



**ARCHICAD Objects**

Responsive Facade Library / Libreria Facciata Responsiva

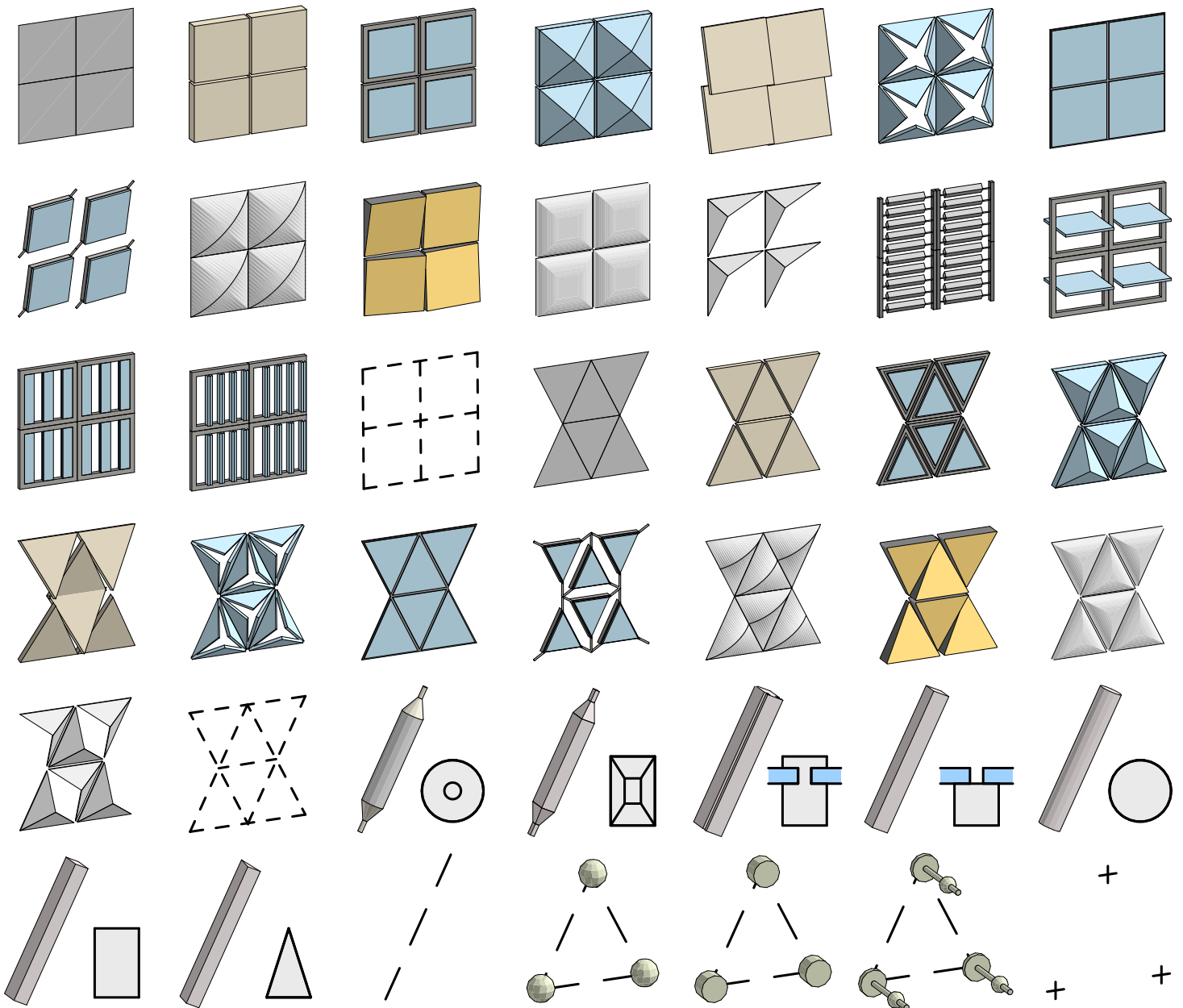
Reference guide v28.1  
Guida di riferimento

ArchiRADAR

# General Description

 English  
 Italiano - Italian

Available Languages for the interface  
Linguaggi disponibili per l'interfaccia



# General Description

## RESPONSIVE FACADE LIBRARY



The ArchiRADAR responsive facade objects was conceived to speed up the designer's work in computational designs. The responsive panels can be managed directly in Grasshopper using the Archicad connection; you will be able to create complex design with panels and pipes, starting from Rhinoceros using a simple surface. A graphic interface of the object helps the designer in managing all the features. Using MVO Model View Option you will be able to manage the setting of the objects with only few clicks without selecting and editing every single object. You will be able to create also schedules grouping similar objects under the same column.

## LIBRERIA FACCIATA RESPONSIVA



Gli oggetti facciata responsiva di ArchiRADAR sono stati concepiti per velocizzare il lavoro del progettista nel computational design. I pannelli responsivi possono essere gestiti direttamente in Grasshopper utilizzando la connessione con Archicad; potrete essere in grado di creare progetti complessi con pannelli e strutture, partendo da Rhinoceros con una semplice superficie. L'interfaccia grafica degli oggetti aiuta il progettista nel gestire tutte le opzioni. Utilizzando il OVM Opzioni Visualizzazione Modello sarete in grado di gestire i parametri degli oggetti con pochi click senza selezionare ed editare ogni singolo oggetto. Potrai inoltre creare degli abachi raggruppando oggetti uguali in una stessa colonna.



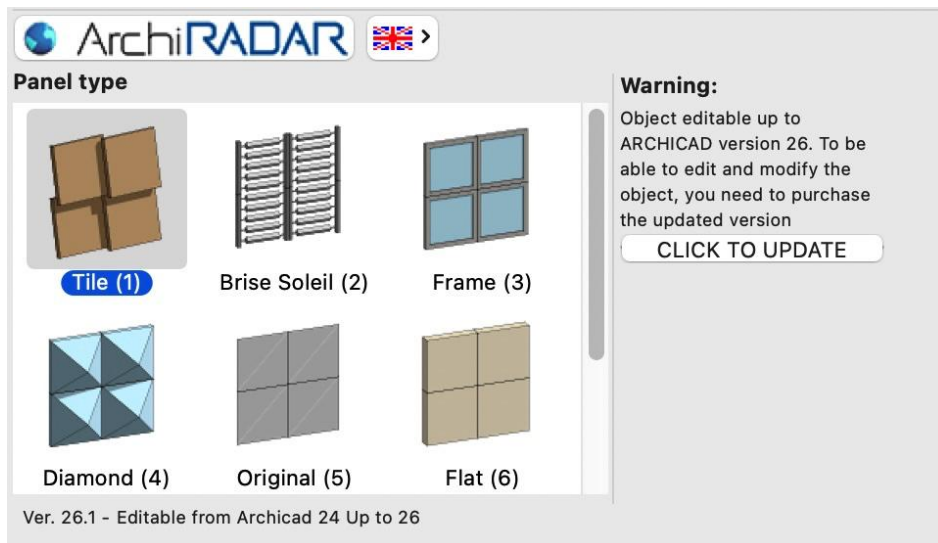
## Limits of use

## LIMITS OF USE



English

The ArchiRADAR Responsive objects are editable and adjustable from the ARCHICAD 24 version up to the current version at the time of purchase. **When a new version of ARCHICAD is released and you decide to switch to it, you will need to buy the updated library from the ArchiRADAR shop.** If you do not proceed with the update, the object can be viewed and used for the documents but it will no longer be editable and adjustable. You can't edit also MVO.



## LIMITI DI UTILIZZO



Italiano - Italian

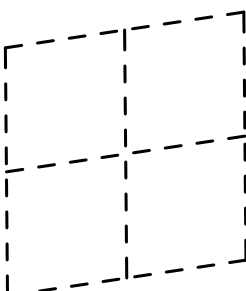
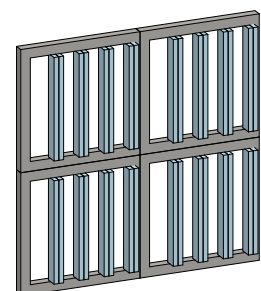
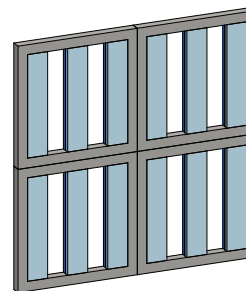
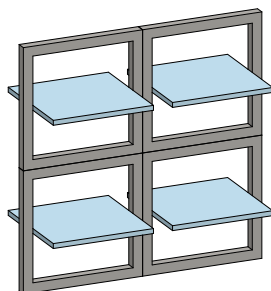
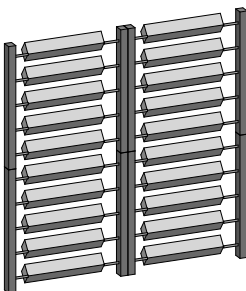
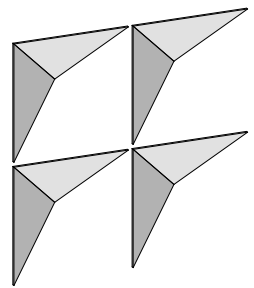
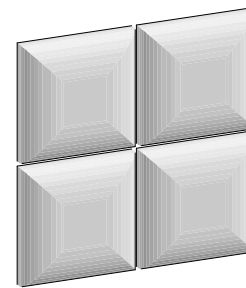
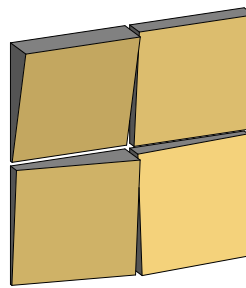
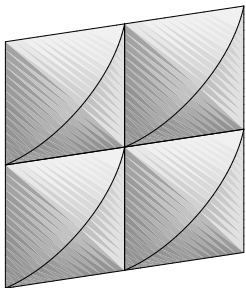
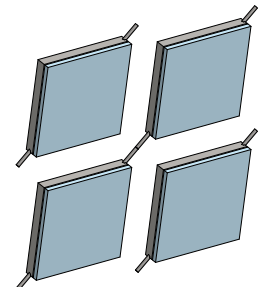
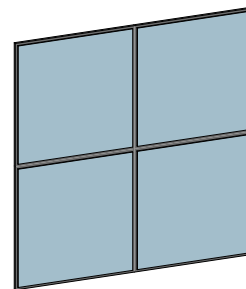
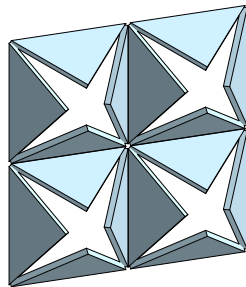
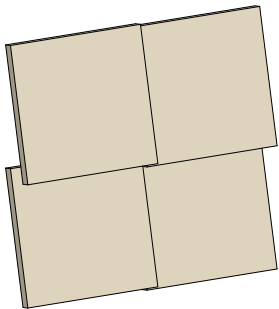
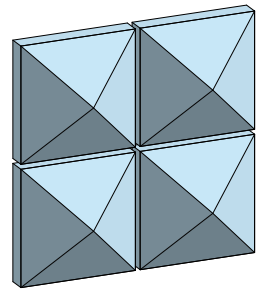
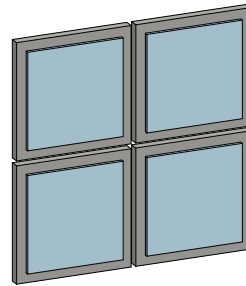
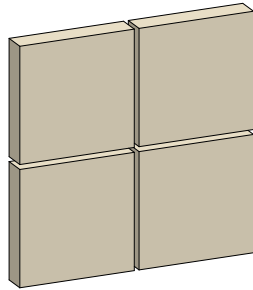
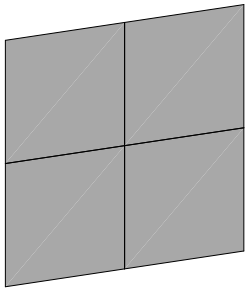
Gli oggetti Responsivi ArchiRADAR sono editabili e modificabili dalla versione ARCHICAD 24 fino alla versione corrente al momento dell'acquisto. **Quando viene rilasciata una nuova versione di ARCHICAD e decidi di passare ad essa, sarà necessario acquistare il prodotto aggiornato alla nuova versione.** Se non procedi con l'aggiornamento, l'oggetto potrà essere visualizzato ed usato per gli elaborati ma non sarà più modificabile. Anche le opzioni di OVM saranno disattivate.





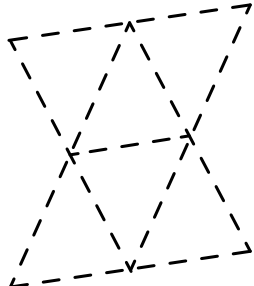
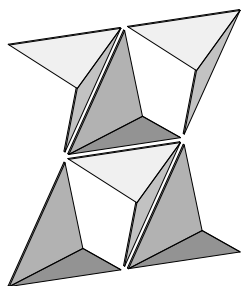
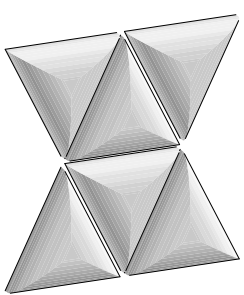
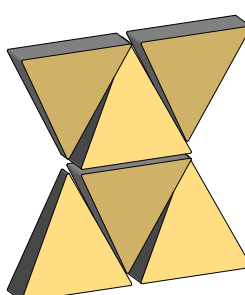
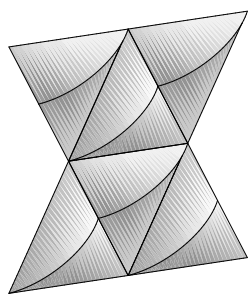
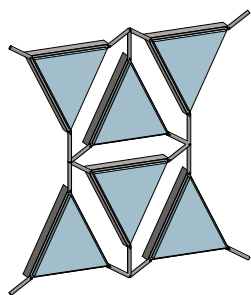
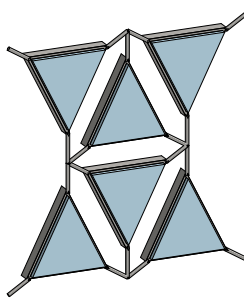
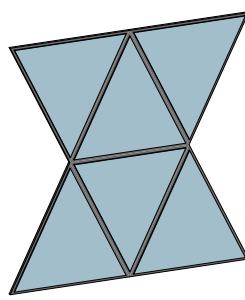
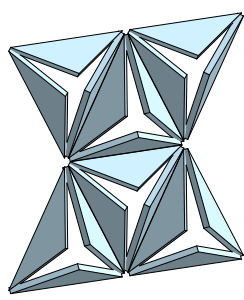
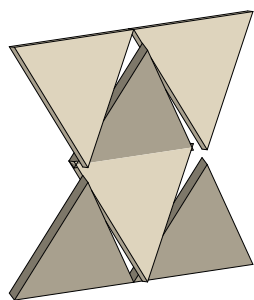
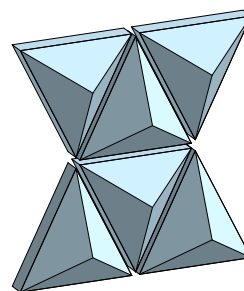
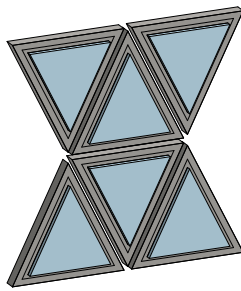
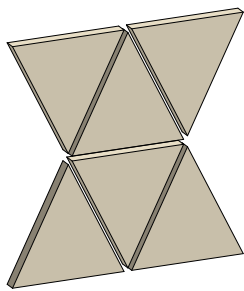
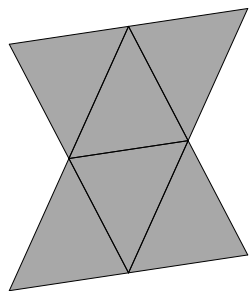
## AR 4 vert - Responsive Panel

## Type of panels



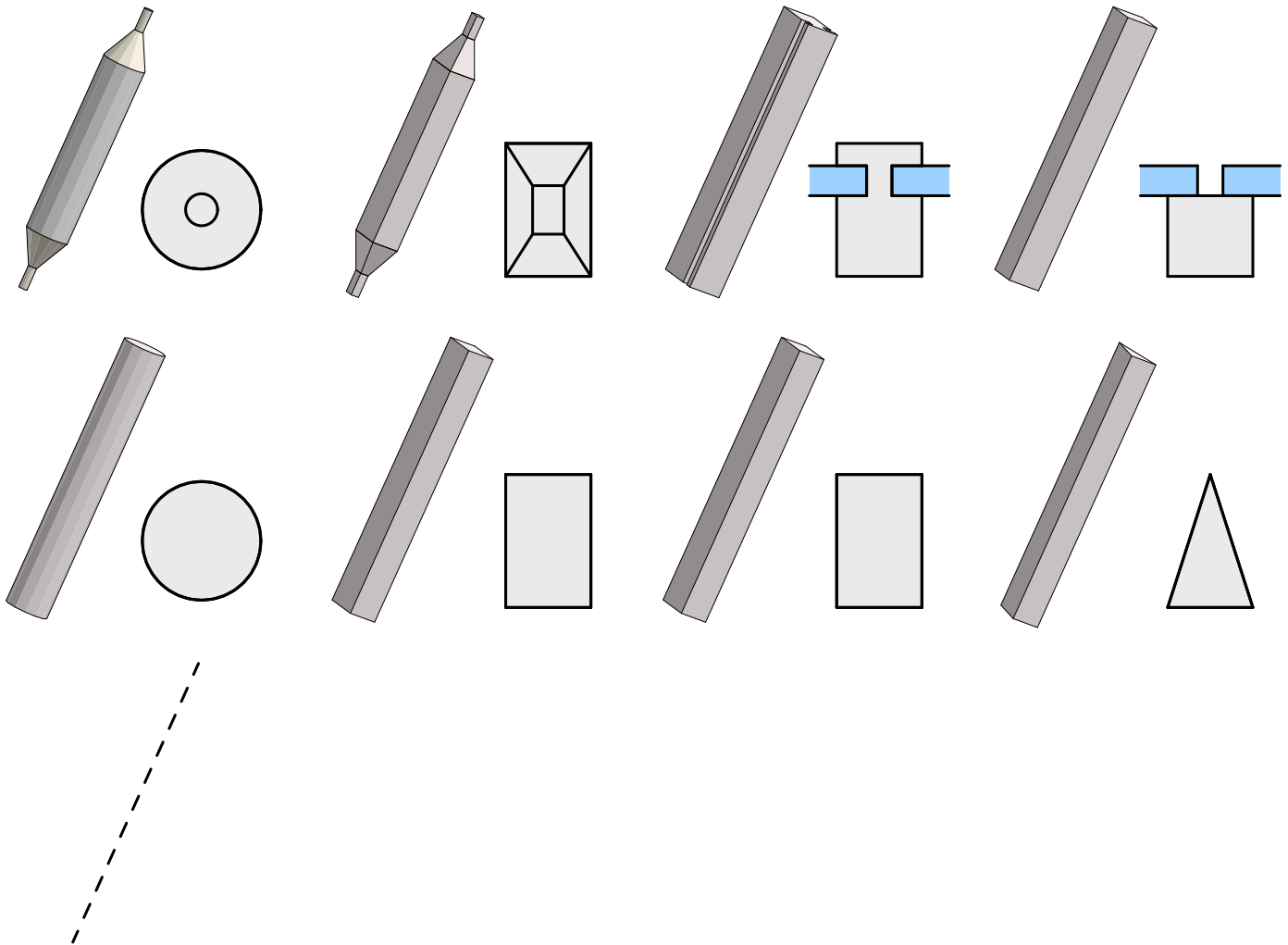
## AR 3 vert - Responsive Panel

## Type of panels

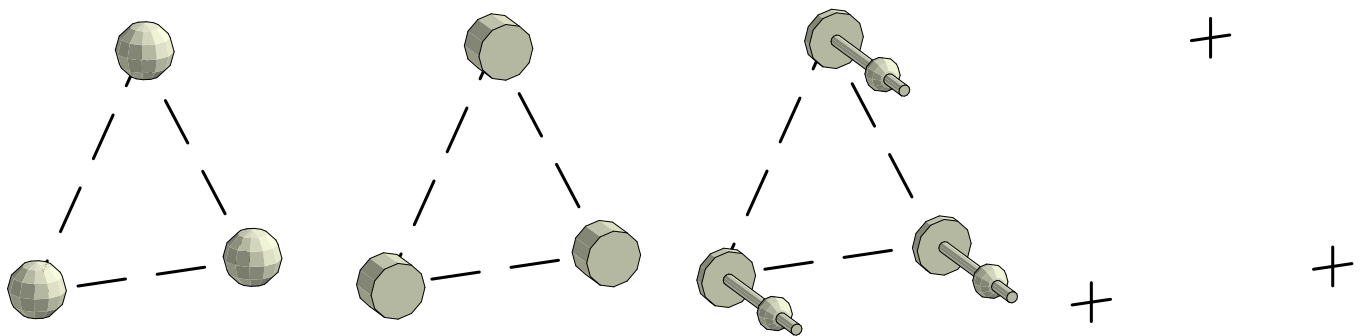


## AR 1 vert - Node

## Type of panels

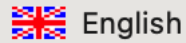


## AR 2 vert - Pipe



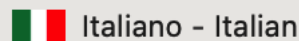


# Quick start



- 1 - You need base knowledge of Archicad, Rhinoceros, Grasshopper.
- 2 - You need Archicad from version 24 to the version of the Responsive Library panel. You also need Rhinoceros 7 with the Grasshopper plugin "Paneling Tool"
- 3 - Install the connection plug in to connect Archicad with Rhinoceros Grasshopper
- 4 - Open a new Archicad file, load the library "Responsive Panels", open Rhinoceros, open the .3dm file "Responsive Panels" provided; open Grasshopper inside Rhinoceros, open the .gh file "Responsive Panels" provided.
- 5 - In Grasshopper file, in the red group set the values to "true", double click clicking on them.
- 6 - In Archicad open the palette of the connection and "Start connection".
- 7 - Now you should see the geometry in Archicad. Use Model View Option MVO for changing the setting of the panels.

NOTE: If you forget to load the library "Responsive Panels" in the Archicad file, and you Start the Connection, the object components setting in Grasshopper could lost the link of the parameter of the panel in Archicad. Close the grasshopper file without saving and reopen it; unlock and delete wrong objects created in Archicad; starting again with the points above. Always wait Archicad complete the regeneration of the model when you update option in Grasshopper; stop the connection to avoid update in real time. The objects are tested on AC 24.



- 1 - E' richiesta una conoscenza base di Archicad, Rhinoceros, Grasshopper.
- 2 - E' richiesta una versione di Archicad dalla 24 alla versione della Libreria "Responsive Panels". E' richiesta inoltre la versione di Rhinoceros 7 con la Plugin per Grasshopper "Paneling Tool"
- 3 - Istallare la Plug Connection per connettere Archicad con Rhinoceros Grasshopper
- 4 - Aprire un file Archicad nuovo, caricare la libreria "Responsive Panels", aprire Rhinoceros, aprire il file .3dm "Responsive Panels" fornito; aprire grasshopper dentro Rhinoceros, aprire il file .gh "Responsive Panels".
- 5 - Nel file di Grasshopper, nel gruppo rosso impostare I valori su "True", con un doppio click su di essi.
- 6 - In Archicad aprire la palette della Connection e fare click su "Start Connection"
- 7 - Dovreste vedere adesso una geometria in Archicad. Usa Opzioni Visualizzazione Modello OVM per cambiare le impostazioni dei pannelli.

NOTA: Se vi scordate di caricare la libreria "Responsive Panels" in Archicad, e fate partire la connessione, i componenti settaggio degli oggetti in Grasshopper potrebbero perdere il legame ad i parametri dell'oggetto pannello in Archicad. Chiudete il file Grasshopper senza salvarlo e riapritelo; sbloccare e cancellate gli oggetti creati in Archicad; ripartire con i passaggi indicati sopra. Aspettare sempre che Archicad completi la rigenerazione del modello quando aggiornate delle opzioni in Grasshopper; fermare la Connection per evitare aggiornamenti in tempo reale. Gli oggetti sono testati su AC 24.

# Rhinoceros

## Rhinoceros



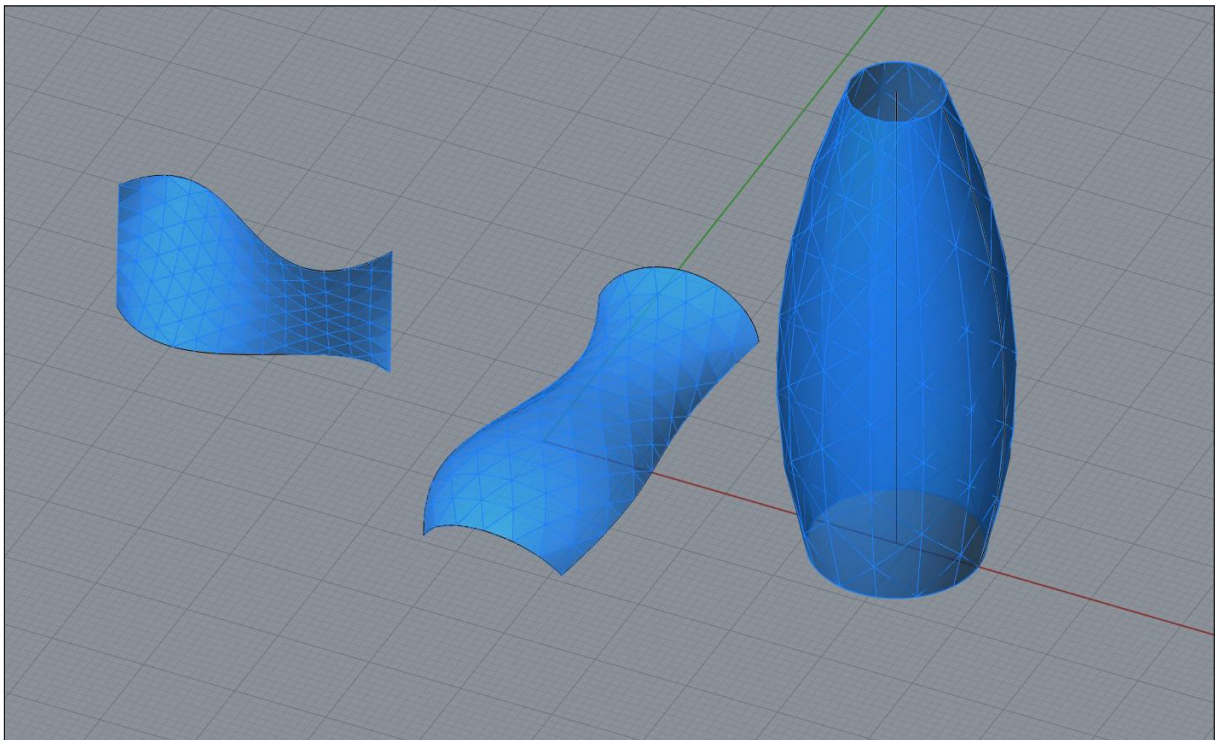
A file in Rhinoceros, provided with the ArchiRADAR Responsive Facade Library, will help you to start quickly your design. Some shapes are already connected with the Grasshopper file, also provided.

If you want to create your own Rhinoceros file, remember to set the unit in meter inside Rhinoceros preference



Un file in Rhinoceros, fornito con la Libreria "Responsive Facade" di ArchiRADAR, ti aiuterà a partire subito con il tuo progetto. Alcune geometrie sono già connesse con il file Grasshopper, anch'esso fornito.

Se decidi di creare il tuo personale file Rhinoceros, ricorda di impostare l'unità di misura in metri dentro le preferenze di Rhinoceros.



# Grasshopper

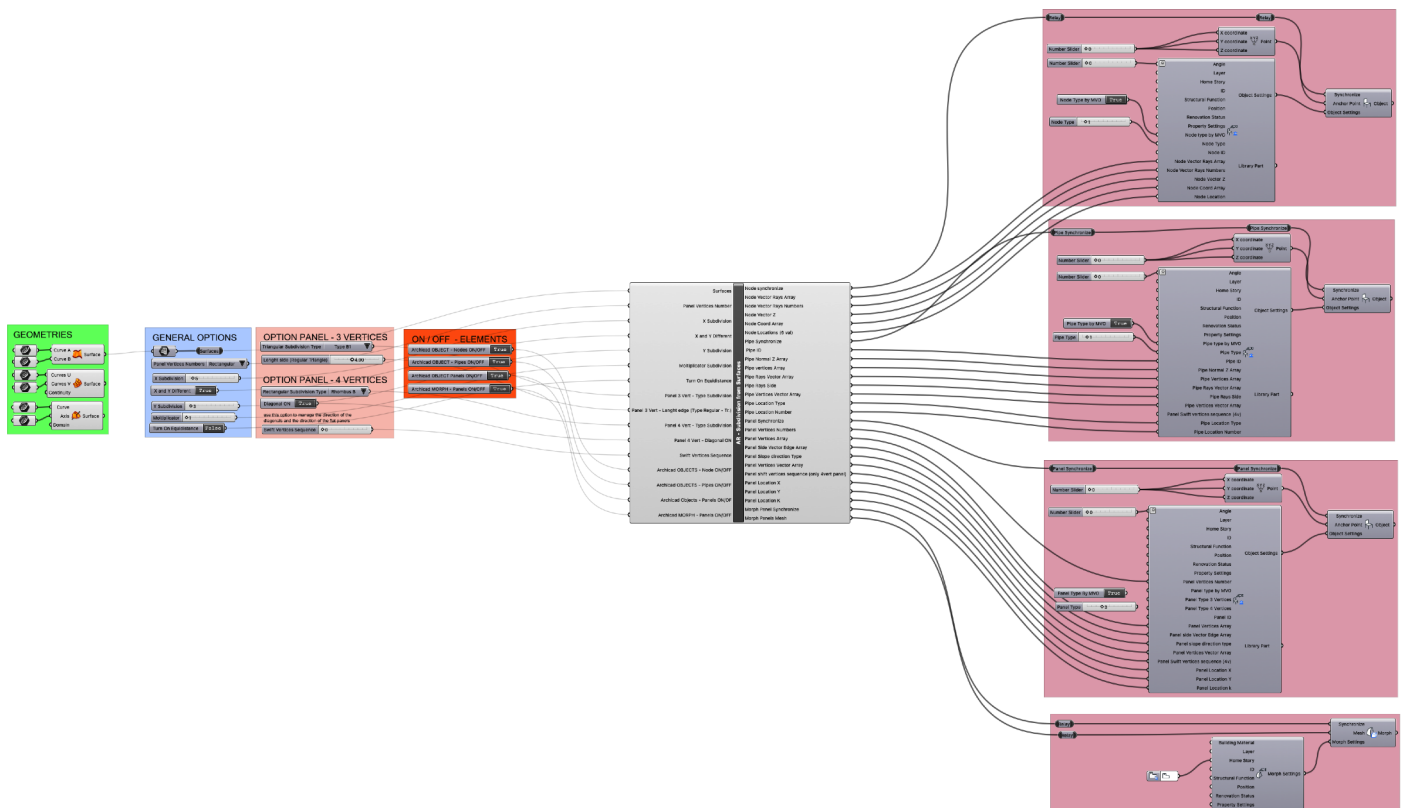
# Grasshopper



A definition in Grasshopper, provided with the Archicad Responsive Facade Library, will help you to start quickly your design.



Un file in Grasshopper, fornito con la Libreria "Responsive Facade" di ArchiRADAR, ti aiuterà a partire subito con il tuo progetto.





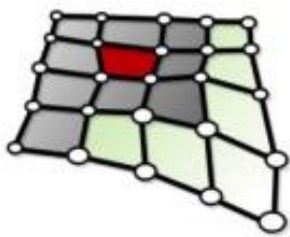
# Paneling Tool



The Definition in Grasshopper uses the plugin "Paneling Tool". Download it and install

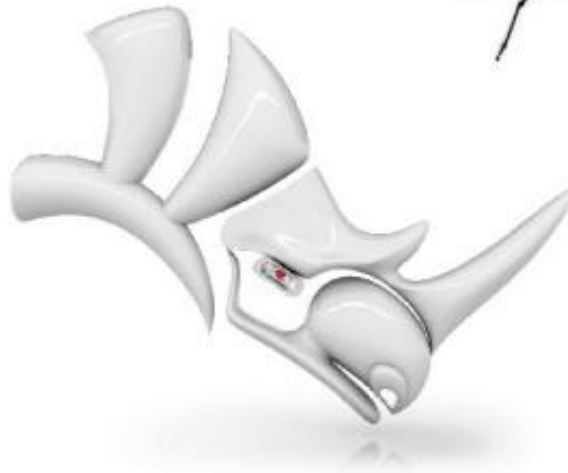


La definizione in Grasshopper usa la Plugin "Panling Tool". Scaricarla ed installarla.



## PanelingTools

for Grasshopper



# Grasshopper options



## Active the object components

Active the objects using the component in the red groups in Grasshopper.



## Attiva i componenti oggetto

Attiva gli oggetti usando i componenti nei gruppi rossi in Grasshopper.

nodes and pipes will be placed on the main user shape  
nodi e tubolari saranno posizionati sulla forma originale

the panels will be placed on the shape with the offset of the pink panel  
i pannelli saranno posiziopnati sulla forma alla distanza indicata nell pannello rosa

using morph you can manage quicly the shape of your project  
con il morph potrete gestire velocemente la forma del vostro progetto

### ON / OFF - ELEMENTS

Archicad OBJECT - Nodes ON/OFF	True
Archicad OBJECT - Pipes ON/OFF	True
Archicad OBJECT Panels ON/OFF	True
Archicad MORPH - Panels ON/OFF	False
Archicad MORPH - Surface ON/OFF	False

# Grasshopper options



## Manage parameters in Grasshopper

Manage pink and blu groups to modify parameters in GH



## Gestisci i parametri in Grasshopper

Gestisci i gruppi rosa e blu per modificare i parametri in Grasshopper.

connect here your shape  
collegare qui la tua forma

geometry subdivision  
suddivisione geometrica

subdivision U - V Direction  
suddivisioni nelle direzioni U - V

multiplicator of the subdivision  
moltiplicatore della suddivisione

Subdivision Optimization  
Ottimizzazione della suddivisione

**GENERAL OPTIONS**

Surfaces

Panel Vertices Numbers Triangular

X Subdivision 14

X and Y Different True

Y Subdivision 5

Multiplicator 1

Turn On Equidistance False

choose here the subdivision type of the panels  
scegli qui il tipo di suddivisione dei pannelli

Lenght of the edge of the panel only for Regular Subdivision type  
Lunghezza del lato del pannello, solo per il tipo di suddivisione regolare

Turn ON/OFF Diagonal  
Rende visibile la diagonale

Rotates the starting vertex of the panel;  
the first three vertices determine the flatness of the panel; vertices 1 and 3 determine the diagonal

Fa ruotare il vertice di partenza del pannello; i primi tre vertici determinano la planarità del pannello; i vertici 1 e 3 determinano la diagonale

**OPTION PANEL - 3 VERTICES**

Triangular Subdivision Type Type A1

Lenght side (Regular Triangle) 4.00

**OPTION PANEL - 4 VERTICES**

Rectangular Subdivision Type Rectangular

Diagonal ON True

use this option to manage the direction of the diagonals and the direction of the flat panels

Swift Vertices Sequence 0



# Grasshopper options



## Subdivision type

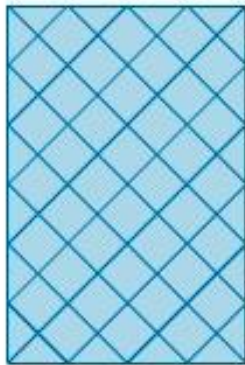
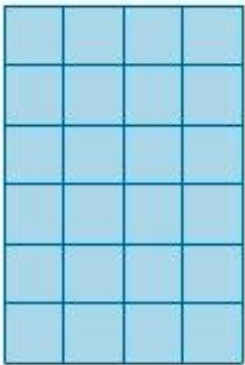
Choose the subdivision type in the pink panel according to your design



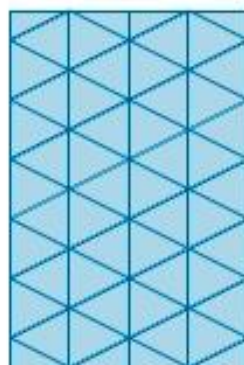
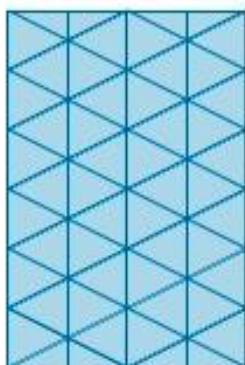
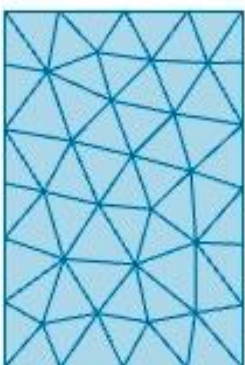
## Tipi di suddivisione

Scegli la suddivisione che preferisci nel pannello rosa in base al tuo progetto

4 vertices panels  
pannello a 4 vertici



3 vertices panels  
pannello a 3 vertici



# Grasshopper options



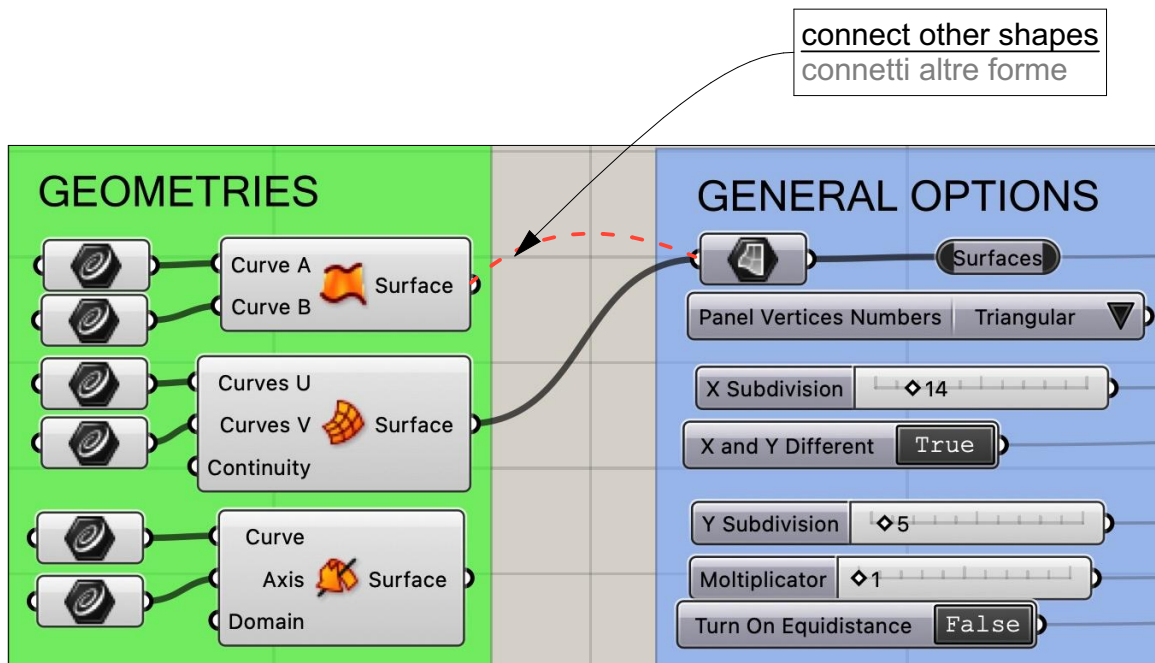
## Other shapes

Connect other shapes of the green groups in GH. You can create any shape you want.



## Altre forme

Connetti altre forme dei gruppi verdi in Grasshopper. Puoi creare qualsiasi forma vuoi.



# Grasshopper options



## Different layers

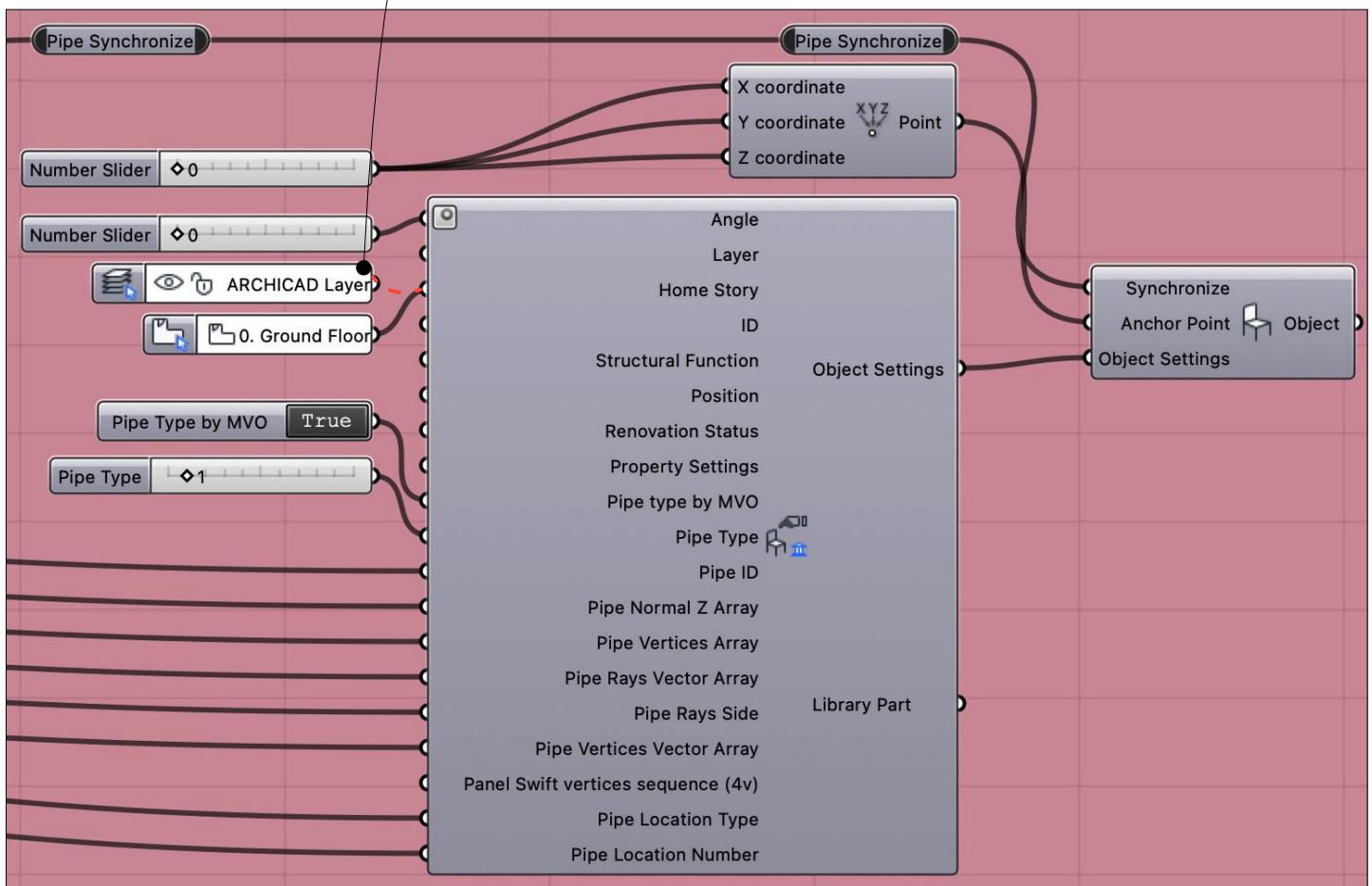
You can choose a specific Archicad layer for your object directly in GH. Choose the layer according to the layers name of your Archicad file.



## Lucidi differenti

Potrai scegliere uno specifico lucido Archicad per l'oggetto direttamente in Grasshopper. Scegli il lucido in accordo ai nomi dei layer disponibili in Archicad.

choose and connect the Archicad layer  
scegli e connetti il lucido Archicad



# Grasshopper options



## Panel type by MVO - Model View Option

You can turn False/True the option "panel type by MVO" and define the panel type directly in Grasshopper or in Archicad with Model View Option dialog. You can find the number of the type of panel in the dialog setting of the object in Archicad.

