

METALFORM

MASTERS OF METAL

**EBE 85 Inward and Outward Opening Doors and
Windows**

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Galvanized Steel: EBE 85 Inward and Outward Opening Doors and Windows

Product Range:

- Types: Inward and outward opening doors and windows, including tilt and turn features, constructed from galvanized steel.
- Profiles: Built with thermal break profiles from Secco Sistemi EBE 85.

Supply and Installation:

- Scope: Includes doors, windows, and facades with both fixed and operable sashes for inward and outward opening configurations.

Construction Details:

- Frame Sections: Made by seamlessly joining two metal shells (internal and external) with extruded polyamide filled with fibreglass, bonded with high-density polyurethane resin.
- Material Specifications: Metal shells are formed from steel strips 15/10 thickness, cold-rolled, hot-dip galvanized using the Sendzimir system with a skinpassed finish (FeP02 GZ 200), and a zinc coating of at least 200 gr/sqm, conforming to UNI EN 10142/3/7 and EURONORM 143 standards.

Assembly Process:

- Folding Unit: Must remain open to insert stainless steel alignment brackets, applicable even with continuous surface welding.
- Frame Assembly: Involves continuous welding of contact surfaces, followed by grinding and surface finish restoration.

Design and Features:

- Windows: Feature internal overlap and external coplanarity profiles with specific visible section dimensions for fixed and operable nodes, and mandatory depth measurements.
- Doors: Include internal and external profile coplanarity with designated visible section dimensions for fixed and operable nodes, and mandatory depths.

Sealing System:

- Windows: Utilize a triple mortise gasket for inward openings (two sealing levels, one open-joint) and a double mortise gasket for outward openings.
- Doors: Employ a double mortise gasket system (one level of closed joint gasket).

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Additional Components:

- Water Drains: Corten steel screw-on drains provided for windows.
- Glass Installation: Frames come complete with glass, fixed with glazing beads (options: Squared, Gothic, Thin) in galvanized steel, spaced from external and internal surfaces by EPDM or silicone gaskets.
- Window Hardware: Includes concealed, screw-on, stainless steel, adjustable hinges with three wings for significant load capacity, and optional tilt and turn openings with perimeter hardware, featuring either concealed or visible hinges with specific load capacities.

Security Features (If Applicable):**

- Windows may include RC3 certified burglar alarm category.

Door Hardware:

- Locks: Fitted with an appropriate number of locking points, adjusted to the sash height, and adjustable screw-on stainless steel hinges for significant load capacities.
- Surface Finish: Powder varnished at 180°C for 25 minutes.

Handles:

- Variety: Available in different shapes, materials, and finishes, including raw brass to be varnished.

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