MB-79N Casement

Outward opening window

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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-79N Casement windows.

> **IMPORTANT!** The models are created based on the sample cross-sections from Aluprof's catalogues and do not constitute a binding offer. In order to verify the applied solutions and to meet the technical requirements, please contact the Aluprof's Technical Support Department. Contact details can be found at:
>
> www.aluprof.com/en/architects/contact

1. Technical parameters of MB-79N Casement E/ST/SI window.

AIR PERMEABILITY	up to Class 4, EN 12207
WATERTIGHTNESS	up to Class E1800, EN 12208
WIND LOAD RESISTANCE	up to Class C5/B5, EN 12210
THERMAL INSULATION[1]	U_w = from 0.8 W/(m^{2}K)
FRAME THICKNESS	70 mm
SASH THICKNESS	79 mm
CONTENT OF THE ALUMINUM RECYCLATE	69,2%

[1] The U_w value has been calculated for MB-79N Casement SI with the following assumptions:
- double-chamber glazing with U_g=0.5 W/m^2*K
- a warm edge spacer bar, Multitech type
- window dimensions: L x H = 1230 x 1480 mm (single sash)

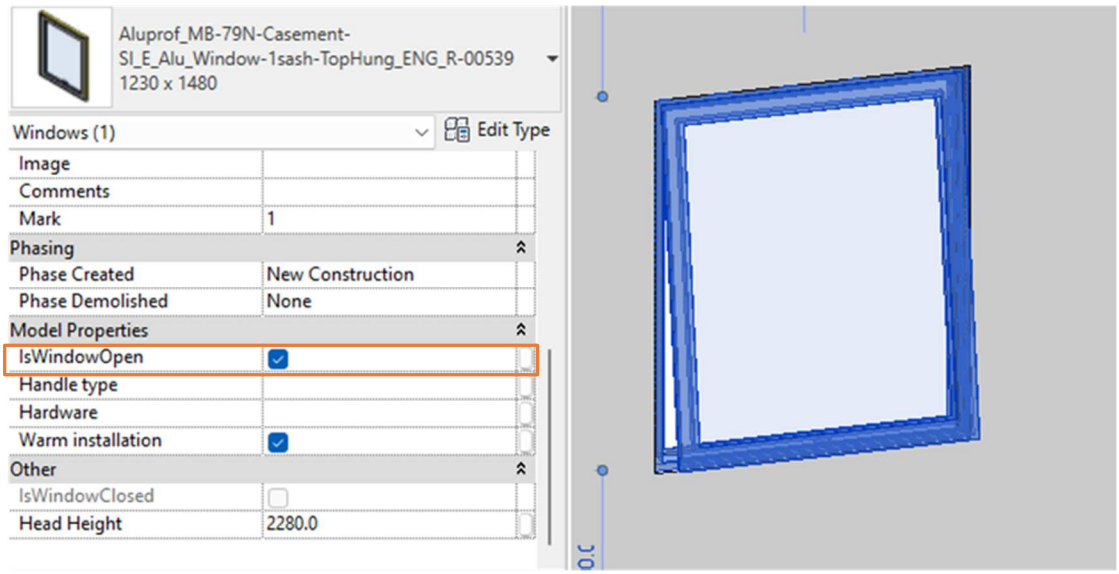
For other calculation variants please contact the Aluprof's Technical Support Department.

2. MB-79N Casement windows.

There are four Revit families available for download, created according to the configuration of sashes and opening type:

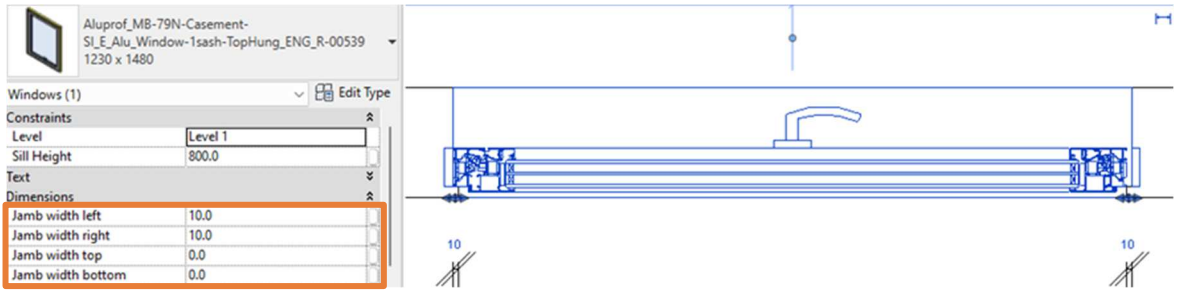
- Single top-hung casement
- Double top-hung casement
- Double sash window (top-hung casement + FIX)
- Corner window (top-hung casement + FIX)

