

METALFORM

MASTERS OF METAL

**BV 75: Inward and Outward Opening Doors and Windows | Tilt and
Turn | In Stainless Steel**

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Supply and installation of doors, windows, and facades, featuring inward and outward opening doors and windows built with thermal break profiles Secco Sistemi BV 75. The frame sections are crafted by seamlessly joining two metal shells (one whole and one external) with extruded polyamide filled with fiberglass and joined to the parts by high-density polyurethane resin. The metal shells are obtained by cold-rolling profiling strips of stainless steel AISI 316L Marine (X2 CrNiMo 17-12-2), meeting the standards of 15/10, EN10088-2, and EU114, with a Scotch Brite finish.

The folding unit must remain open to allow for the insertion of stainless steel alignment brackets, even in cases of continuous surface welding. Assembly of the frames involves continuous welding of the contact surfaces followed by grinding and restoration of the surface finish.

The system incorporates internal and external overlapping of the profiles with minimally visible sections: a fixed side node measuring 27 mm, a side sash node measuring 47 mm, and a central node for the two wings measuring 62 mm, with a mandatory depth of 77 mm.

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Frame Design Options:

- Option 1: All nodes, both fixed and openable, starting from 62 mm, identical to each other, making the fixed parts indistinguishable from the openable parts, enabling the windows to be coplanar to each other.
- Option 2: Distinct nodes for fixed and openable parts, minimizing their dimensions as much as possible, with the option of inserting (or not inserting) coplanar glass between them. The external part of the sash profile is beveled at an angle like the glazing bead, providing depth to the external elevation of the window/door and aligning the glass with the sash section.

The water, air, and wind sealing system feature triple mortise gasket for inward opening windows, double mortise gasket for outward opening windows and doors, and a mobile sill for floors for doors. A sufficient number of Corten steel screw-on water drains are provided in the windows.

Hardware and Accessories:

- Windows and doors feature hinges to be screwed on, stainless adjustable, available with Ø12 mm for capacities up to 50 kg per sash or Ø15 mm for capacities up to 100 kg per sash.
- *Tilt&Turn/sash window opening* with concealed hinges (130 kg load-bearing capacity) and outer hardware with an appropriate number of locking points depending on the sash size. Internal bolt locking system with lower and

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upper ends and additional locking points depending on the size of the opening doors.

- The doors are complete with locks with various locking points depending on the height of the sashes and lock cover boxes/reinforced profiles in stainless steel.

Surfaces are oxidized Scotch Brite for surfaces. The handles are available in different shapes, materials, and finishes, including stainless steel.

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