

# **METALFORM**

**MASTERS OF METAL**

**BV 75 Inward and Outward Opening Doors and Windows | Tilt and  
Turn | Galvanized Steel**

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## Galvanized Steel

### **BV 75 Inward and Outward Opening Doors and Windows | Tilt and Turn | Galvanized Steel**

Supply and installation of doors, windows, and facades, featuring inward and outward opening functionality, built with thermal break profiles Secco Sistemi BV 75. The frame sections are constructed by seamlessly joining two metal shells (one whole and one external) with extruded polyamide filled with fiberglass, connected to the parts by high-density polyurethane resin. The metal shells are derived from cold-rolling profiling strips of steel, with a thickness of 15/10, employing the hot-dip galvanized "Sendzimir system," with a skin-passed finish (FeP02 GZ 200) and a zinc coating of  $\geq 200$  gr/sqm, adhering to UNI EN 10142/3/7 and EURONORM 143 standards.

The folding unit must be kept 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 facilitates internal and external overlapping of profiles, featuring minimally visible sections: a fixed side node measuring 27 mm, 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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The frames offer the following options:

- **All nodes:** Both fixed and openable, starting from 62mm and identical to each other, making the fixed parts indistinguishable from the openable parts, enabling windows to be coplanar.
- **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, giving depth to the external elevation of the window/door and placing the glass in axis with the sash section.

The water, air, and wind sealing system includes a triple mortise gasket for inward opening windows, with two sealing levels (one of which is open-joint), and a double mortise gasket for outward opening windows and doors (one level of closed joint gasket). A mobile sill for floors for doors is also provided. Adequate Corten steel screw-on water drains are integrated into the windows.

The frames come complete with glass, available in various types and fixed with glazing beads (options include beveled, squared, square rounded, triangular, thin), in galvanized steel to be varnished, spaced from the external surfaces by EPDM or silicone gaskets, and from the internal surfaces by pressure-inserted EPDM gaskets. Windows and doors without a tilting sash feature hinges to be screwed on, with options for galvanized steel to be varnished, adjustable and

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available with two wings (Ø12 mm for capacities up to 50 kg per sash) or with three wings (Ø15 mm for capacities up to 100 kg per sash).

Additional features may include a 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, as well as an internal bolt locking system with a lower and upper end, with additional locking points depending on the size of the opening doors. The doors are equipped with locks featuring various locking points depending on the height of the sashes and lock cover boxes/reinforced profiles in painted pickled steel.

Surfaces are oxidized and varnished with powder at a temperature of 180° for 25 minutes in a furnace. The handles complete the set and are available in different shapes, materials, and finishes, including raw brass to be varnished.

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