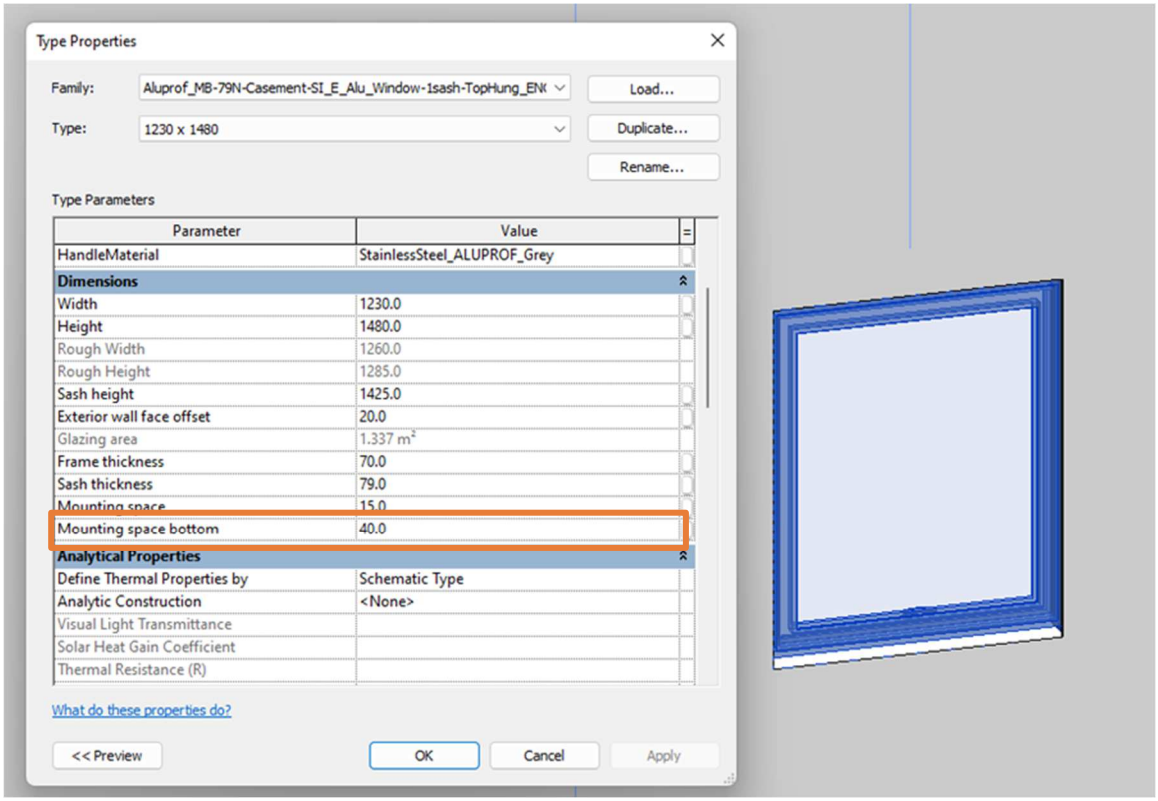
Each MB-79N Casement model has a parameter called **IsWindowOpen** that enables users to "open" the window in the project.



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

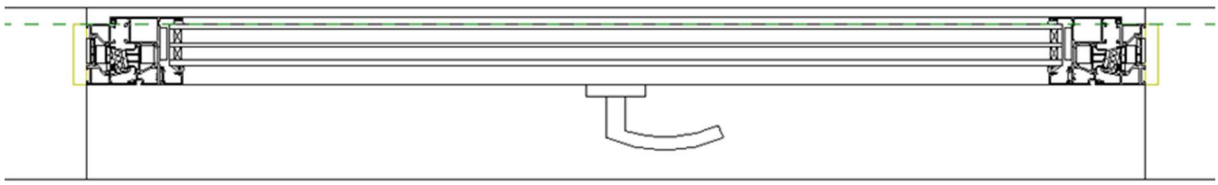
Aluprof's window models contain additional parameters for adjusting wall cut-outs. There are four instance parameters changing the width of wall jambs: **Jamb left / Jamb right / Jamb top / Jamb bottom.** In order to adjust void space under the frame change the value in **Mounting space bottom** type parameter.





Important! In order for the model to behave correctly while changing dimensions the desired value should be inserted into the parameter. Changing dimensions with the grips may result in incorrect geometry adjustment.

The outer face of the frame has been set as the wall closure point.



3. Window details

A new detail category called **MB_detail** has been added to the models. In this way, all the coarse and medium detail lines can be modified in the Object Styles tab at once. In order to change the graphics of the fine level details use the imported AutoCAD layers.