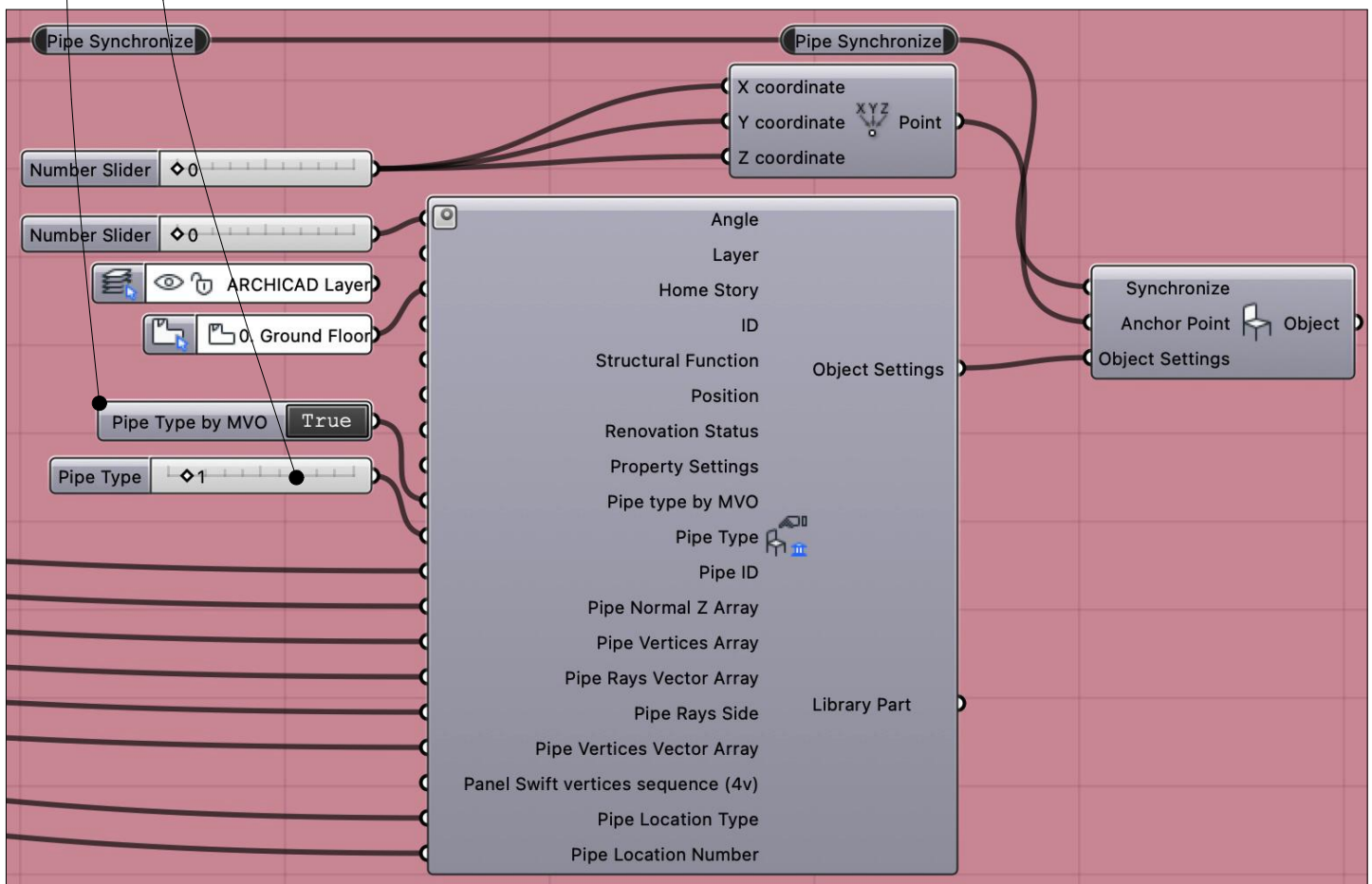


## Tipo di pannello by OVM - opzioni Visualizzazione Modello

Puoi impostare False/True l'opzione "panel type by MVO" e definire il tipo di pannello direttamente in Grasshopper o in Archicad con il dialogo Opzioni Visualizzazione Modello. Potete trovare il numero del tipo di pannello nel dialogo di settaggio degli oggetti in Archicad.

True on to manage the panel type using Model View Option in Archicad  
False to manage the panel type in Grasshopper with the parameter below  
impostare True per gestire il tipo di pannello usando il OVM in Archicad  
impostare False per gestire il tipo di pannello in Grasshopper con il parametro inferiore

Choose here the panel type number if you want manage it in Grasshopper  
scegliete qui il numero del tipo di pannello se volete gestirlo in Grasshopper





# Grasshopper options



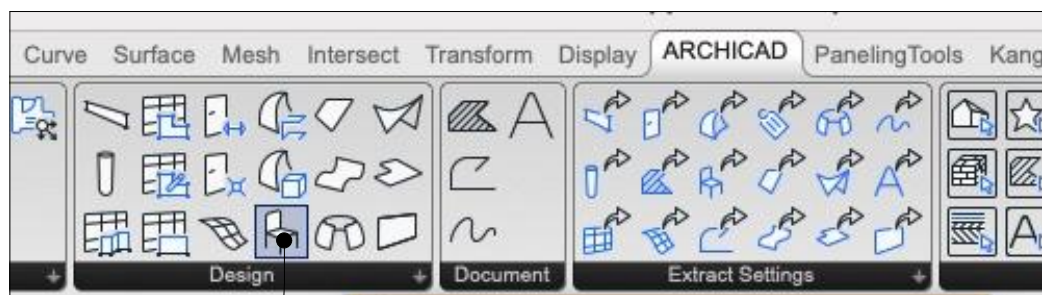
## Display Order

In Archicad the display order in floor plan of the object created in Grasshopper depend on the sequence you create the new component in Grasshopper. Last component created will be visualized on top.



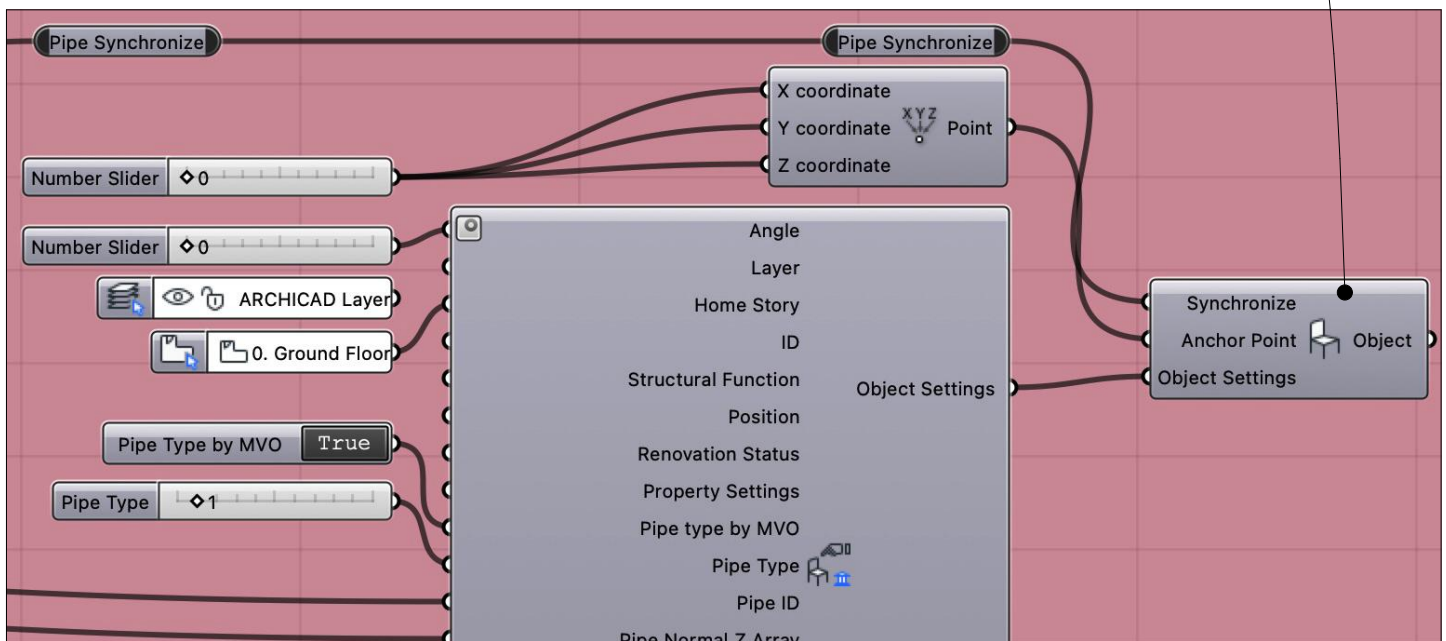
## Ordine di visualizzazione

L'ordine di visualizzazione in pianta in Archicad degli oggetti creati in Grasshopper dipende dalla sequenza dei componenti creati in Grasshopper. L'ultimo componente creato sarà visualizzato più in alto rispetto agli altri.



Create the component  
Crea il componente

Connect the component  
Connetti il componente





# Grasshopper options



## How to speed up the connection

Let start using only the morph surface and panel, then turn off the morph and use first the panel object then pipes and nodes (1); start using a low subdivision and low multiplier, increase the values only when you have defined your design (2); turning off the preview is the main option (3), you don't need it when the connection is on; start the connection only to generate the model in Archicad, then turn it off (4); generally you don't need a detailed preview in Rhino (4);

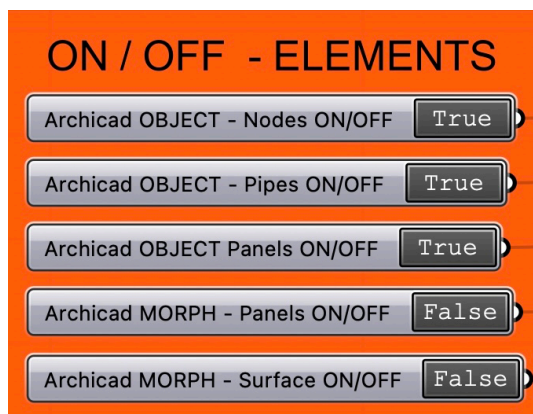


## Come velocizzare la connessione

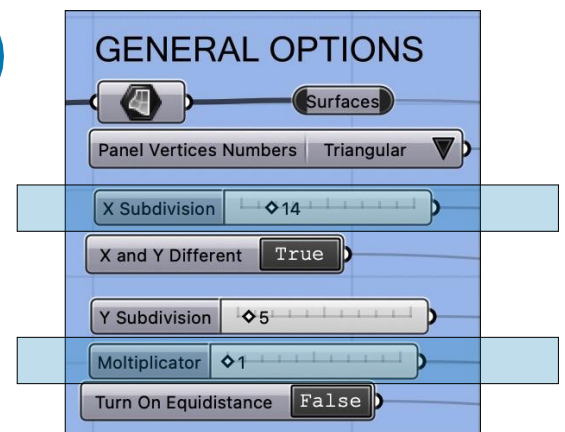
Comincia usando solo la superficie e il pannello del morph, poi spegni il morph e usa prima l'oggetto pannello, poi pipe e nodi (1); inizia a usare una suddivisione bassa e un moltiplicatore basso, aumenta i valori solo quando hai definito il tuo disegno (2); disattivare l'anteprima è l'opzione principale (3), non serve quando la connessione è attiva; avviare la connessione solo per generare il modello in Archicad, quindi disattivarla (4); generalmente non è necessaria un'anteprima dettagliata in Rhino (4);

1

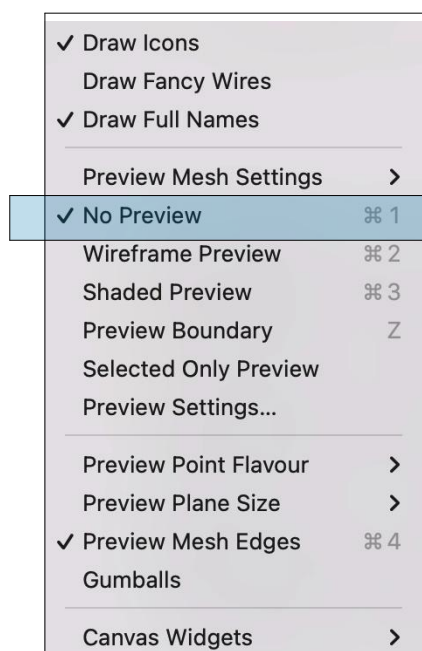
5th  
4th  
3th  
2th  
1th



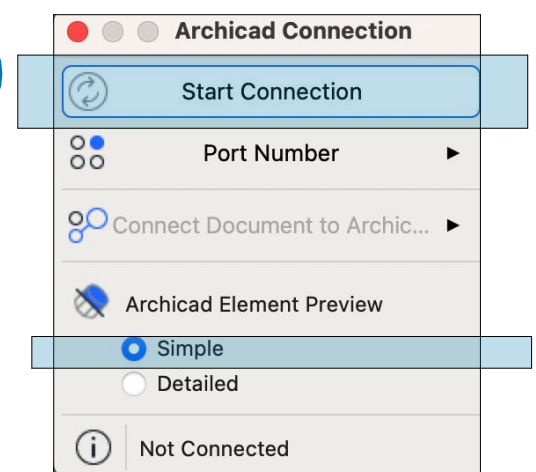
2



3



4



Turn off preview - You will avoid Archicad send back information to Grasshopper  
Spegni la preview - Eviterai che Archicad invii indietro informazioni a Grasshopper

# Archicad Options



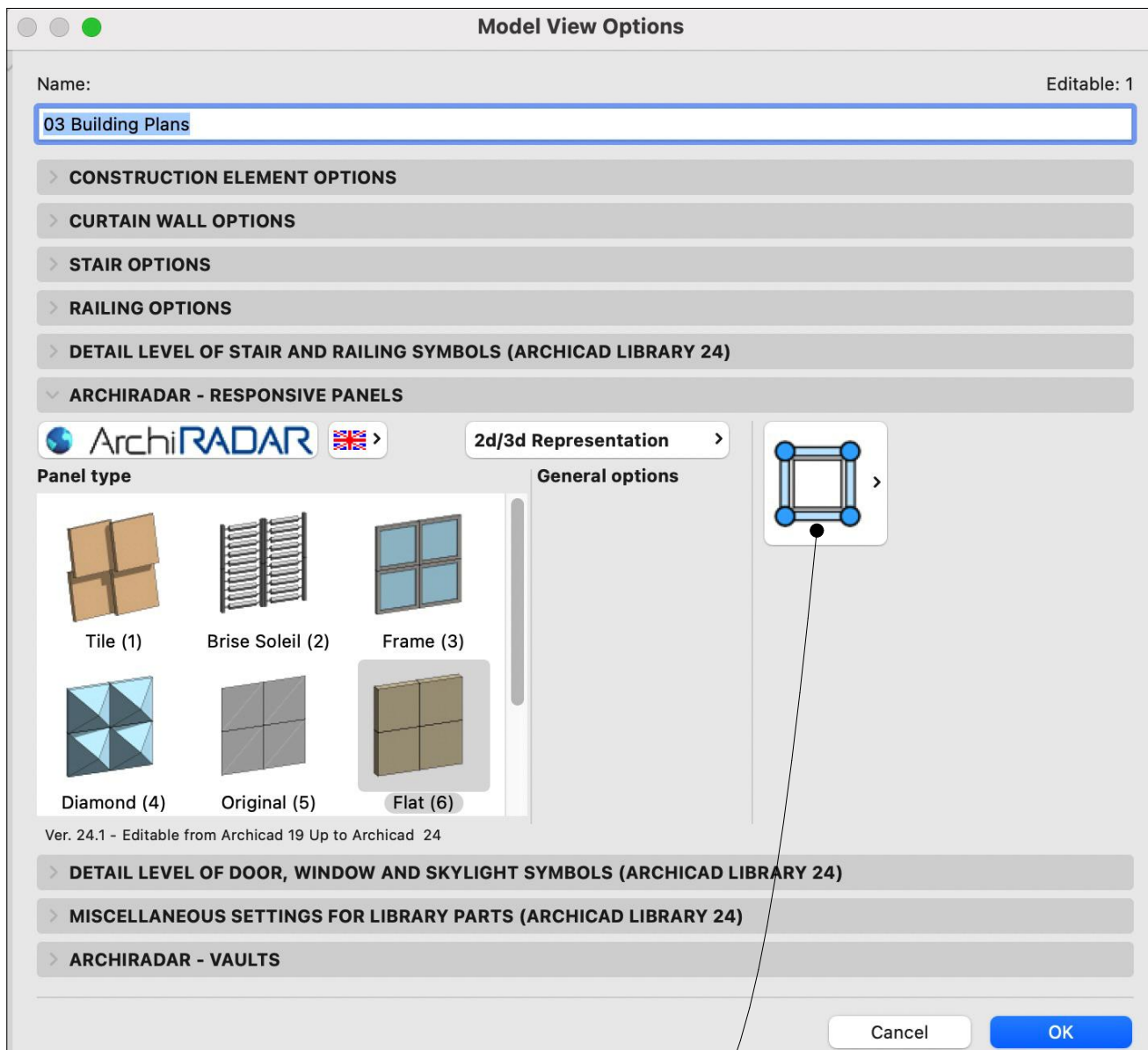
## Settings in MVO - Model View Option

All the settings are available in the MVO dialog.



## Impostazioni in OVM - Opzioni Visualizzazione Modello

Tutte le impostazioni sono disponibili nel dialogo OVM.



Choose here the object type 1-2-3-4 vertices  
Scegli qui il tipo di oggetto 1-2-3-4 vertici

# Archicad Options



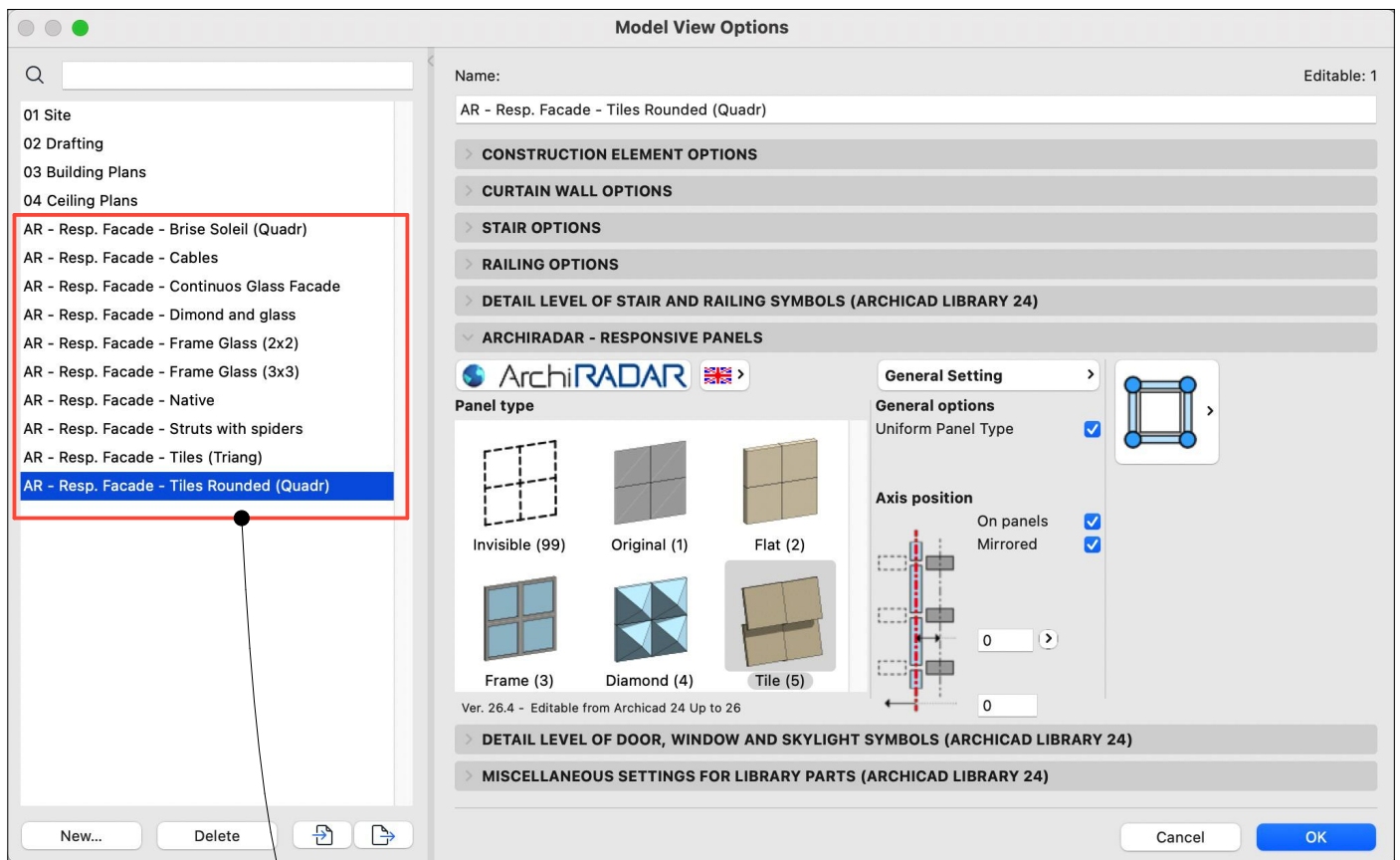
## Settings in MVO - Model View Option

All the settings are available in the MVO dialog.



## Impostazioni in OVM - Opzioni Visualizzazione Modello

Tutte le impostazioni sono disponibili nel dialogo OVM.



Preset available  
Preset disponibili

# Archicad Options



## Import parameters from MVO - Model View Option

If you want to import the MVO setting in the objects: select all the objects and in the dialog setting of the objects, in the general menu, there is an option to import the setting from MVO.

Remember then, if you want, to turn off all the MVO inside the objects.

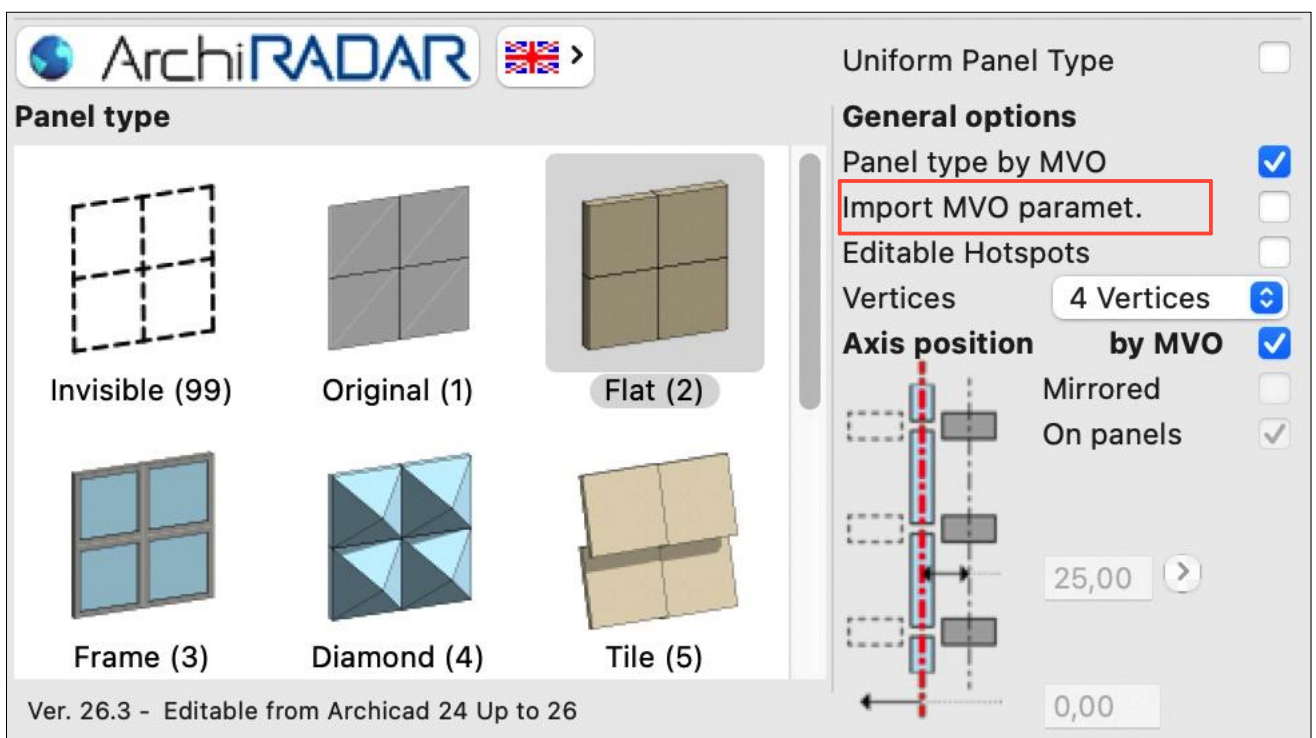


## Importare i parametri da OVM - opzioni

### Visualizzazione Modello

Se vuoi importare i settaggi OVM negli oggetti: seleziona tutti gli oggetti e nel dialogo di settaggio degli oggetti, nel menù generale, c'è un'opzione per importare i settaggi da OVM.

Ricorda che potrai se preferisci, impostare su "off" tutte le impostazioni "by OVM" all'interno degli oggetti.



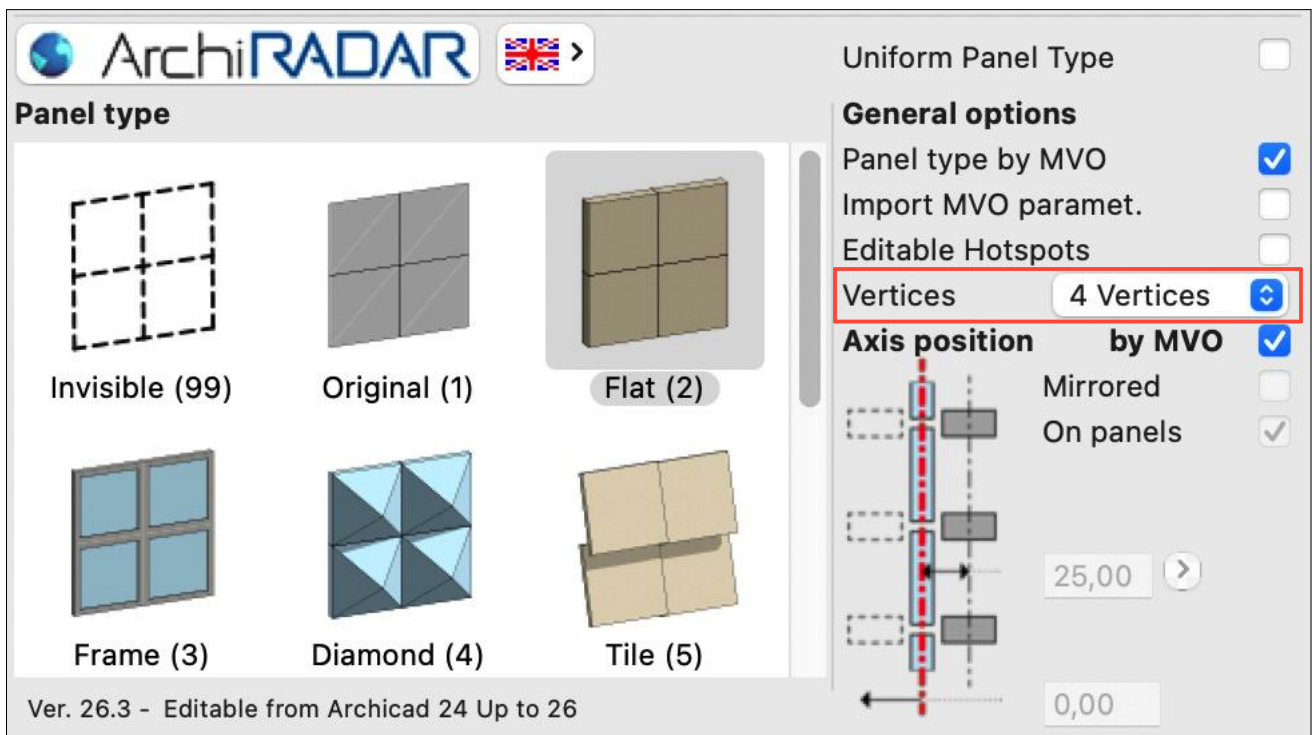
# Archicad Options



Define the number o vertices of the Panel



Definisci il numero dei vertici del Pannello





# Archicad Options



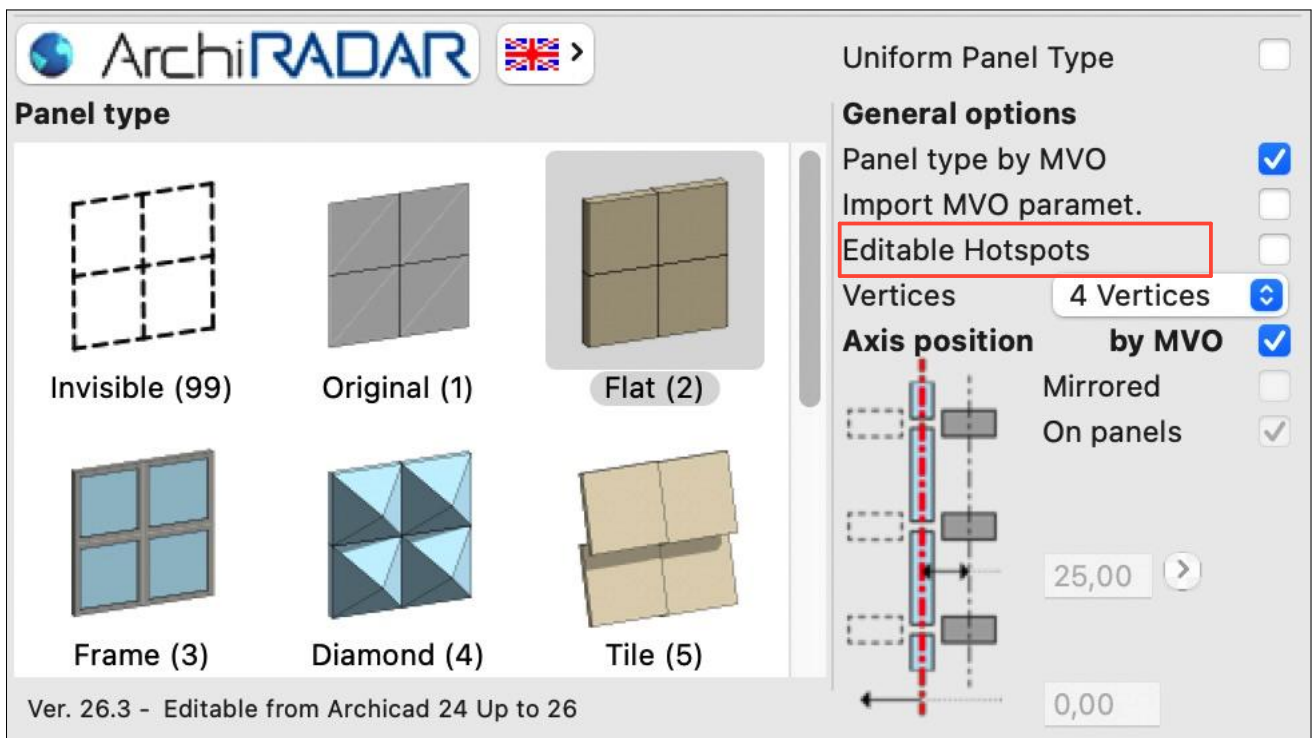
## Editable mode

If you turn on this option you will be able to manage the vertices using the traditional Archicad Hotspot. The hotspot at the coordinate 0,0 will be turned off.



## Modalità editabile

Se imposti questa opzione su on, potrai gestire i vertici dei pannelli con i tradizionali Hotspot di Archicad. L'Hotspot alle coordinate 0,0 sarà disattivato



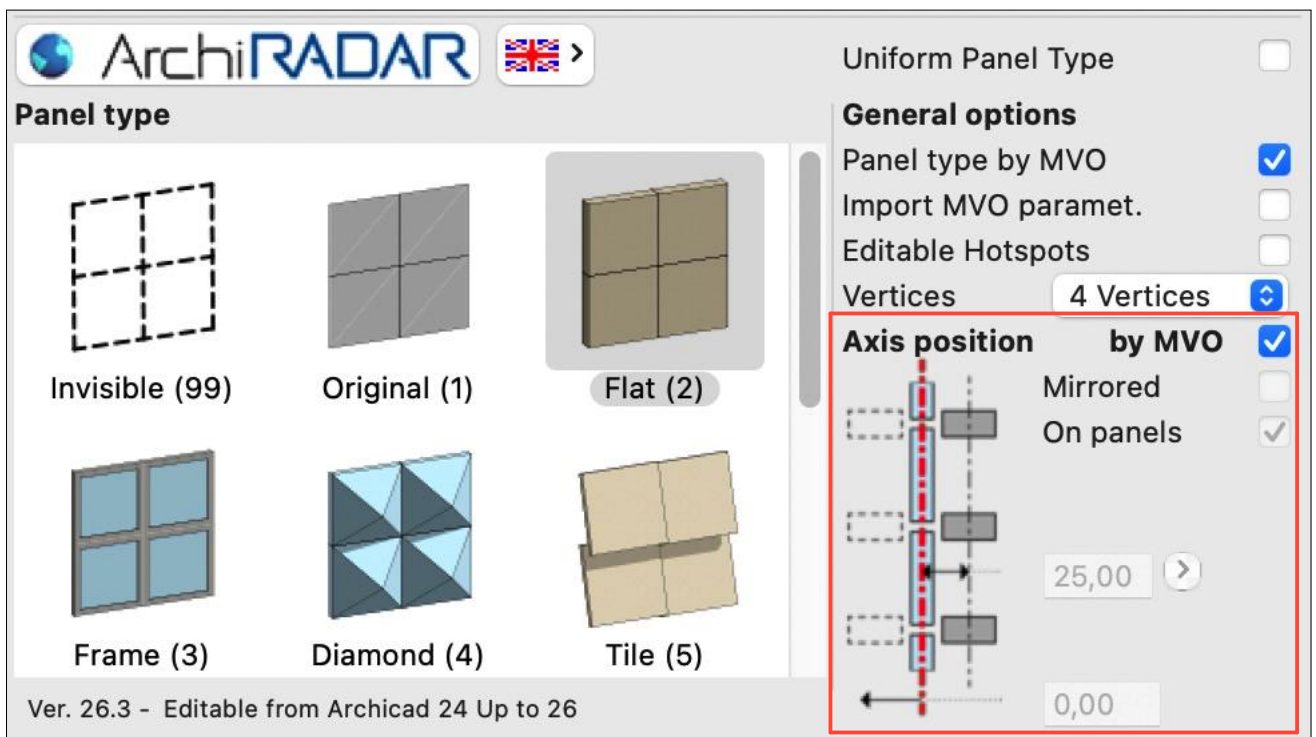
# Archicad Options



Define the position of the Axis



Definisci la posizione degli assi



# Archicad Options



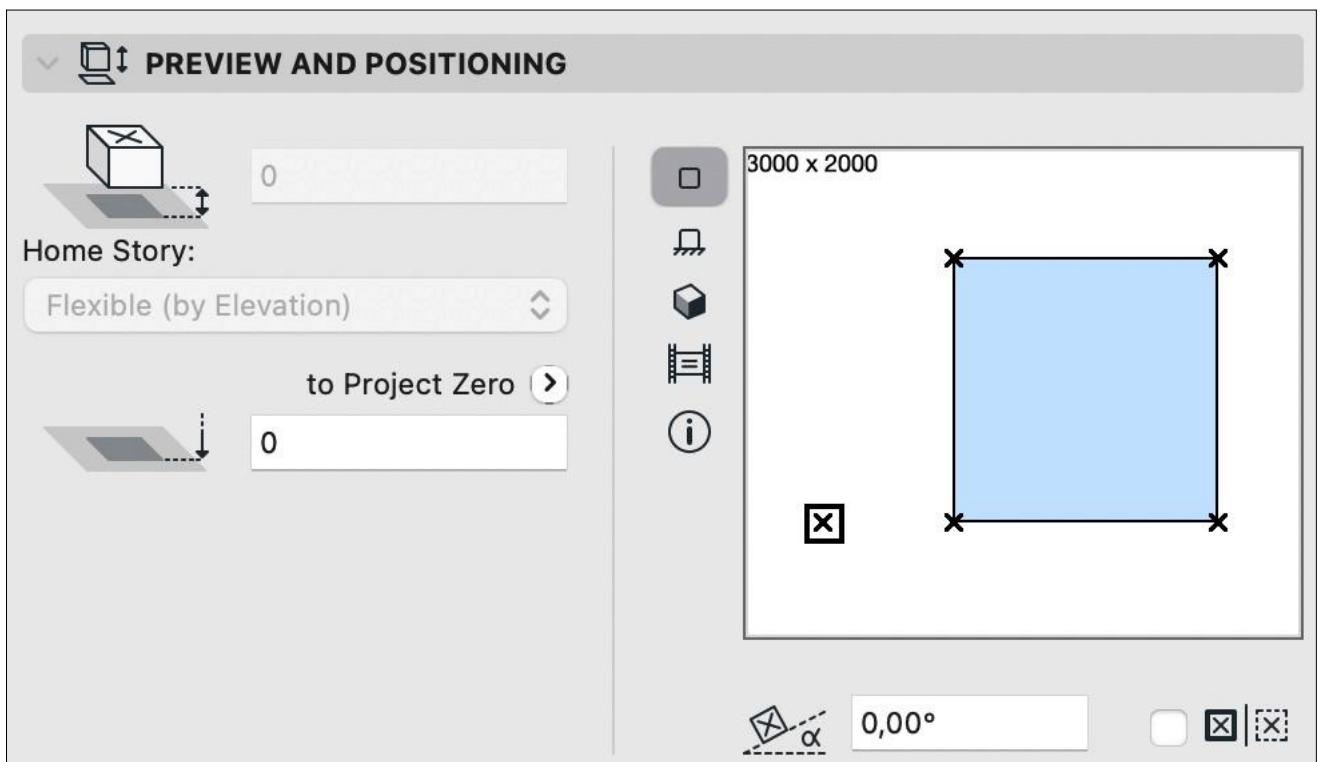
## Hotspot at the coordinate 0,0

Each object has an hotspot in coordinate 0,0. This option needs to make the object working well with the connection. It will turn off if you switch in editable mode.



## Hotspot alle coordinate 0,0

Ogni oggetto ha un hotspot alle coordinate 0,0. Questa impostazione è necessaria per far funzionare l'oggetto con la connection. L'hotspot diventerà invisibile se attivate l'opzione dei vertici editabili.



# Archicad Options



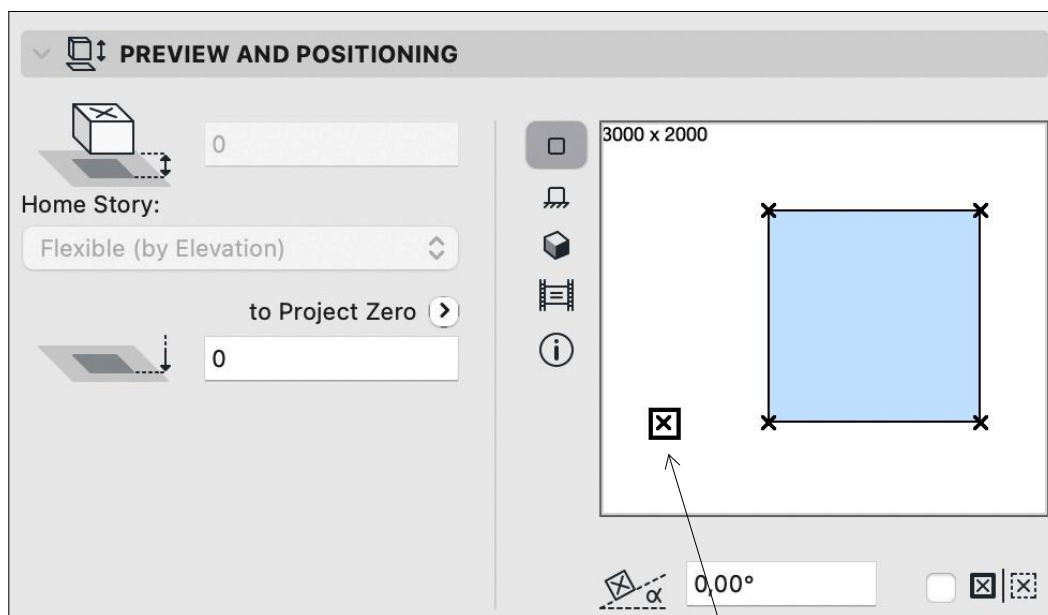
## Warning!!!

You could have problem in the position of the objects; if so follow these steps: place the default objects on the floor plan manually, there is an hotspot on the coordinate 0,0 of the object, in the dialog setting this hotspot must be pointed out with a black circle around it, it means that it is the inserting main hotspot, using the pick up tool on the hotspot 0,0, the software will be set the default object with the main inserting hotspot in the 0,0 coordinate. This problem occurs when the default setting changes and the main insert hotspot is not that one in 0,0 coordinate. Try also to interrupt the connection, delete all the objects, and start the connection again.



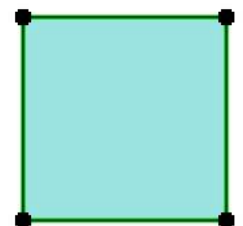
## Attenzione!!!

Potreste avere problemi con la posizione degli oggetti; se così, seguite questi passaggi: posizionate l'oggetto di default sulla pianta manualmente, c'è un hotspot alle coordinate 0,0 dell'oggetto, nel dialogo di settaggio questo hotspot deve essere evidenziato con un cerchio nero intorno, questo significa che esso è il punto di inserimento principale, usando lo strumento "preleva parametri" (contagocce) sull' hotspot 0,0, il programma imposterà l'oggetto di default con il punto principale di inserimento alle coordinate 0,0. Questo problema accade quando i settaggi di default cambiano ed il punto principale di inserimento non è quello alle coordinate 0,0. Provate anche interrompendo la connessione, cancellando tutti gli oggetti and facendo ripartire la connessione.



This is the correct hotspot that must be selected  
Questo è il punto corretto che deve essere selezionato

use "pick up parameters" the set the default setting in the object, dialog; the insertion Hotspot must be that one in the coordinate 0,0  
usate "preleva parametri" per impostare il settaggio di default dell'oggetto nel dialogo; il punto di inserimento deve essere quello alle coordinate 0,0.



# Archicad Options



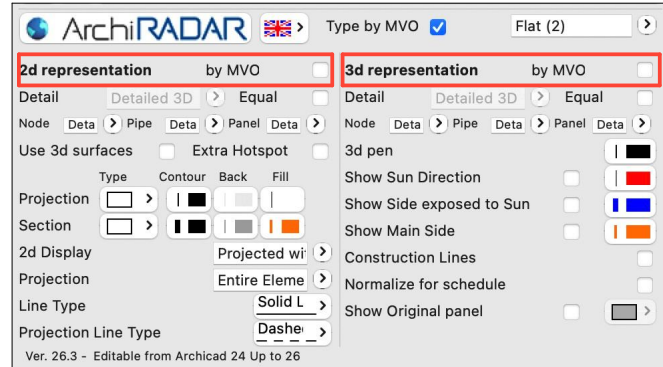
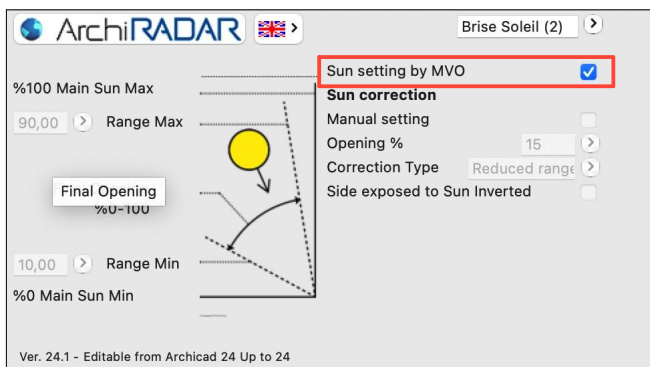
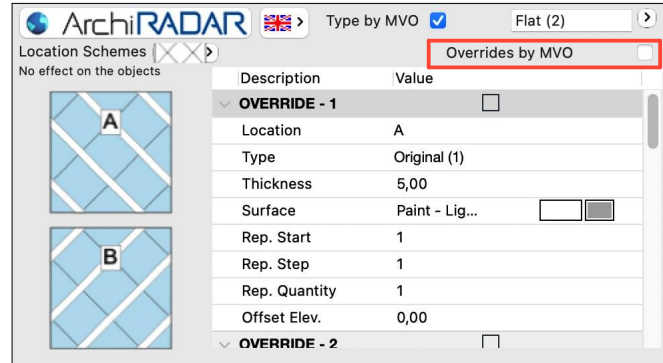
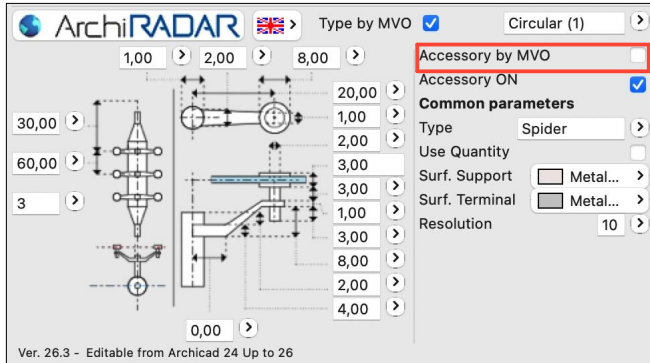
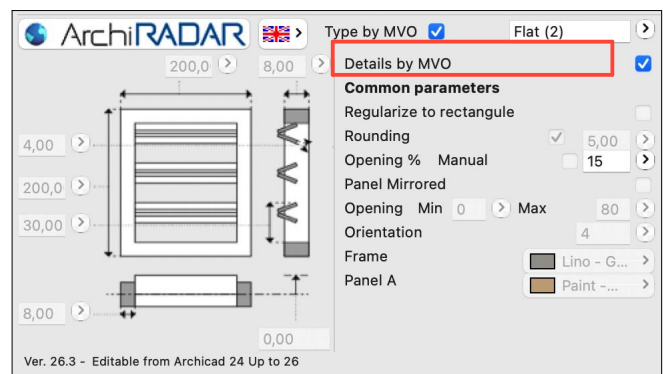
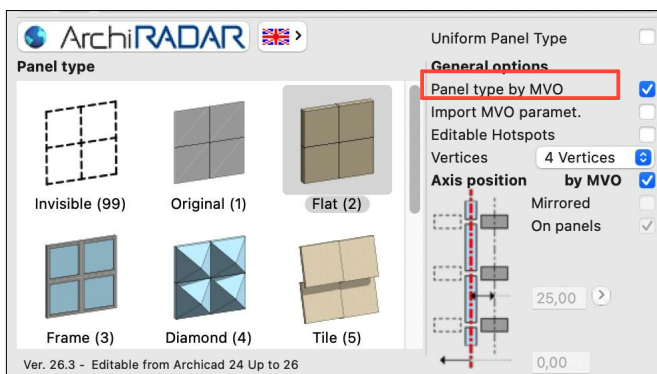
## Manage all the parameters using MVO

You can manage all the parameters using the MVO - Model view Option dialog. The default setting is all the MVO option on.



