MB-EXPO / MB-EXPO MOBILE

System of fixed, operable and mobile internal partition walls



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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-EXPO and MB-EXPO MOBILE seamless partition wall system.

1. Technical parameters of MB-EXPO partition walls.

JOINT THICKNESS	2 mm
MAX. SINGLE GLASS MODULE HEIGHT	4000 mm
MAX. SINGLE OPENABLE MODULE WIDTH	1400 mm
BOTTOM PROFILE HEIGHT	38 / 100 mm
CONTENT OF THE ALUMINUM RECYCLATE	69,2%

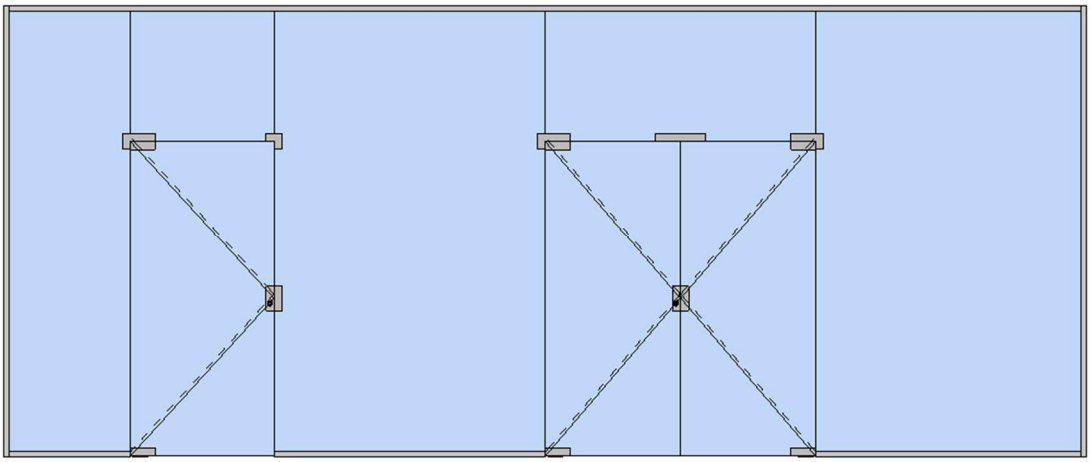
2. The MB-EXPO / MB-EXPO MOBILE BIM models.

There are three MB-EXPO Revit families available for download:

- System of MB-EXPO partition walls.
- MB-EXPO internal single door for seamless wall
- MB-78EI internal fire-rated double door for seamless wall

and eight models of the MB-EXPO MOBILE system:

- Partition wall with the swing door and 2 mobile sashes in perpendicular park position (3-2-1)
- Partition wall with the swing door and 2 mobile sashes in parallel park position (3-2-1)
- Partition wall with the swing door and 3 mobile sashes in perpendicular park position (4-3-1)
- Partition wall with the swing door and 3 mobile sashes in parallel park position (4-3-1)
- Partition wall with the swing door and 2 mobile sashes in perpendicular park position and 2 fixed modules (5-2-1)
- Partition wall with the swing door and 2 mobile sashes in parallel park position and 2 fixed modules (5-2-1)
- Partition wall with 2 swing doors and 4 mobile sashes in perpendicular park position (6-4-2)
- Partition wall with 2 swing doors and 4 mobile sashes in parallel park position (6-4-2)



2.1. MB-EXPO seamless partition wall model in Revit project.

The Revit project of glazed partition walls (Aluprof_MB-EXPO_I_Alu_ENG_R-00353) is only a schematic suggestion.

The system is created as a curtain wall system family with one curtain wall panel – a glazing of 10 mm.

All of the mullion and transoms' profiles are dedicated to be placed at the edges of the structure. By default, the following mullion types are created:

