MB-86EI

Fire-rated windows and doors system
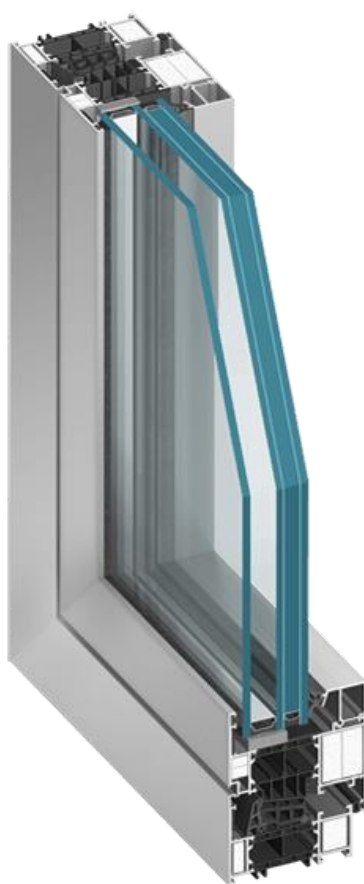
Thank you for your interest in Aluprof's products.

Welcome to the group of people using BIM models in Autodesk® Revit. All of our Revit families are created on the basis of our company's real products.

In this document we would like to depict the possibilities of the MB-86EI fire-rated doors and windows system.

1. Technical parameters of MB-86EI external doors.

FIRE RESISTANCE CLASS	EI30
AIR PERMEABILITY	Class 4, EN 12207
WATER RESISTANCE	Class 3, EN 12208
RESISTANCE TO WIND LOAD	Class C5, EN 12210
THERMAL INSULATION[1]	from 0,86 W/m²K
CONTENT OF THE RECYCLATE IN THE MATERIAL	70,7%

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[1] The U_w value has been calculated for the following assumptions:
- two-chamber glazing with U_g=0,5 W/(m²*K)
- an insulated plastic inter-panel frame, Swisspacer Ultimate type
- with fire-rated glass EI30
- sash dimensions: S x H = 1.10 x 2.00 m

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2. The MB-86EI BIM models.

2.1. Fire-rated windows.

There are four Revit families available for download:

- Fixed window
- Single Tilt and Turn window
- Double Tilt and Turn + FIX window
- Double Tilt and Turn + Side-hung window

2.2. Fire-rated doors.

There are also four Revit families available for download:

- External fire-rated single doors
- External fire-rated double doors
- External fire-rated double doors with fanlight
- External fire-rated double doors with fanlight and sidelights
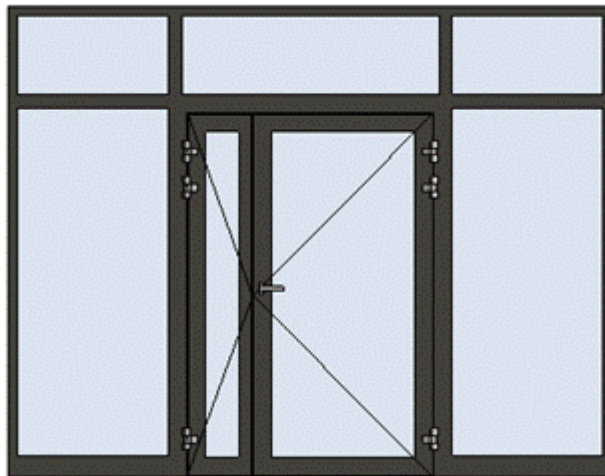
## 3. The MB-86EI BIM models in the Revit project.

3.1. New subcategories for fire-rated Aluprof's models

For the fire protection products model a new subcategories have been created for the glazing – **Fire-resistant Glass** and for the aluminum frames - **Fire-resistant Frame**. Thanks to this it is easier to highlight the fire-rated elements in the project. To change the display color, go to the graphic visibility (VG) settings → Doors and Windows → overwrite the visibility settings of the subcategory with the target values.

3.2. Clearance Zone.

The Clearance Zone is visible by default. To turn it off, go to Visibility/Graphics Overrides (VG keyboard shortcut) → go to the Door or Window section → uncheck the Clearance Zone.