## Gestire tutti i parametri usando OVM

potrai gestire tutti i parametri usando il OVM - Opzioni Visualizzazione Modello. L'impostazione di default è con OVM "on".





# Archicad Options



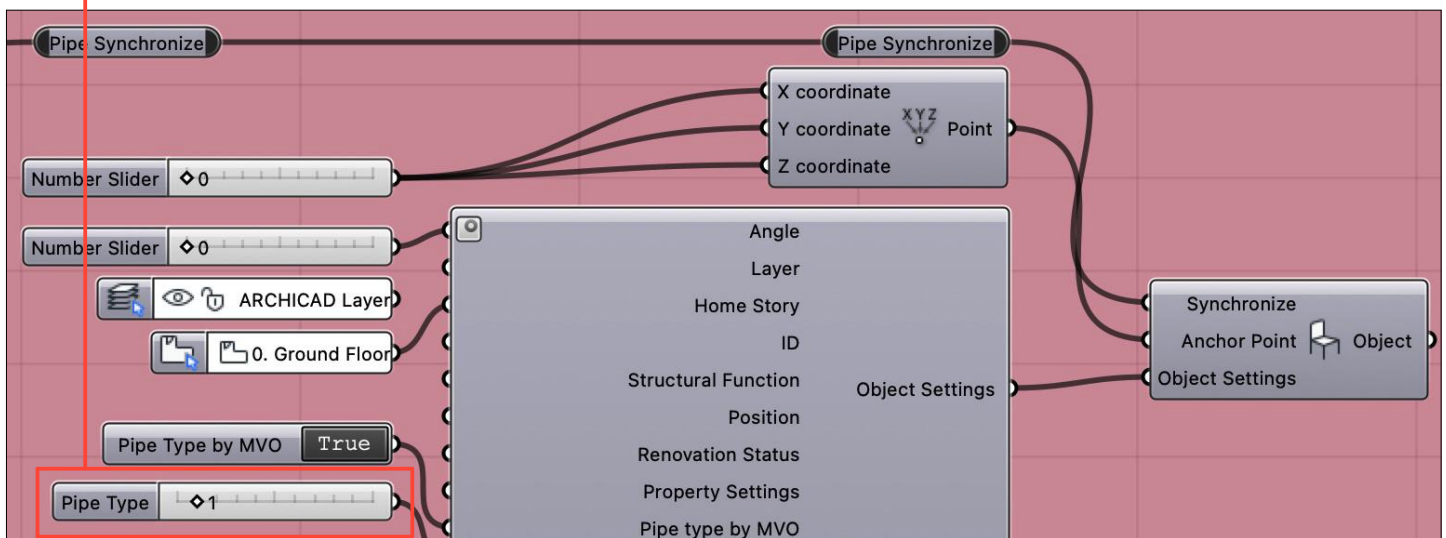
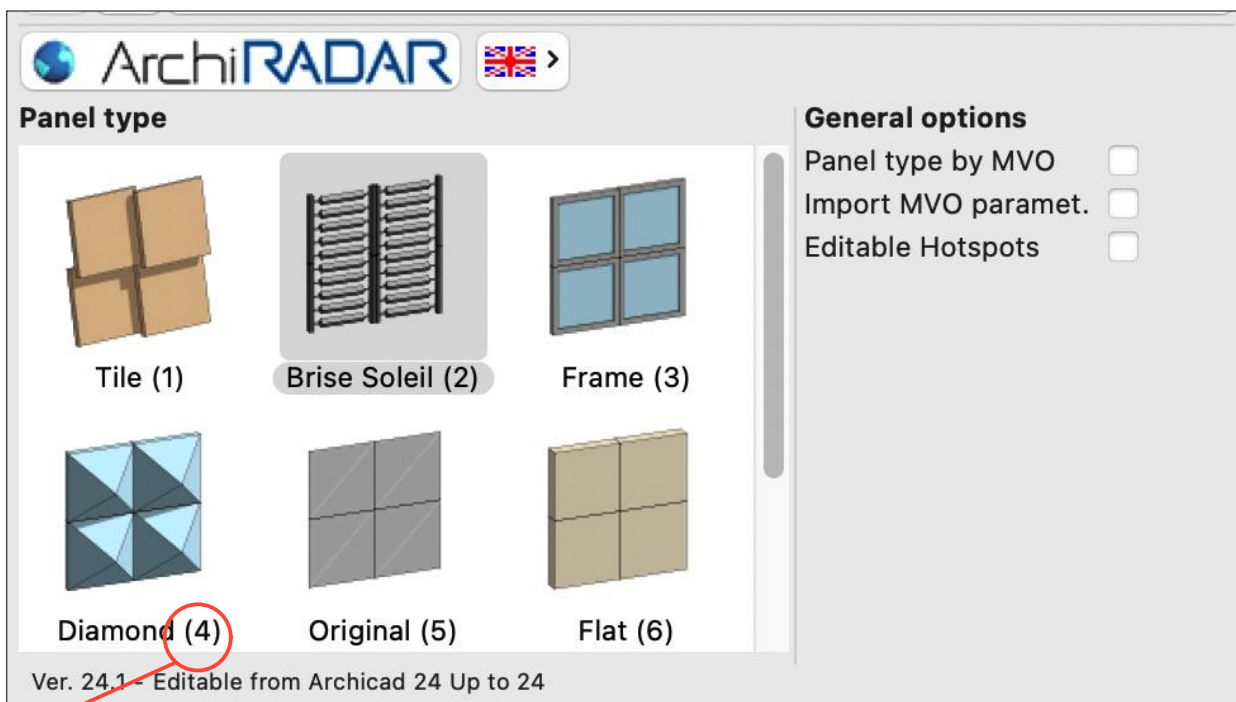
## Dialog setting - Choose the panel type

You can choose from different panel types; the number of the panels type can be used directly in Grasshopper to define the type.

## Dialogo impostazioni - Scegli il tipo di pannello



Potrete scegliere fra diversi tipi di pannello; il numero del tipo di pannello potrà essere usato direttamente in grasshopper per definire il pannello



# Archicad Options



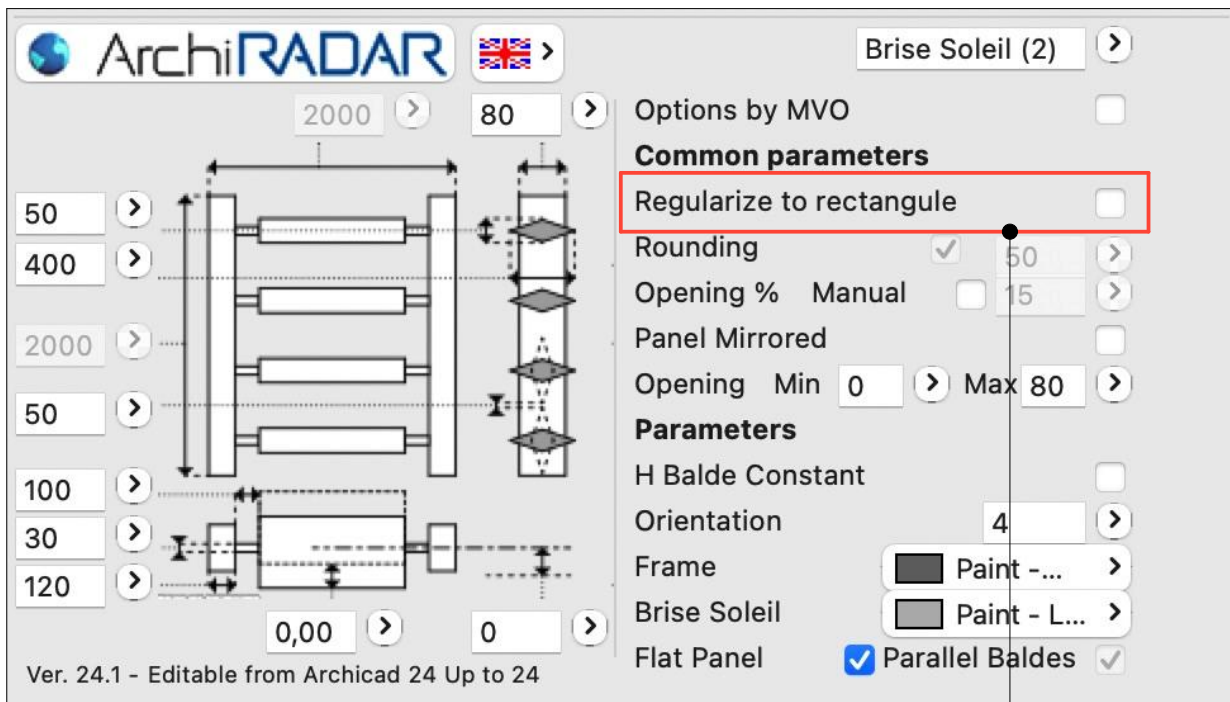
## Dialog setting - Panel details

Each panels has different options



## Pannello impostazioni - Dettagli pannello

Ogni pannello ha opzioni differenti



Use this option to regularize any shape to rectangular shape  
Usate questa opzione per regolarizzare ogni forma ad un rettangolo regolare.

# Archicad Options



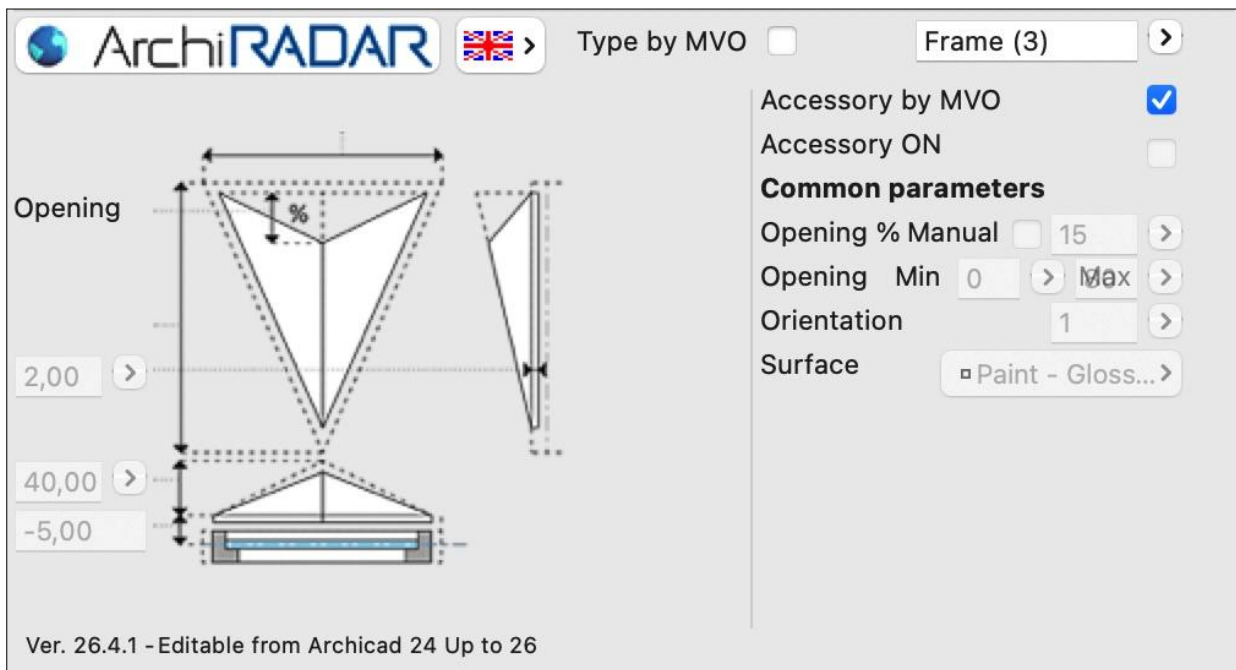
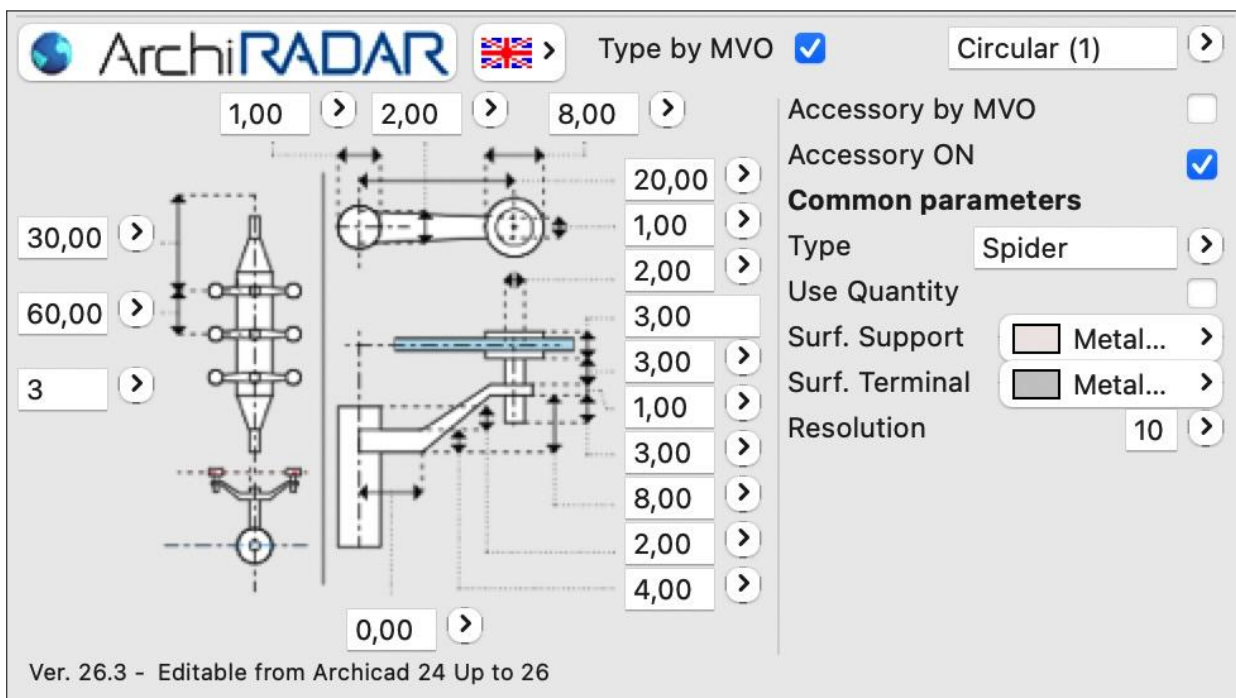
## Accessories

Some elements provides accessories



## Accessori

Alcuni elementi sono dotati di accessori



# Archicad Options



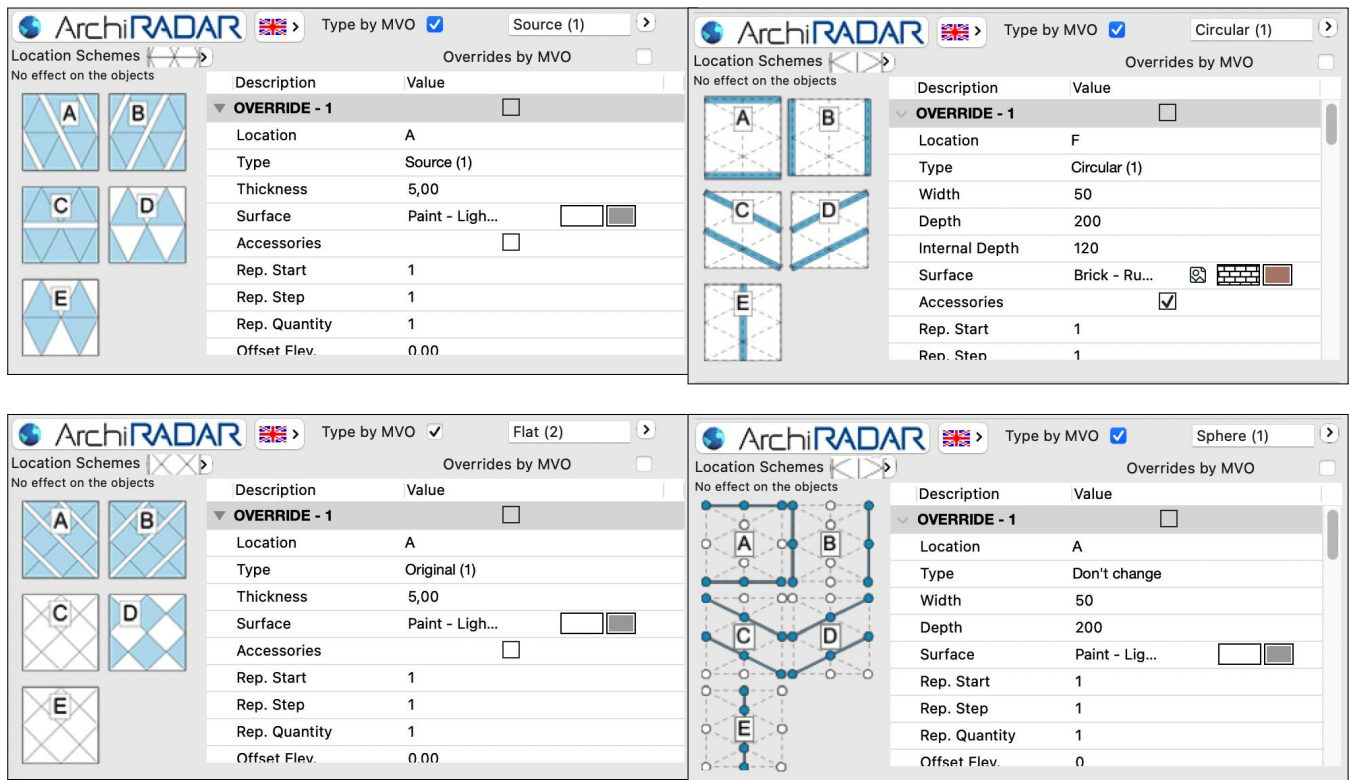
## Overrides

You can manage up to 5 overrides levels.



## Sovrascritture

Potrai gestire fino a 5 livelli di sovrascritture



# Archicad Options



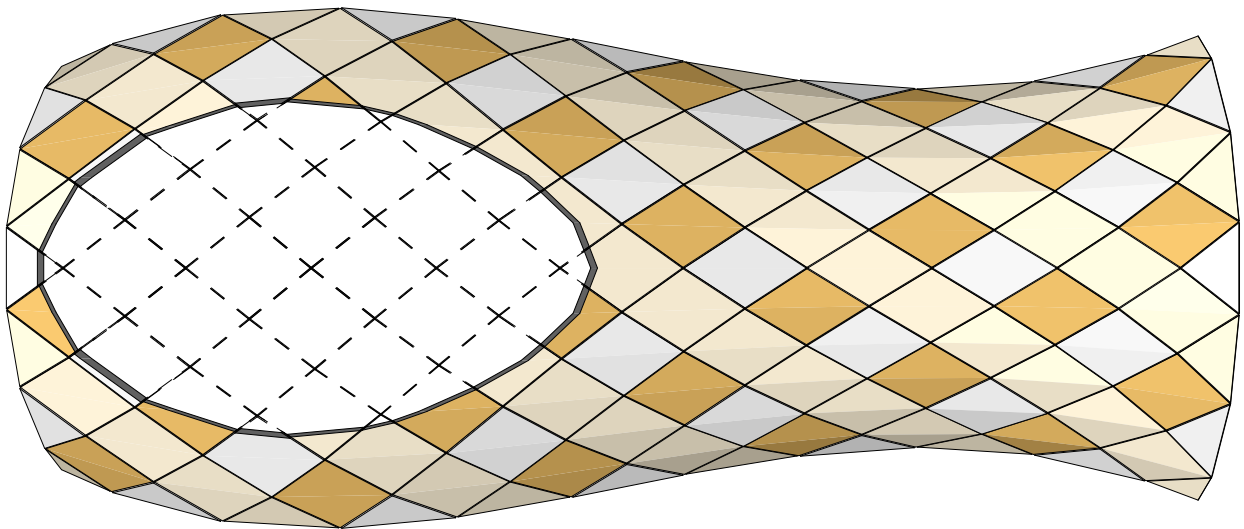
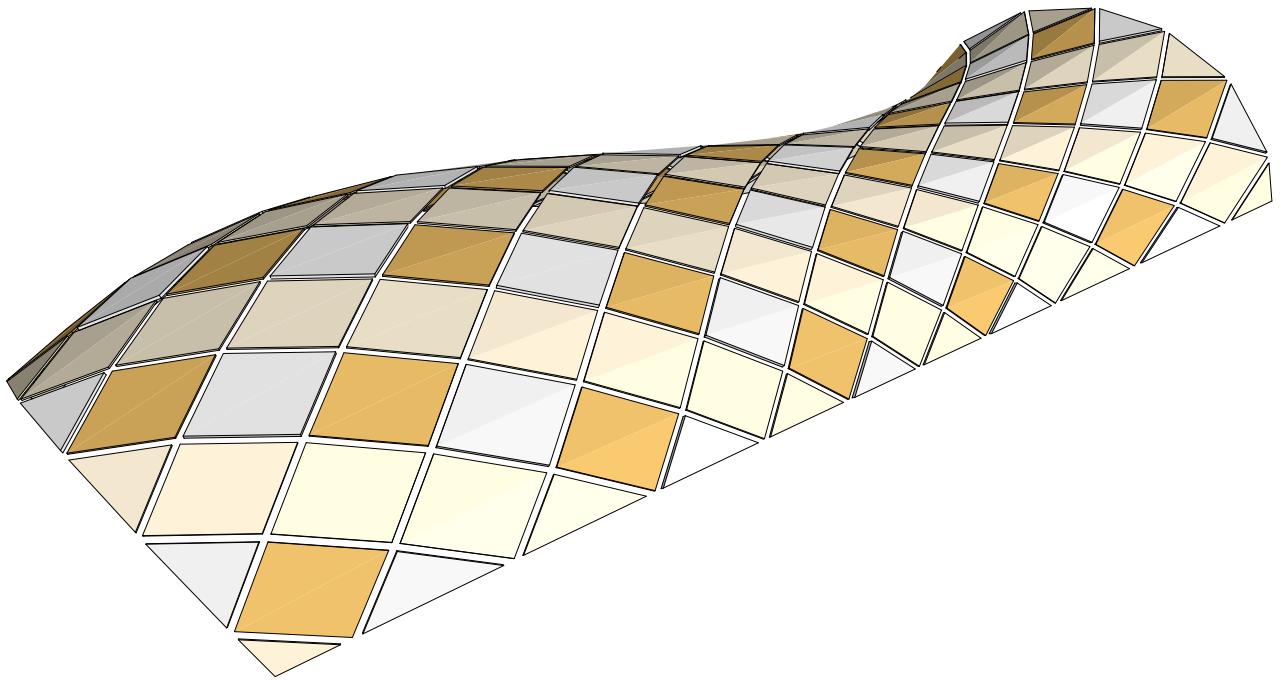
## Overrides

You can manage up to 5 overrides levels.



## Sovrascrittura

Potrai gestire fino a 5 livelli di sovrascrittura





# Archicad Options



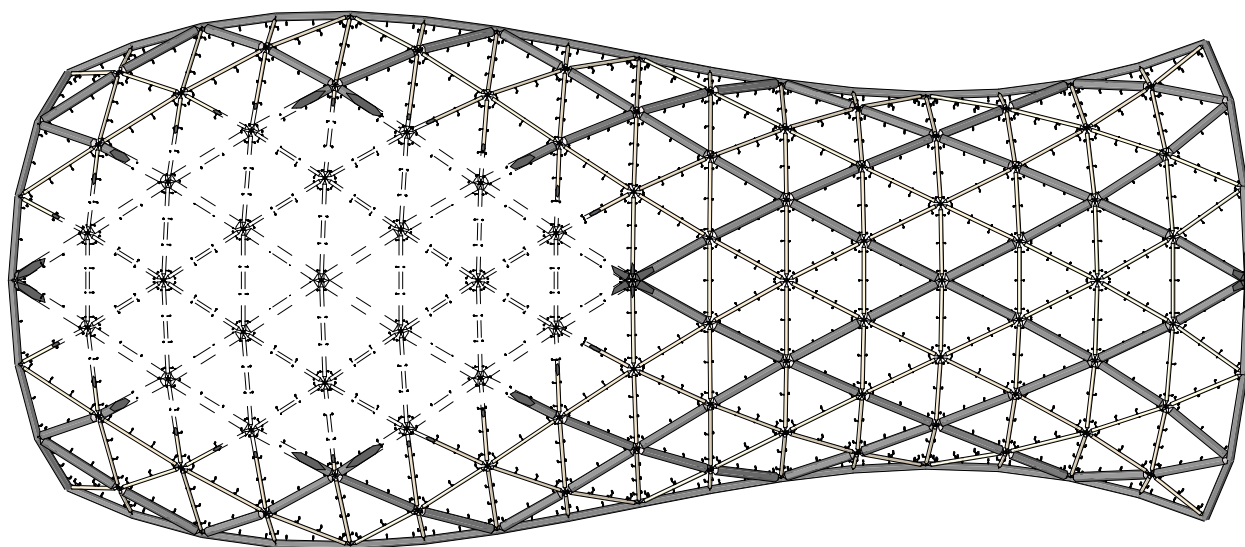
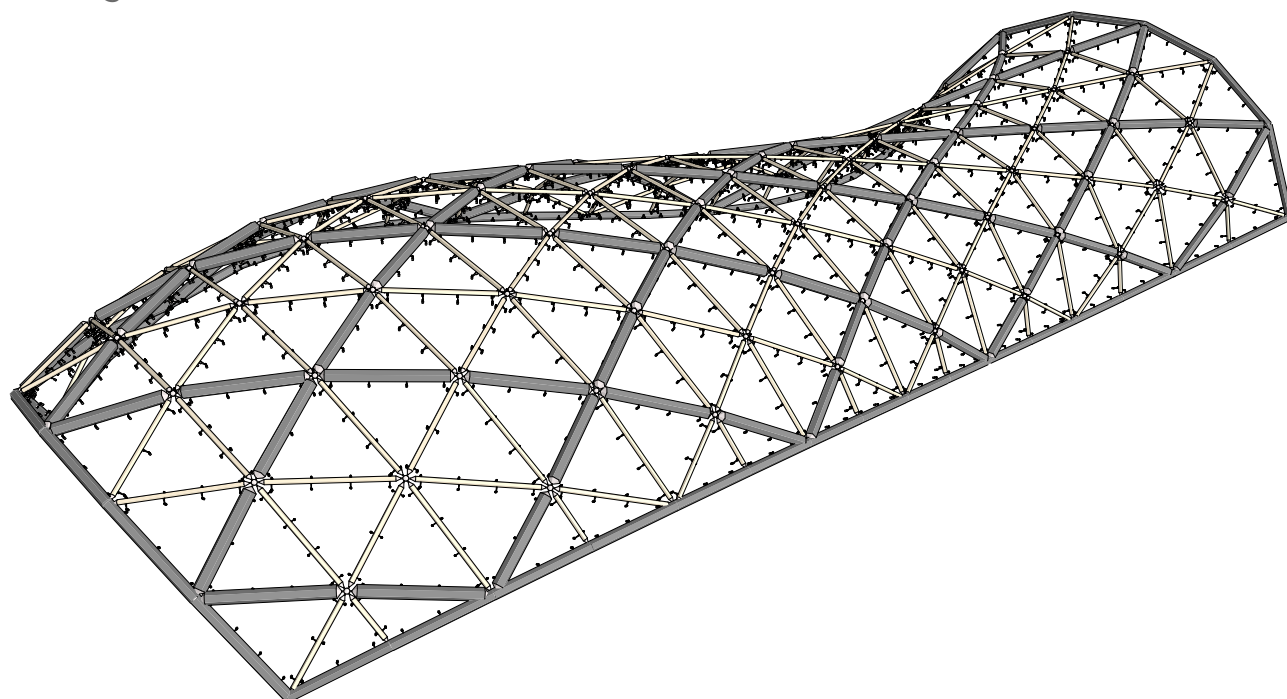
## Overrides

You can manage up to 5 overrides levels.



## Sovrascrittura

Potrai gestire fino a 5 livelli di sovrascrittura



# Archicad Options



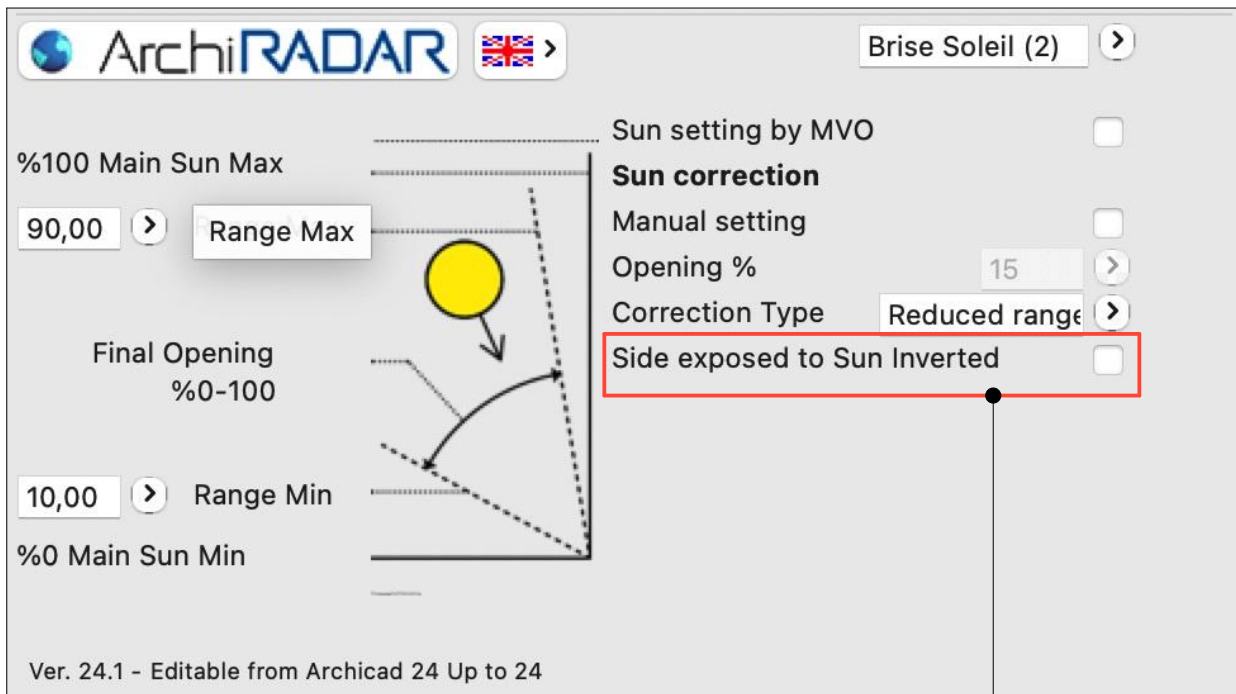
## Dialog setting - Sun Correction

Some panels have the possibility to manage the opening according to the sun position.



## Dialogo impostazioni - Correzione sole

Alcuni pannelli hanno la possibilità di gestire l'apertura in accordo alla posizione del sole.



Use this option to invert the side of the panel exposed to the sun

Usa questo parametro per invertire il lato del pannello esposto al sole

# Archicad Options



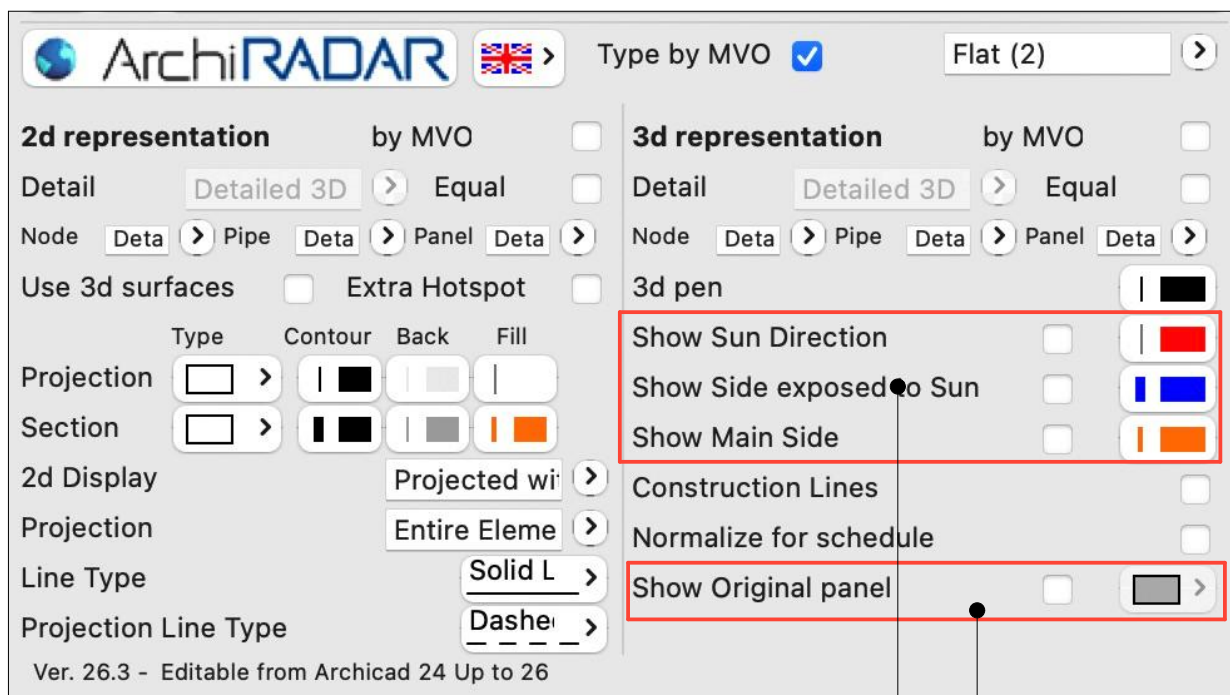
## Dialog setting - 2D/3D Representation

Different options give the possibility to manage details both in 2d and 3d



## Dialogo impostazioni - Rappresentazione 2D/3D

Differenti opzioni danno la possibilità di gestire il dettaglio sia in 2d che 3d.



With these options you can show

- A line as a vector of the direction of the sun
- A line as the side of the panel exposed to the sun
- A line as the main side of the object

Con questi parametri potrete mostrare:

- Una linea come vettore della direzione del sole
- Una linea come il lato del pannello esposto al sole
- Una linea come il lato principale dell'oggetto

Whit this option you can show the original shape coming from GH that generates the panel

Con questi parametri potrete mostrare la forma originale che proviene da GH che genera il pannello



# Archicad Options



## Detail Level 2d

You can choose from different detail level; not always all the level are available.



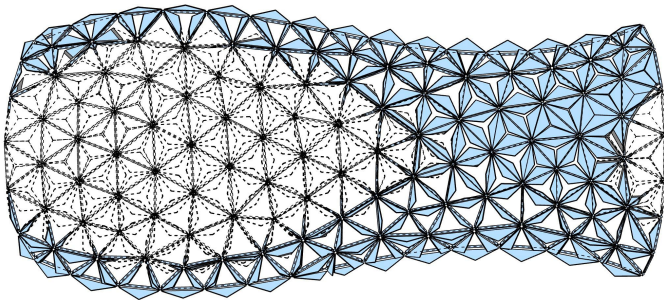
## Livello di dettaglio 2d

Potrete scegliere fra differenti livelli di dettaglio; non sempre tutti i livelli sono disponibili.

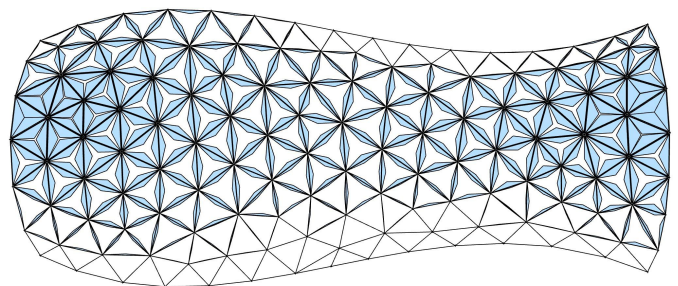
Symbol from 3d / Simboli dal 3d

Symbol only 2d / Simbolo solo 2d

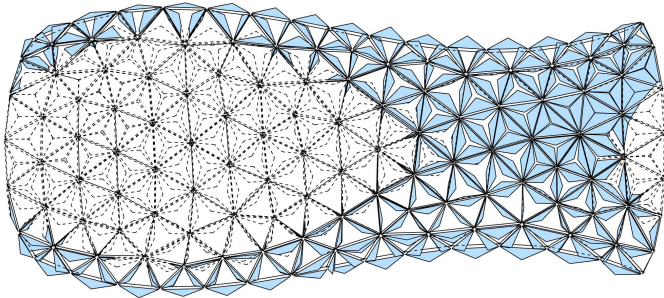
DETAILED 3D



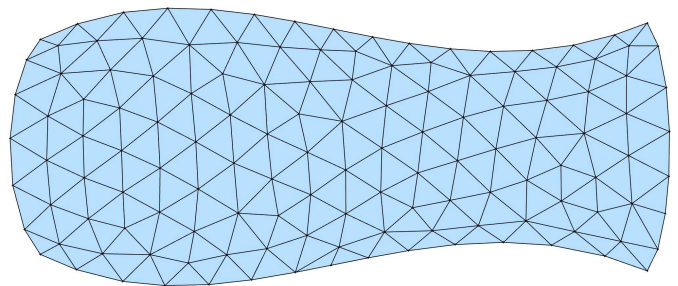
SCHEMATIC 2D



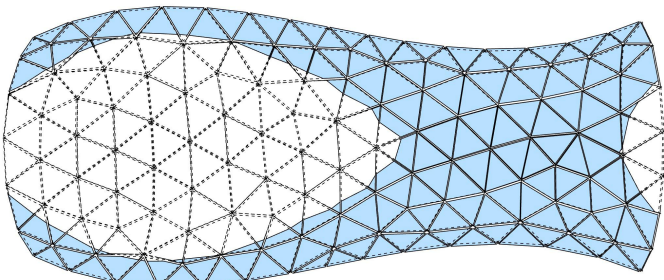
SIMPLE 3D



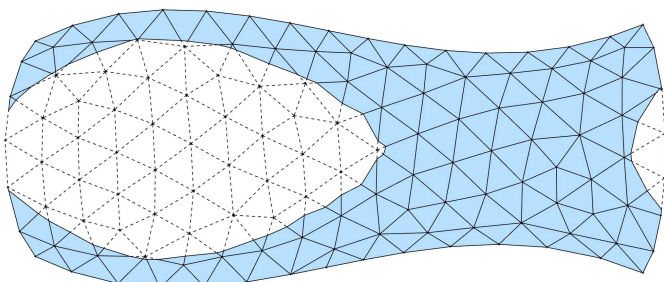
NATIVE 2D



SCHEMATIC 3D



NATIVE 3D



# Archicad Options



## Detail Level 3d

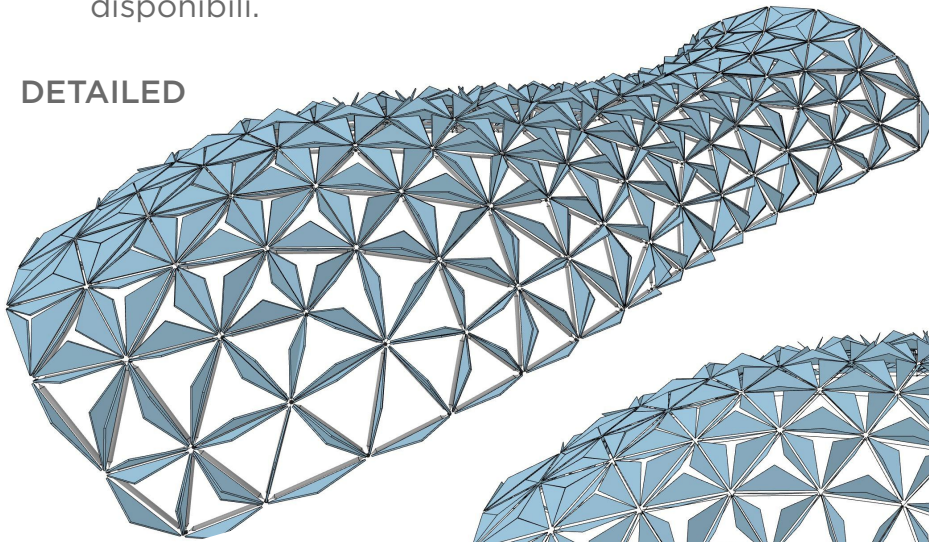
You can choose from different detail level; not always all the levels are available.



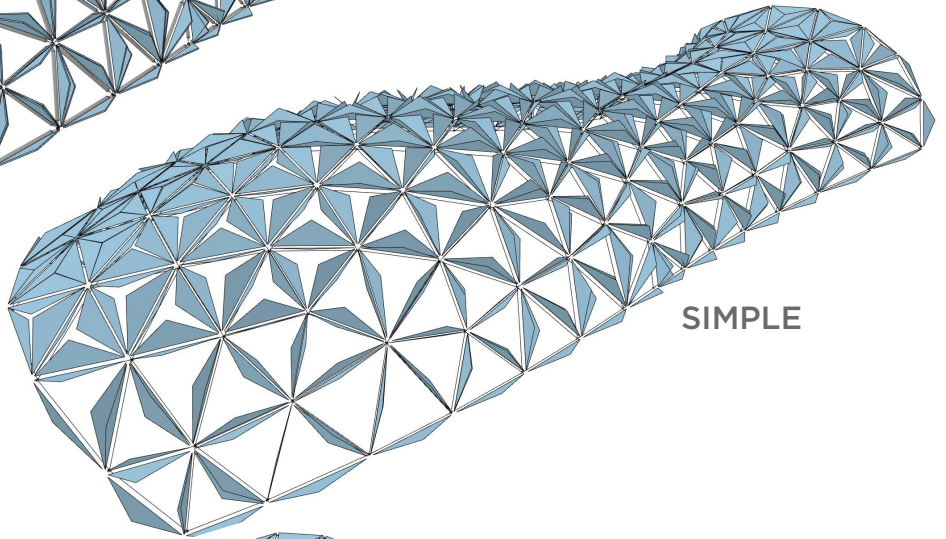
## Livello di dettaglio 3d

Potrete scegliere fra differenti livelli di dettaglio; non sempre tutti i livelli sono disponibili.