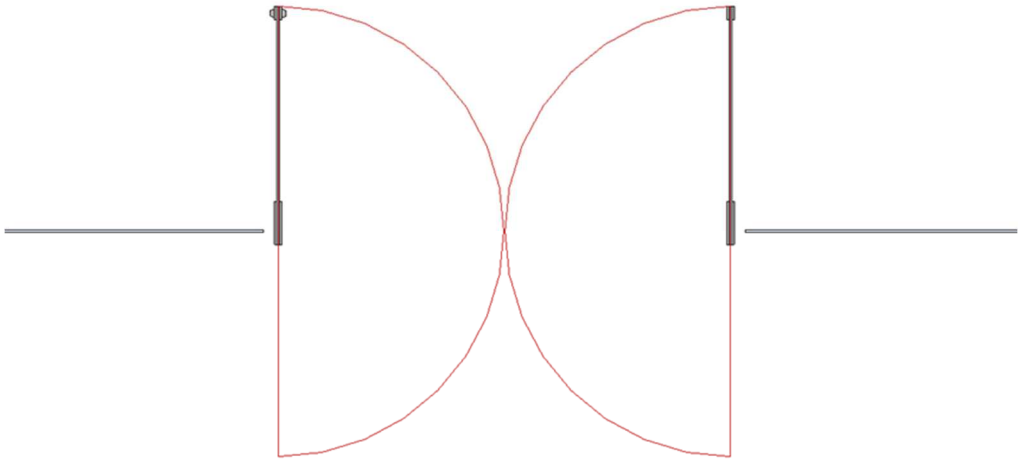
Name	Height	Application
Aluprof MB-EXPO Transom Border B 38mm	38 mm	Low bottom transom
Aluprof MB-EXPO Transom Border B 100mm	100 mm	High bottom transom
Aluprof MB-EXPO Transom Border T 96mm	96 mm	High upper transom
Aluprof MB-EXPO Transom Border T 38mm	38 mm	Low upper transom
Aluprof MB-EXPO Mullion Border L 38mm	38 mm	Left side mullion
Aluprof MB-EXPO Mullion Border R 38mm	38 mm	Right side mullion

2.2. MB-EXPO door models.

To place a Revit door model in a curtain wall, you need to load it into the target project first. Then, using the TAB key, select the panel in which a door model is to be inserted. Next 'unpin' the selected panel by clicking on the pin and choose the required MB-EXPO model type from the dropdown list.

2.2.1. Door parameters.

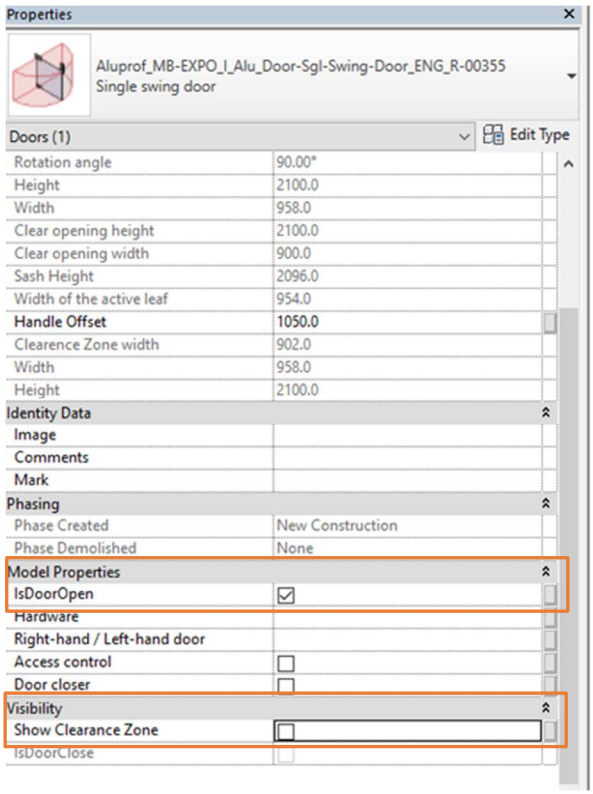
The door models have a parameter **IsDoorOpen** that enables users to 'open' the objects in the curtain wall.

