

METALFORM

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**Galvanized Steel OS2 75 Inward and Outward
Opening Doors and Windows | Tilt and Turn |**

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Galvanized Steel OS2 75 Inward and Outward Opening Doors and Windows | Tilt and Turn I

- Supply and installation of doors, windows, and facades, including fixed and openable sashes, designed for inward and outward opening doors and windows. These are built with thermal break profiles from Secco Sistemi OS2 75. The frame sections are constructed by seamlessly joining two metal shells, one whole and one external, using extruded polyamide filled with fiberglass and joined to the parts by high-density polyurethane resin. The metal shells are formed by 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), ensuring a zinc coating of ≥ 200 gr/sqm, in compliance with UNI EN 10142/3/7 and EURONORM 143 standards.
- The folding unit remains open to facilitate 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 allows for the internal and external overlapping of the profiles, with minimally visible sections as follows: fixed side node measuring 27 mm, side sash node measuring 47 mm, central node for the two wings measuring 62 mm, and a mandatory depth of 77 mm.

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- The frames are equipped with a water, air, and wind sealing system, including triple mortise gaskets for inward opening windows (with two sealing levels, one of which is open-joint), and double mortise gaskets for outward opening windows and doors (with one level of closed joint gasket). Mobile sills for floors are provided for doors, along with a sufficient number of Corten steel screw-on water drains in the windows. The frames come complete with glass, fixed with glazing beads in galvanized steel to be varnished, spaced from external surfaces by EPDM or silicone gaskets, and from internal surfaces by pressure-inserted EPDM gaskets.
- Windows and doors, when there is no tilting sash, are equipped with hinges to be screwed on, galvanized steel to be varnished, adjustable, 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). Tilt&Turn/sash window opening is facilitated with concealed hinges (130 kg load-bearing capacity) and outer hardware with an appropriate number of locking points depending on the sash size. An internal bolt locking system with a lower and upper end, along with a sufficient number of additional locking points, is provided for the size of the opening doors. The doors are complete with locks featuring various locking points depending on the height of the sashes and lock cover boxes/reinforced profiles in painted pickled steel.

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- 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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