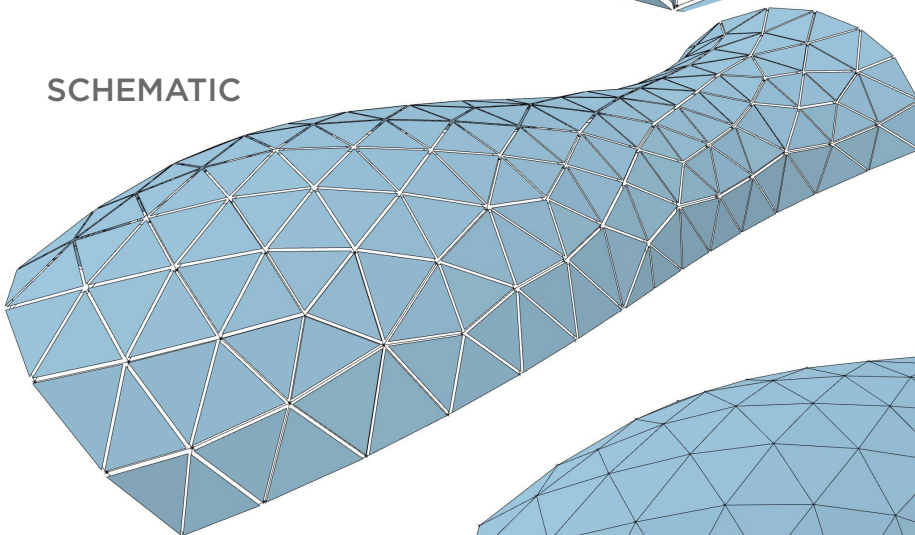
DETAILED



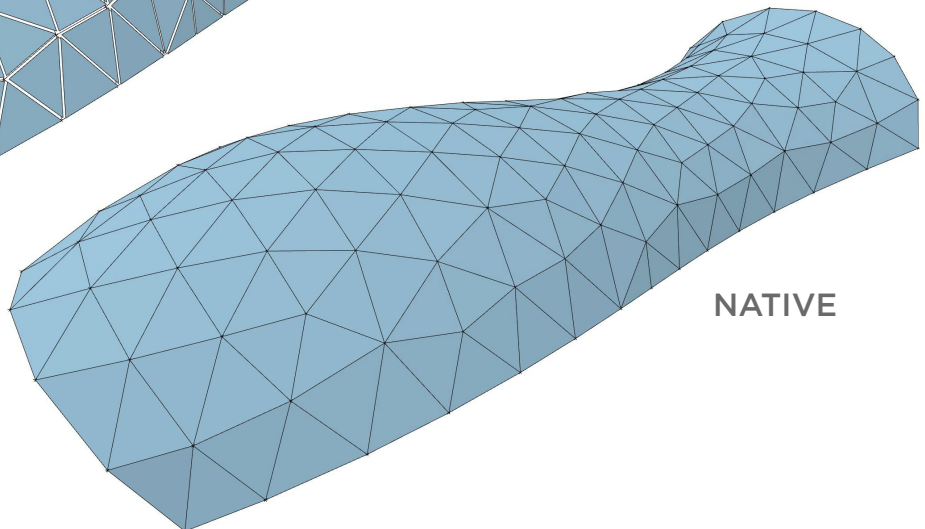
SIMPLE



SCHEMATIC



NATIVE





# Archicad Schedules



## Schedules for quadrangular panels

You can manage schedules as traditionally you make in Archicad. Equal dimension panels can be considered in the same column with more quantities.



## Abachi per pannelli quadrangolari

Potrete gestire gli abachi come tradizionalmente fate in Archicad. Pannelli di uguali dimensioni potranno essere accorpati nella stessa colonna calcolandone maggiore quantità.

<b>Quantity</b>	12	8	7	6	5	4	4
<b>Length (A)</b>	2,10	2,05	2,10	2,15	2,10	2,00	2,05
<b>Width (B)</b>	1,70	1,75	1,75	1,55	1,60	1,80	1,80
<b>2D Symbol</b>							
<b>3D Axonometry</b>							

<b>Quantity</b>	4	4	3	3	3	3	3
<b>Length (A)</b>	2,15	2,20	2,00	2,05	2,10	2,10	2,15
<b>Width (B)</b>	1,60	1,60	1,85	1,70	1,50	1,65	1,45
<b>2D Symbol</b>							
<b>3D Axonometry</b>							

<b>Quantity</b>	3	3	3	3	2	2	2
<b>Length (A)</b>	2,15	2,15	2,15	2,15	2,05	2,05	2,05
<b>Width (B)</b>	1,65	1,70	2,75	2,80	1,45	1,60	1,65
<b>2D Symbol</b>							
<b>3D Axonometry</b>							

<b>Quantity</b>	2	2	2	2	2	2	2
<b>Length (A)</b>	2,10	2,10	2,15	2,15	2,15	2,15	2,20
<b>Width (B)</b>	1,55	2,30	1,10	1,20	1,35	1,50	1,30
<b>2D Symbol</b>							
<b>3D Axonometry</b>							

# Archicad Schedules



## Schedules for triangular panels

You can manage schedules as traditionally you make in Archicad. Equal dimension panels can be considered in the same column with more quantities.



## Abachi per pannelli triangolari

Potrete gestire gli abachi come tradizionalmente fate in Archicad. Pannelli di uguali dimensioni potranno essere accorpati nella stessa colonna calcolandone maggiore quantità.

Quantity	1	1	1	1	1	1	1
Length (A)	1,13	1,36	1,48	1,52	1,59	1,59	1,61
Width (B)	1,38	1,87	1,99	1,62	1,54	1,93	1,36
2D Symbol							
3D Axonometry							

Quantity	1	1	1	1	1	1	1
Length (A)	1,65	1,66	1,69	1,73	1,73	1,75	1,75
Width (B)	1,72	1,82	1,54	1,70	1,77	1,63	1,86
2D Symbol							
3D Axonometry							

Quantity	1	1	1	1	1	1	1
Length (A)	1,76	1,81	1,82	1,83	1,83	1,83	1,85
Width (B)	2,16	1,34	1,70	1,80	1,92	1,72	1,75
2D Symbol							
3D Axonometry							

Quantity	1	1	1	1	1	1	1
Length (A)	1,85	1,85	1,85	1,85	1,85	1,85	1,86
Width (B)	1,74	1,70	1,56	1,79	2,15	1,85	1,68
2D Symbol							
3D Axonometry							

# Archicad Schedules



## Schedules for pipes - 2 vertices

You can manage schedules as traditionally you make in Archicad. Equal dimension panels can be considered in the same column with more quantities.



## Abachi per tubolari - 2 vertici

Potrete gestire gli abachi come tradizionalmente fate in Archicad. Pannelli di uguali dimensioni potranno essere accorpati nella stessa colonna calcolandone maggiore quantità.

Quantity	1	1	1	1	1	1
Length (A)	1,13	1,36	1,39	1,39	1,40	1,47
2D Symbol						
3D Axonometry						

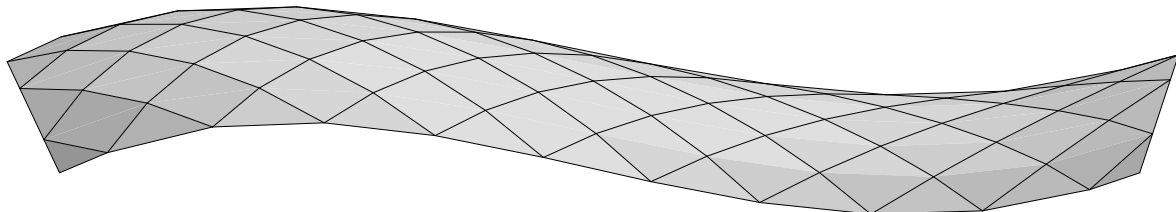
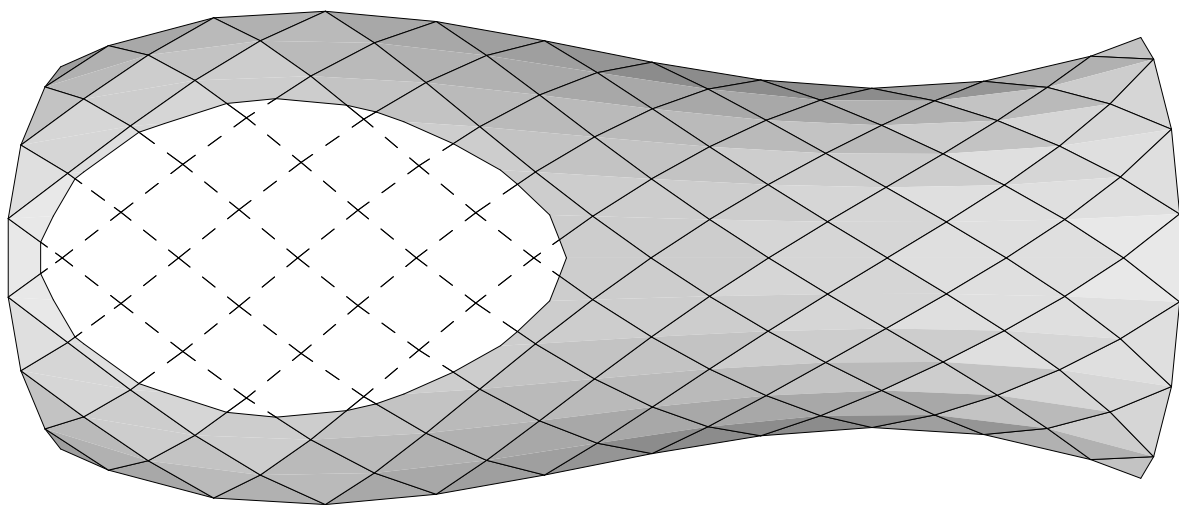
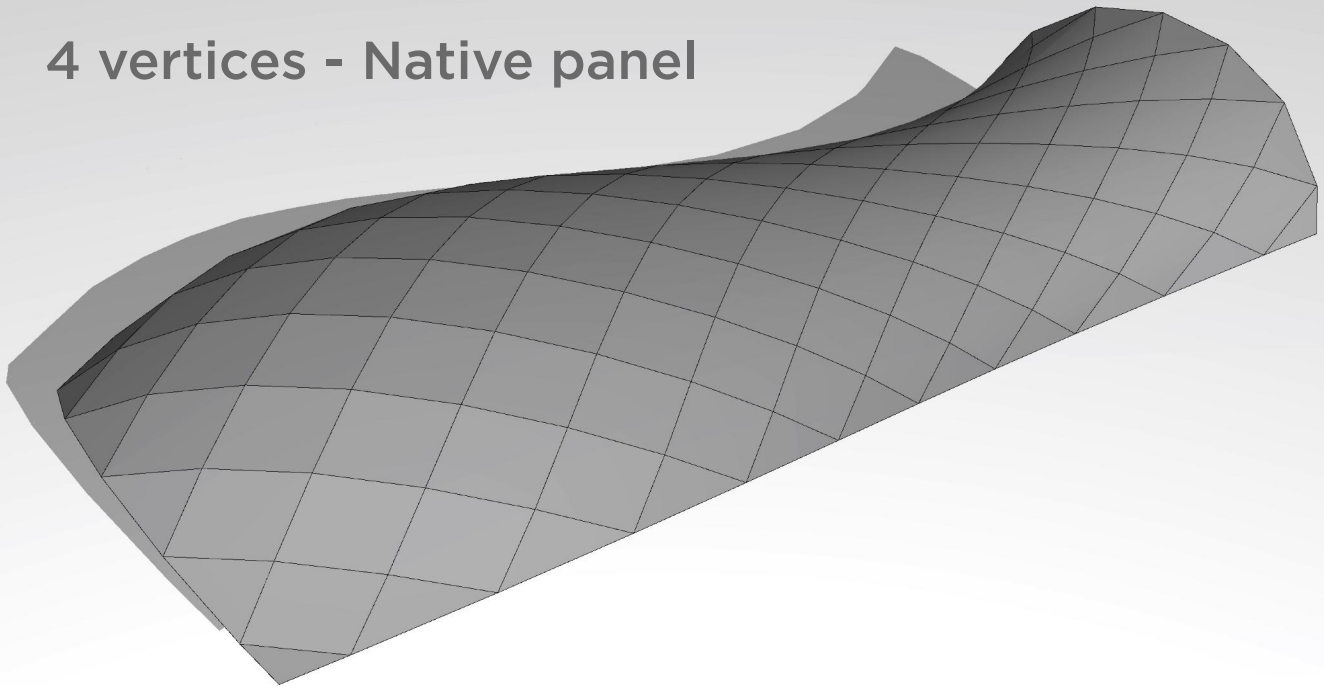
Quantity	1	1	1	1	1	1
Length (A)	1,48	1,52	1,59	1,59	1,61	1,63
2D Symbol						
3D Axonometry						

Quantity	1	1	1	1	1	1
Length (A)	1,64	1,64	1,64	1,65	1,65	1,65
2D Symbol						
3D Axonometry						

Quantity	1	1	1	1	1	1
Length (A)	1,65	1,67	1,68	1,69	1,72	1,73
2D Symbol						
3D Axonometry						

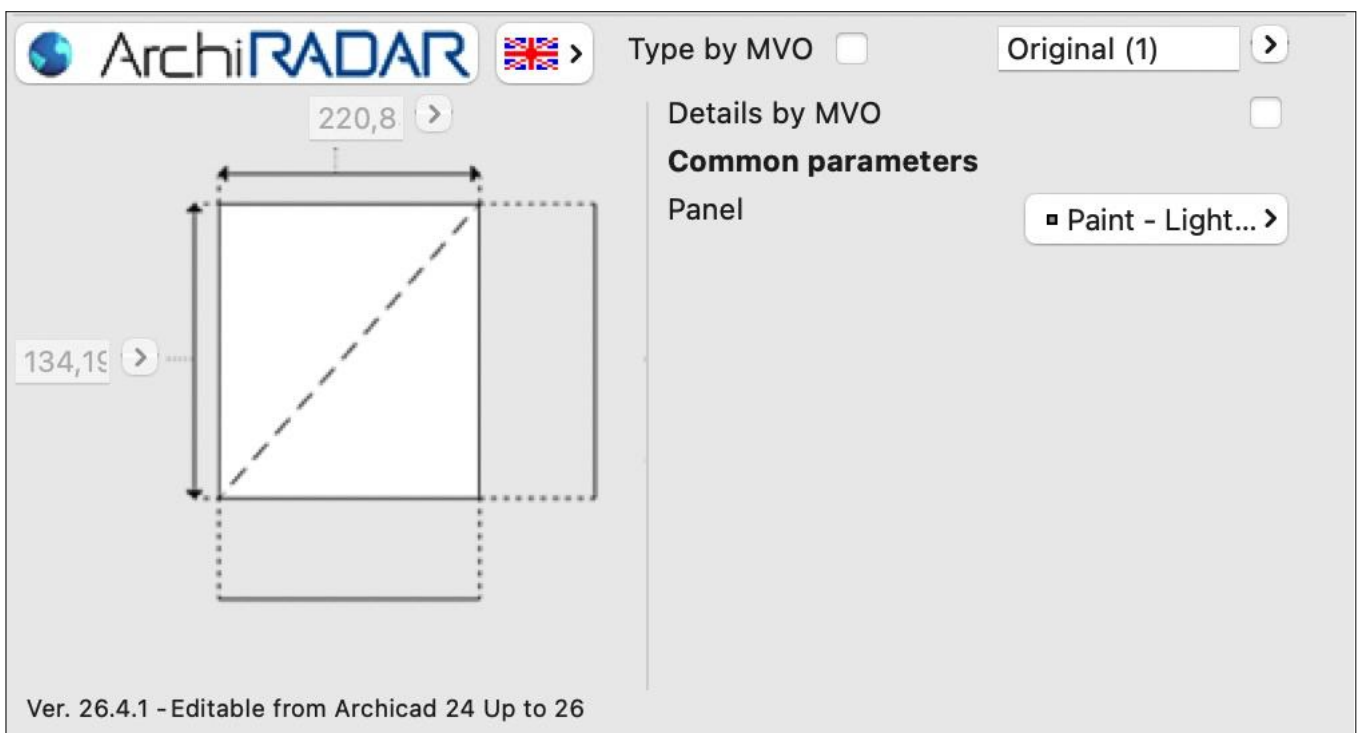
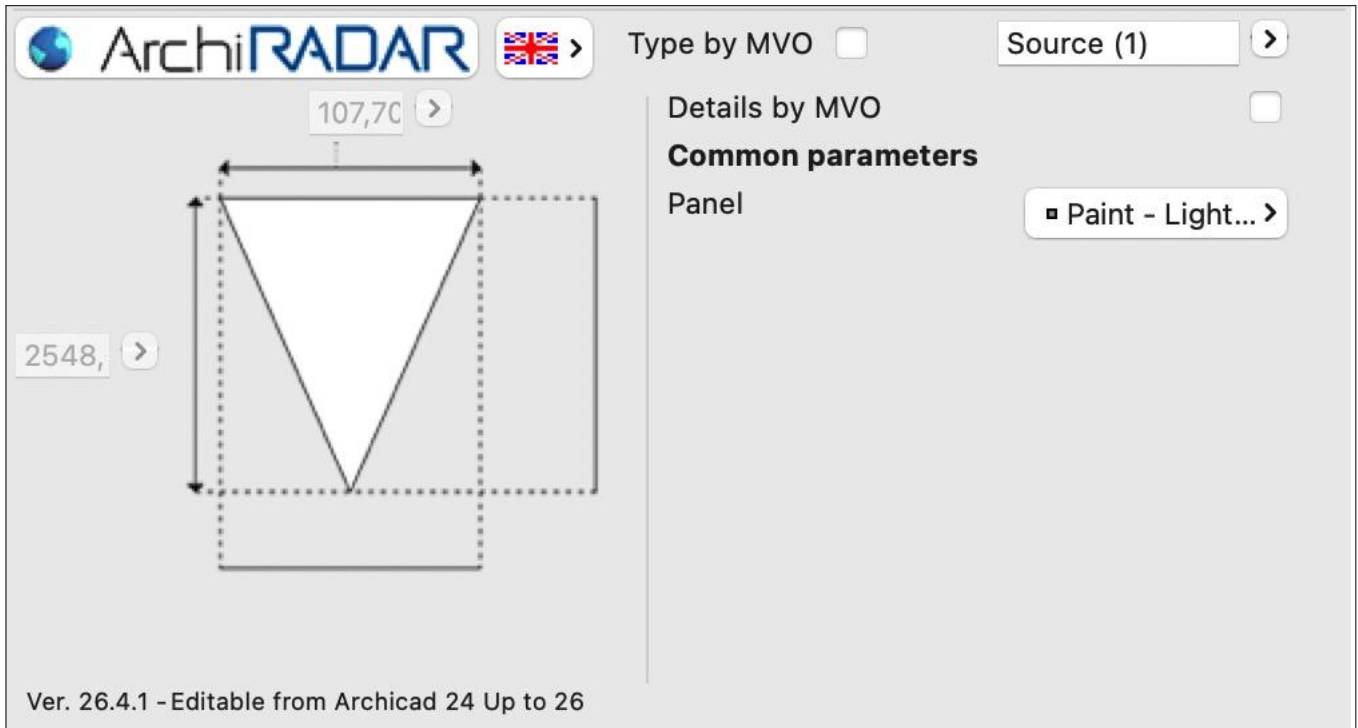
# Panel types

## 4 vertices - Native panel



# Panel types Interface

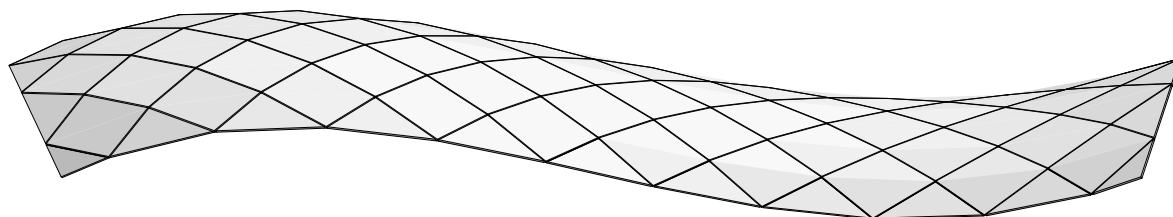
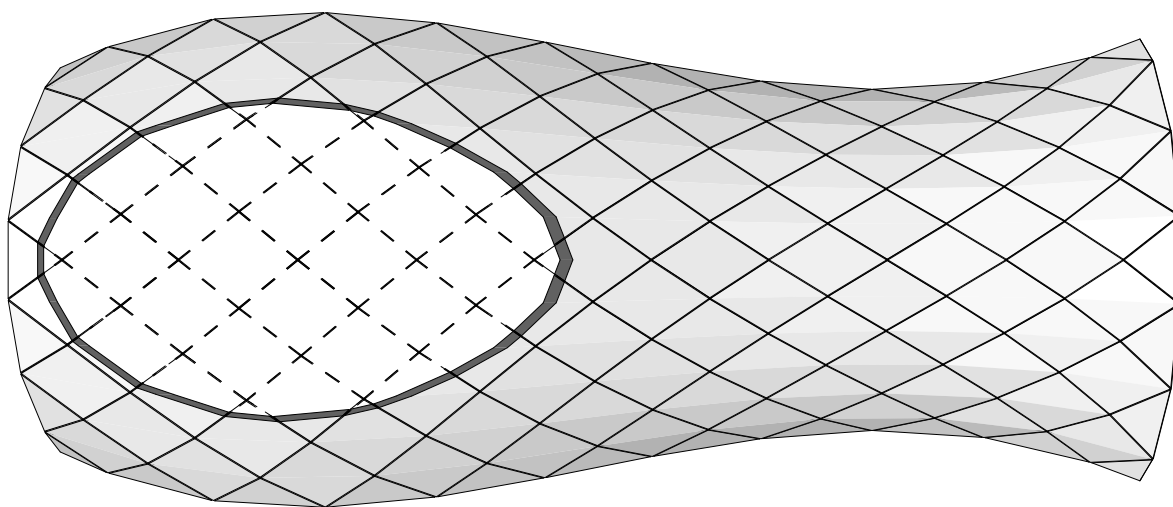
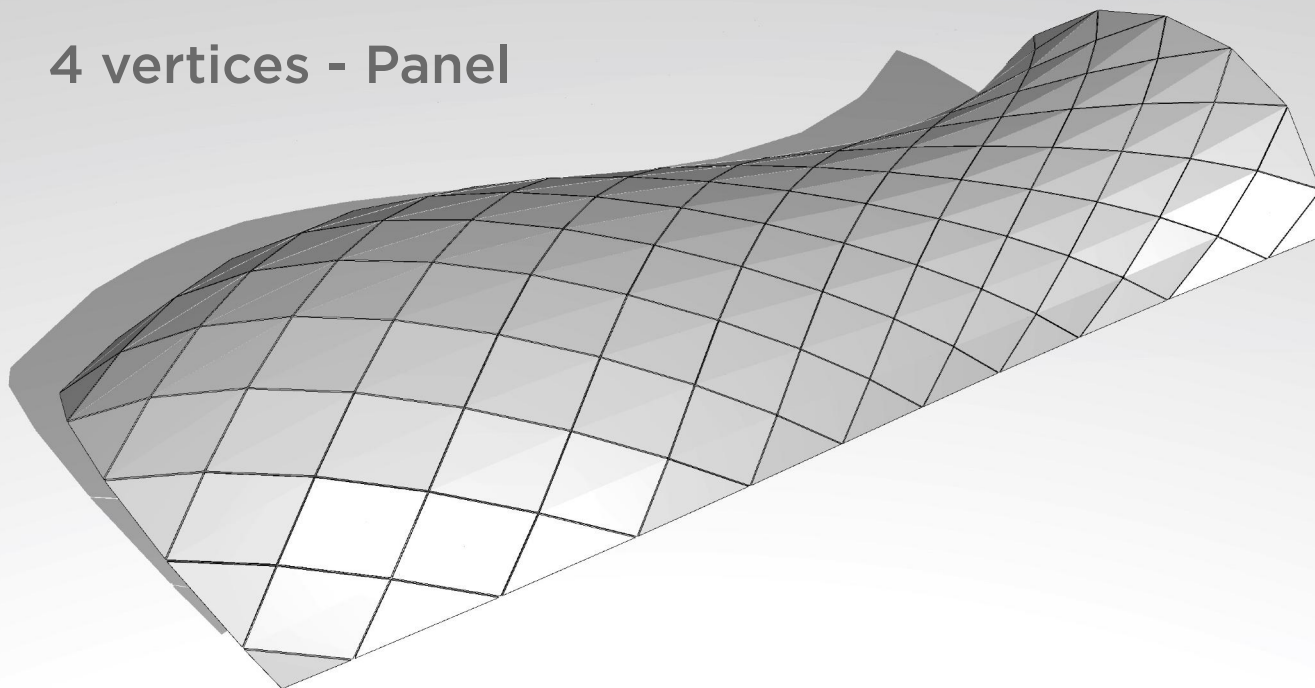
## 4 vertices - Frame panel





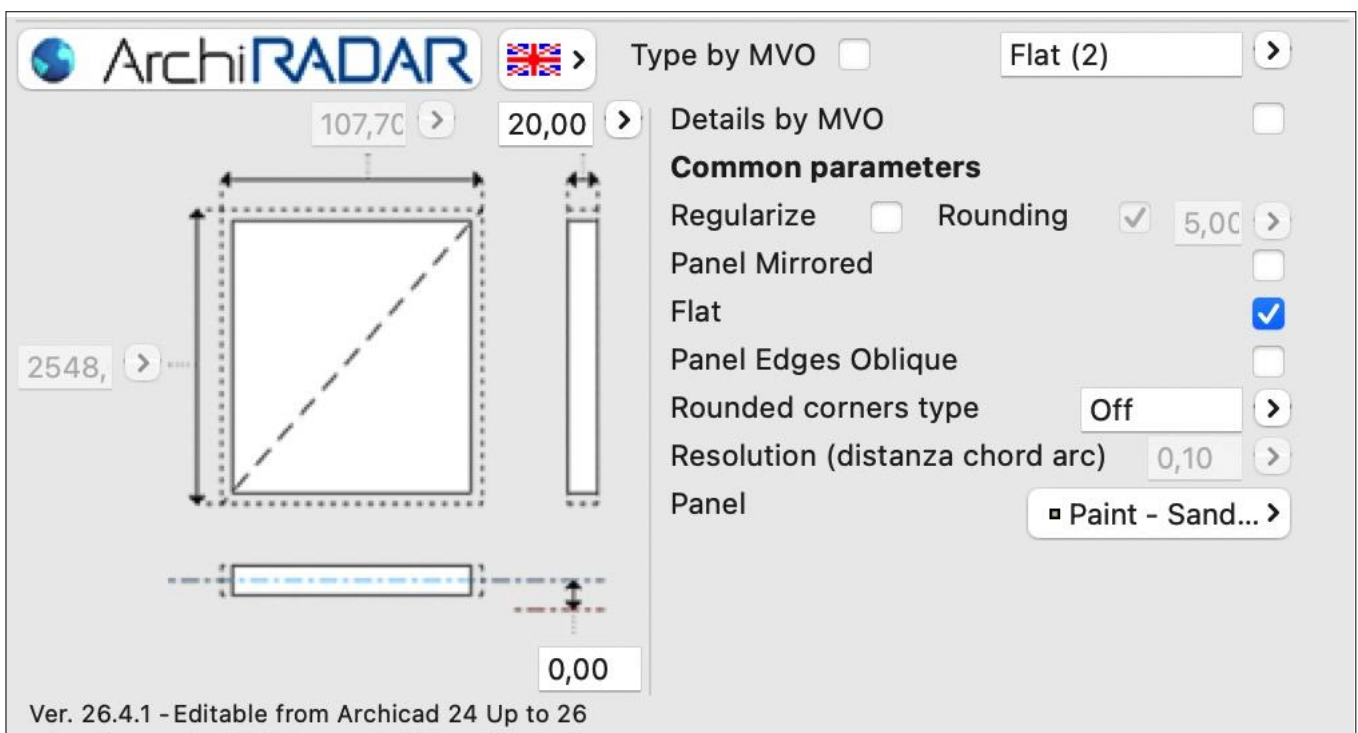
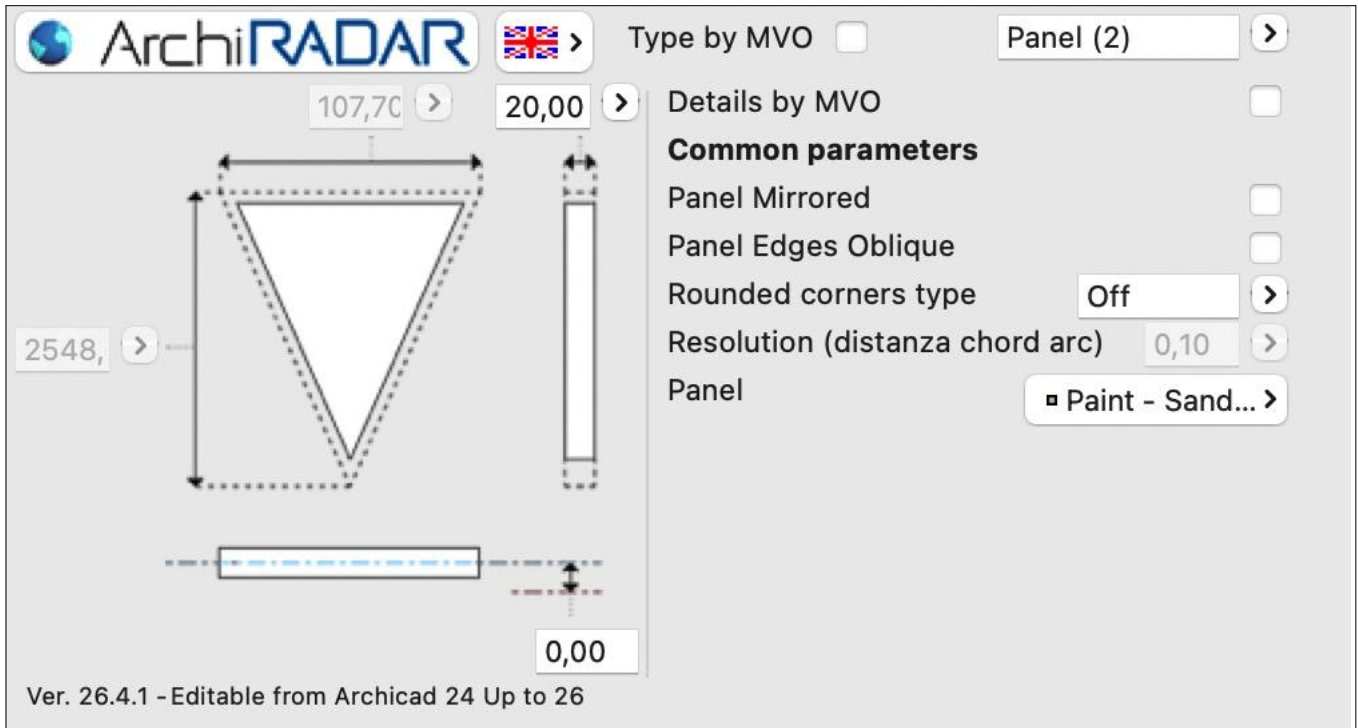
# Panel types

## 4 vertices - Panel



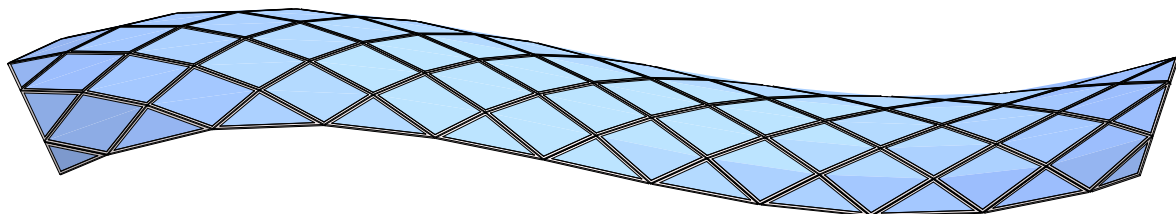
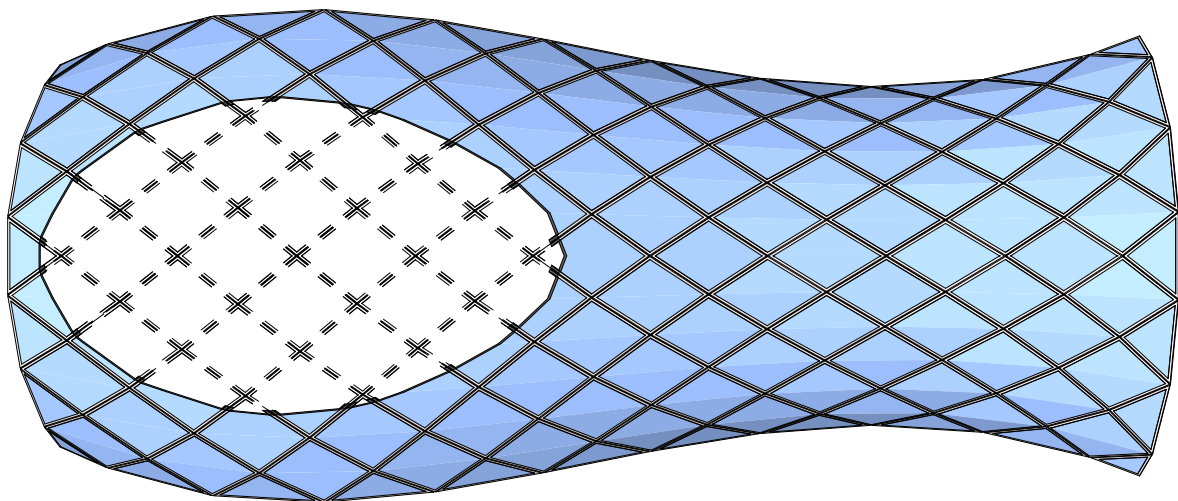
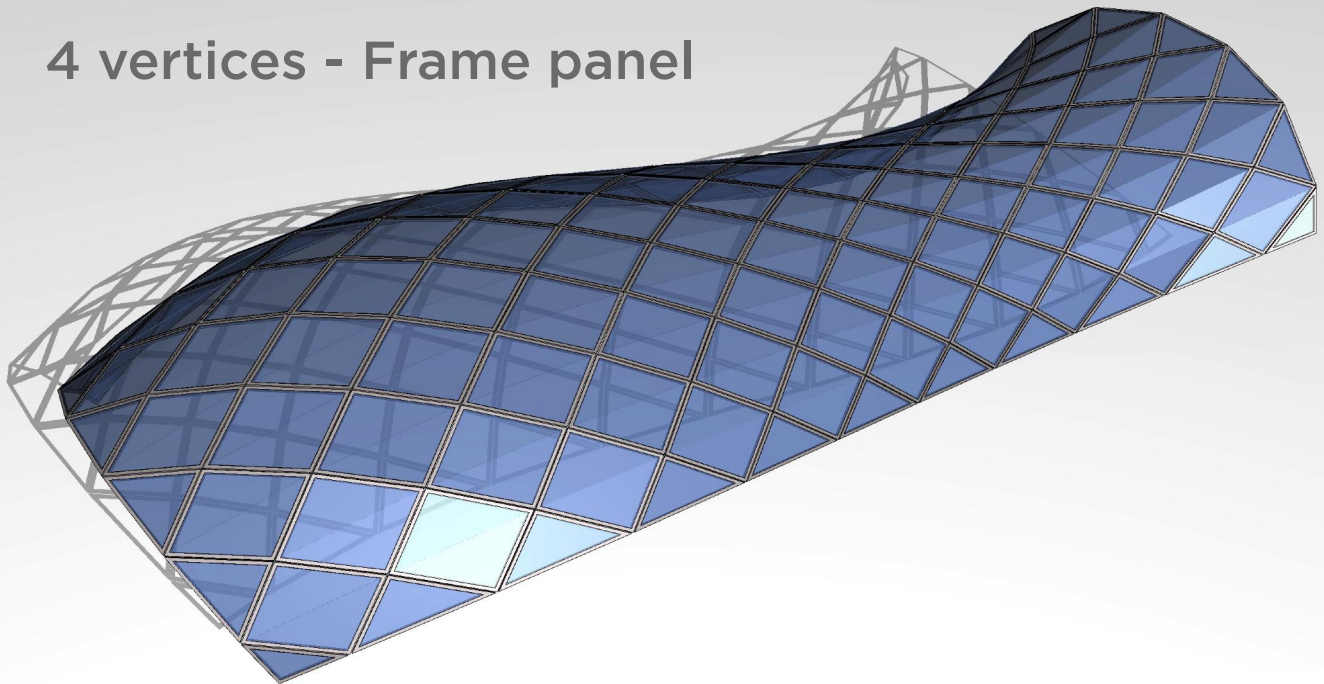
# Panel types Interface

## 4 vertices - Frame panel



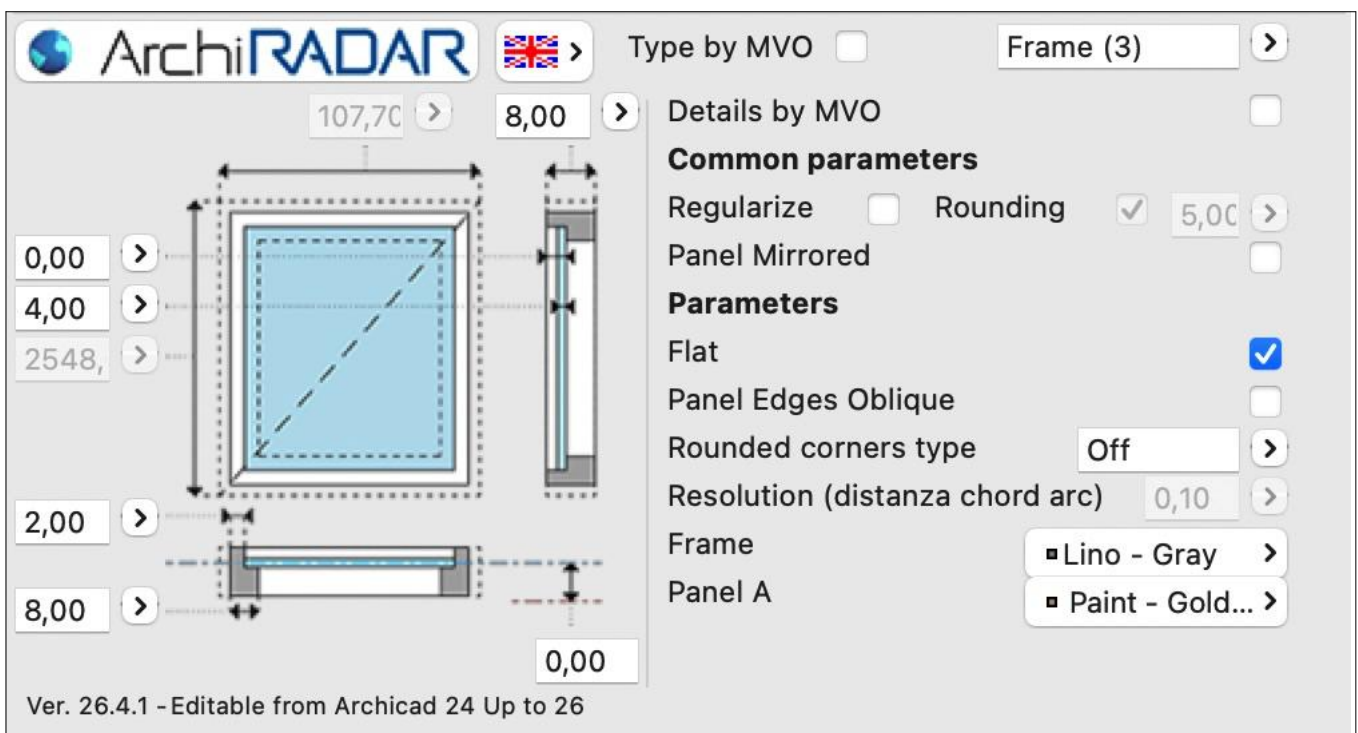
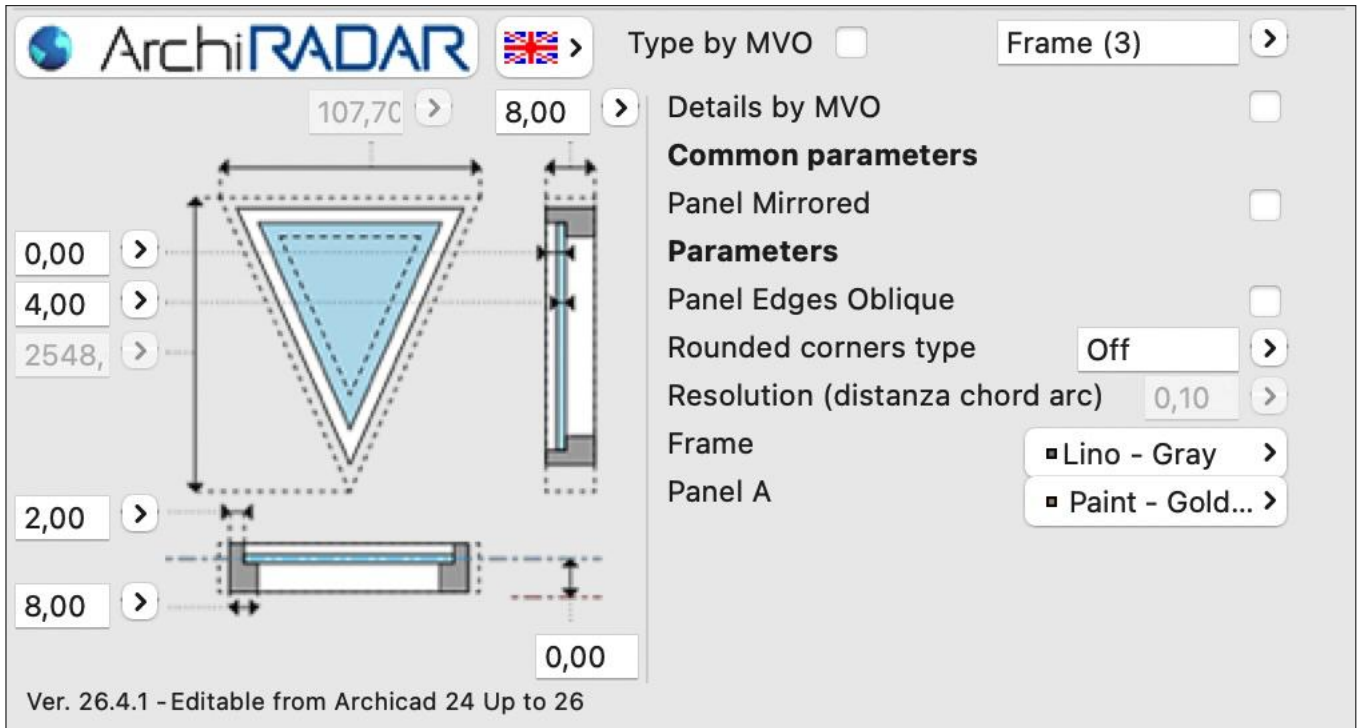
# Panel types