For a single model you can also uncheck an instance parameter **Show Clearance Zone** that controls the visibility of the zone.
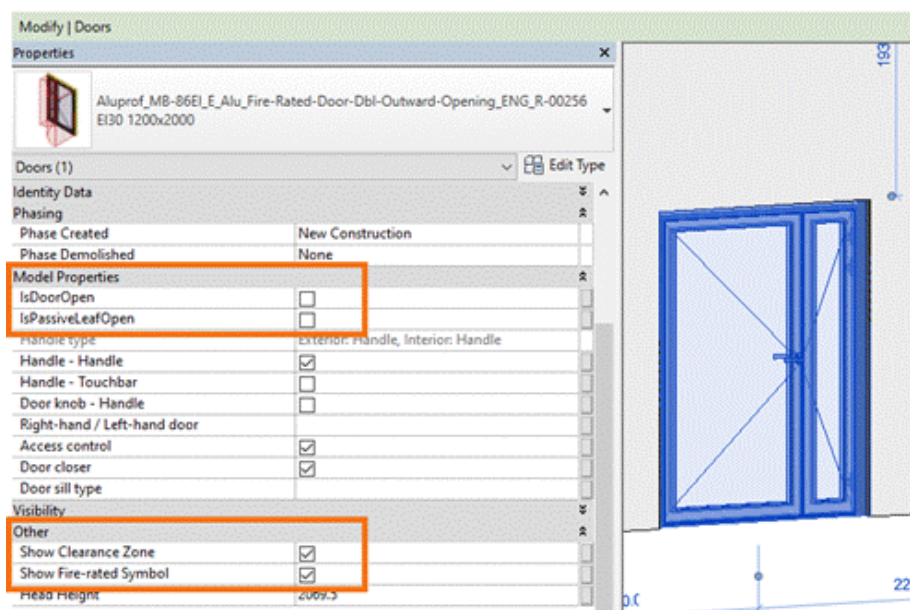
3.3.   Door Revit parameters.

The door models have parameters called **IsDoorOpen** and **IsPassiveLeafOpen** that enable users to "open" the objects in the wall.
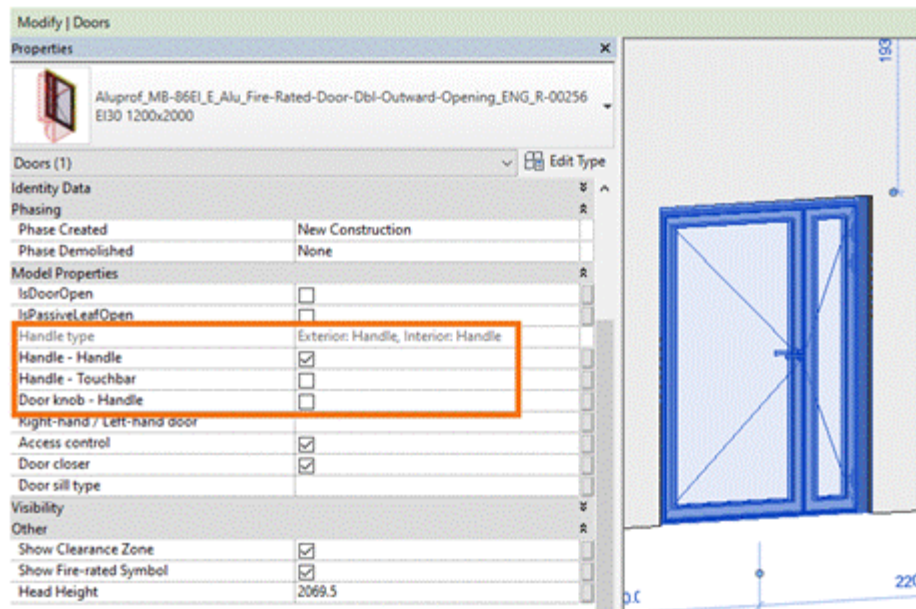
The parameter **Show Fire-rated Symbol** refers to the visibility of the fire resistance class annotation in the plan view.
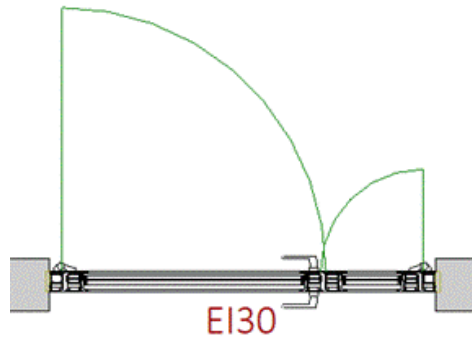
3.4.   Door handle configurations.

The following configurations can be found in our internal door models:

- Door knob – Handle
- Handle – Touchbar (for external doors)
- Handle – Handle

4. Additional parameters.

The MB-86EI Revit families have a number of additional parameters that can be included in the schedules:

OKNA	**Hardware** **Handle type** **Warm installation** **Schedule No.**
DRZWI	**Access control** **Door Closer** **Door sill type** **Hardware** **Handle type** **Right-hand / Left-hand door** **Schedule No.**

These parameters are left blank to be filled in by the user.

In addition to the parameters related directly to the model properties, information on the **COBie**, **IFC** and **Unicalss2015** standards has been included in the Revit families.

We hope that this short tutorial will let you use our BIM models in your projects effectively.

If you have any questions, do not hesitate to ask.

BIM Technology Department

Aluprof S.A.

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