

METALFORM

MASTERS OF METAL

OS2 65

**Inward and outward opening doors and
windows in corten steel**

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Corten steel

OS2 65

Inward and outward opening doors and windows in corten steel.

Supply and installation of doors, windows, and facades, in fixed and openable sashes, for inward and outward opening doors and windows, built with thermal break profiles Secco Sistemi OS2 65.

The frame sections are made by seamlessly joining two metal shells (one whole and one external) with extruded polyamide filled with fibreglass and joined to the parts by high-density polyurethane resin. The metal shells are obtained by cold-rolling profiling strips of Cor-Ten steel (Fe510X) with a thickness of 15/10, according to eN1049 standard.

The folding unit must be kept open so that the stainless steel alignment brackets can be inserted, even in the case of continuous surface welding. The assembly of the frames is carried out by continuous welding of the contact surfaces followed by grinding and restoration of the surface finish.

The system provides for the internal and external overlapping of the profiles and the following minimally visible sections:

- Fixed side node measuring 27 mm
- Side sash node measuring 47 mm

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- Central node for the two wings measuring 62 mm
- Mandatory depth of 65 mm.

The frames have the following options:

- All the nodes, both fixed and openable, starting from 62mm and identical to each other, making the fixed parts indistinguishable from the openable parts, enabling the windows to be coplanar to each other.
- 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.

Water, air, and wind sealing system:

- For inward opening windows with triple mortise gasket (two sealing levels, one of which is open-joint).
- For outward opening windows and for doors with double mortise gasket (one level of closed joint gasket).
- Mobile sill for floors for doors.

A sufficient number of Corten steel screw-on water drains are provided in the windows.

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The frames are complete with glass, fixed with glazing beads in corten steel, spaced from the external surfaces by means of EPDM or silicone gaskets, and from the internal surfaces by means of pressure-inserted EPDM gaskets.

Doors and casement windows are equipped with hinges to be screwed on, adjustable and 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).

Internal bolt locking system with a lower and upper end, and a sufficient number of 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 corten steel.

Oxidized Surfaces finished with acid etching, oxidation, passivation, and waxing processes.

The handles complete the set and are available in different shapes, materials, and finishes, including corten steel.

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