

# **METALFORM**

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**EBE 85 Vertical Pivot Corten Steel**

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## EBE 85 Vertical Pivot Corten Steel Doors

### Description:

Supply and installation of doors, windows, and facades featuring fixed and openable sashes. The doors are designed with a pivot opening mechanism and constructed using thermal break profiles, specifically Secco Sistemi EBE 85.

### Construction:

- Frame sections composed of two seamlessly joined metal shells, one internal and one external, filled with extruded polyamide infused with fiberglass and bonded with high-density polyurethane resin.
- Metal shells crafted from cold-rolled profiling strips of Cor-Ten steel (Fe510X) with a thickness of 15/10, meeting standard EN1049.
- Folding unit designed to facilitate insertion of stainless steel alignment brackets, even with continuous surface welding.
- Frames assembled through continuous welding of contact surfaces, followed by grinding and restoration of surface finish.

### Design Details:

- Doors exhibit internal and external profile complanarity.
- Visible sections include fixed 47 mm side node, opening side node of 109 mm, central node for the two wings at 156 mm, with a mandatory depth of 73.5 mm.
- Water, air, and wind sealing system incorporated with double mortise gasket providing a closed joint seal.
- Mobile sill for floors included with the doors.

### Glazing:

- Frames equipped with glass (type to be specified) fixed with glazing beads, available in options such as Squared, Gothic, or Thin.
- Glazing beads made of Corten steel, spaced from external surfaces by EPDM or silicone gaskets, and from internal surfaces by pressure-inserted EPDM gaskets.

### Hardware:

- Doors equipped with steel hinges and concealed steel closing mechanisms made of hot burnished stainless steel.

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- Locks feature an adequate number of locking points proportional to the height of sashes.
- Hinges designed to be adjustable and concealed, made from Corten steel.

## **Surface Finish:**

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

## **Handles:**

- Handles available in various shapes, materials, and finishes, including Corten steel.

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