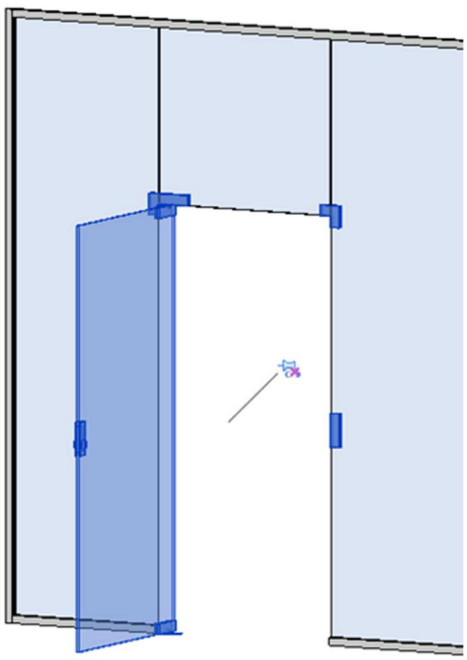


2.2.2. Clearance Zone.

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

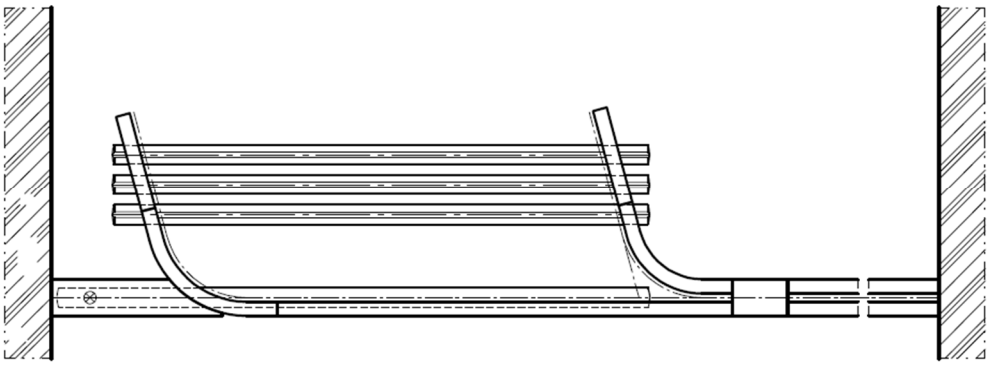
For a single model you can also uncheck an instance parameter **Show Clearance Zone** that controls the visibility of the zone.



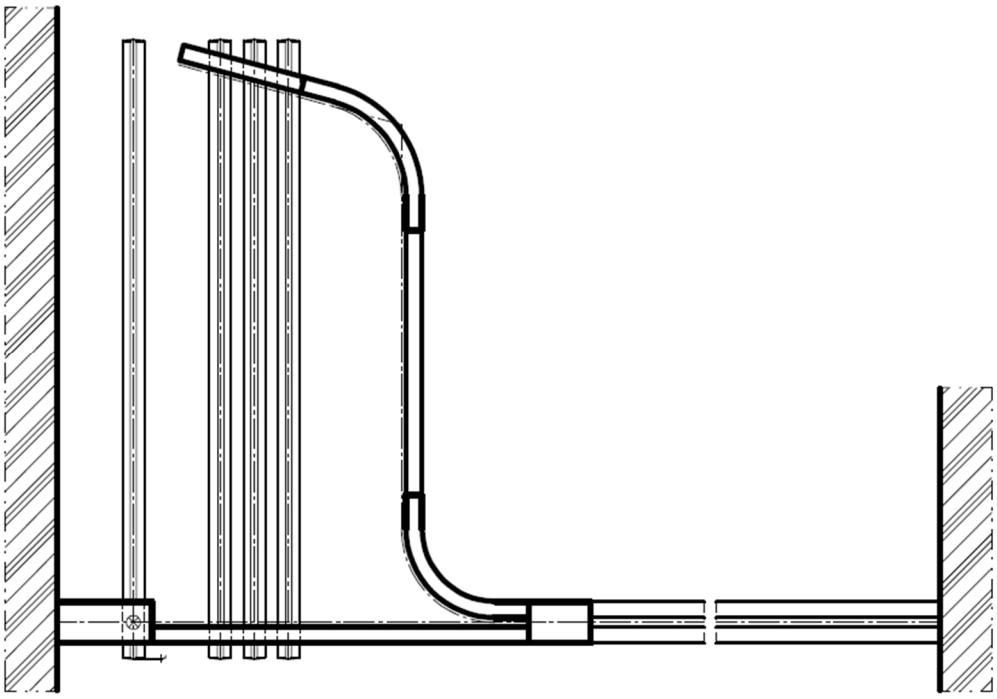


2.3. MB-EXPO Mobile openable partition walls.

Mobile partition walls are available in four leaves configurations and two parking options – parallel and perpendicular. Due to the specific functionalities of the system, the models were created as a Revit door families.



