

MB-HARMONY OFFICE

System of internal partition walls



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-HARMONY OFFICE partition wall system.

1. Technical parameters of MB-HARMONY OFFICE partition walls.

MAX. ACOUSTIC INSULATION	MB-HARMONY $R_w = 39$ dB MB-HARMONY DUO $R_w = 48$ dB
MAX. SINGLE MODULE HEIGHT	3600 mm
MAX. SINGLE MODULE WIDTH	1500 mm
USE CATEGORY	IVb
ROOM CATEGORY	A, B, C1 ÷ C5, D
CONTENT OF THE ALUMINUM RECYCLATE	69,2%

2. The MB-HARMONY OFFICE BIM models.

There are five MB-HARMONY OFFICE Revit families available for download:

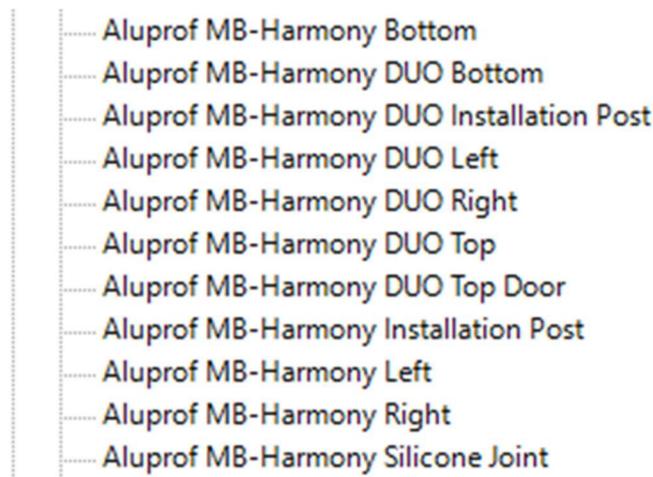
- System of MB-HARMONY OFFICE partition walls.
- MB-HARMONY internal single door
- MB-HARMONY internal double door
- MB-HARMONY DUO internal single door
- MB-HARMONY DUO internal double door

The Revit project of glazed partition walls (Aluprof_MB-HARMONY-OFFICE_I_Alu_Partition-Wall-System_ENG_R-00380) is only a schematic suggestion.

In the project there are two systems from the MB-HARMONY OFFICE group created: single-glazed MB-HARMONY and double-glazed MB-HARMONY DUO. Both are created as Revit curtain wall system family.

The type of glazing in the project is laminated glass 66.2.

By default, the following types of mullions for the glazed interior wall were created:



.....	Aluprof MB-Harmony Bottom
.....	Aluprof MB-Harmony DUO Bottom
.....	Aluprof MB-Harmony DUO Installation Post
.....	Aluprof MB-Harmony DUO Left
.....	Aluprof MB-Harmony DUO Right
.....	Aluprof MB-Harmony DUO Top
.....	Aluprof MB-Harmony DUO Top Door
.....	Aluprof MB-Harmony Installation Post
.....	Aluprof MB-Harmony Left
.....	Aluprof MB-Harmony Right
.....	Aluprof MB-Harmony Silicone Joint

2.1. MB-HARMONY partition wall model in Revit project.

There are nine profiles created for the MB-Harmony system. Some of them include few types, distinguished by the use of particular profiles from Aluprof offer. The schedule below shows the available profile families and their intended use:

Name	Types / profiles	Application
<i>Aluprof MB-HARMONY Mullion Border L</i>	K440108X K440123X + K440110X	Left side mullion
<i>Aluprof MB-HARMONY Mullion Border R</i>	K440108X K440123X + K440110X	Right side mullion
<i>Aluprof MB-HARMONY Transom Border B</i>	K440108X K440123X + K440110X	Bottom transom
<i>Aluprof MB-HARMONY Transom Border T</i>	K440108X K440123X + K440110X	Upper transom
Silicone-joint	10 mm 12.8 mm	Silicone infill to be used as an 'interior mullion'
<i>Aluprof MB-HARMONY Installation Post</i>	K440128X + K440108X K440108X + K440128X + K440110X + K440123X K440128X + K440110X + K440123X	Installation post
<i>Aluprof MB-HARMONY Installation Post Door Connection Left</i>	K440128X + K440108X K440108X + K440128X + K440110X + K440123X	Installation post to be used when placing door on the left
<i>Aluprof MB-HARMONY Installation Post Door Connection Right</i>	K440128X + K440108X K440108X + K440128X + K440110X + K440123X	Installation post to be used when placing door on the right
<i>Aluprof MB-HARMONY Transom Border Door T</i>	K440108X	Upper transom to be used above door

