

MB-86N Panel Door SI

Entrance door with thermal insulation



Thank you for your interest in Aluprof's products.

Welcome to the group of professionals 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 present the possibilities of the BIM models of MB-86N Panel Doors.

1. Technical parameters of MB-86N Panel Door

MAX. WIDTH OF THE LEAF	1 400 mm
MAX. HEIGHT OF THE LEAF	2600 mm
AIR PERMEABILITY	up to Class 4, EN 12207
WATERTIGHTNESS	up to Class E900, EN 12208
WIND LOAD RESISTANCE	up to Class C5/B5, EN 12210
THERMAL INSULATION ¹	U _d from 0.63 W/m ² K
CONTENT OF THE ALUMINUM RECYCLATE	69,2%
BURGLARY-RESISTANCE	RC2

¹ The U_d value has been calculated for MB-86N SI+ (double-sided 77 mm panel)

For other calculation variants please contact the Aluprof's Technical Support Department.

2. The MB-86N Panel Doors

Eight variants of the dedicated AP series panel door, ten variants of the AD series panel door are available. Each of these has been created in two types, divided according to the way they open:

- Outward opening double door,
- Inward opening double door.

3. The geometry of the door models

Our door models include dimensional parameters that should be controlled by filling in the required values of the clear opening in the appropriate lines. To change the above-mentioned dimensions use **Clear opening width** and **Clear opening height** parameter.

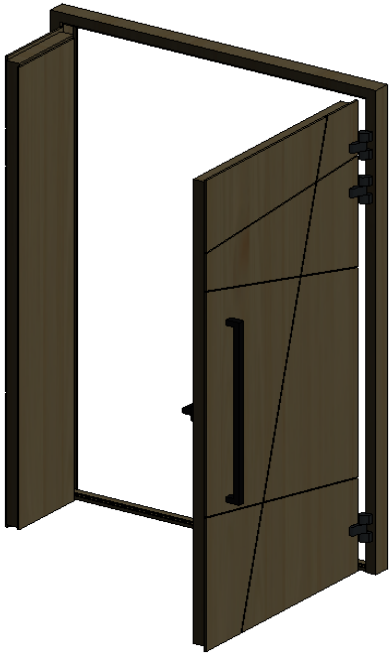
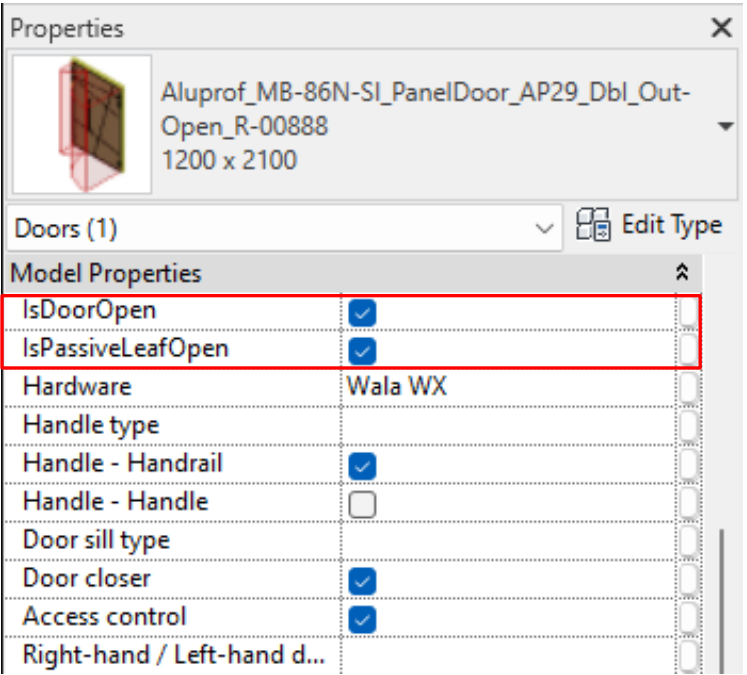
Most of the editable parameters, including materials, can be found in Type Parameters.

By default, single-leaf door are set to a clear width of 900 mm and height of 2100 mm.