## 4 vertices - Frame panel



# Panel types Interface

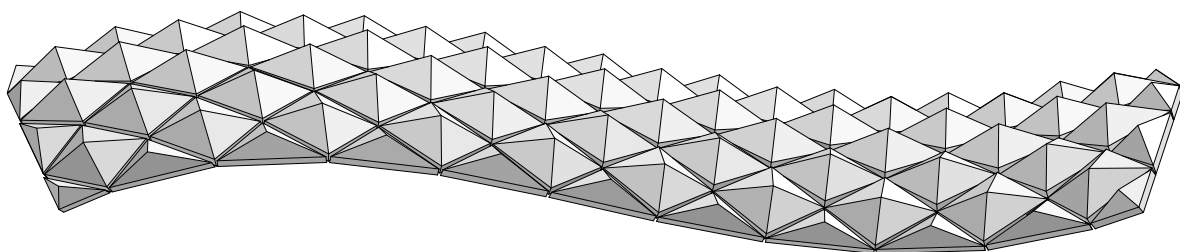
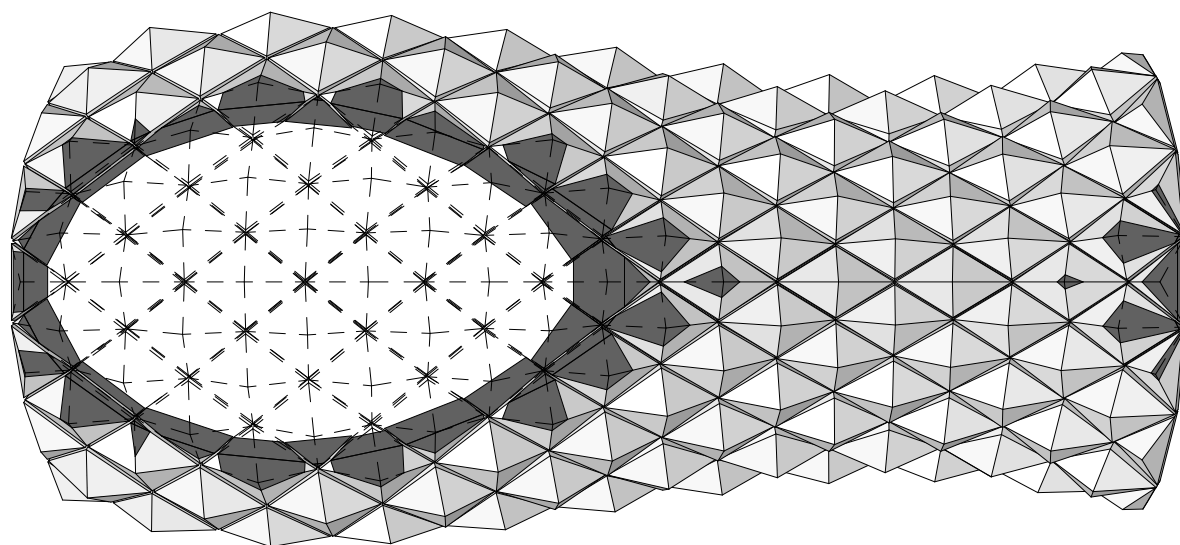
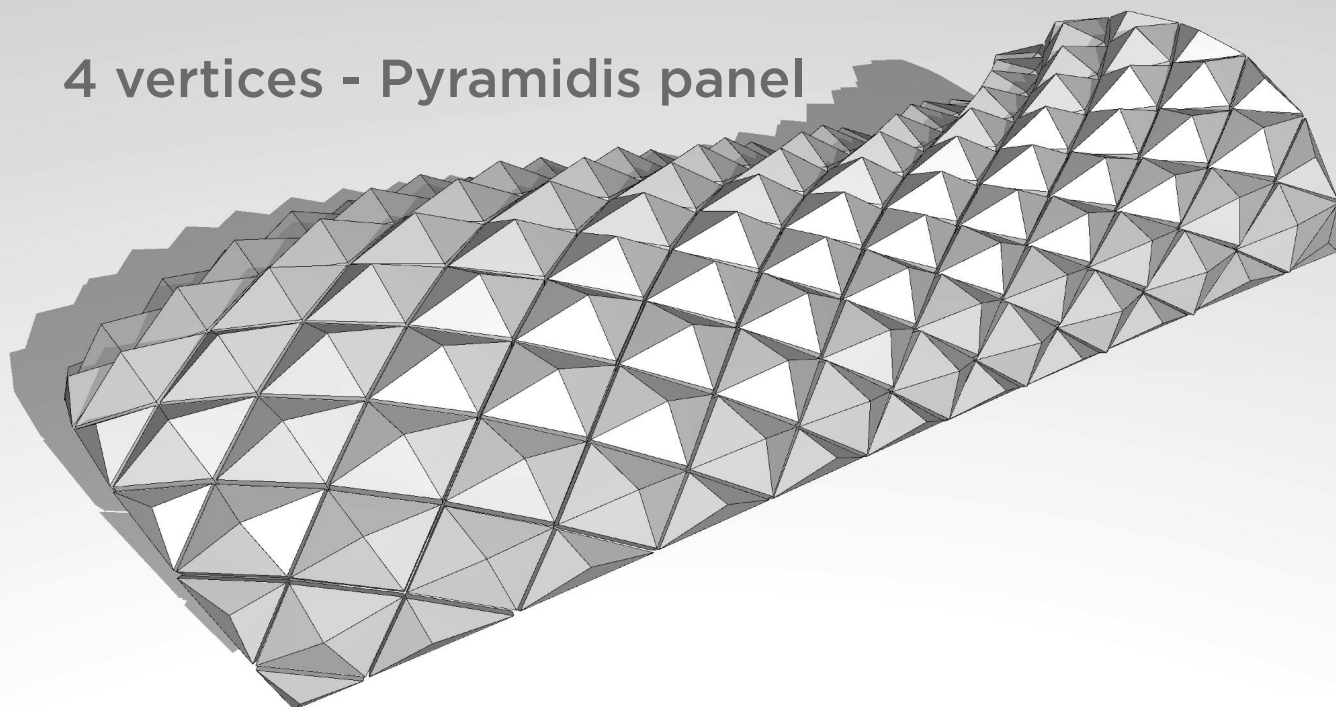
## 4 vertices - Frame panel





# Panel types

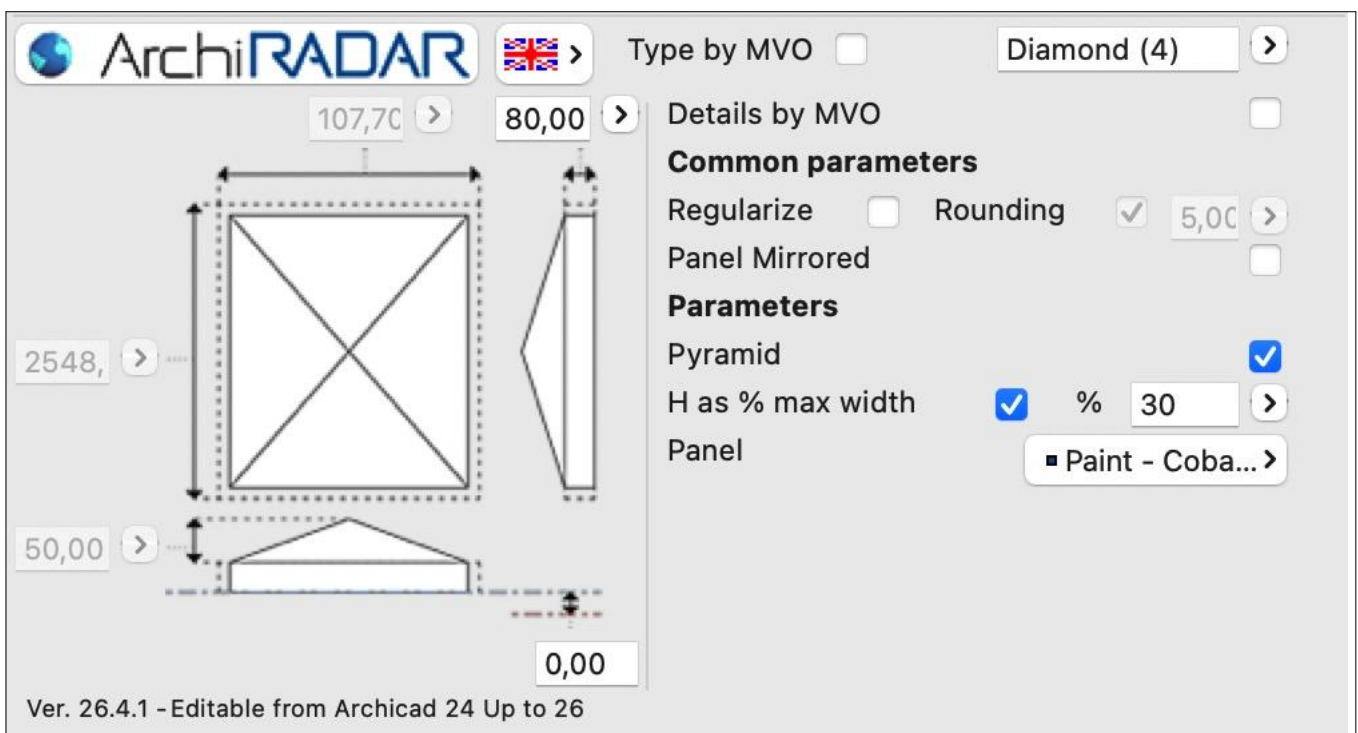
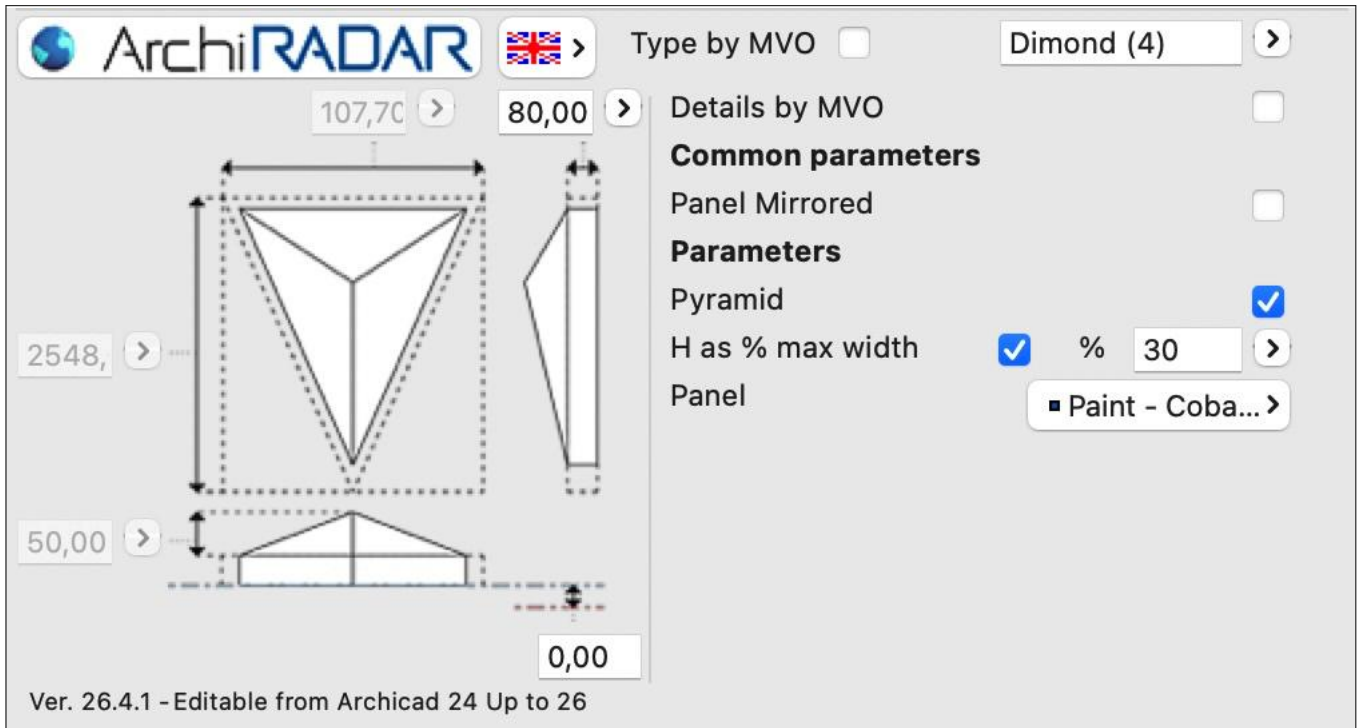
4 vertices - Pyramidis panel





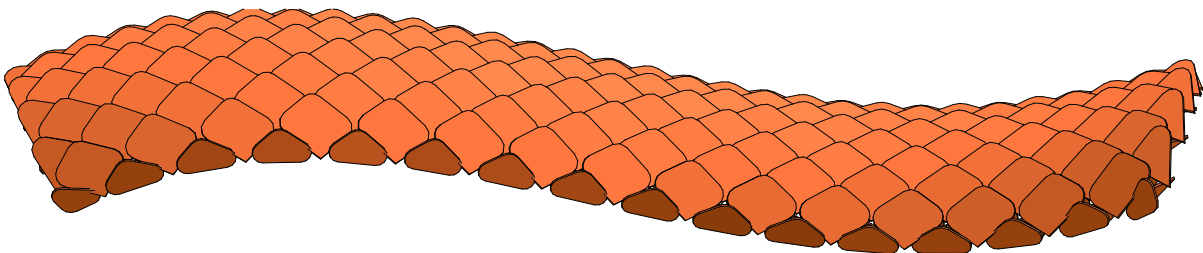
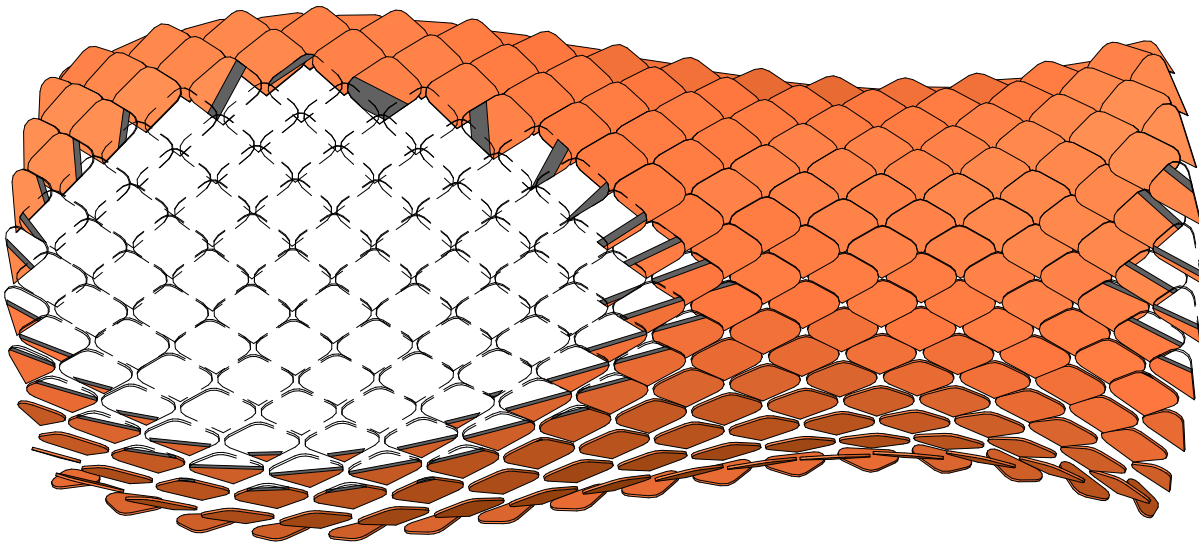
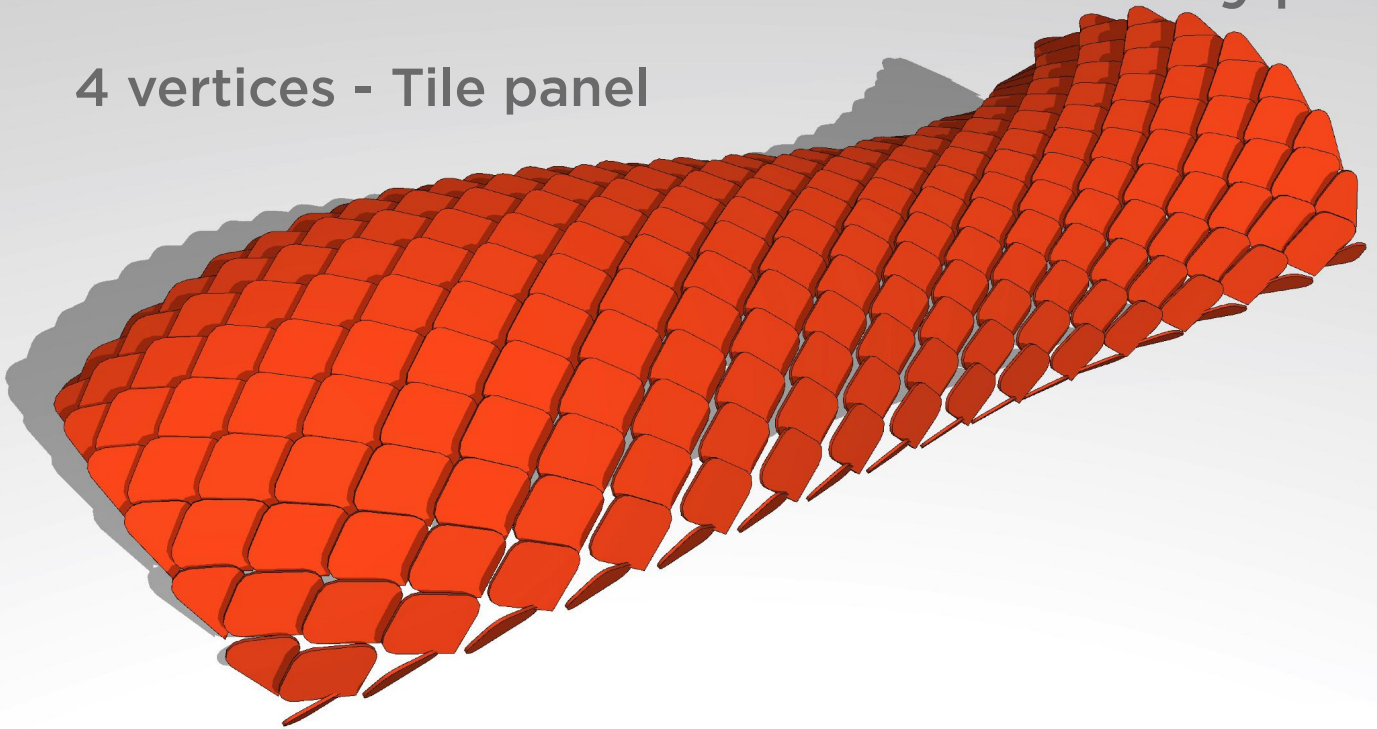
# Panel types Interface

## 4 vertices - Frame panel




# Panel types

4 vertices - Tile panel



# Panel types Interface

## 4 vertices - Frame panel

ArchiRADAR  > Type by MVO ☐ Tile (5) >

5,00 > 107,70 > 10,00 >

2548, >

10,00 >

0,00°

12,00°

0,00

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Details by MVO ☐

**Common parameters**

Panel Mirrored ☐

**Parameters**


Frame ☐ Paint - Gold... >

Follow slope ☐

Ref. Vertex Rotation 1 >

Rounded corners ☐

Resolution 5 >

ArchiRADAR  > Type by MVO ☐ Tile (5) >

5,00 > 220,8 > 10,00 >

134,19 >

10,00 >

0,00°

12,00°

0,00

Ver. 26.4.1 - Editable from Archicad 24 Up to 26

Details by MVO ☐

**Common parameters**

Regularize ☐ Rounding ☒ 5,00 >

Panel Mirrored ☐

**Parameters**

Frame ☐ Paint - Gold... >

Follow slope ☐

Ref. Vertex Rotation 1 >

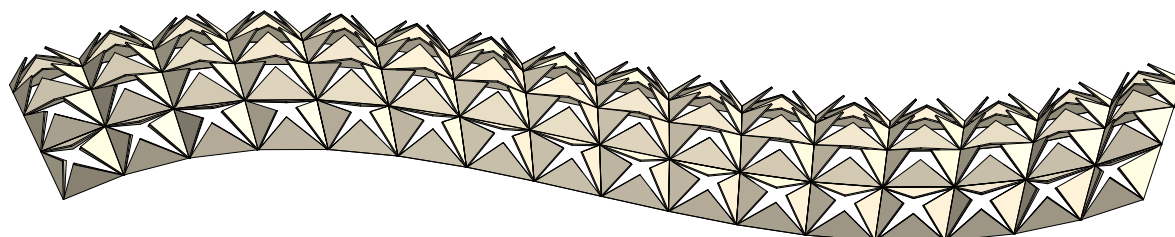
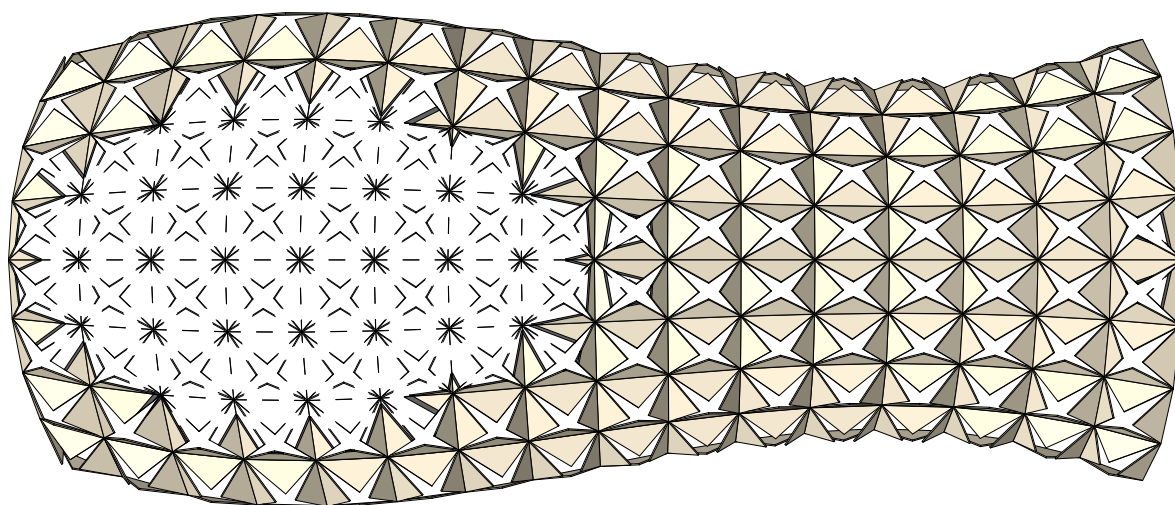
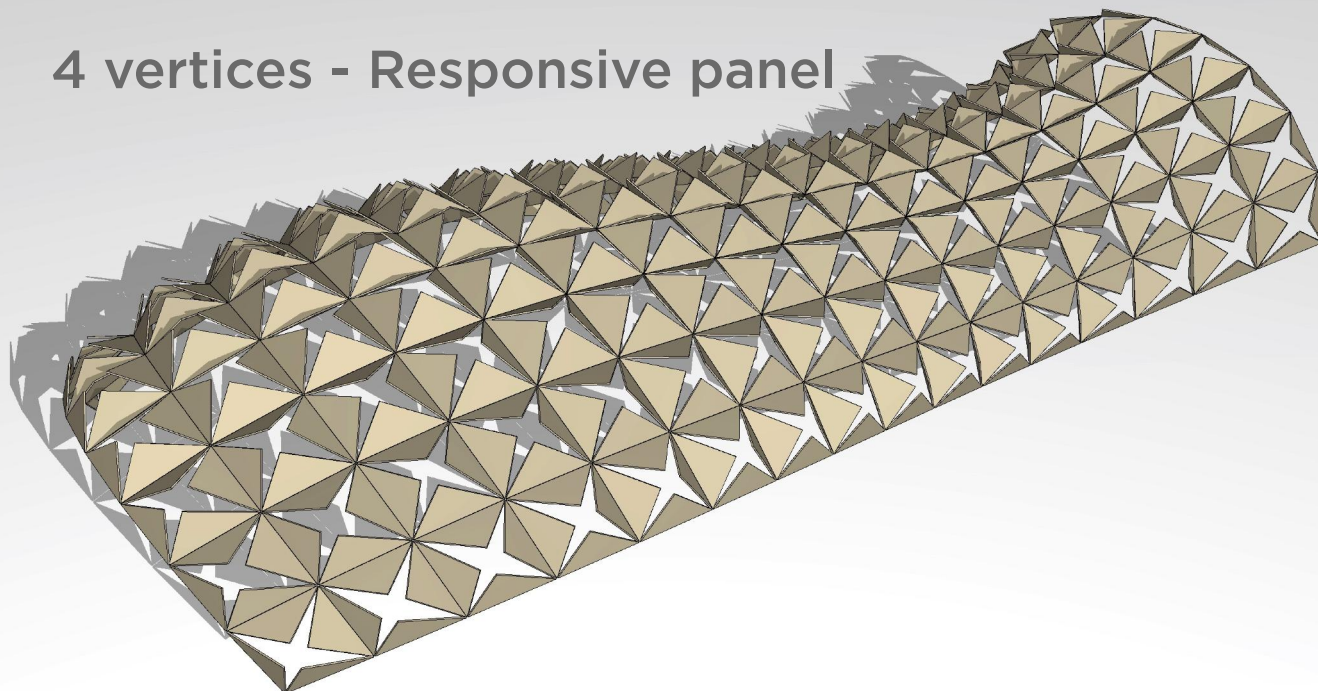
Rounded corners ☐

Resolution 5 >



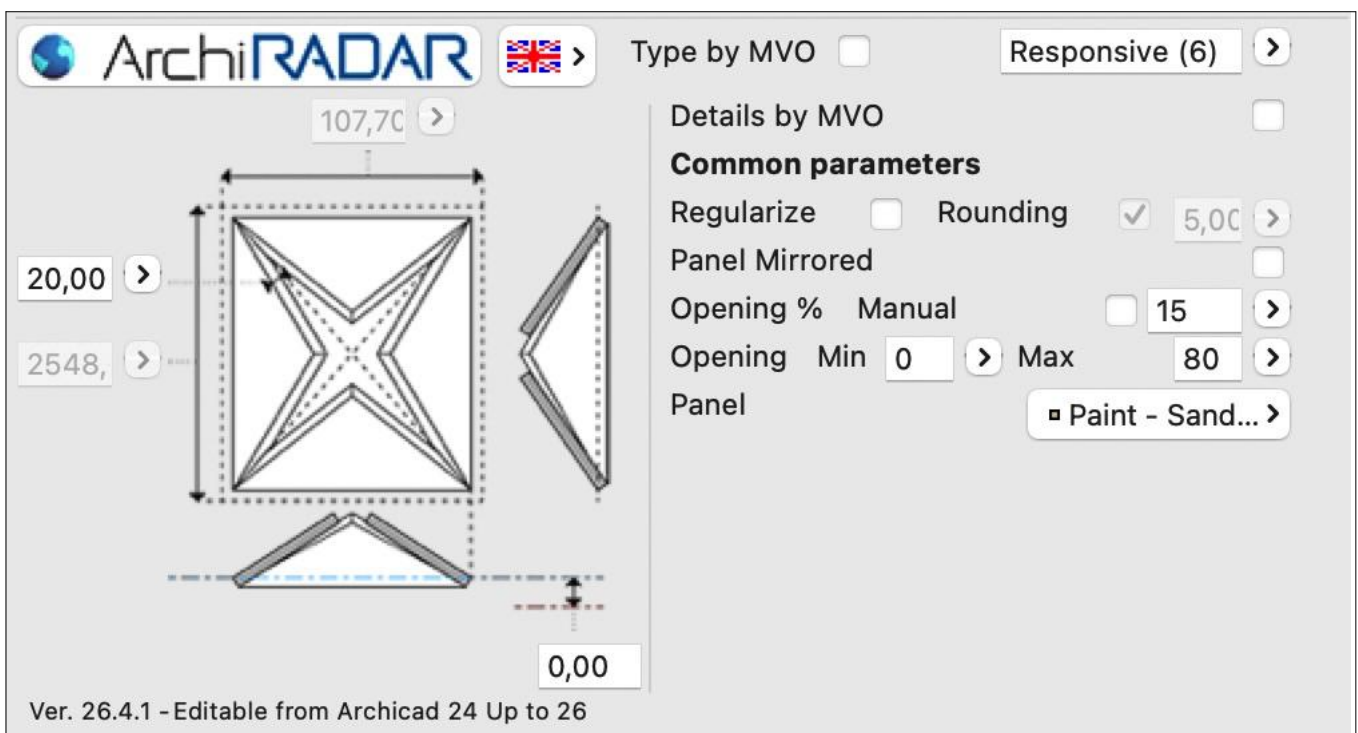
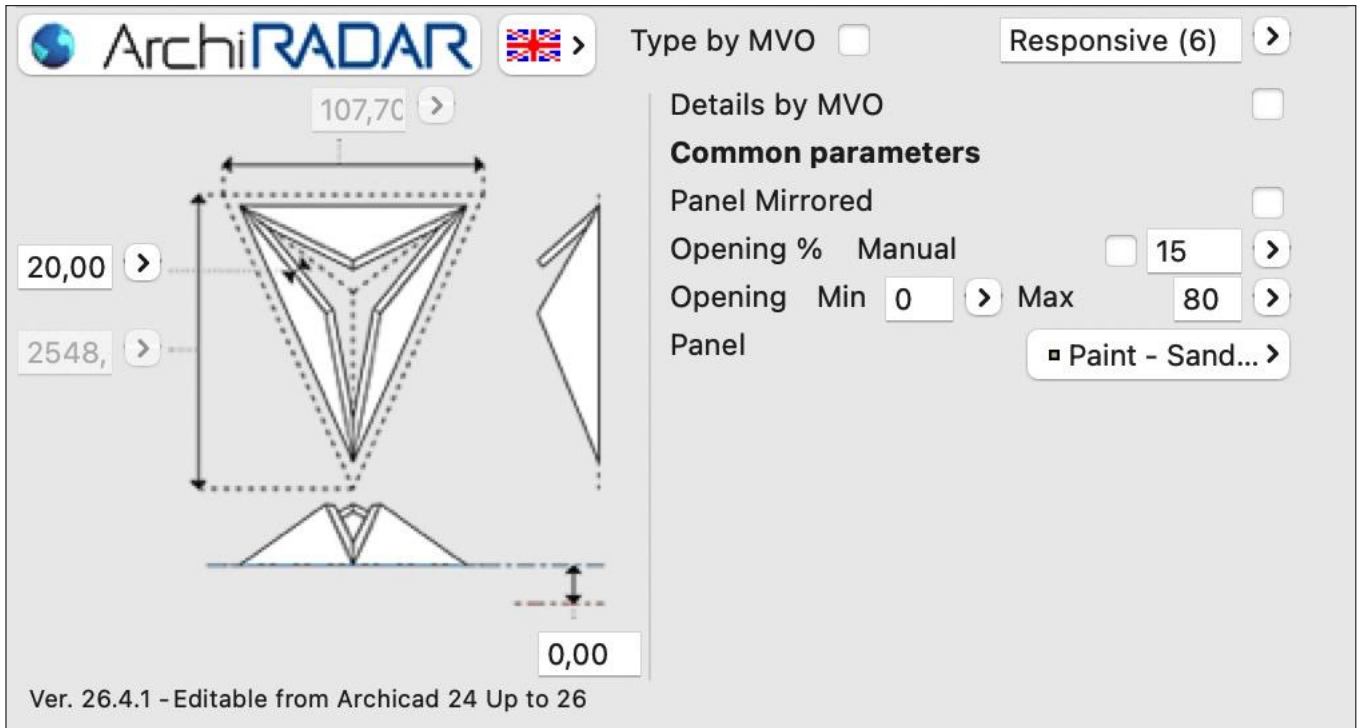
# Panel types

## 4 vertices - Responsive panel



# Panel types Interface

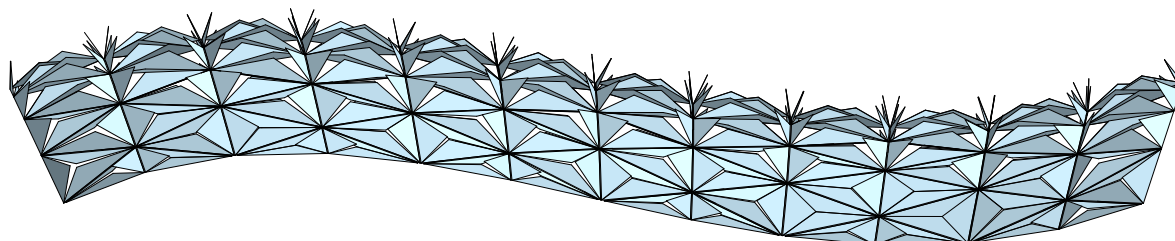
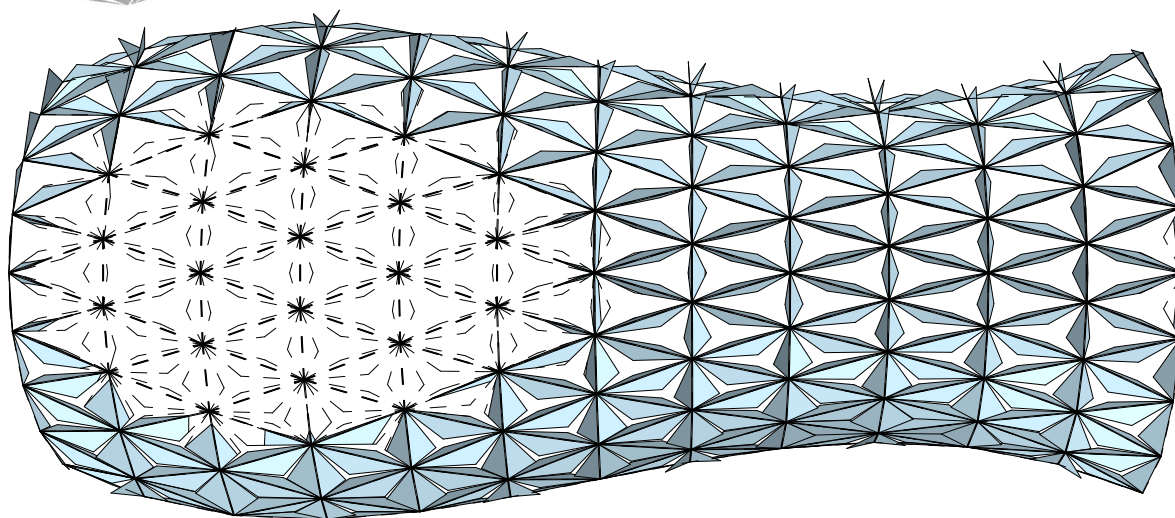
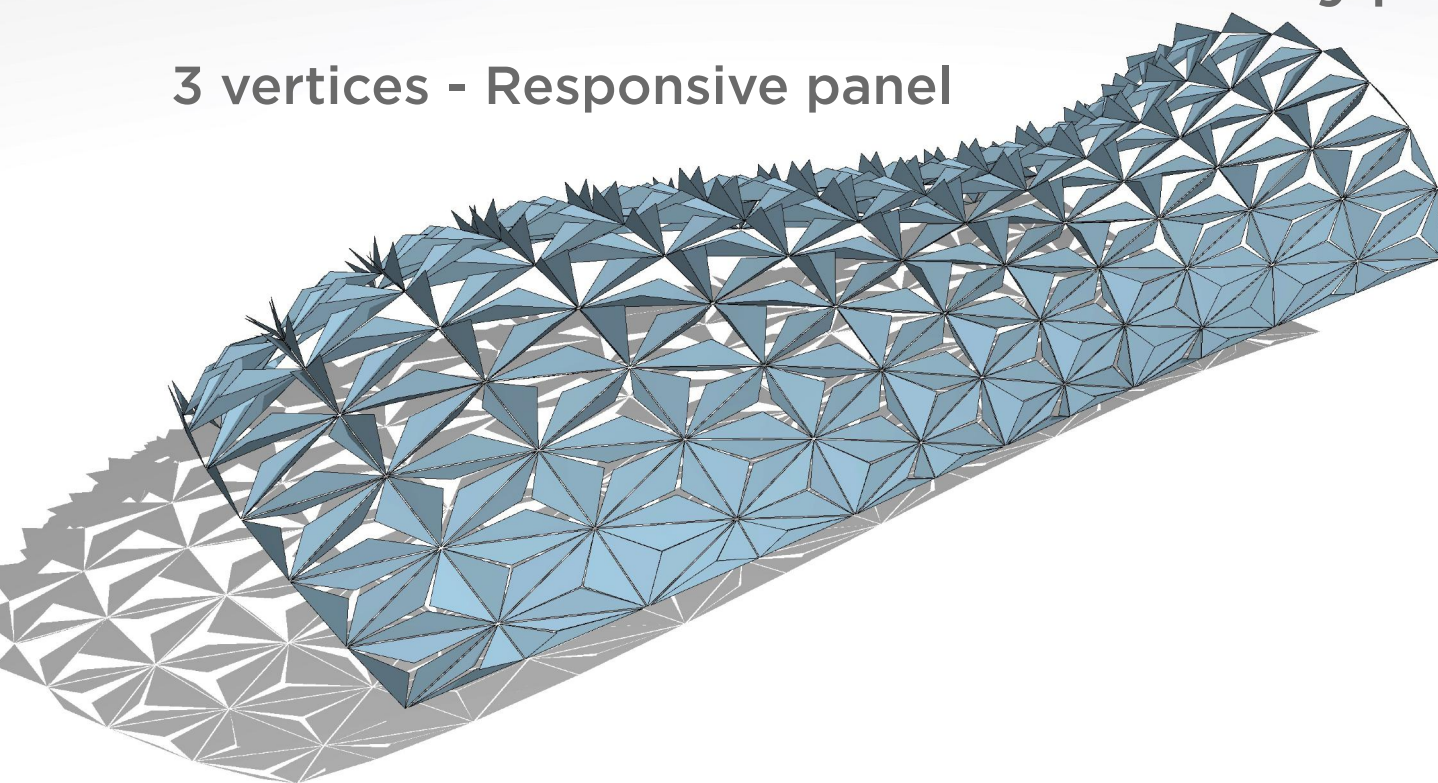
## 4 vertices - Frame panel





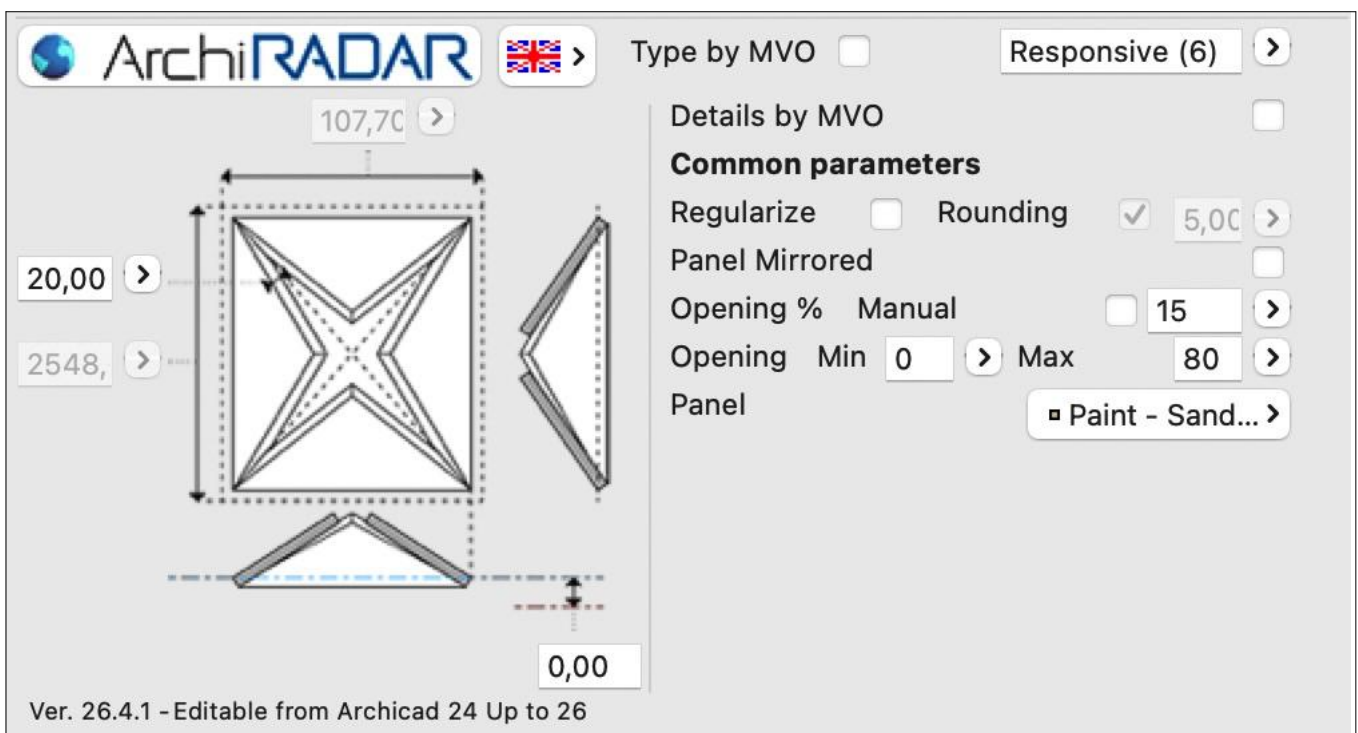
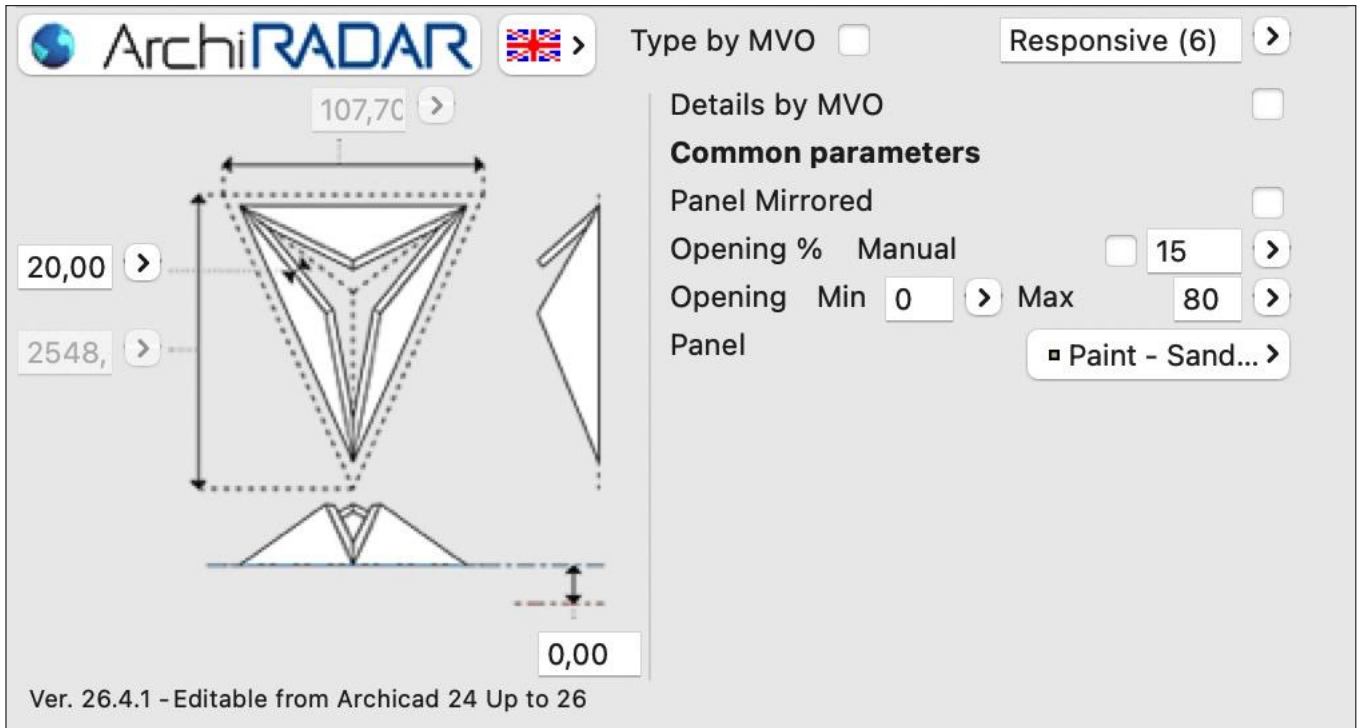
# Panel types