Object Styles

Model Objects | Annotation Objects | Analytical Model Objects | Imported Objects

Filter list: <multiple>

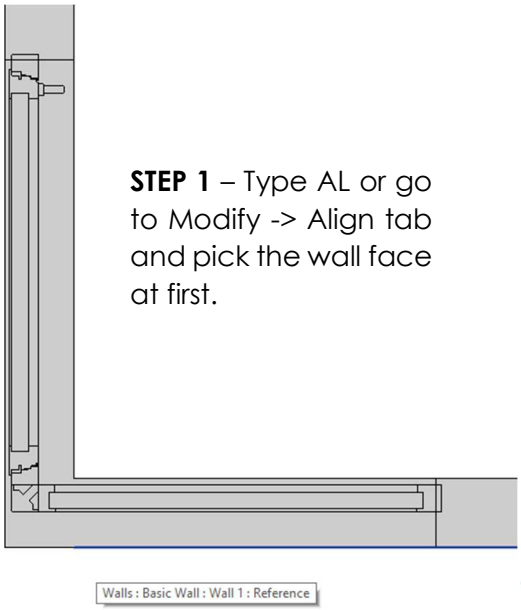
Category	Line Weight		Line Color	Line Pattern	Material
	Projection	Cut			
Curtain Panels	1	2	Black	Solid	
Curtain Systems	2	2	RGB 000-127-000	Solid	
Curtain Wall Mullions	1	3	Black	Solid	
Data Devices	1		Black		
Detail Items	1		Black	Solid	
<Hidden Lines>	1		Black	Dash	
Heavy Lines	5		Black	Solid	
Light Lines	1		Black	Solid	
MB_detail	1		Black	Solid	
Medium Lines	3		Black	Solid	

Model Objects | Annotation Objects | Analytical Model Objects | Imported Objects

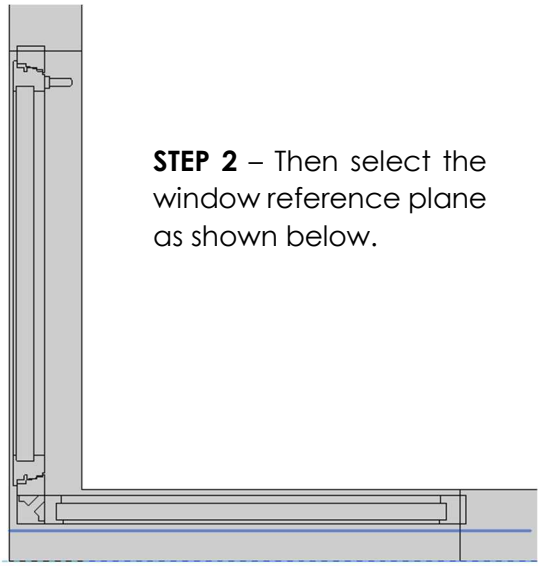
Category	Line Weight	Line Color	Line Pattern	Material
	Projection			
Imports in Families	1	Black	Solid	
_MB_akcesoria_0.15	1	Black	Solid	Render Material 95...
_MB_inne_0.15	1	Black	Solid	Render Material 10...
_MB_izolacje_0.09	1	Black	Solid	Render Material 0-...
_MB_profile_0.25	1	Black	Solid	Render Material 25...
_MB_profile_tworzywo...	1	Black	Solid	Render Material 16...
_MB_szklo_0.15	1	Black	Solid	Render Material 0-...
_MB_uszczelki_0.15	1	Black	Solid	Render Material 0-...

4. Inserting the corner window.

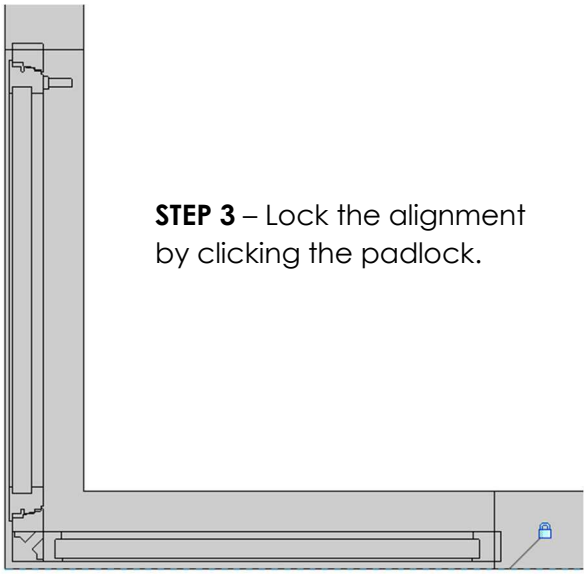
With the corner window in place on the wall, lock the window reference plane to the outer face of the wall:



STEP 1 – Type AL or go to Modify -> Align tab and pick the wall face at first.



STEP 2 – Then select the window reference plane as shown below.



STEP 3 – Lock the alignment by clicking the padlock.

Thanks to this, when changing the wall type, the window will remain in the same place and will move according to the specified value of **Exterior wall face offset** parameter as well.

5. Additional parameters.

The MB-79N Casement Revit families have a number of additional parameters that can be included in schedules:

- **Warm installation**
- **Hardware**
- **Handle type**
- **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** 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 Department

Aluprof S.A.