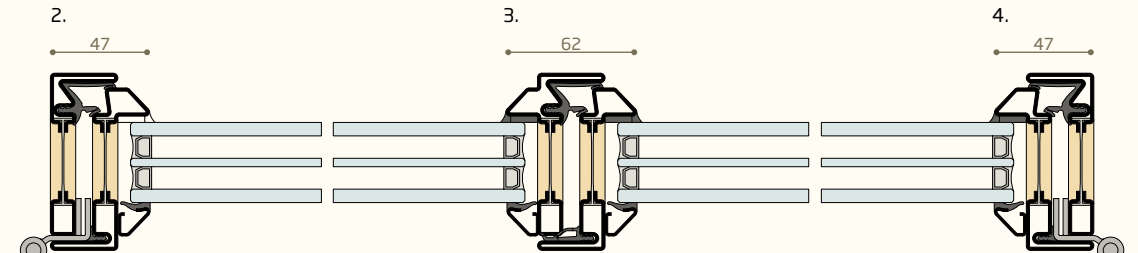
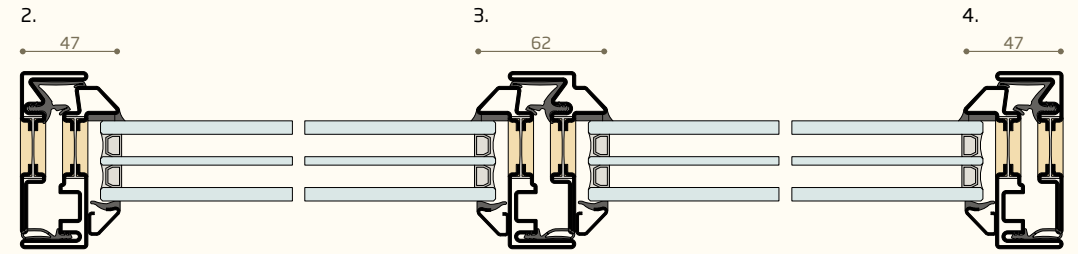
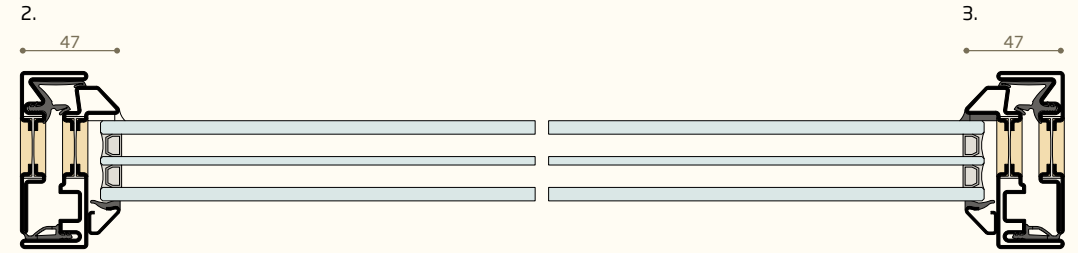
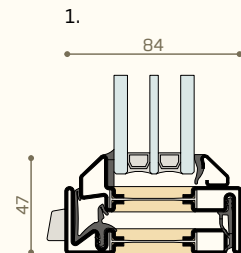
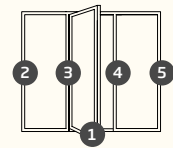
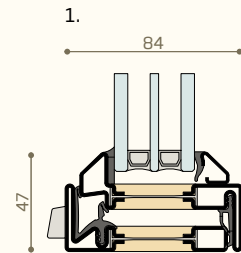
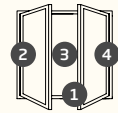
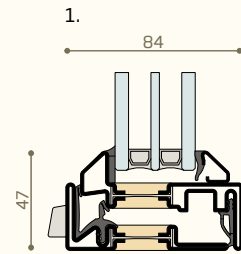
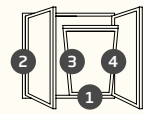
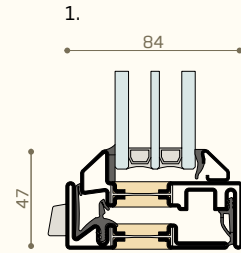
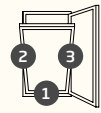