2.2. MB-HARMONY DUO partition wall model in Revit project.

There are eight profiles created for the MB-Harmony DUO system. Some of them include few types, distinguished by the use of particular profiles from Aluprof offer. The schedule below shows the available profile families and their intended use:

Name	Types / profiles	Application
<i>Aluprof MB-HARMONY DUO Mullion Border L</i>	K440114X + K440118X K440115X + K440121X + K440118X	Left side mullion

Aluprof MB-HARMONY DUO Mullion Border R	K440114X + K440118X K440115X + K440121X + K440118X	Right side mullion
Aluprof MB-HARMONY DUO Transom Border B	K440114X + K440118X K440115X + K440121X + K440118X	Bottom transom
Aluprof MB-HARMONY DUO Transom Border T	K440114X + K440118X K440115X + K440121X + K440118X	Upper transom
Aluprof MB-HARMONY DUO Installation Post	K440118X + K440114X + K440128X K440118X + K440115X + K440128X	Installation post
Aluprof MB-HARMONY DUO Installation Post Door L	K440114X + K440128X + K440118X K440114X + K440128X + K440118X + K440115X + K440121X	Installation post to be used when placing door on the left
Aluprof MB-HARMONY DUO Installation Post Door R	K440114X + K440128X + K440118X K440114X + K440128X + K440118X + K440115X + K440121X	Installation post to be used when placing door on the right
Aluprof MB-HARMONY DUO Transom Border Door T	K440114X	Upper transom to be used above door

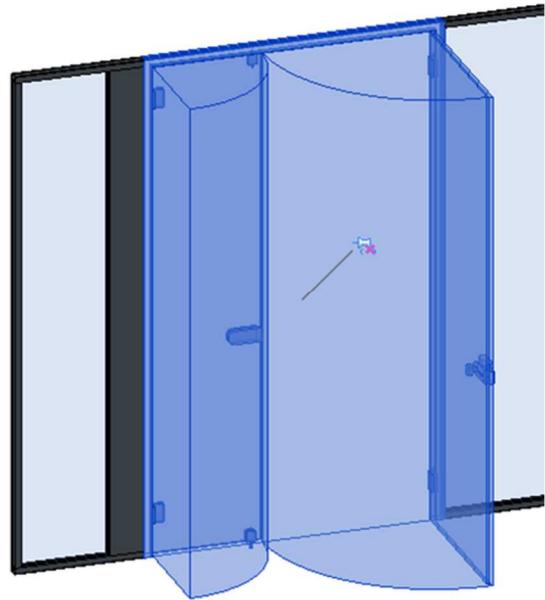
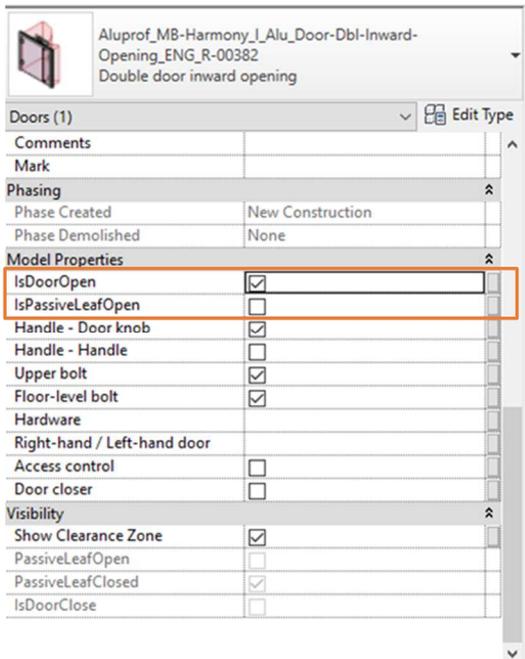
Glazed infill panels of MB-Harmony DUO have already incorporated silicon joints. Thus, for this system there is no profile called 'silicone-joint'.

