

# **METALFORM**

**MASTERS OF METAL**

**BV 75 Hinged Corten steel**

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## Corten Steel

### BV 75 - Hinged Corten steel

#### **Description:**

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. The frame sections are meticulously 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 meticulously crafted from cold-rolling profiling strips of Cor-Ten steel (Fe510X) with a thickness of 15/10, meeting eN1049 standard.

#### **Assembly Process:**

The folding unit must be kept open to facilitate the insertion of stainless steel alignment brackets, even in the case of continuous surface welding. The assembly of the frames is meticulously conducted by continuous welding of the contact surfaces followed by grinding and restoration of the surface finish.

#### **System Features:**

The system provides for internal and external overlapping of the profiles and ensures minimum visible sections. Vertical sections measure 63 mm, lower

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horizontal section 52 mm, and upper section 66 mm, with a mandatory depth of 77 mm. The frames feature nodes starting from 62 mm, ensuring identical structure between fixed and openable parts, allowing coplanar glass to be seamlessly placed between them.

## **Sealing System:**

Water, air, and wind sealing system with double-threaded gasket (one level of closed-joint sealing) and bottom threshold seal ensure optimal performance.

## **Glass and Components:**

The frames come complete with glass (insert glass type) fixed with glazing beads (select one of the following options: Beveled, Squared, Square Rounded, Triangular, Thin) in corten steel. They are spaced from external surfaces by EPDM or silicone gaskets and from internal surfaces by pressure-inserted EPDM gaskets.

## **Additional Features:**

A composite upper case containing the track, concealed with the sashes closed, facilitates lifting and sliding of the doors. The lower profile in polyamide and stainless steel facilitates sliding of guides and is prepared for flush-to-floor installation and water drainage. The sashes have a maximum width of 1000 mm and are equipped with screw-on, applicable three-wing steel hinges with a diameter of 15 mm for capacities up to 100 kg per door.

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## **Locking Mechanism:**

Internal bolt locking system with a lower and upper end, along with additional locking points, ensures security and stability.

## **Finishing Touches:**

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

Oxidized surfaces are finished with acid etching, oxidation, passivation, and waxing processes. The handles, available in different shapes, materials, and finishes, including corten steel, complete the set.

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MASTERS OF METAL

**UNITED KINGDOM**

**METALFORM**

**NORWAYMETAL LTD**

53 Chelsea Manor Street

London, SW3 5RZ

**SALES@METALFORM.UK**

**+44 20 81298814**

**GERMANY**

**METALFORM GMBH**

Carl-Zeiss-Ring 15A

85737 Ismaning

**SALES@METALFORMGROUP.DE**

**+49 17663630406**

**NORWAY**

**METALFORM AS**

Brochmannsveien 2

1950 Rømskog

**SALG@METALFORM.NO**

**+47 401 62 446**

**METALFORMGROUP**

**SALES@METALFORMGROUP.COM**