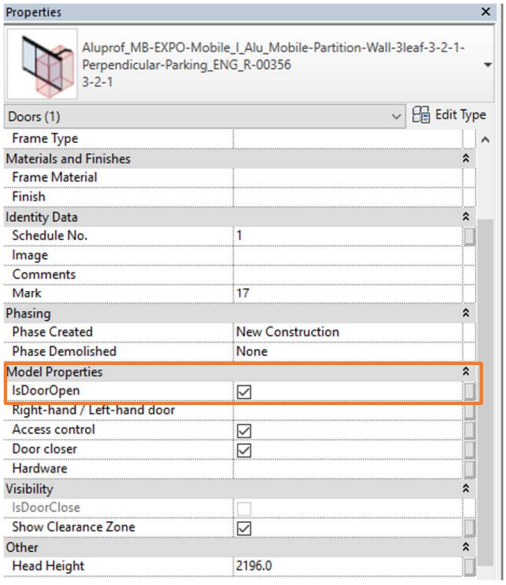
Parallel parking

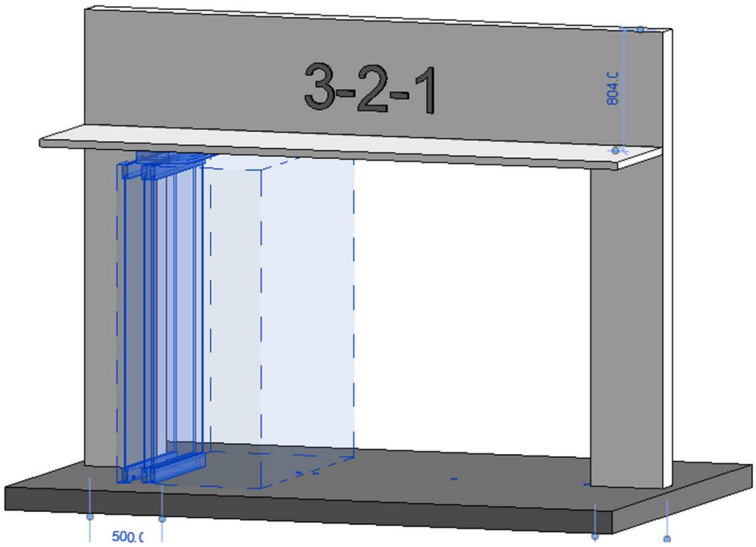


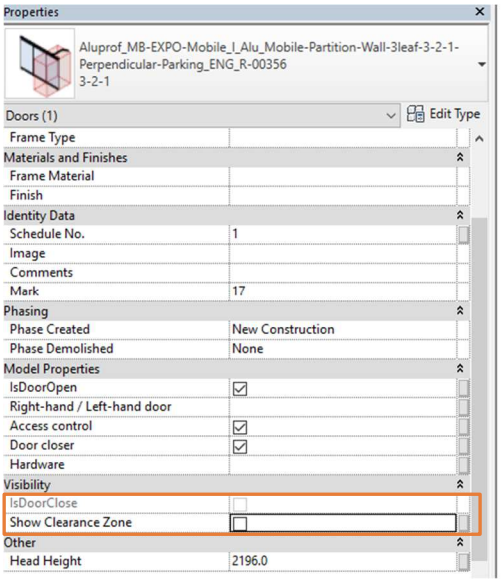
Perpendicular parking

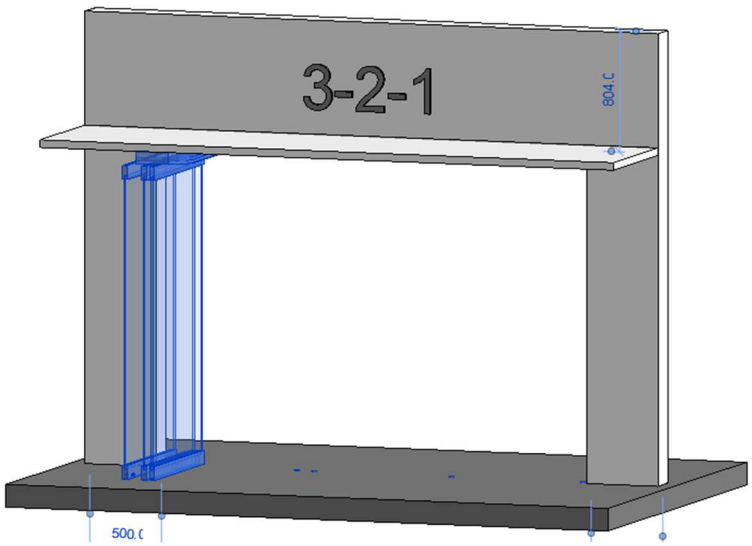
2.3.1 MB-EXPO Mobile parameters.

Similarly to the MB-EXPO swing doors, all of the MB-EXPO MOBILE models contain an **IsDoorOpen** parameter that allows to fully open the mobile partition. The **Show Clearance Zone** parameter controls the visibility of the clearance zone.









3. Additional parameters.

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

DOORS	**Access control** **Door Closer** **Hardware** **Right-hand / Left-hand door** **Schedule No.**

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**, **IFC** and **Uniclass 2015** 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 S.A.