2.3. MB-HARMONY OFFICE 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-HARMONY / MB-HARMONY DUO model type from the dropdown list.

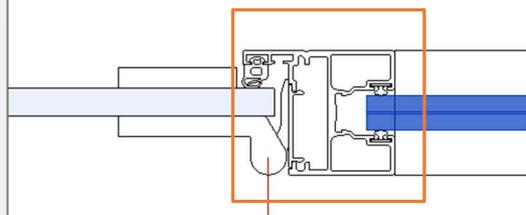
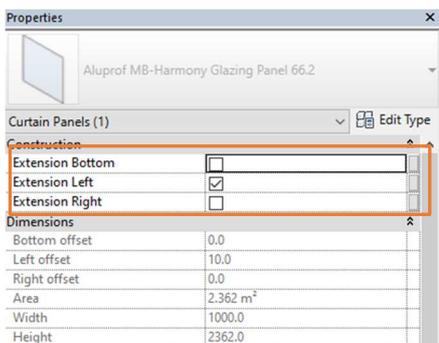
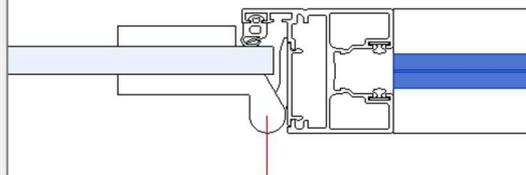
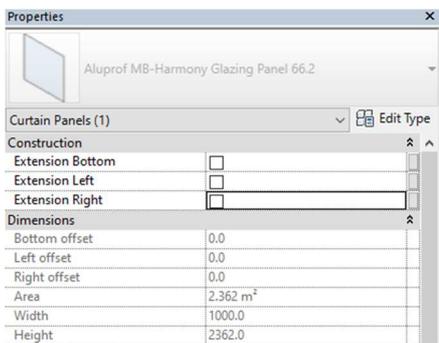
2.3.1. Door parameters.

The door models have a parameters **IsDoorOpen** / **IsPassiveLeafOpen** that enable users to 'open' the objects in the curtain wall.



2.3.2. Adjusting the glass curtain wall panel to the doors.

After placing the doors in a curtain wall the adjoining glazed panels should be adjusted. To do so, choose the required panel and in Type Properties select one of the **Extension** options. When the parameter is selected, the glass will automatically adjust to the door profile gap.

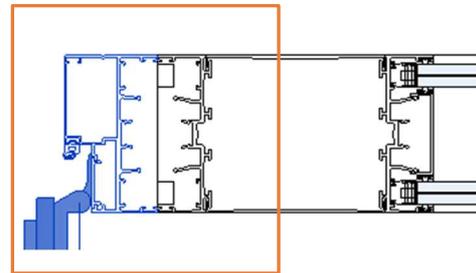
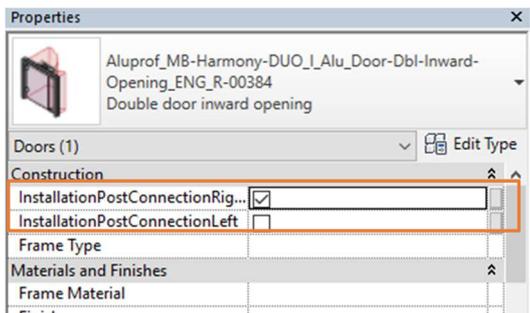


2.3.3. Installation post with doors.

In case of need for installation post with doors:

for MB-Harmony: choose one of two available profile families Installation Post Door Connection Left / Installation Post Door Connection Right for the post and then place the door

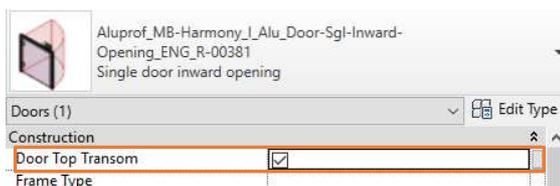
for MB-Harmony DUO: choose one of the Installation Post profile types with Door-Connection-Left or Door-Connection-Right suffix. Then place the doors and in properties tick the **InstallationPostConnection** parameter.