glazing beads



BV 75

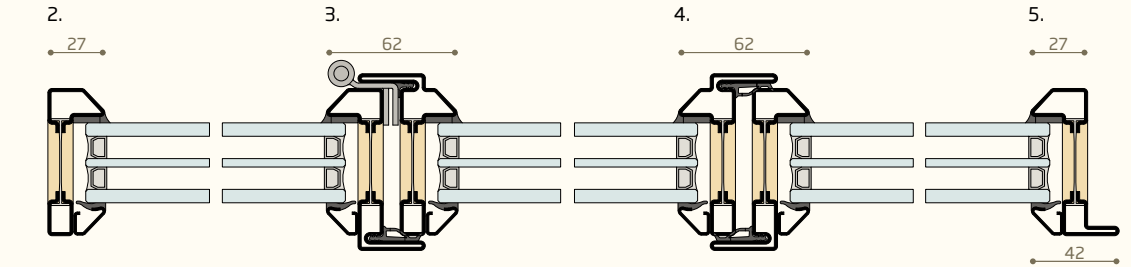
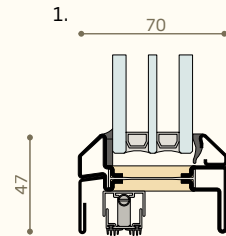
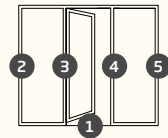
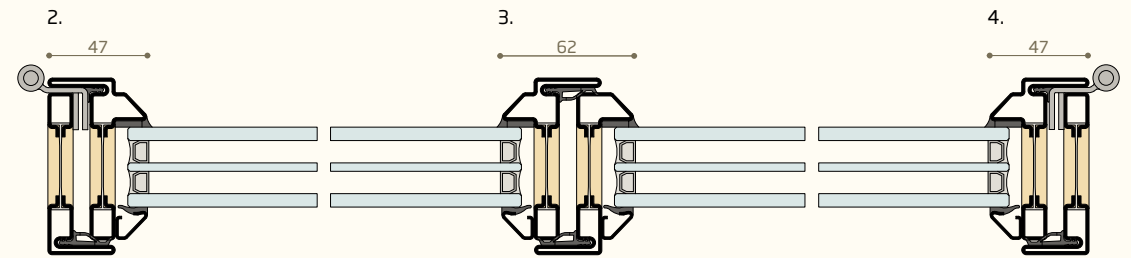
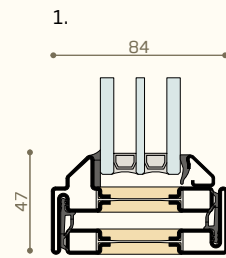
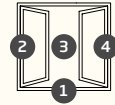
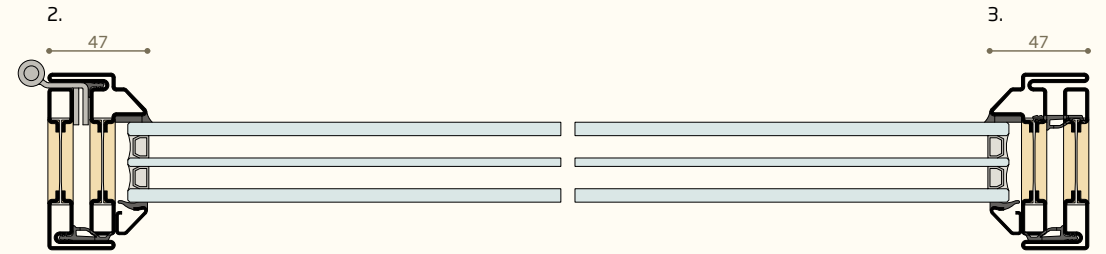
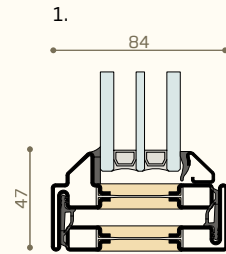
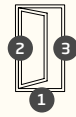
inward
opening
sections