Dimensions			
Width	1485.0	=	☒
Height	2189.5	=	☒
Rough Width	1515.0	= Width + 2 * Mounting space	☒
Rough Height	1500.0	= Width + Mounting space + Mounting space bottom	☒
Clear opening width	1200.0	= Width - 2 * 142.5 mm	☒
Clear opening height	2100.0	= Height - 69.5 mm - 20 mm	☒
Active leaf clear opening width	900.0	= Width of the active leaf - 142.5 mm - 20 mm	☒
Width of the active leaf	1062.5	=	☒
Width of the passive leaf	442.5	= Width - Width of the active leaf + 20 mm	☒
Frame Width	77.0	=	☒
Thickness	77.0	=	☒
Mounting space	15.0	=	☒
Mounting space bottom	0.0	=	☒
Exterior wall face offset	20.0	=	☐
Touchbar depth	76.0	=	☒
Handle Offset (default)	1050.0	=	☐
Floor finish level (default)	0.0	=	☐

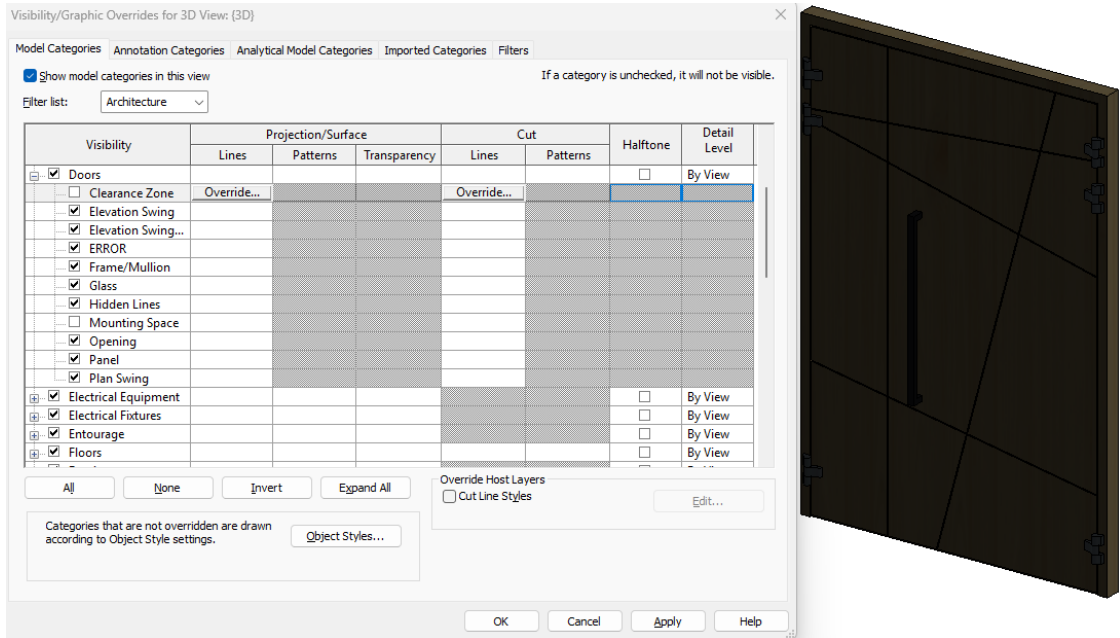
For both windows and doors, in Edit Type under Dimensions group, there is a parameter called **Exterior wall face offset** which controls the value of the structure offset from the outer wall surface (20mm by default) and a **Mounting space** parameter which determines the depth of the mounting space (15mm by default).

The door models contain a parameters **IsDoorOpen** and **IsPassiveLeafOpen** that allow opening both leaves. By default, doors remain closed.



4. 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** section → uncheck the **Clearance Zone**.



5. Additional parameters

The MB-86N Panel Door Revit families have a number of additional instance parameters that can be included in schedules:

DOOR	Access control Door Closer Door sill type Hardware Right-hand / Left-hand door Schedule No.
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These parameters have been left blank to be filled by the user.

In addition to the parameters directly related to the model properties, our Revit families include information about the **COBie** and **IFC** standards.

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

If you have any questions or concerns, please do not hesitate to contact us.

BIM Technology Department

Aluprof SA