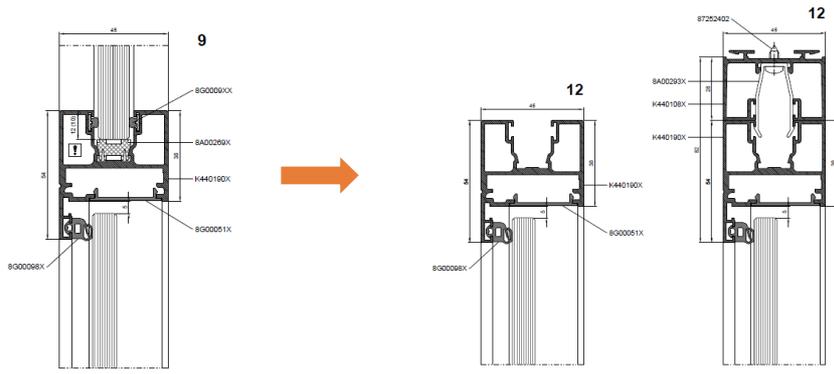


2.3.4. Clearance Zone.

It is possible to change the visibility of the door details depending on what is placed above them. By default, the settings are set to the placement of the glazed panel.

In order to change the detail into a finishing profile K440190X tick the **Door Top Transom** option in the door's properties.

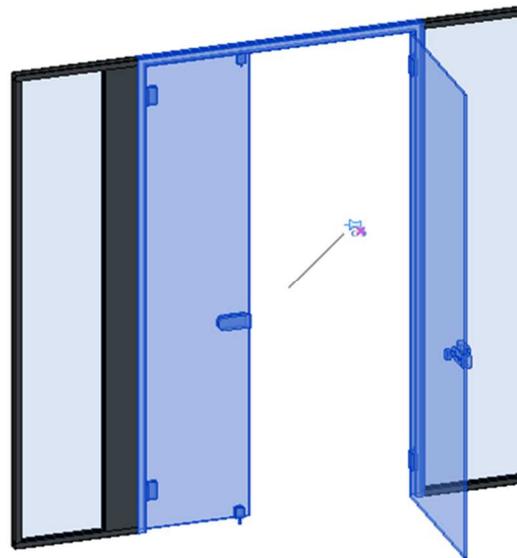
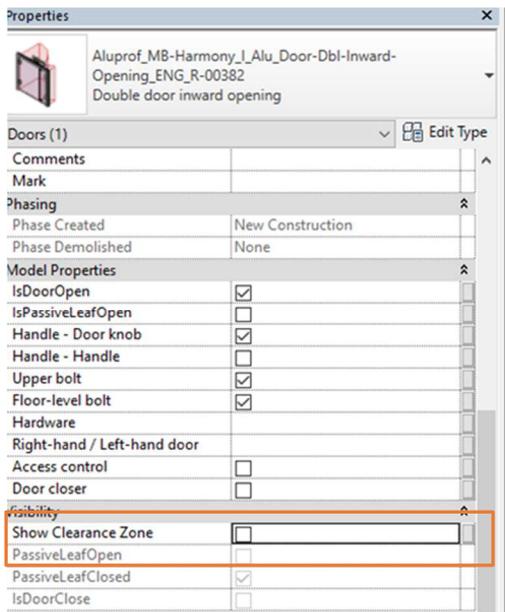




2.3.5. Clearance Zone.

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.

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



3. Additional parameters.

The MB-HARMONY OFFICE 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.
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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**, **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.