

# **METALFORM**

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**BV 75 Hinged Galvanized Steel**

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## Galvanized Steel

### BV 75 Hinged Galvanized Steel

Supply and installation of doors, windows, and facades, in fixed and openable sashes, for doors with a hinged inward or outward opening built with thermal break profiles Secco Sistemi BV 75.

#### **Frame Construction:**

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 steel with a thickness of 15/10, featuring a hot-dip galvanized "Sendzimir system" skinpassed finish (FeP02 GZ 200), with a zinc coating  $\geq 200$  gr/sqm, meeting UNI EN 10142/3/7 and EURONORM 143 standards.

#### **Assembly and Structure:**

The folding unit must be kept open to insert the stainless steel alignment brackets, even in the case of continuous surface welding. Assembly of the frames is conducted through continuous welding of the contact surfaces followed by grinding and surface finish restoration. The system provides for internal and external overlapping of the profiles, with minimum visible sections including vertical sections measuring 63 mm, lower horizontal section measuring 52 mm, and upper section measuring 66 mm, with a mandatory depth of 77 mm. Frames

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can have all nodes from 62mm, identical to each other, allowing for coplanar glass placement between fixed and openable parts.

## **Design Features:**

The external part of the sash profile is bevelled 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.

## **Sealing System:**

Water, air, and wind sealing system incorporate a double-threaded gasket (one level of closed-joint sealing) and bottom threshold seal.

## **Glass and Hardware:**

Frames come complete with glass fixed with glazing beads in galvanized steel, spaced from external surfaces by EPDM or silicone gaskets, and internally by pressure-inserted EPDM gaskets. Composite upper case contains the track, while the lower profile is in polyamide and stainless steel for sliding of guides. Sashes, with a maximum width of 1000 mm, are equipped with screw-on, applicable three-wing steel hinges with a diameter of 15 mm, capable of handling up to 100 kg per door.

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## **Locking Mechanism:**

Internal bolt locking system features lower and upper ends, along with additional locking points based on door size. Doors are supplied complete with locks featuring various locking points depending on sash height and lock cover boxes/reinforced profiles in painted pickled steel.

## **Finishing Touches:**

Surfaces are oxidized and varnished with powder at 180°C for 25 minutes in a furnace. Handles are available in different shapes, materials, and finishes, including raw brass to be varnished.

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