## 3 vertices - Responsive panel



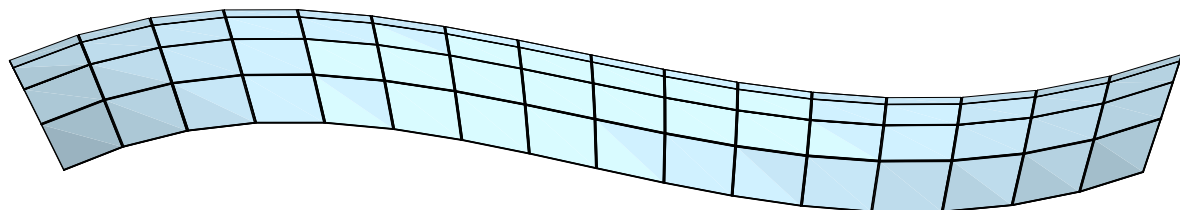
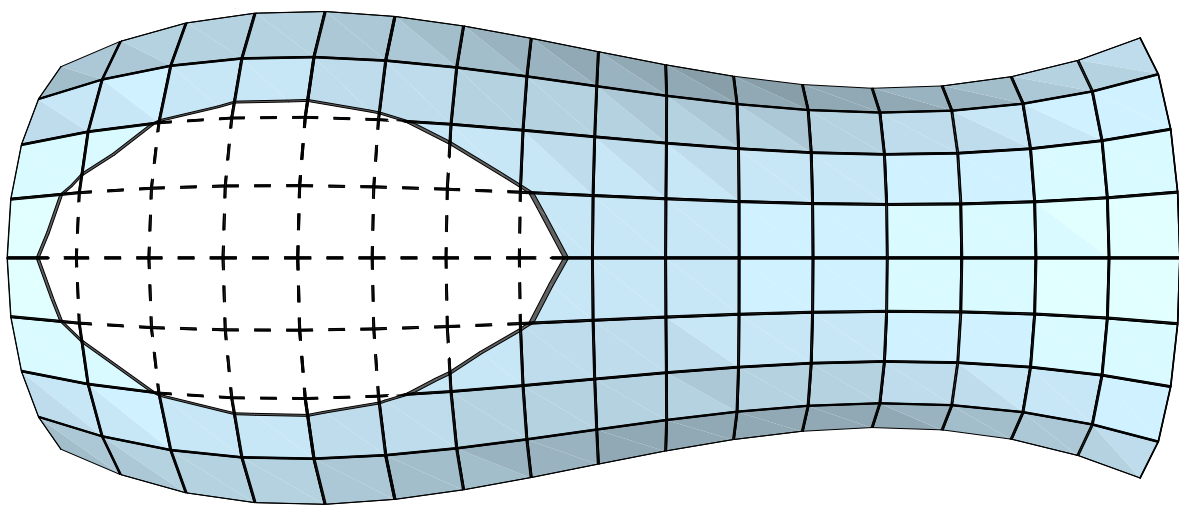
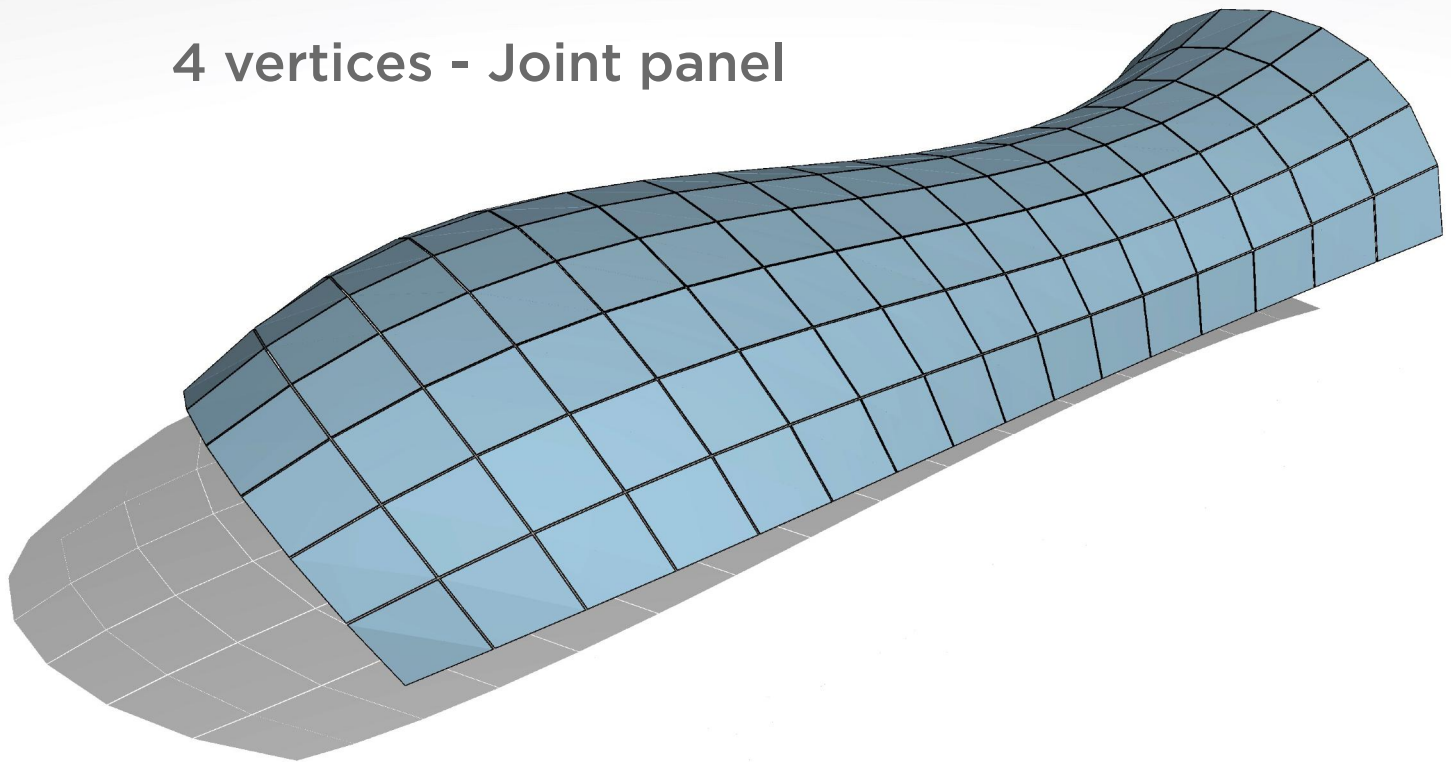
# Panel types Interface

## 4 vertices - Frame panel



# Panel types

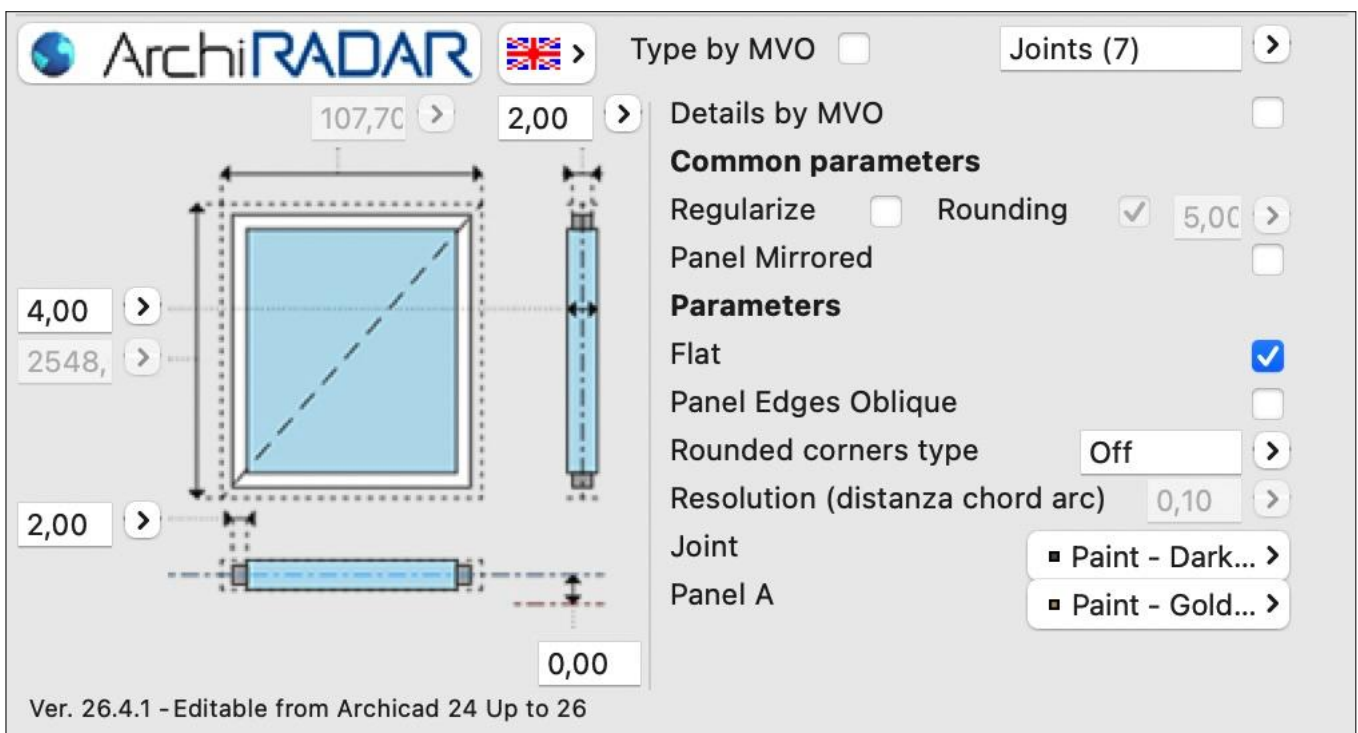
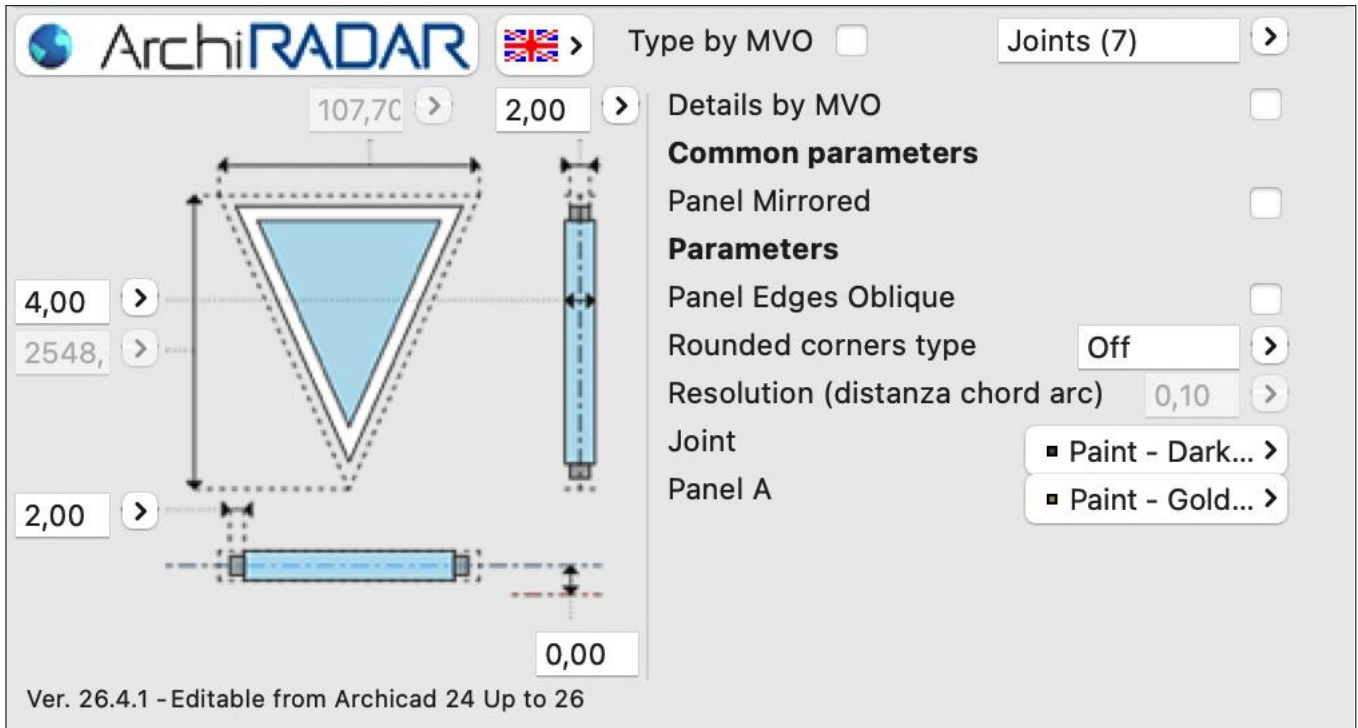
4 vertices - Joint panel





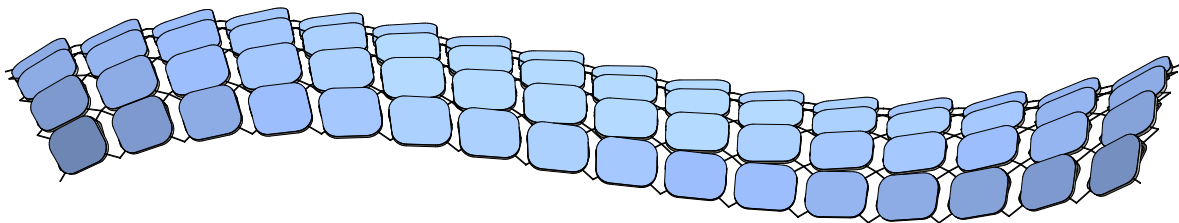
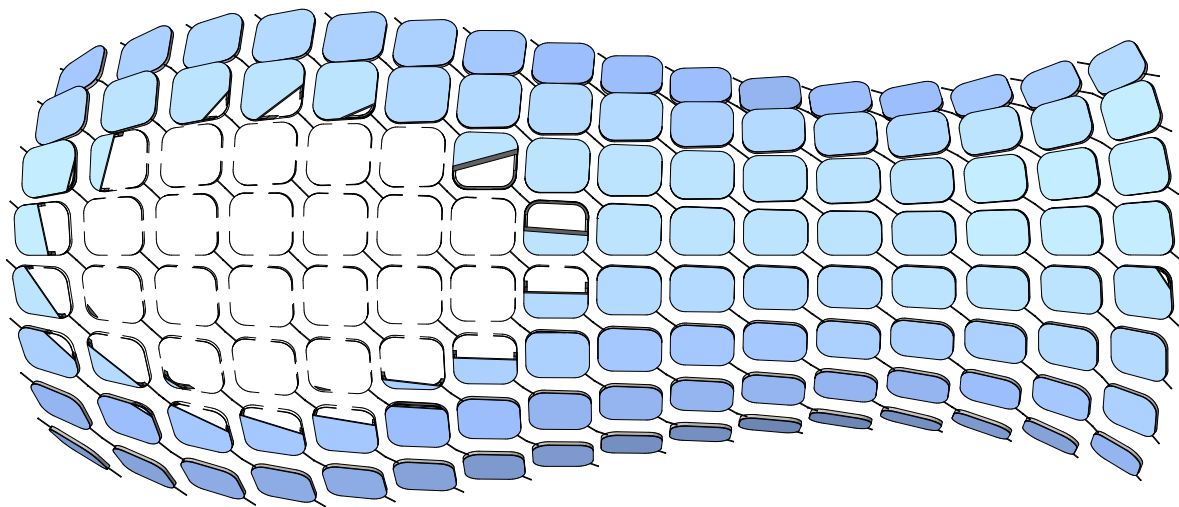
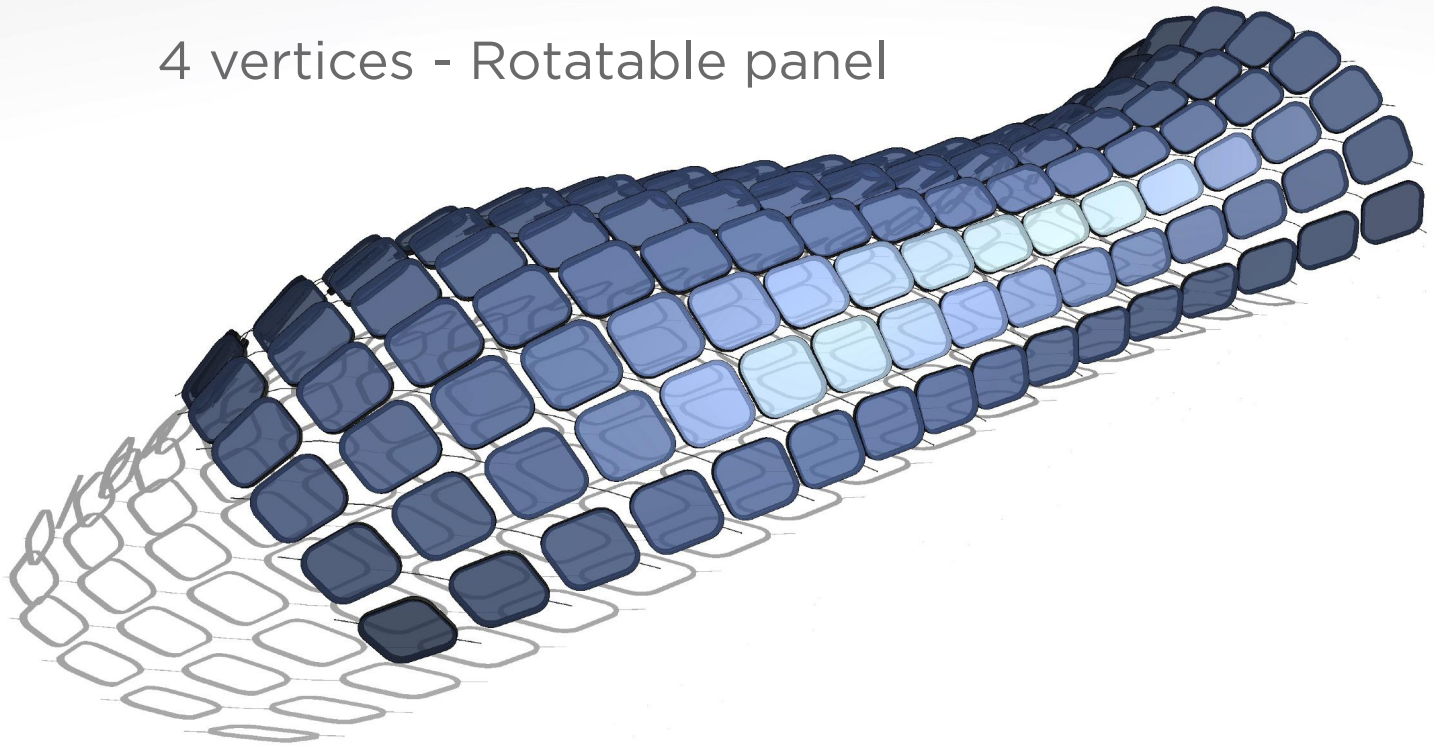
# Panel types Interface

## 4 vertices - Frame panel



# Panel types

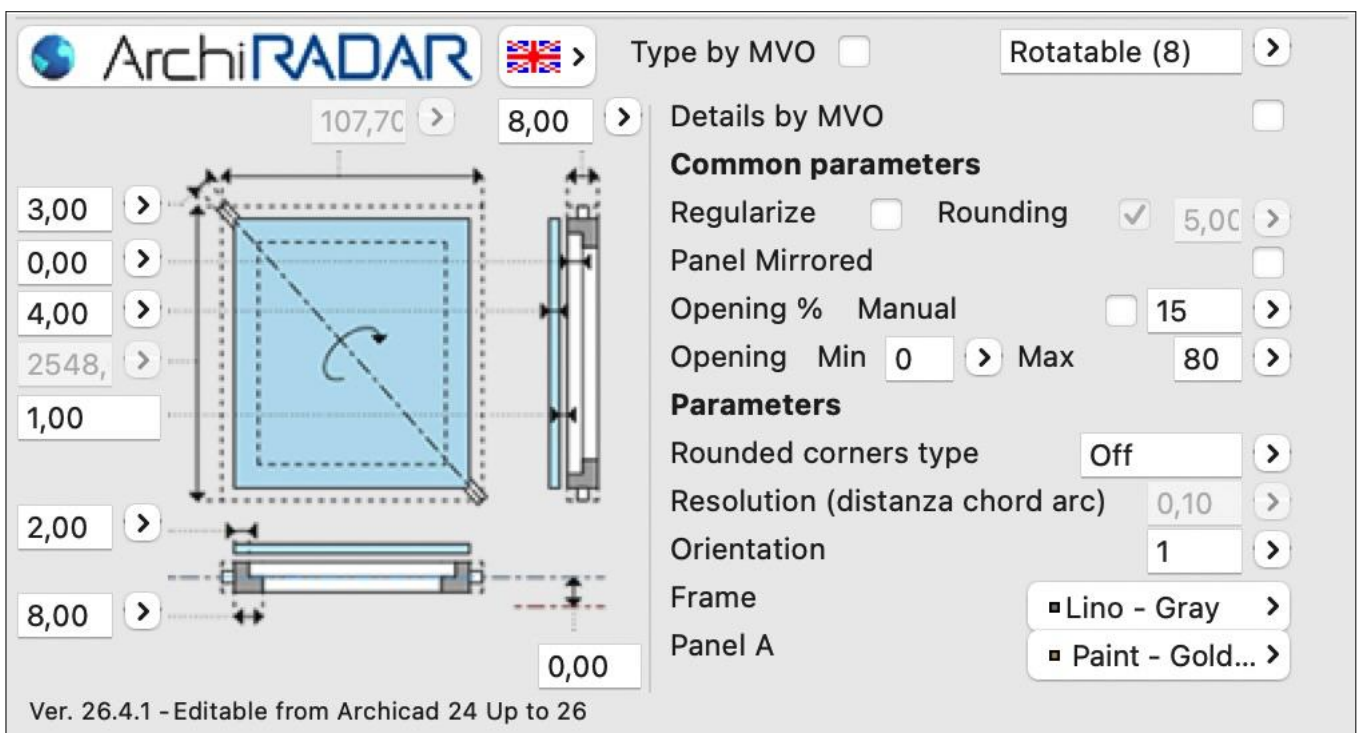
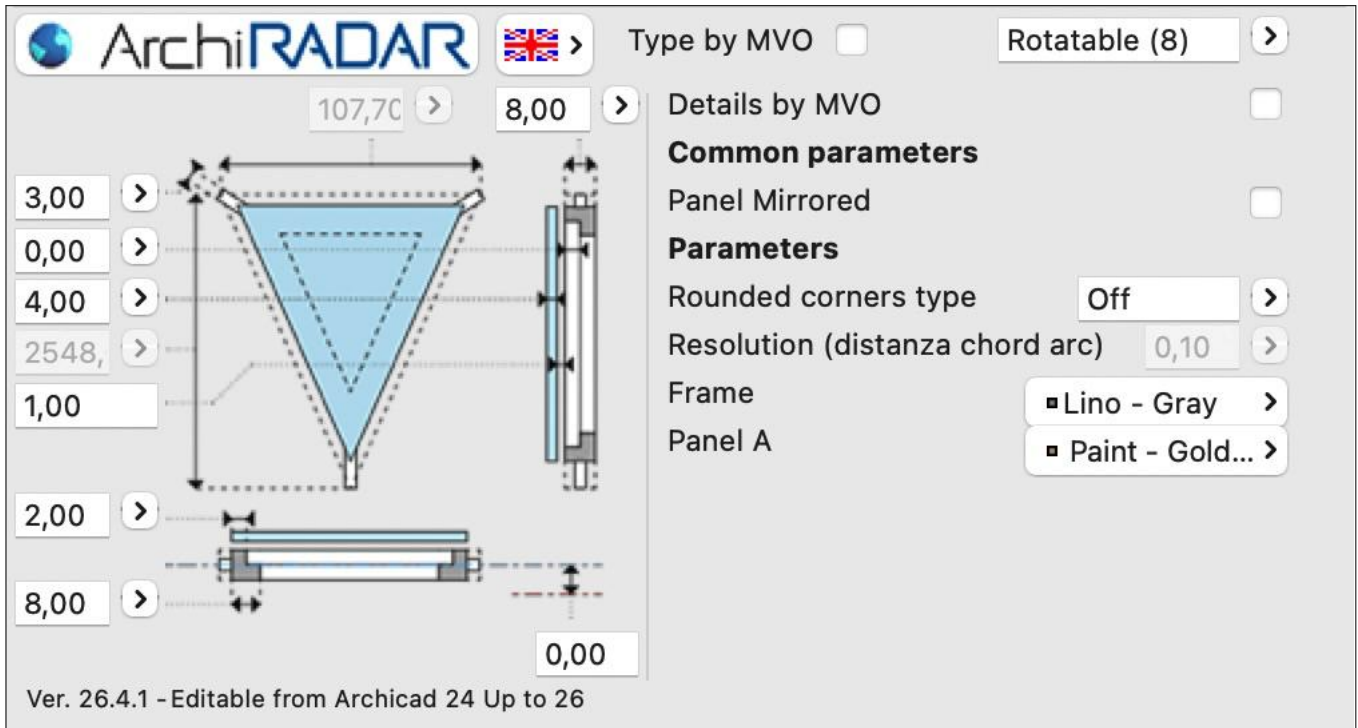
4 vertices - Rotatable panel





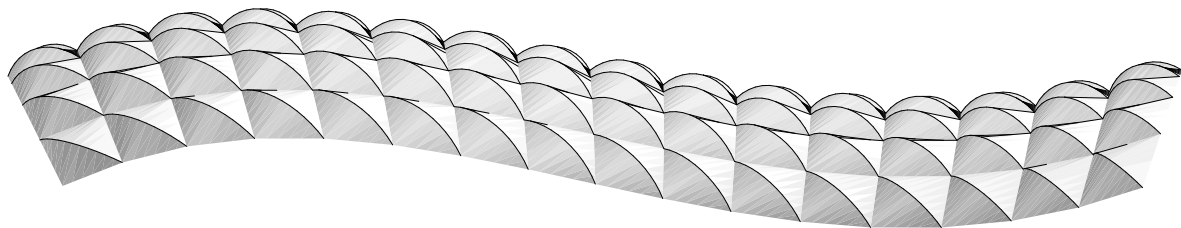
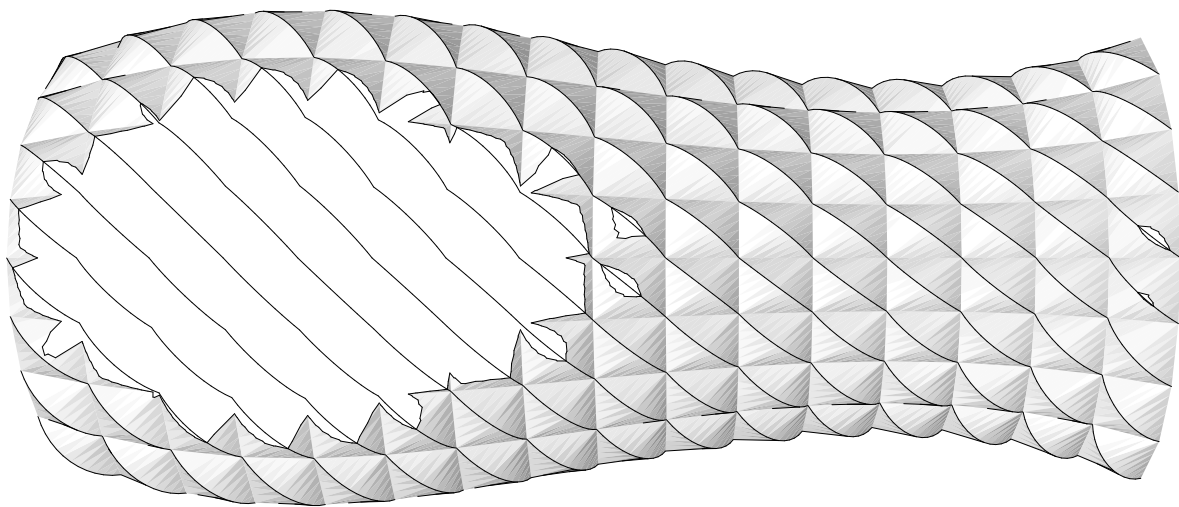
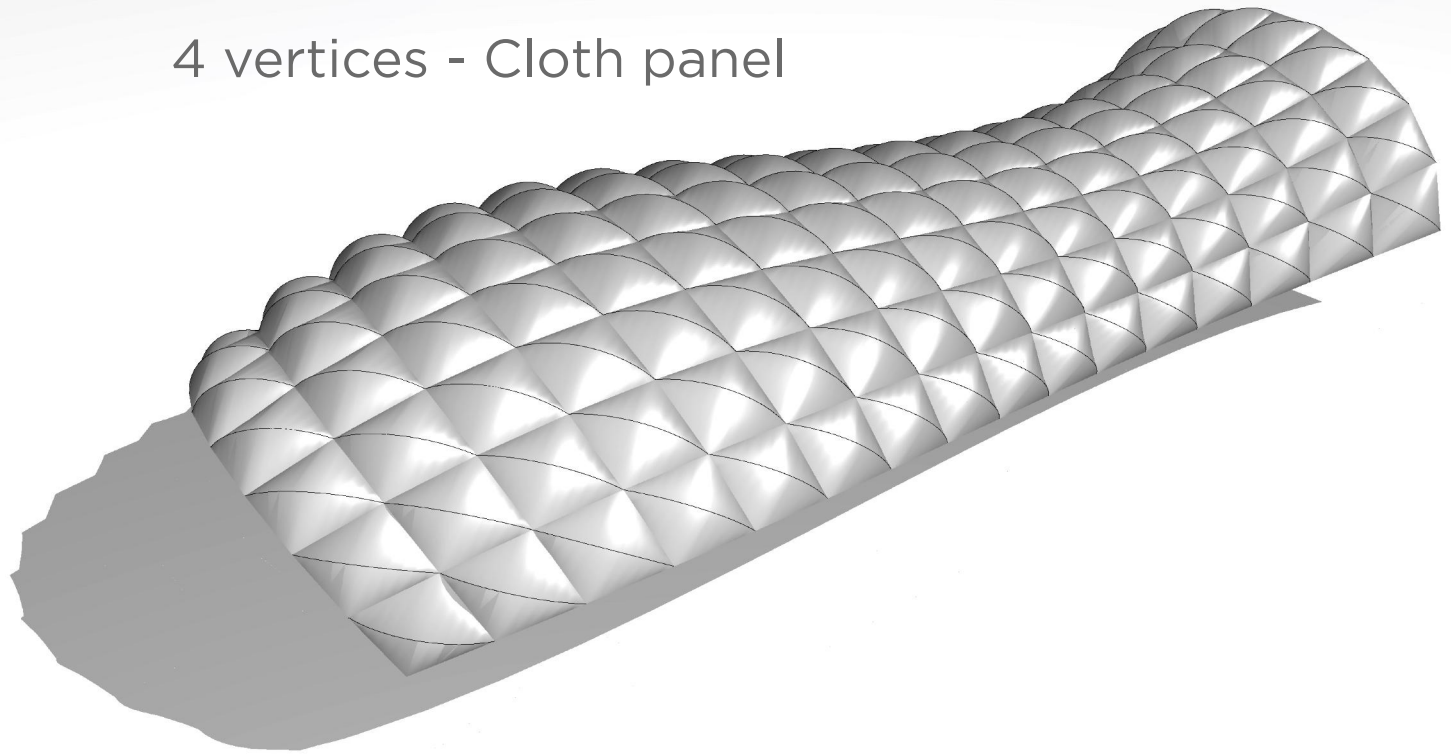
# Panel types Interface

## 4 vertices - Frame panel



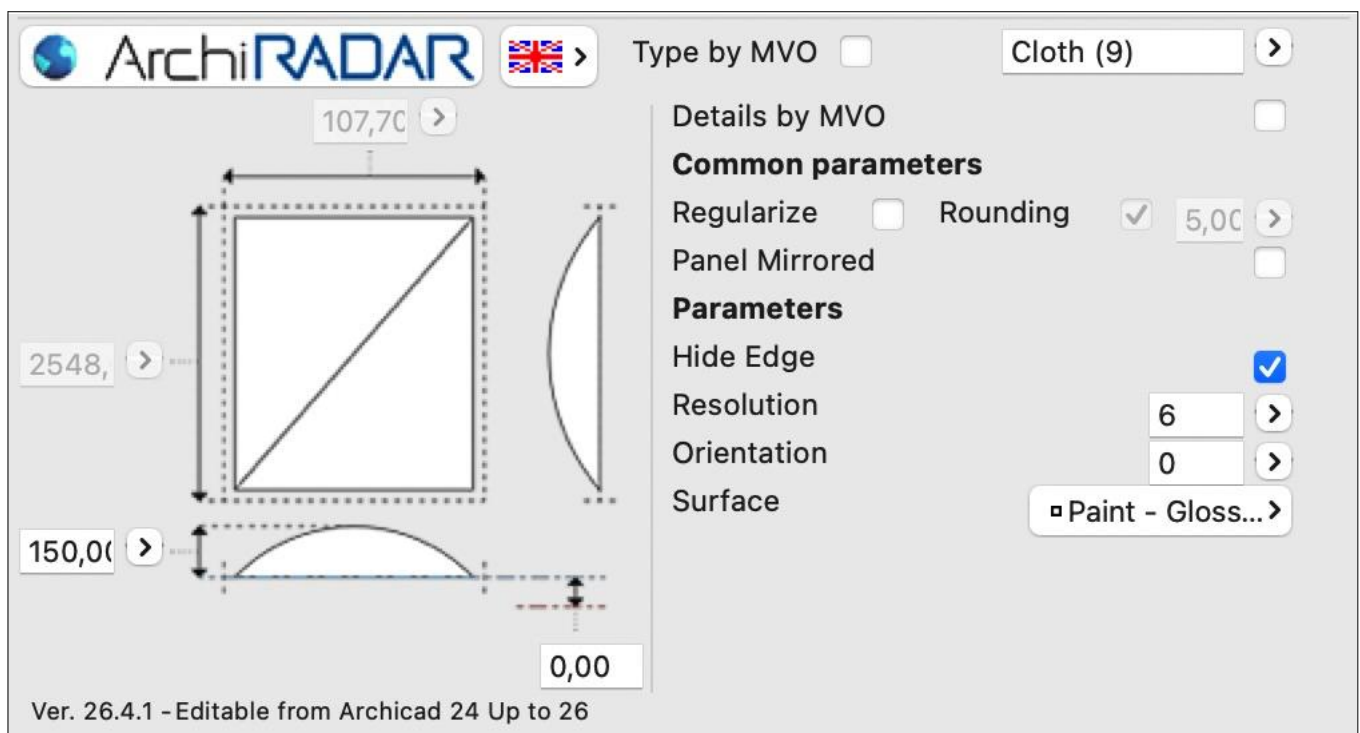
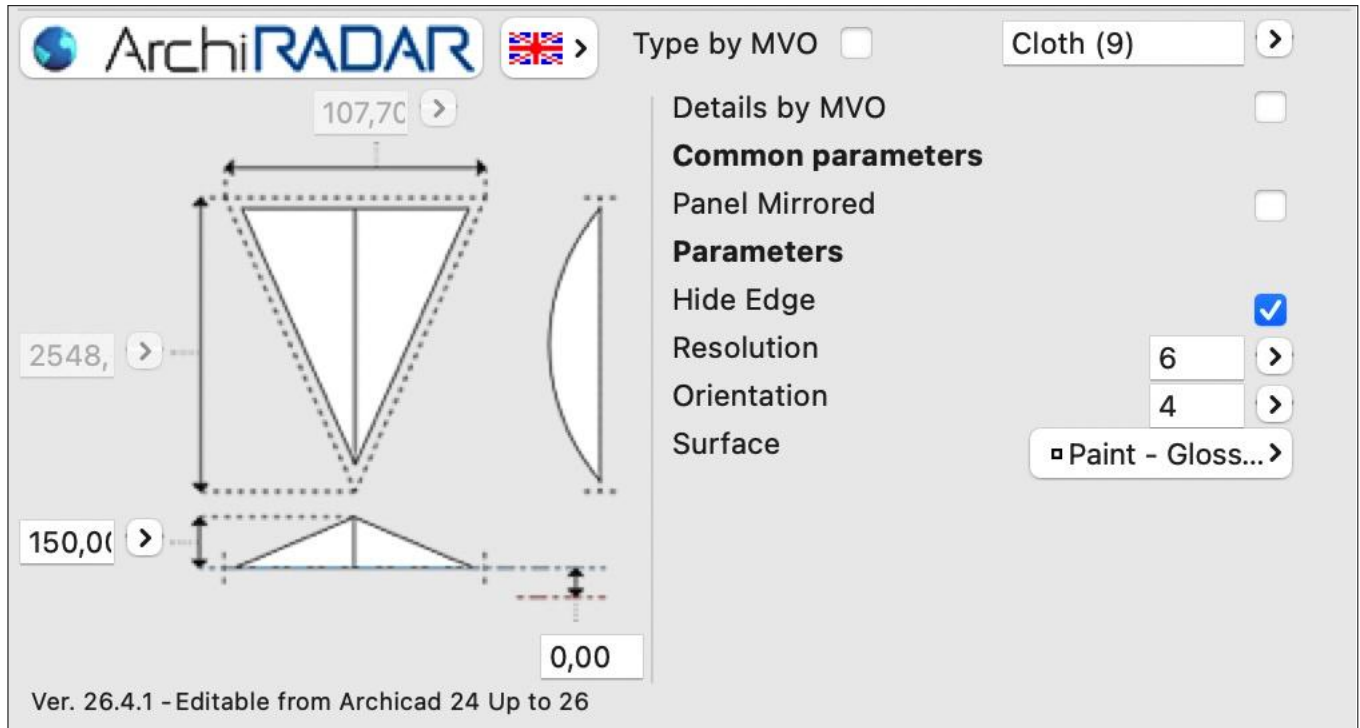
# Panel types

4 vertices - Cloth panel



# Panel types Interface

## 4 vertices - Frame panel

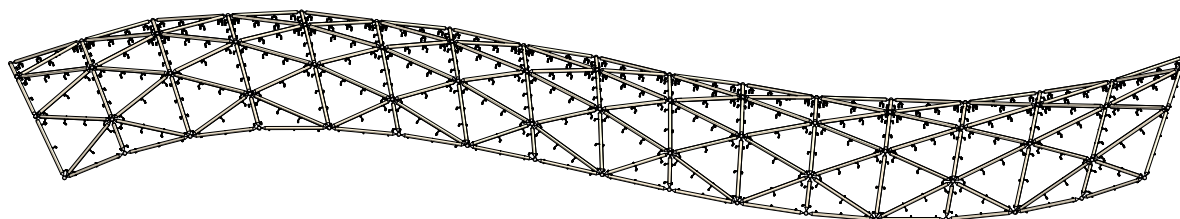
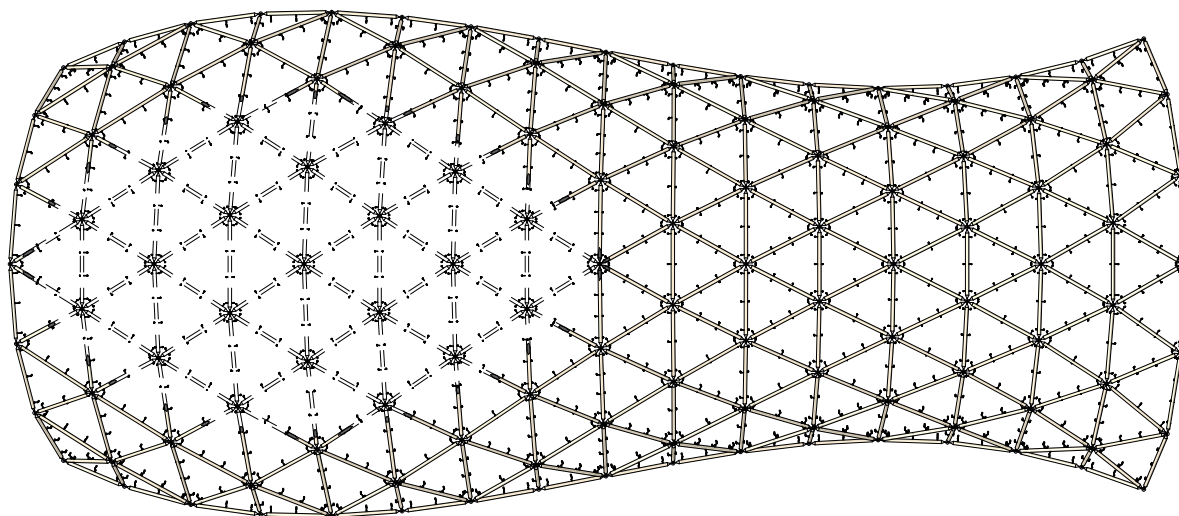
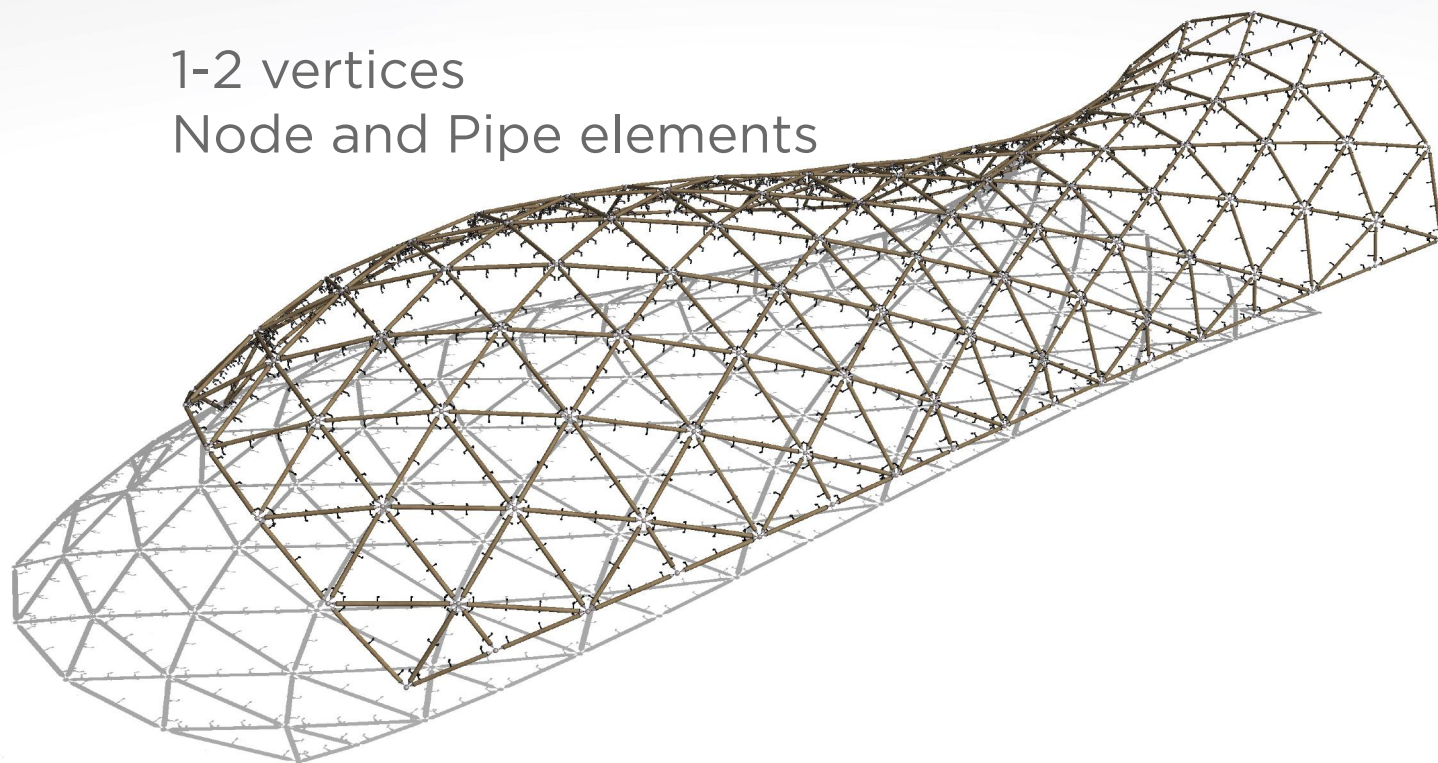