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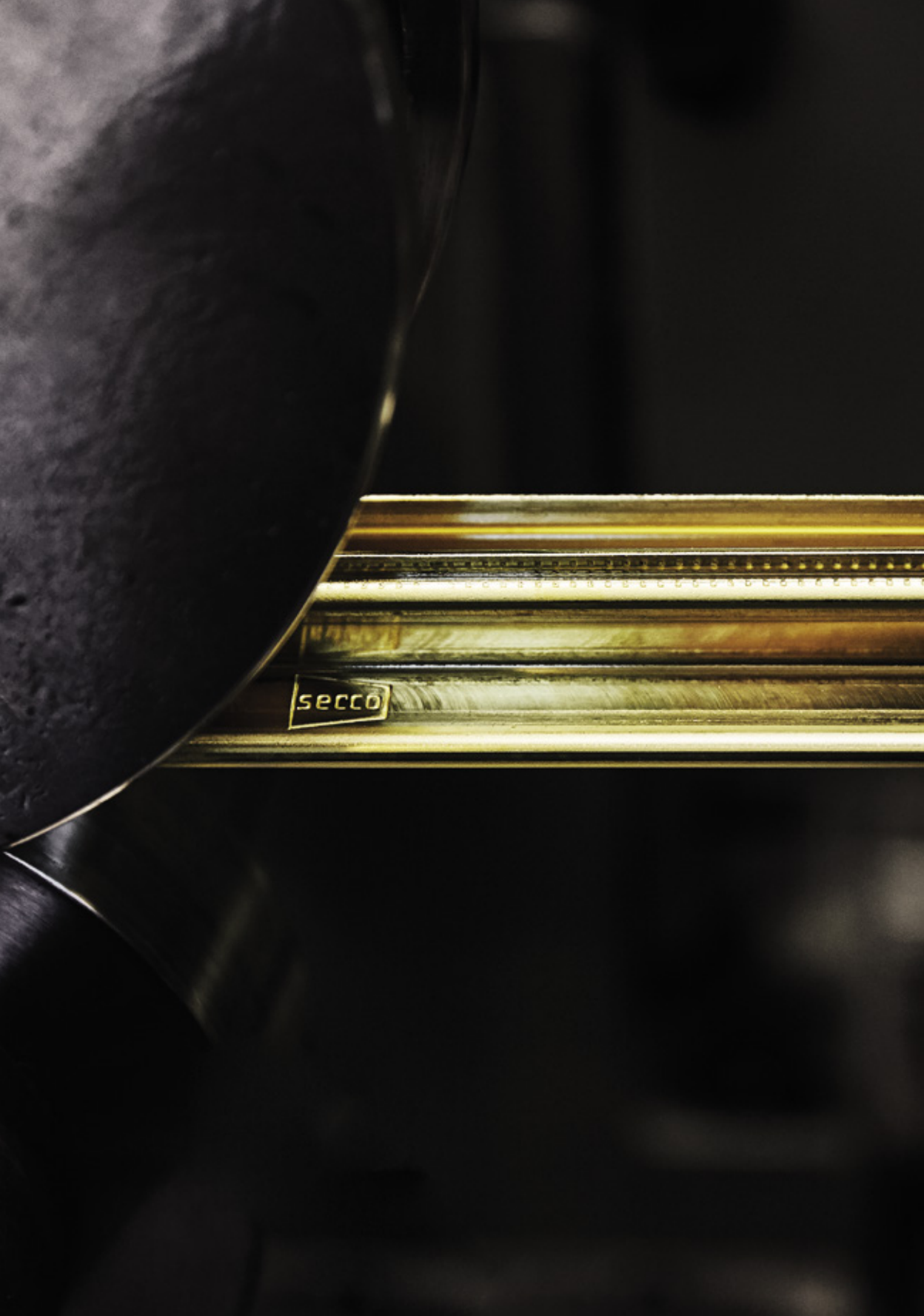
BV 75

outward
opening
sections





METALFORM



Secco Sistemi is an Italian brand that symbolises innovation and design awarded with “Compasso d’Oro”. It has been contributing to the evolution of the engineering of doors and windows for 70 years, inventing systems and profiles that have become benchmarks for the industry of this sector, and continuing to improve them and interpret the latest projects and trends of contemporary architecture. So far 340 profiles have been developed in 4 select metals - galvanised steel, stainless steel, corten steel and brass - and in 9 different finishes with an annual production of 2.8 million linear metres of profiled bars for 280,000 doors and windows.

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