# Panel types

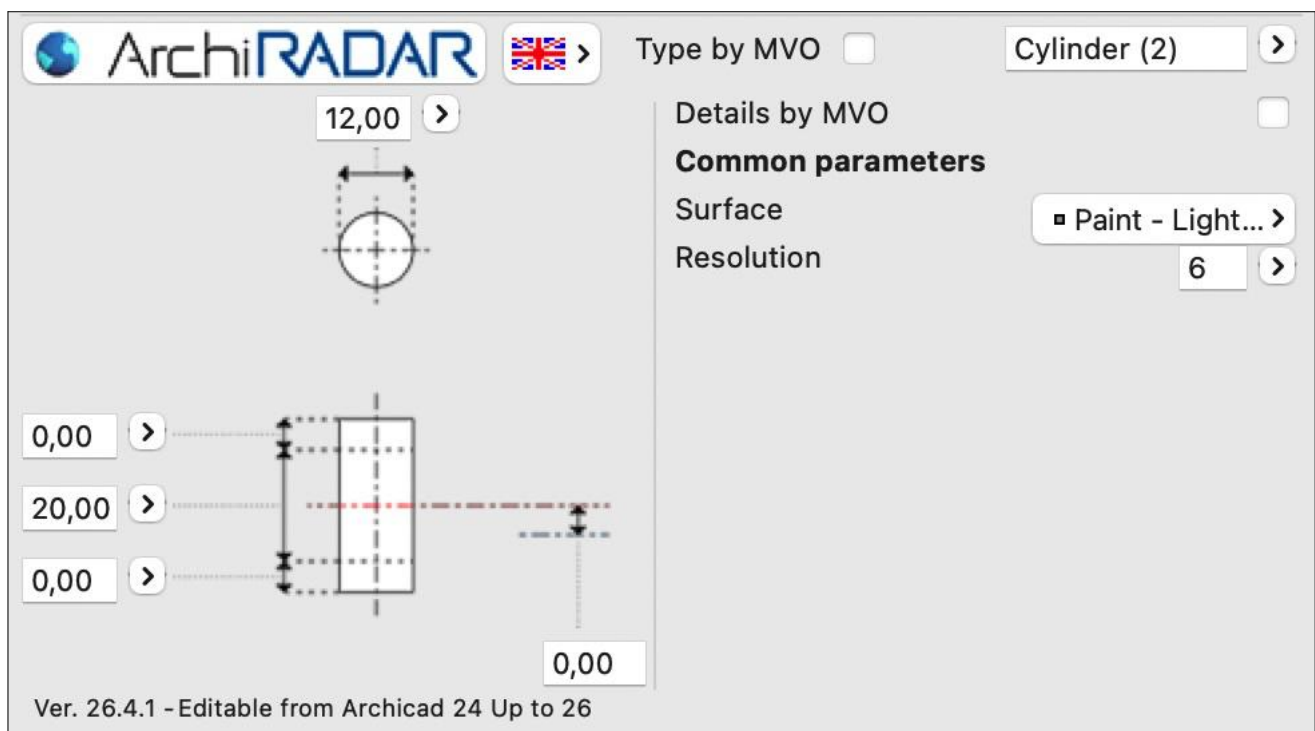
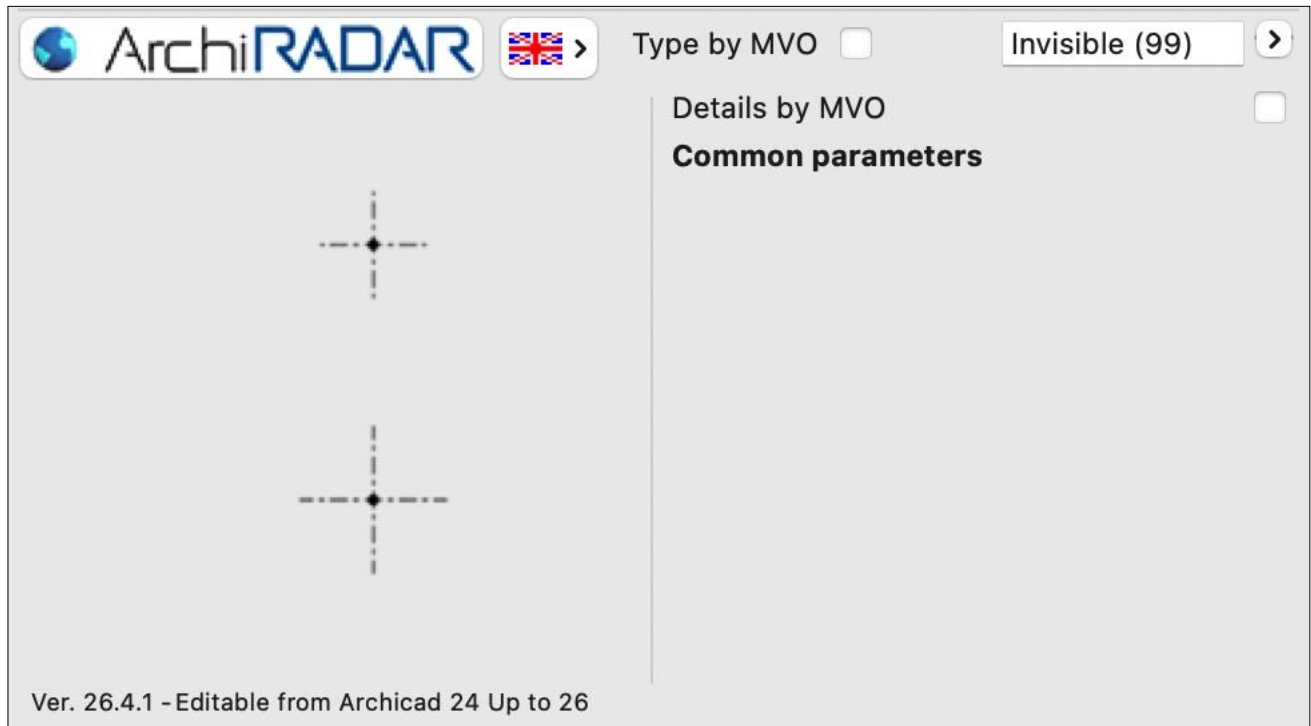
1-2 vertices

Node and Pipe elements



# Panel types Interface

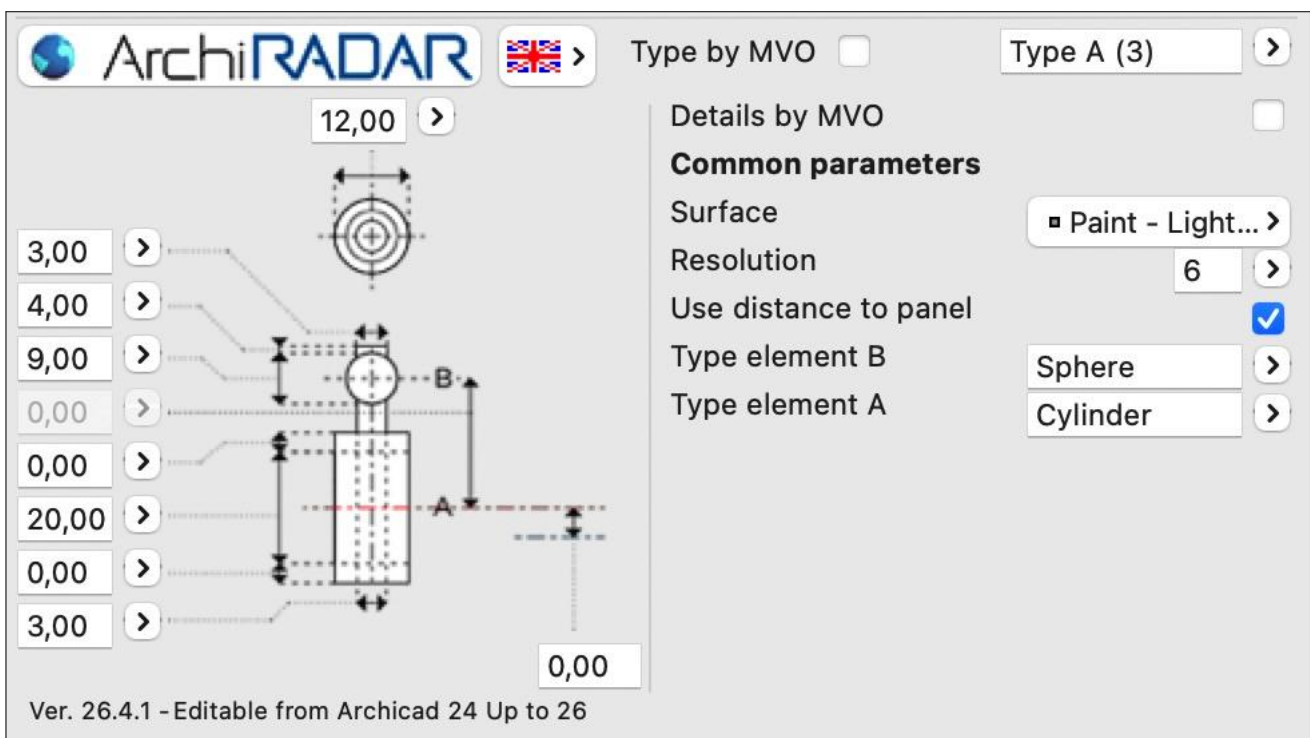
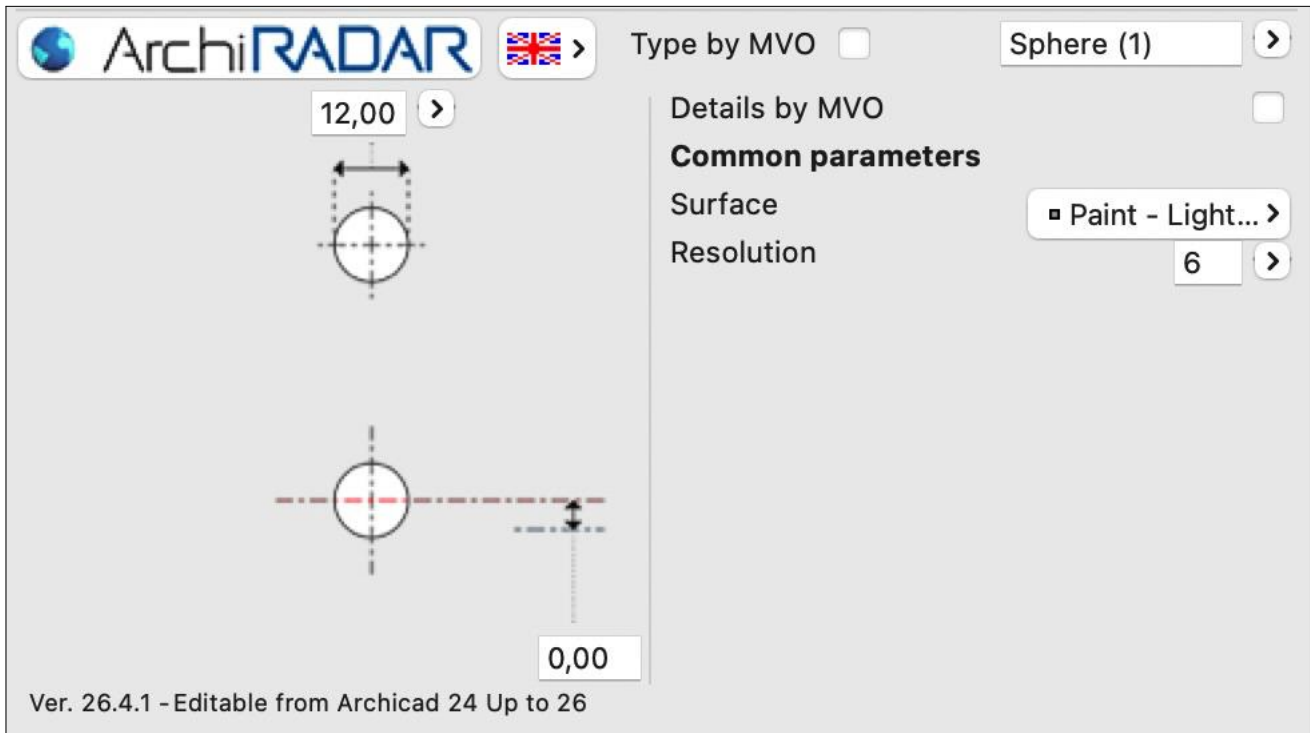
## 1 vertices - Nodes





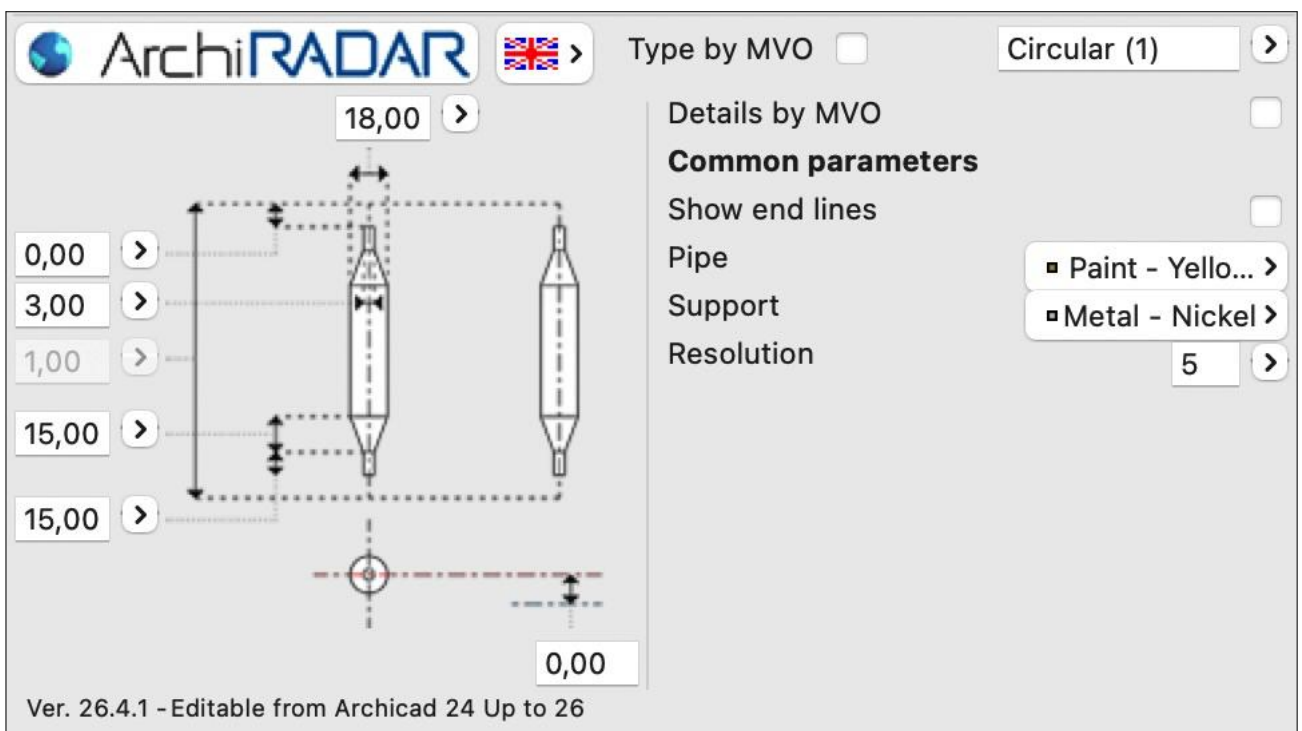
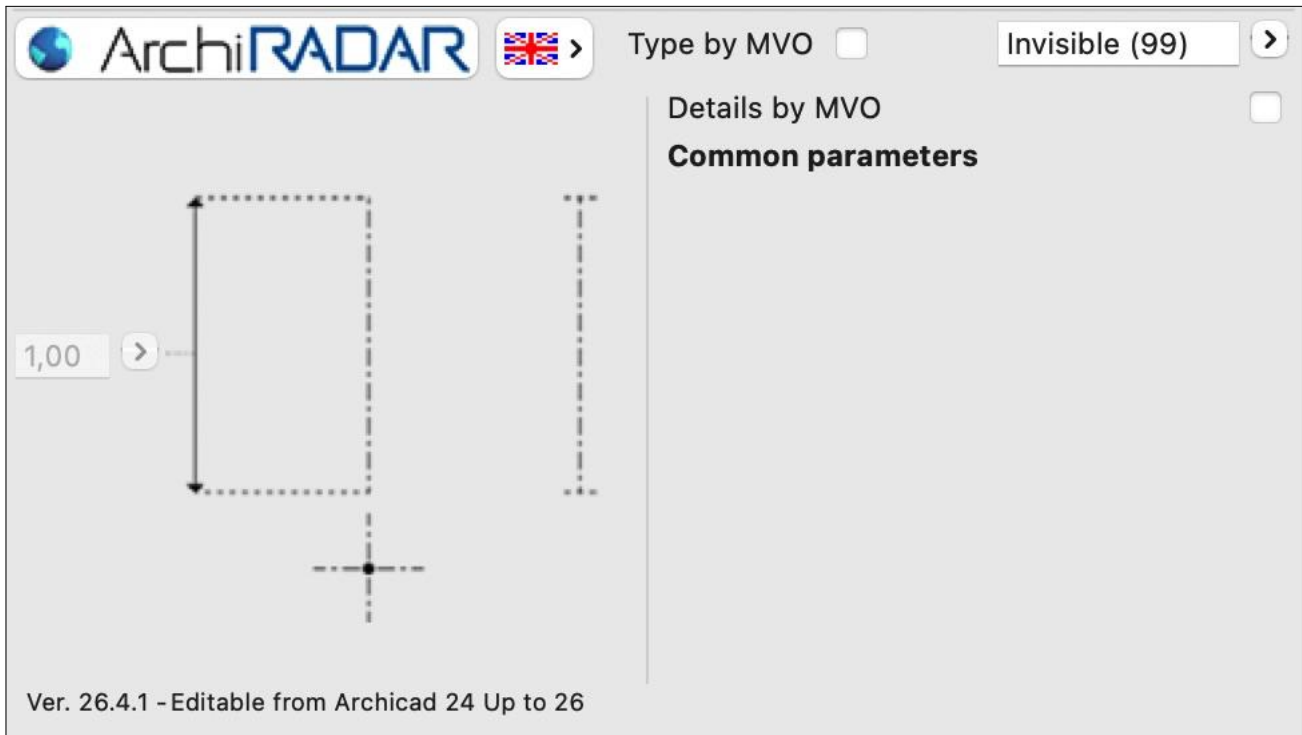
# Panel types Interface

## 1 vertices - Nodes



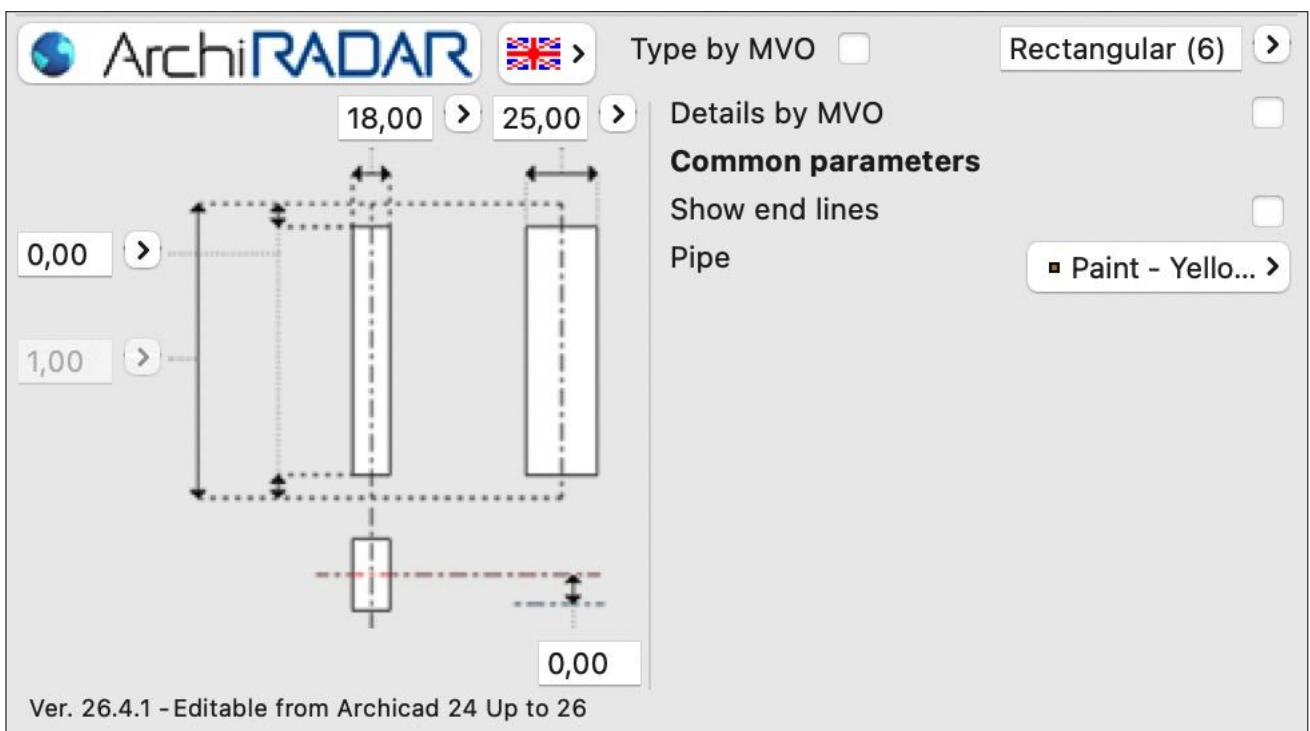
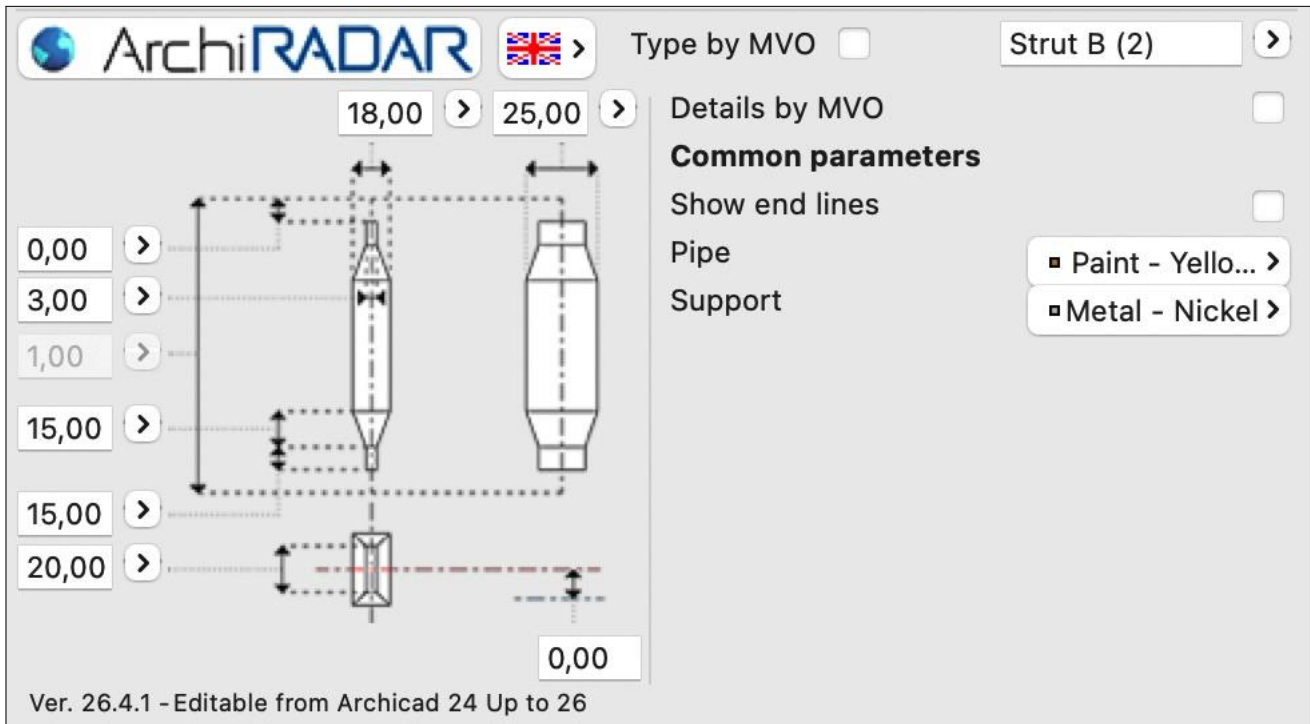
# Panel types Interface

## 2 vertices - Pipes



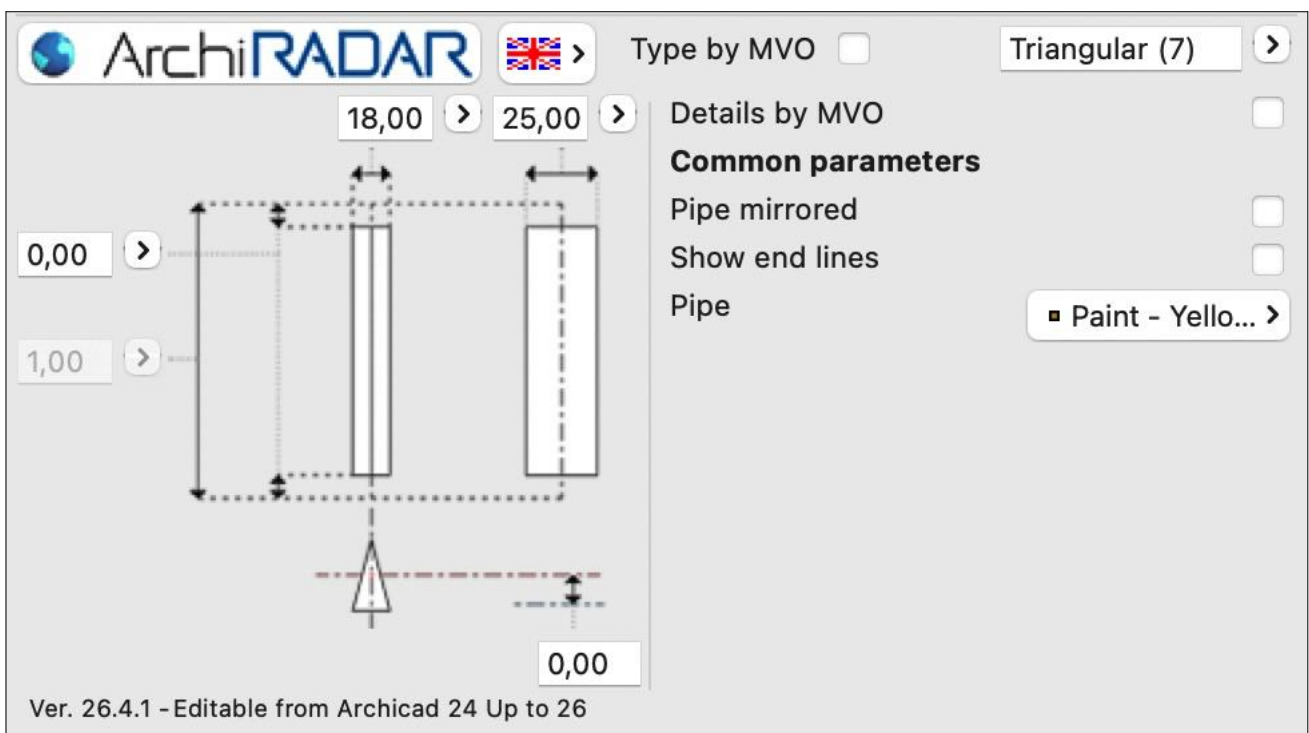
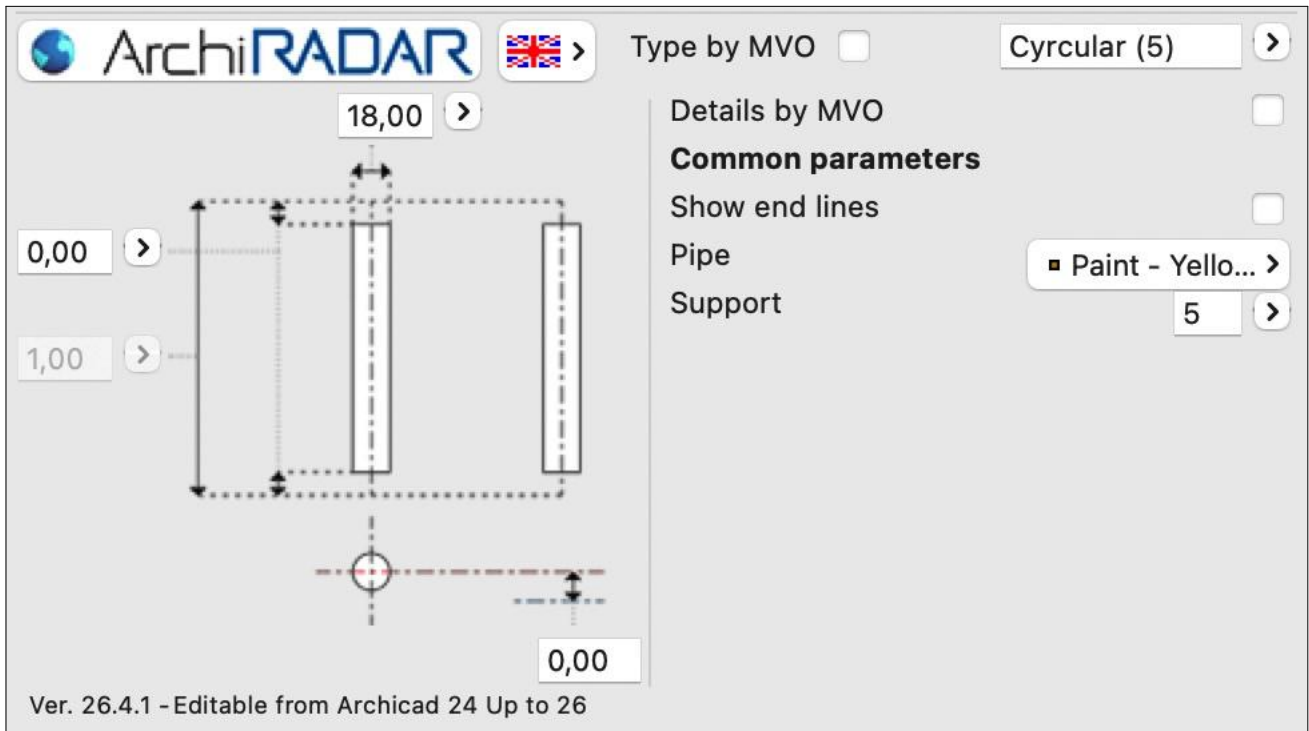
# Panel types Interface

## 2 vertices - Pipes



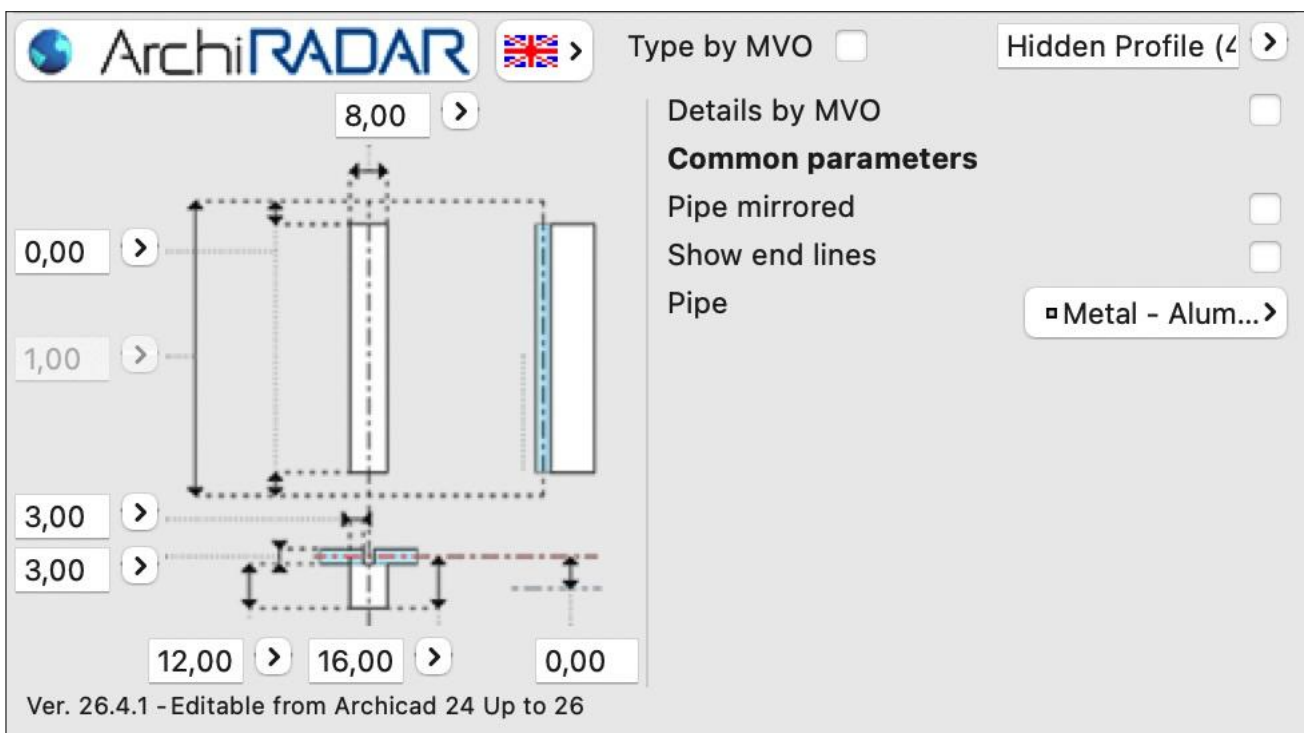
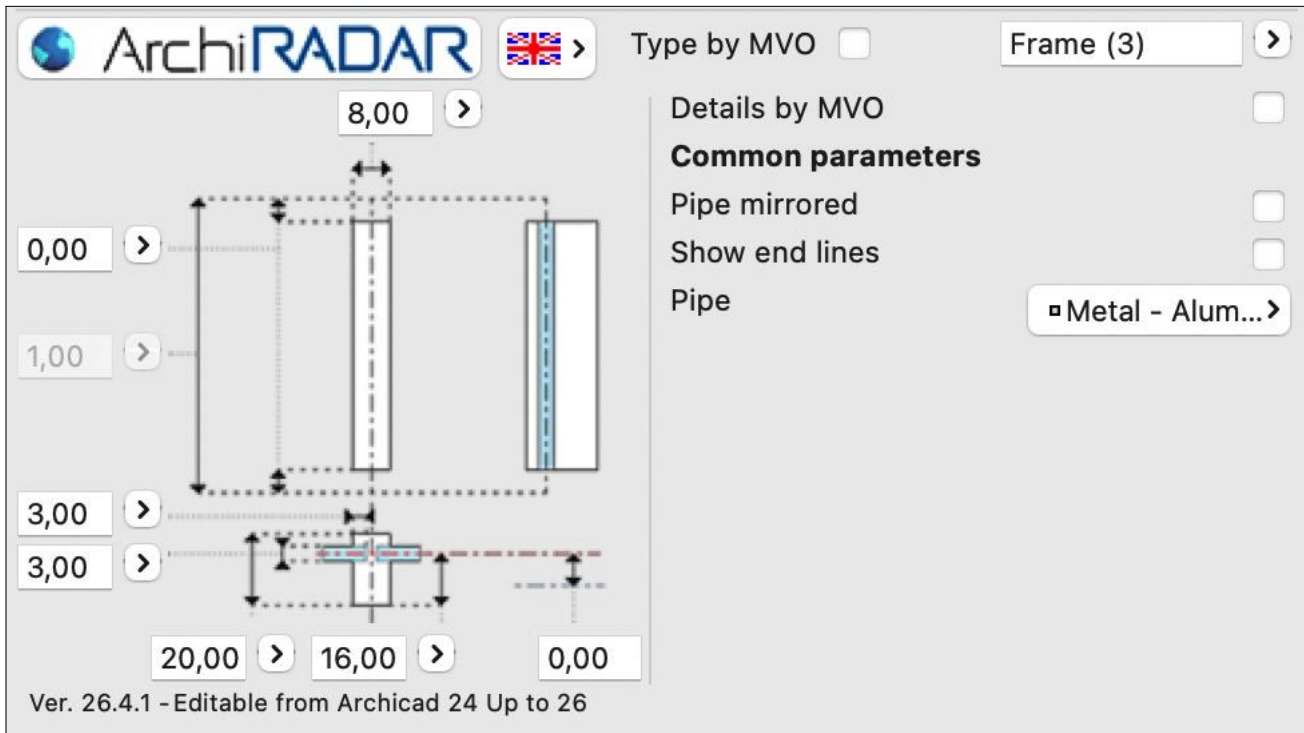
# Panel types Interface

## 2 vertices - Pipes



# Panel types Interface

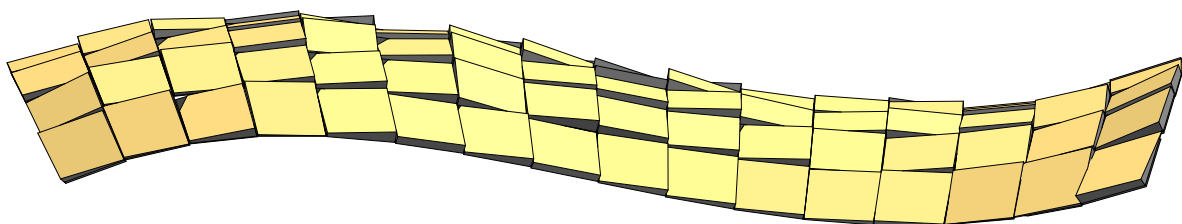
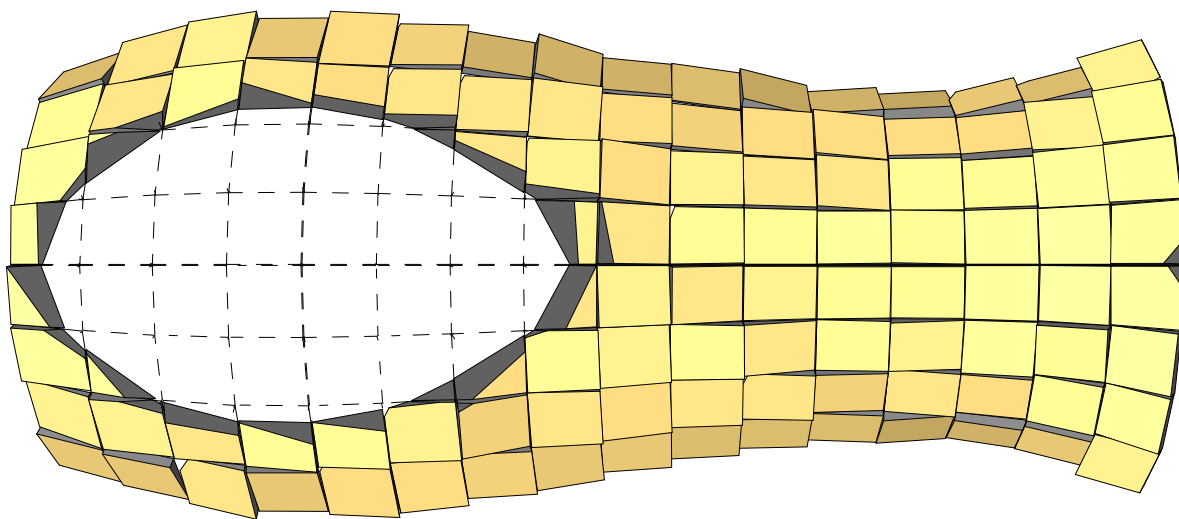
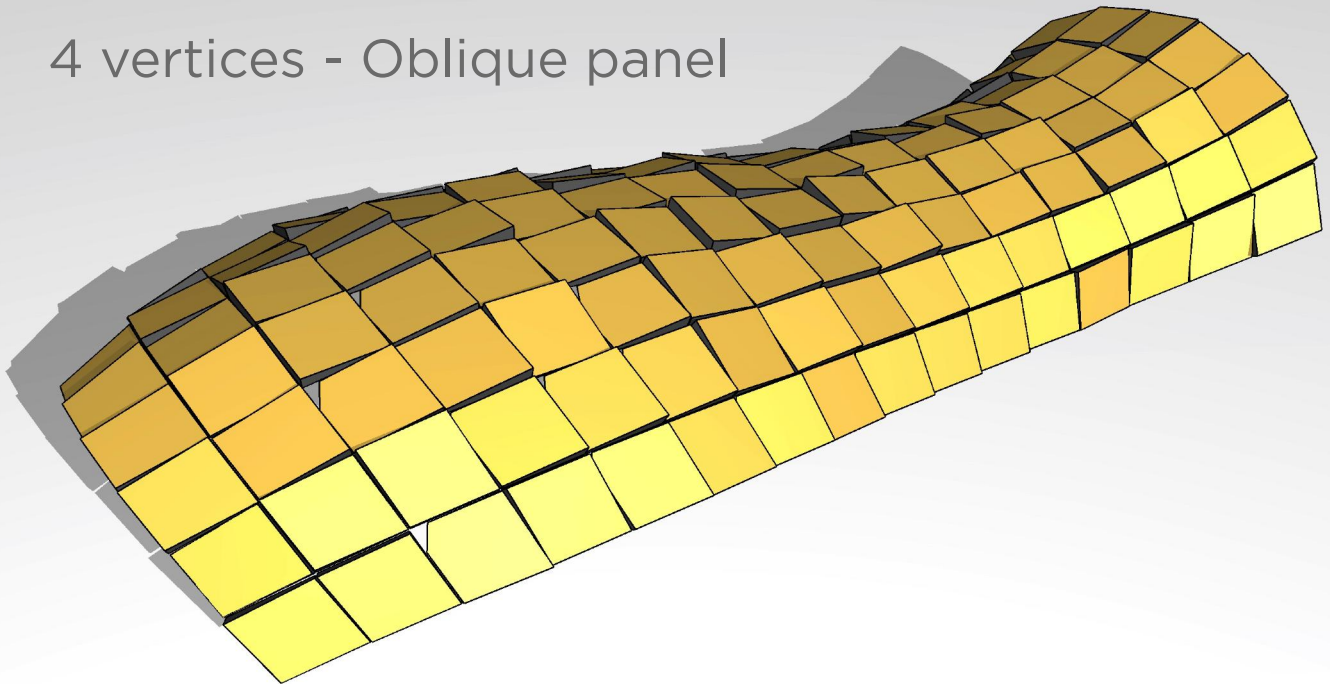
## 2 vertices - Pipes





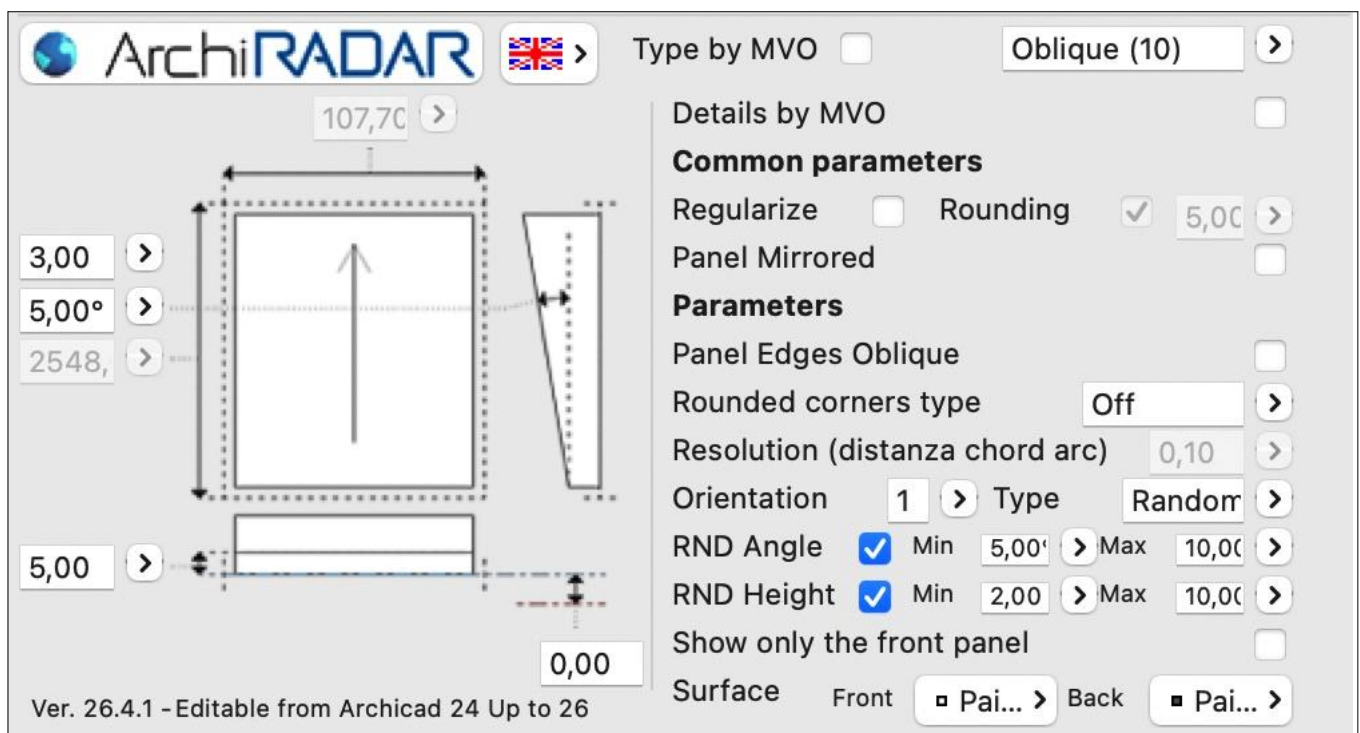
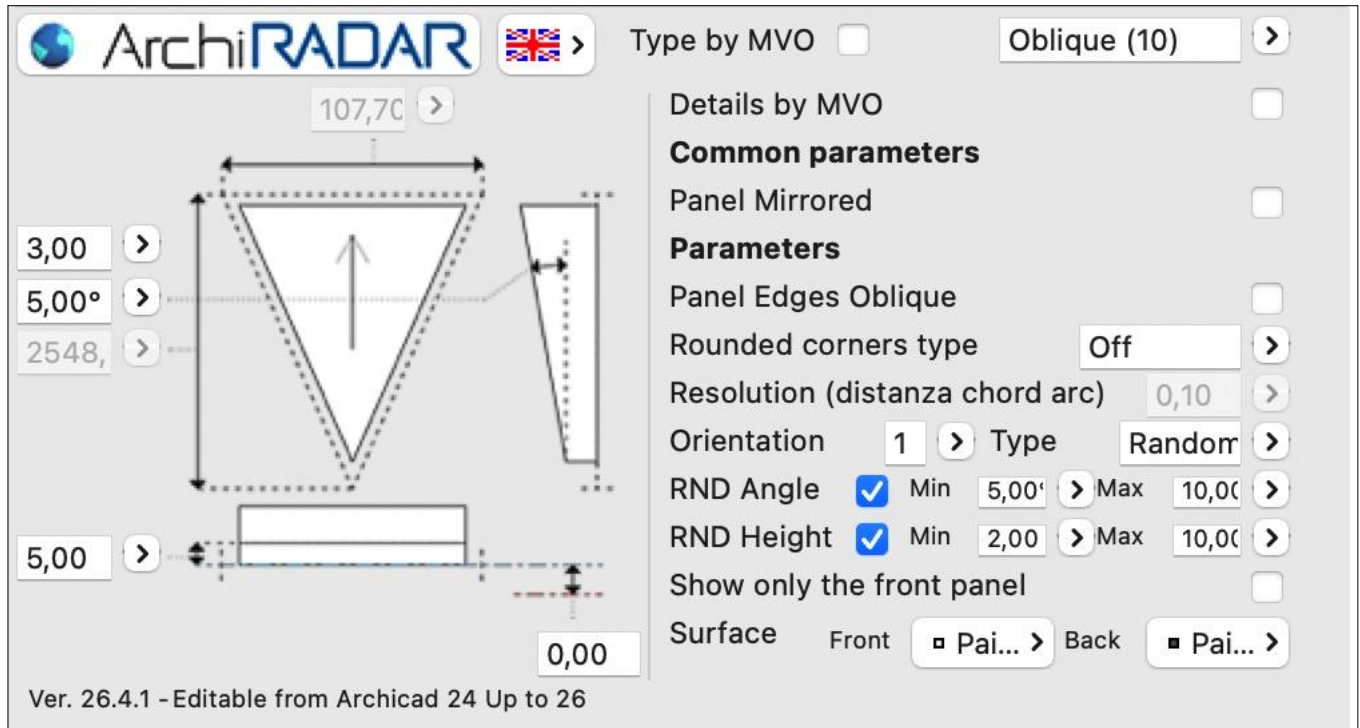
# Panel types

4 vertices - Oblique panel



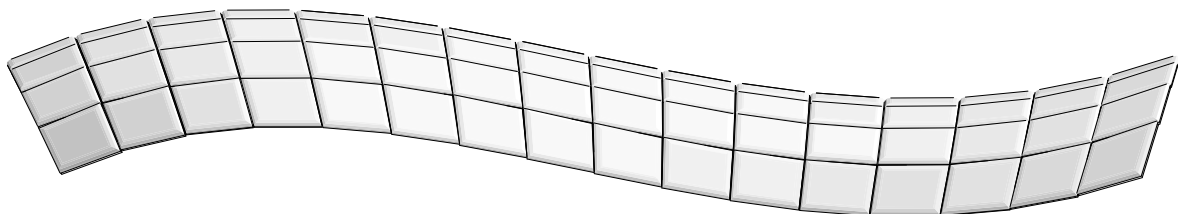
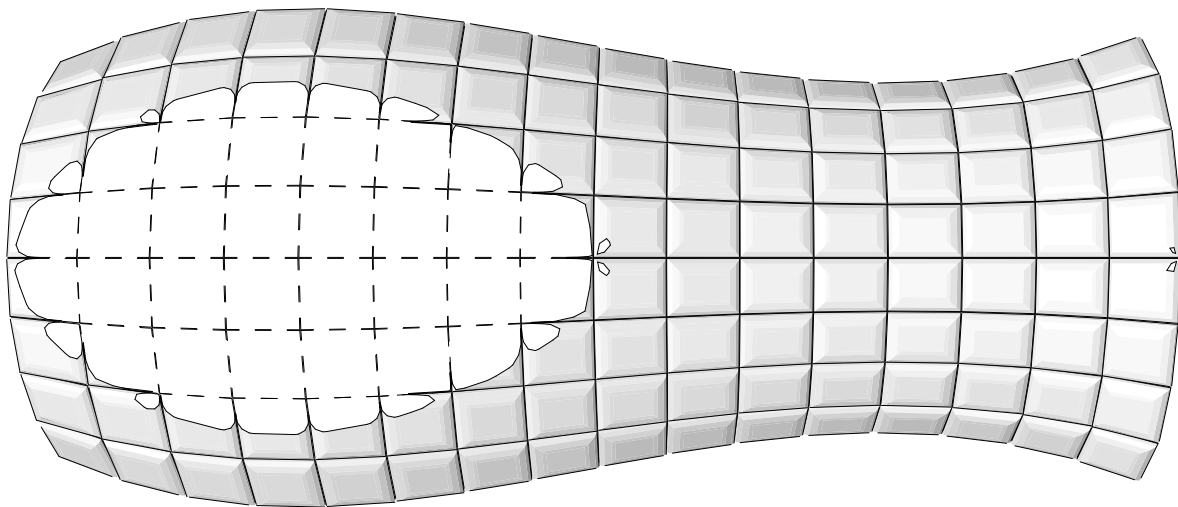
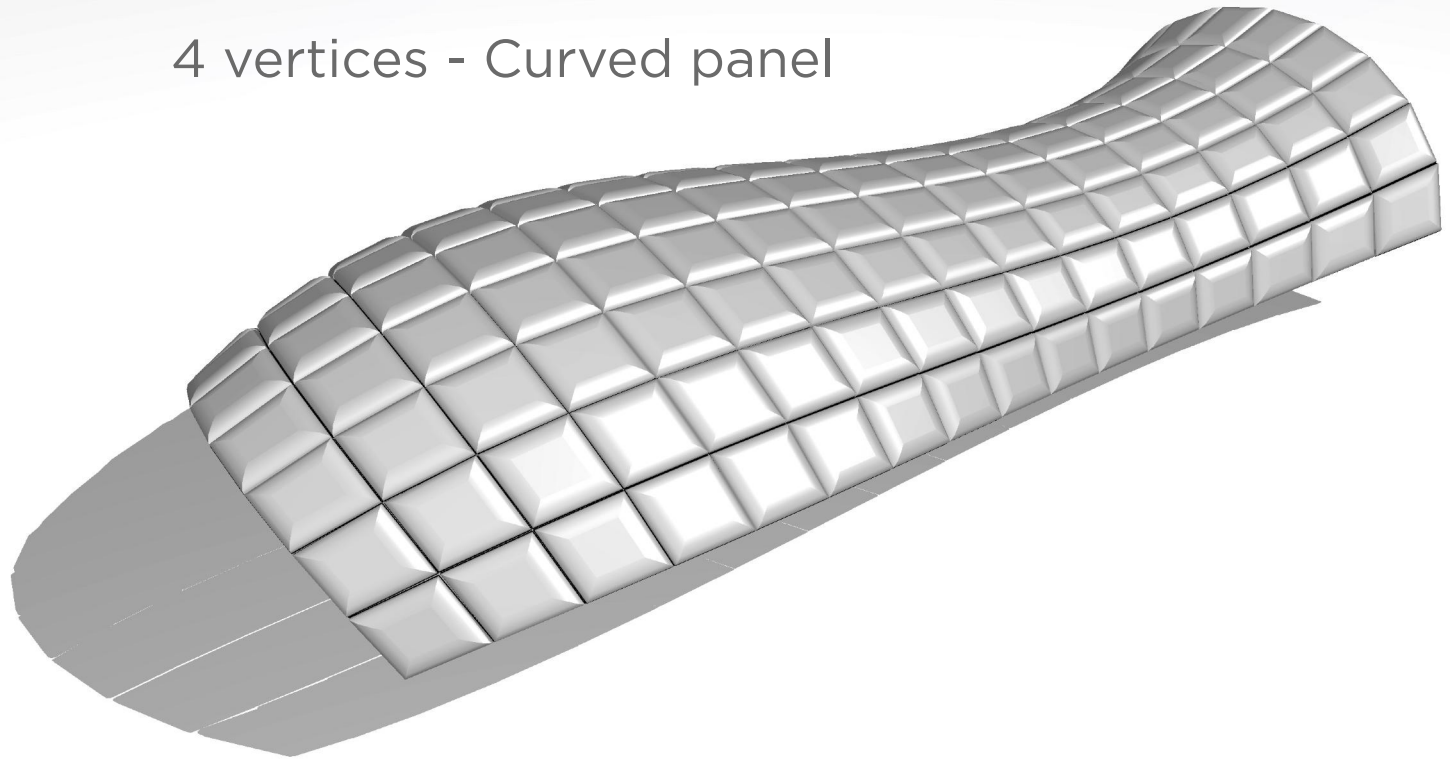
# Panel types Interface

## 4 vertices - Frame panel



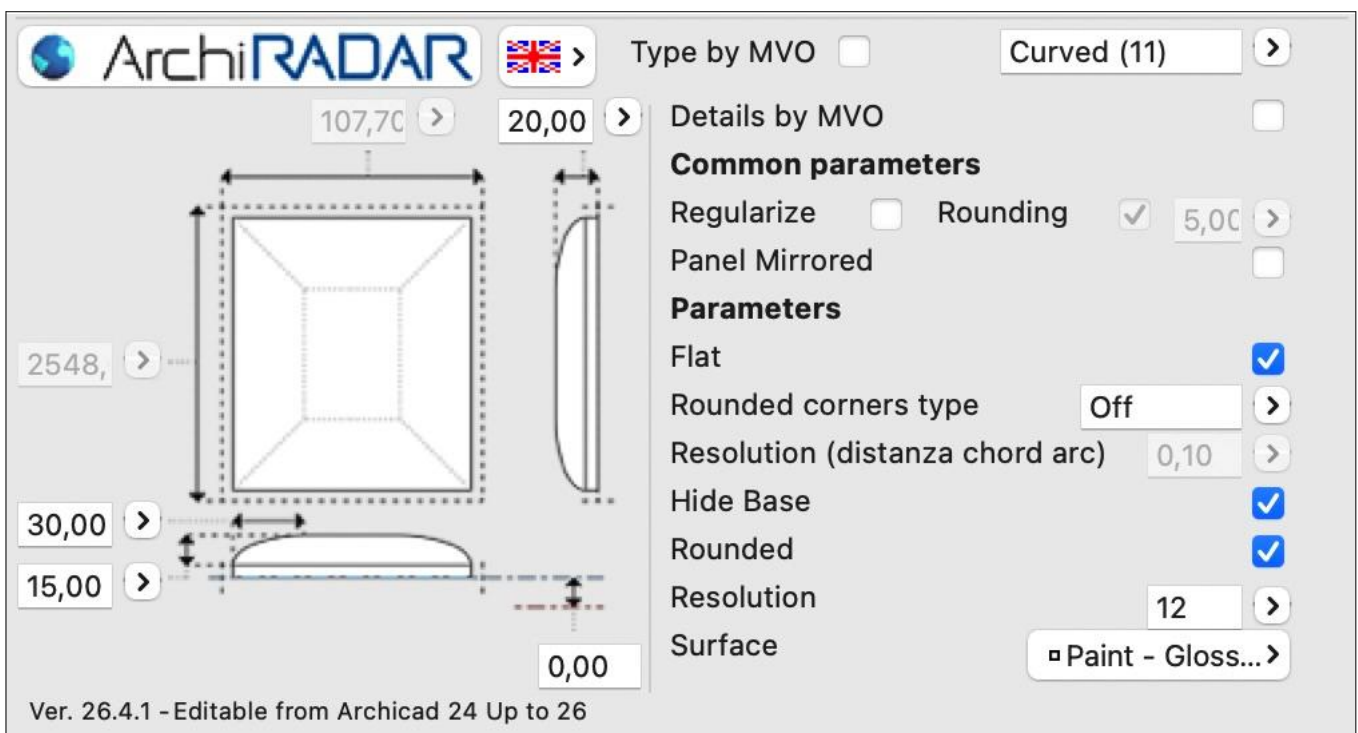
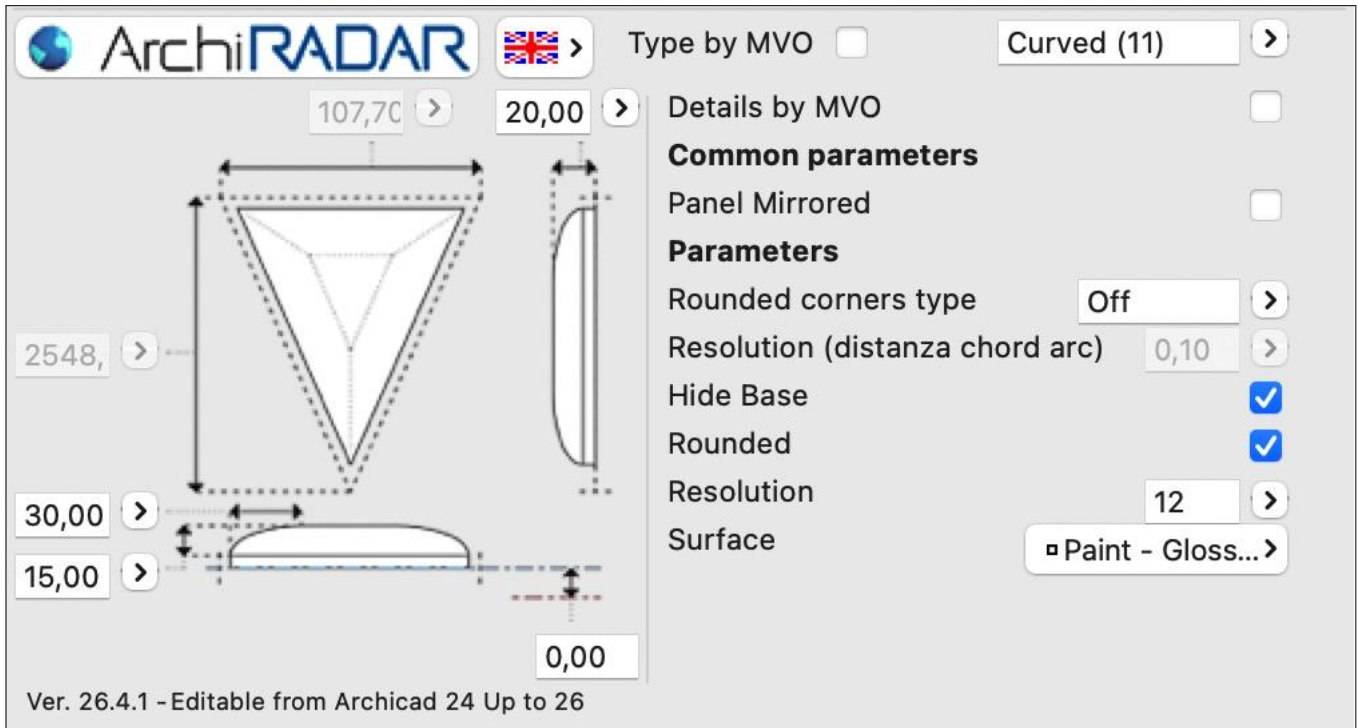
# Panel types

4 vertices - Curved panel



# Panel types Interface

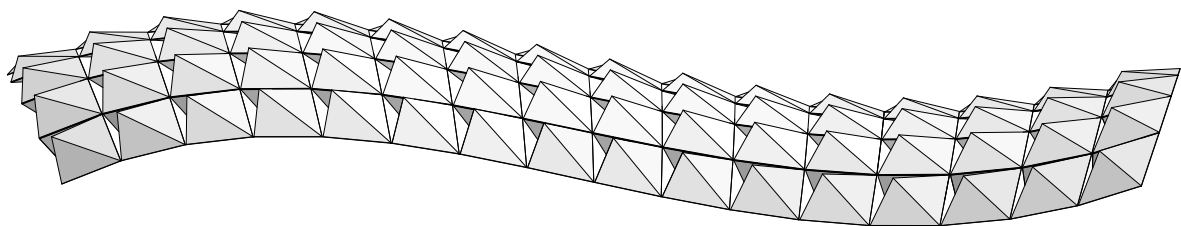
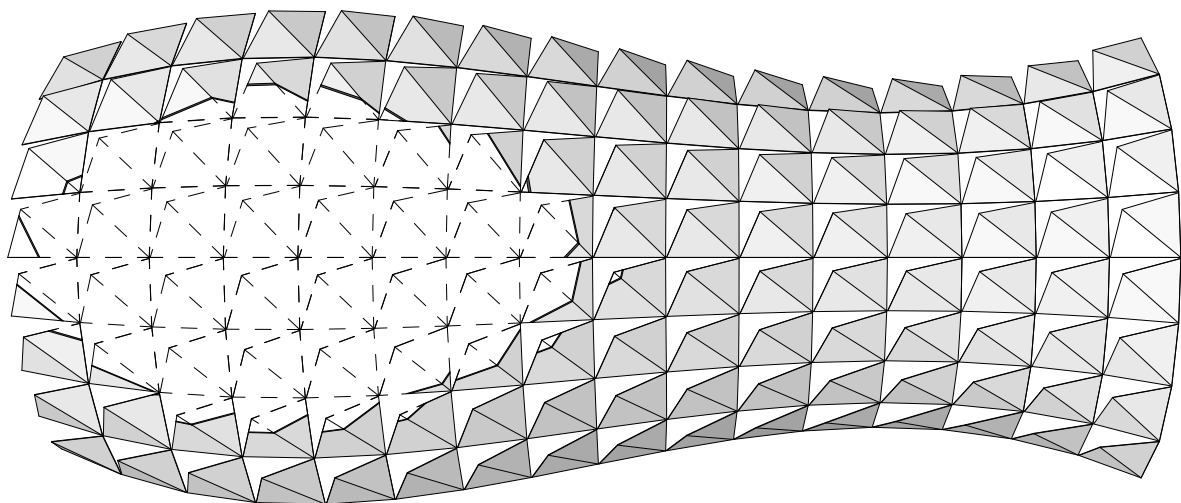
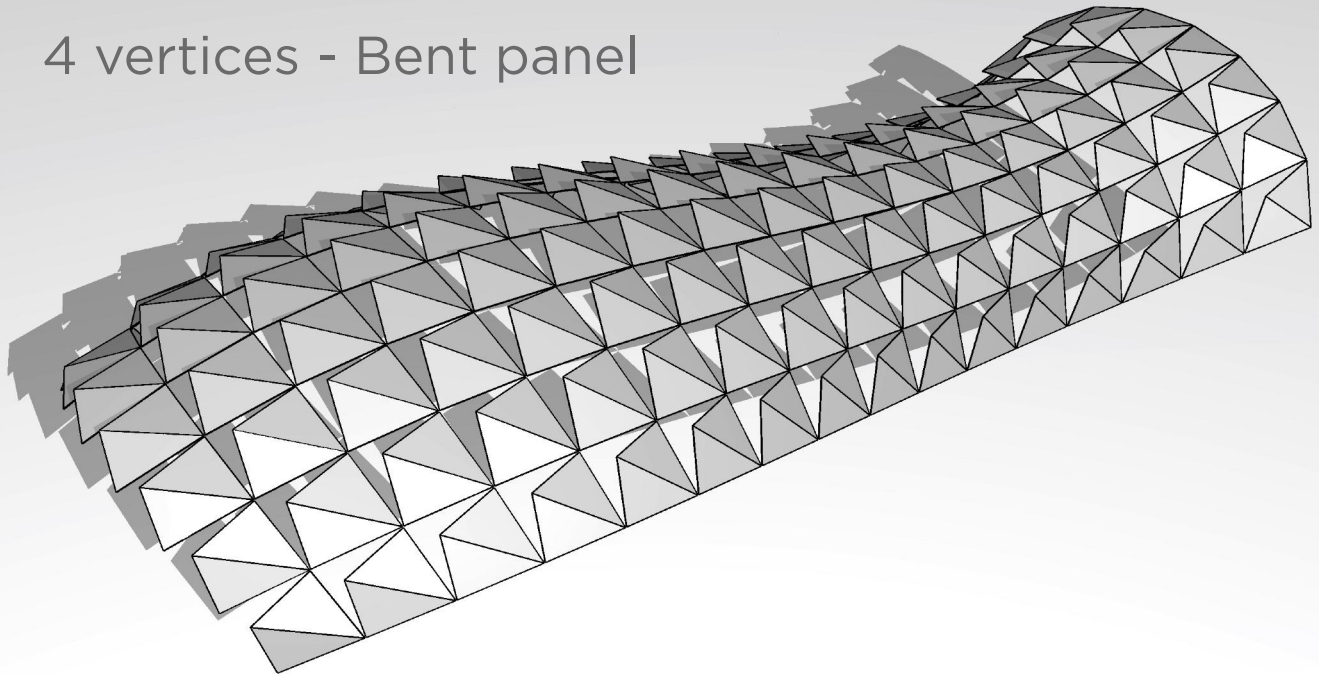
## 4 vertices - Frame panel





# Panel types



4 vertices - Bent panel

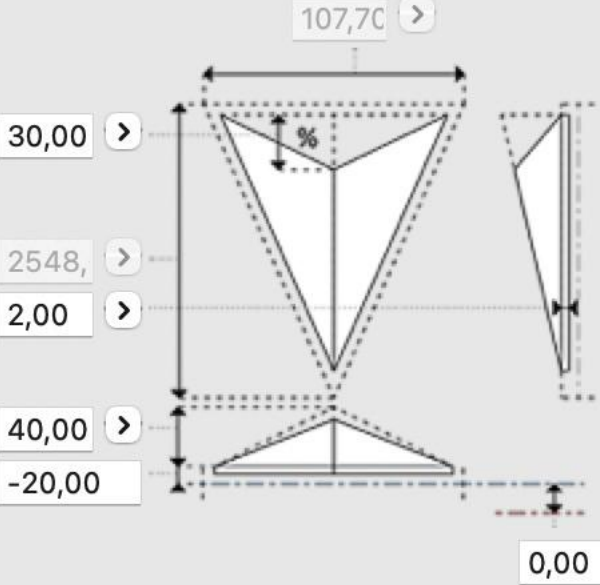




# Panel types Interface

## 4 vertices - Frame panel

  > Type by MVO ☐ Bent (12) >



Details by MVO ☐

**Common parameters**

Panel Mirrored ☐

Opening % Manual ☐ 15 >



Opening Min 0 > Max 80 >

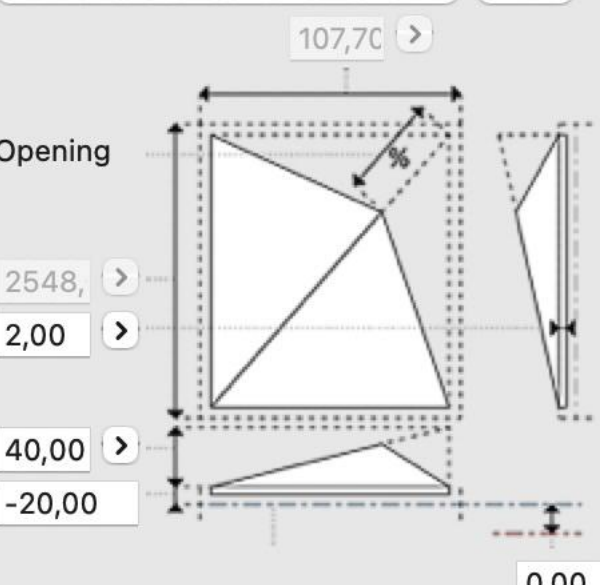
**Parameters**

Orientation 1 >

Surface ▢ Paint - Gloss... >

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  > Type by MVO ☐ Bent (12) >



Details by MVO ☐

**Common parameters**

Regularize ☐ Rounding ☒ 5,00 >

Panel Mirrored ☐

Opening % Manual ☐ 15 >

Opening Min 0 > Max 80 >

**Parameters**

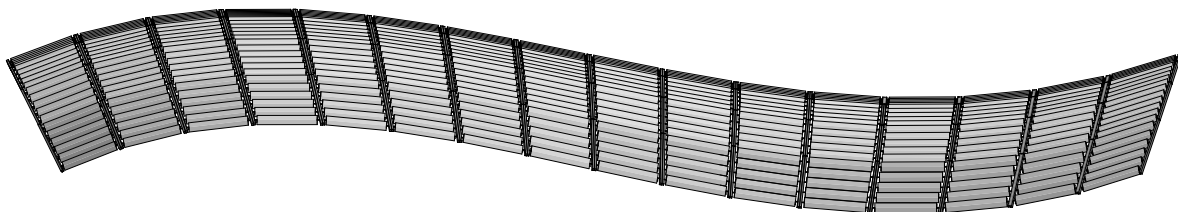
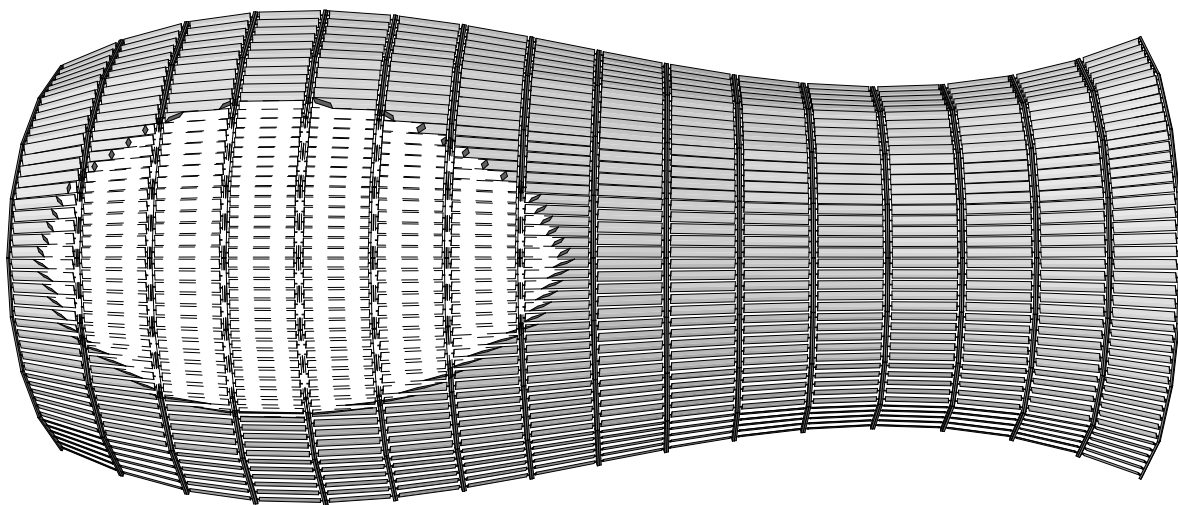
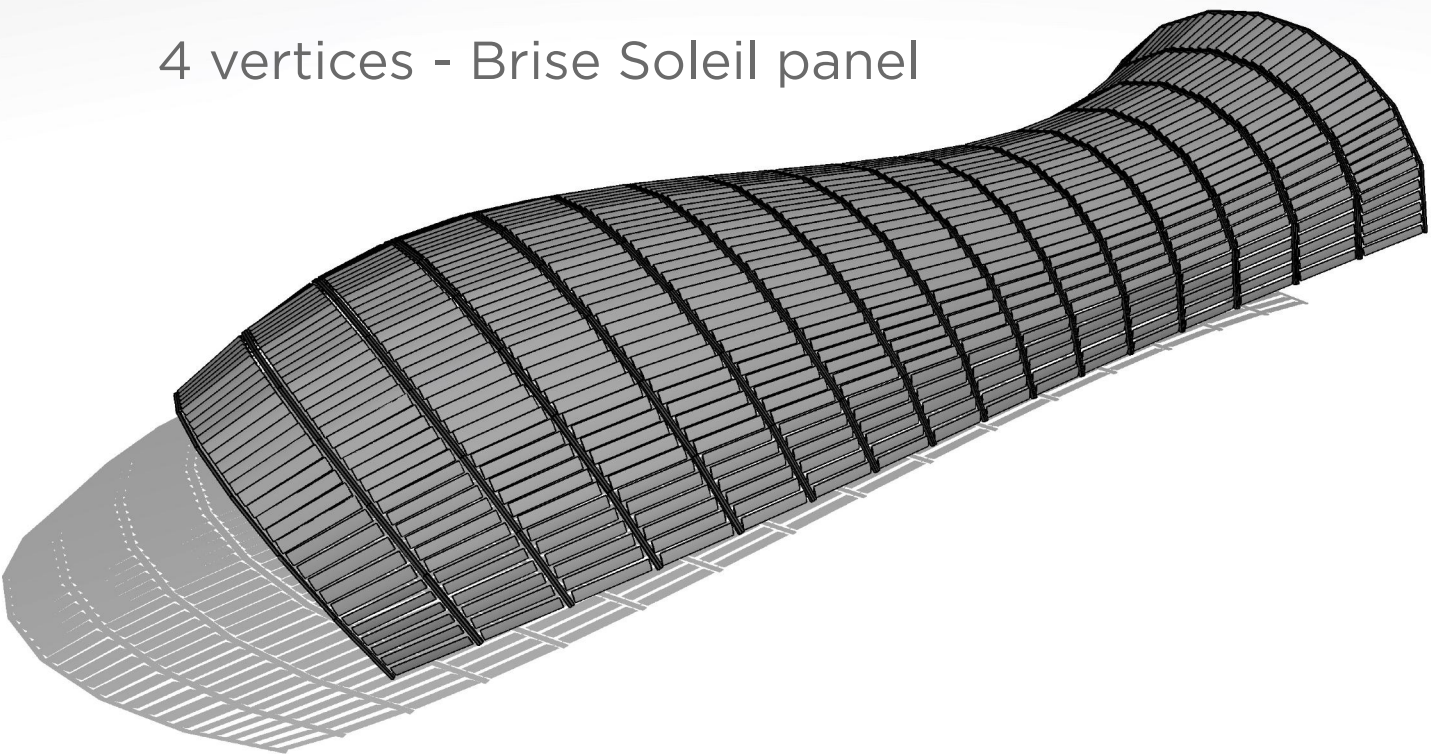
Orientation 1 >

Surface ▢ Paint - Gloss... >

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# Panel types

4 vertices - Brise Soleil panel



# Panel types Interface

## 4 vertices - Frame panel

ArchiRADAR  Type by MVO ☐ Brise Soleil (32) >

107,70 > 12,00 >

5,00 > 40,00 > 2548, > 5,00 > 10,00 > 3,00 > 8,00 >

0,00 > 0,00 >

**Details by MVO** ☐

**Common parameters**

Regularize ☐ Rounding ☒ 5,00 >

Panel Mirrored ☐

Opening % Manual ☐ 15 >

Opening Min 0 > Max 80 >

**Parameters**

H Balde Constant ☐

Orientation 4 >

Frame ☐ Paint - Dark... >

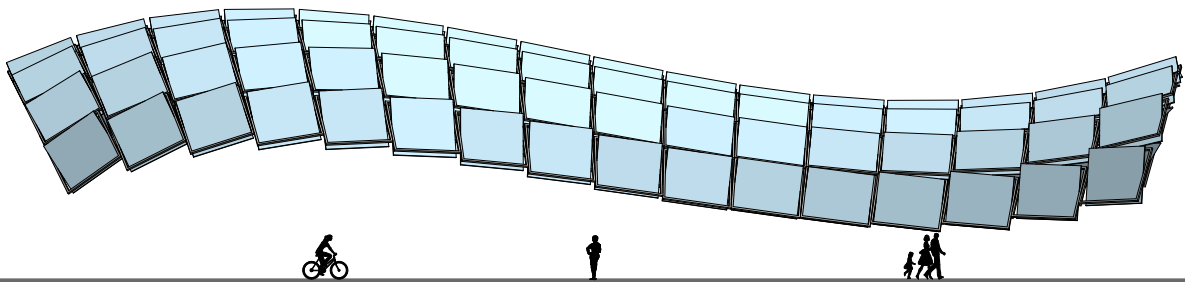
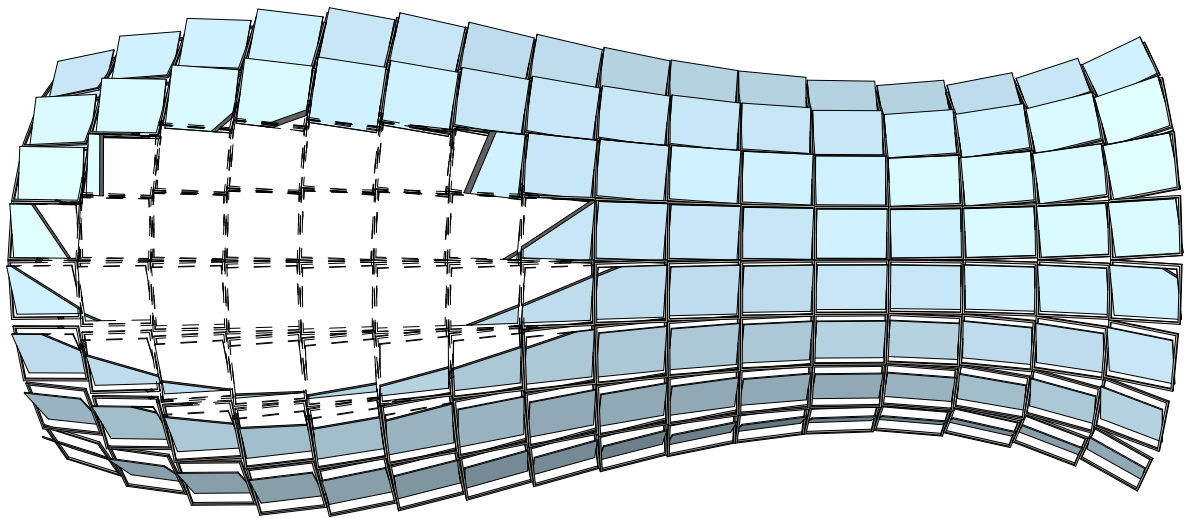
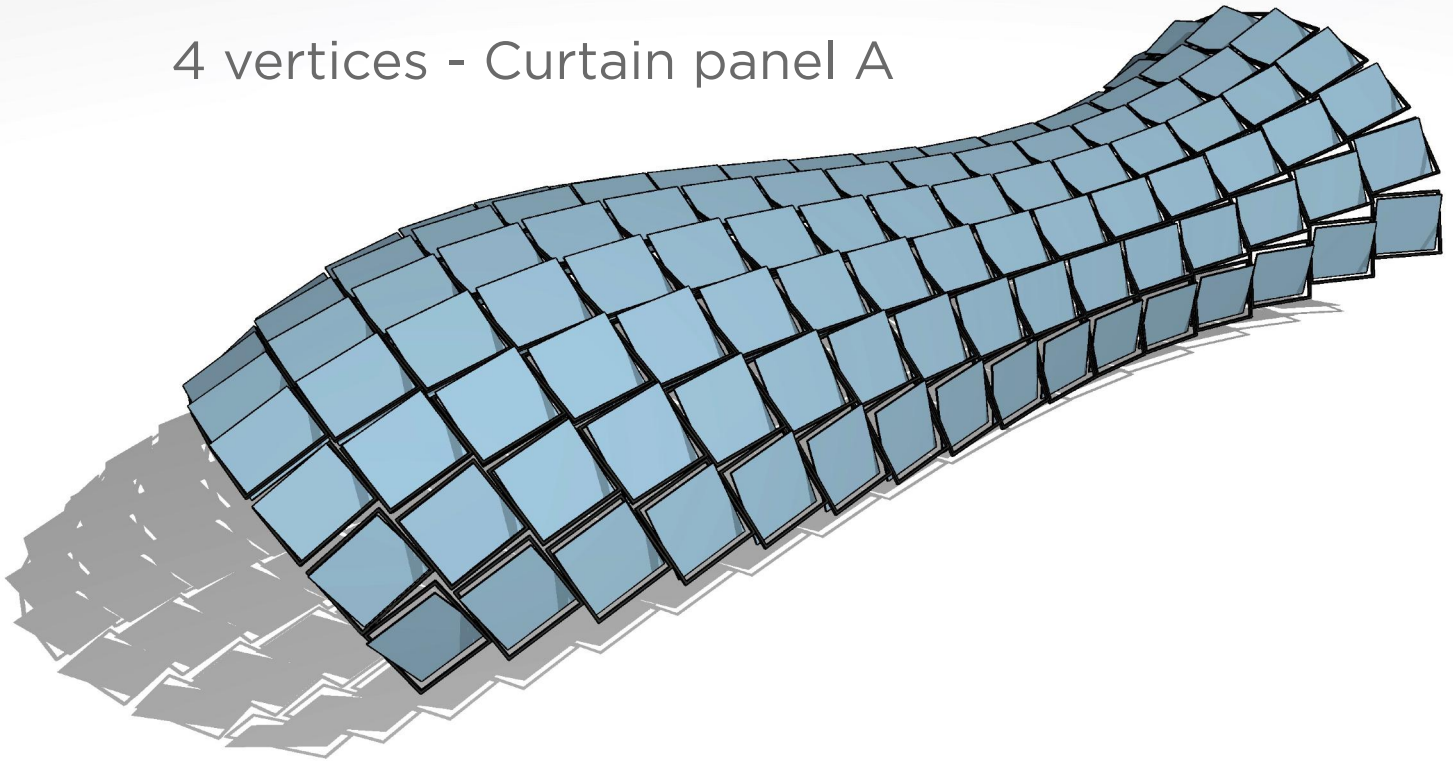
Brise Soleil ☐ Paint - Light... >

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# Panel types


4 vertices - Curtain panel A





# Panel types Interface

## 4 vertices - Frame panel

ArchiRADAR  Type by MVO ☐ Curtain A (33) >

105,00 > 8,00 >

4,00 > 2550,00 >

8,00 > 0,00 >

Details by MVO ☐

**Common parameters**

Regularize ☐ Rounding ☒ 5,00 >

Panel Mirrored ☐

Opening % Manual ☐ 15 >

Opening Min 0 > Max 80 >

Orientation 4 >

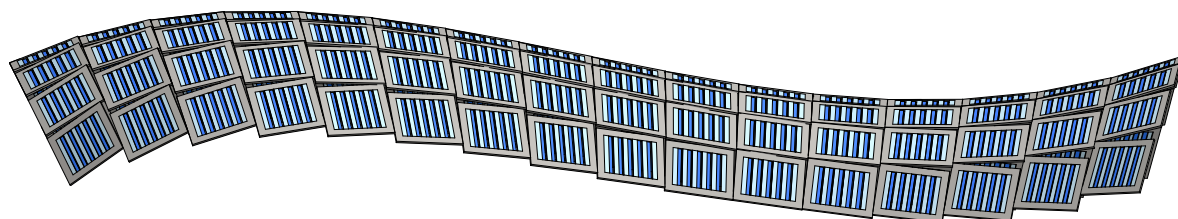
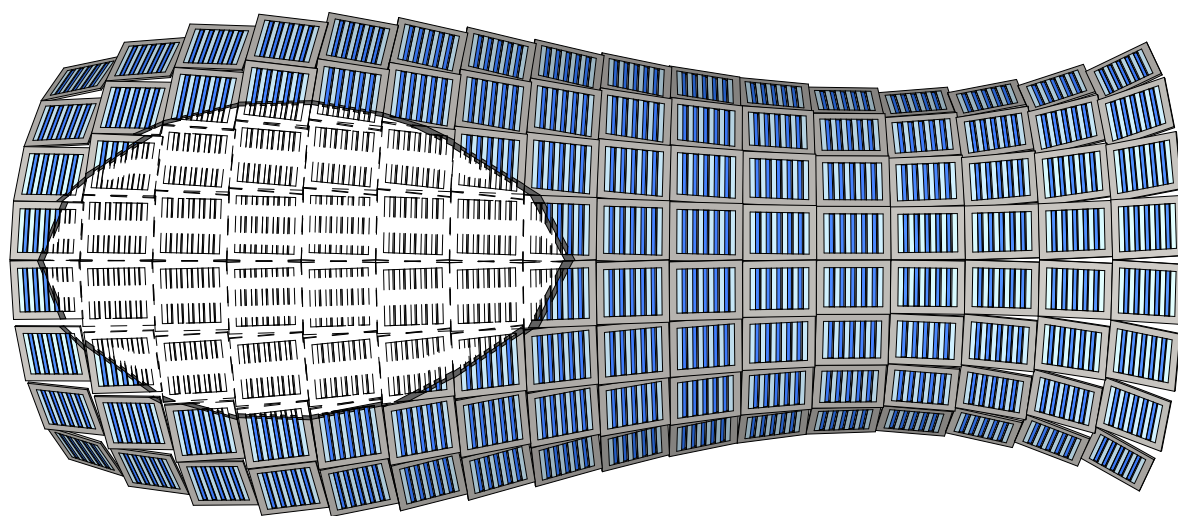
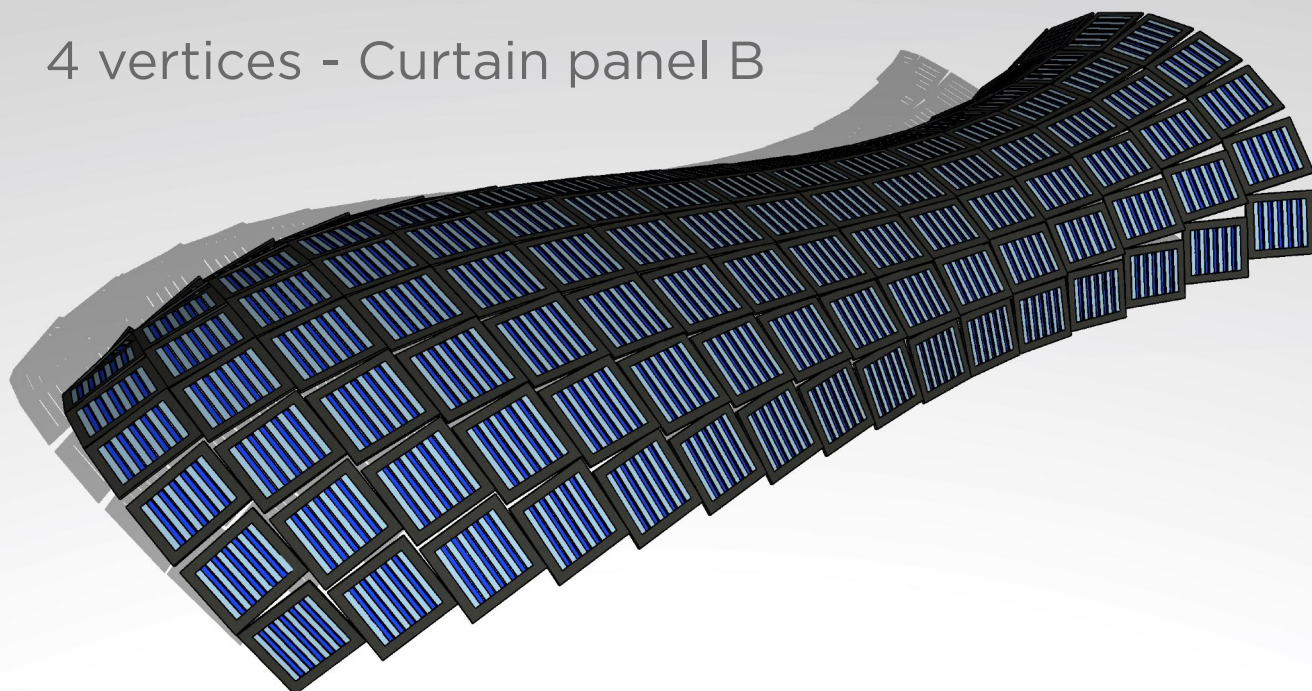
Frame ☐ Lino - Gray >

Panel A ☐ Paint - Gold... >

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# Panel types

4 vertices - Curtain panel B



# Panel types Interface

## 4 vertices - Frame panel

ArchiRADAR  > Type by MVO ☐ Curtain B (34) >

105,00 > 8,00 >

4,00 > 2550,00 > 30,00 >

8,00 > 0,00 >

Details by MVO ☐

**Common parameters**

Regularize ☐ Rounding ☒ 5,00 >

Panel Mirrored ☐

Opening % Manual ☐ 15 >

Opening Min 0 > Max 80 >

Orientation 4 >

Frame

Panel A

Panel B

■ Lino - Gray >

■ Paint - Gold... >

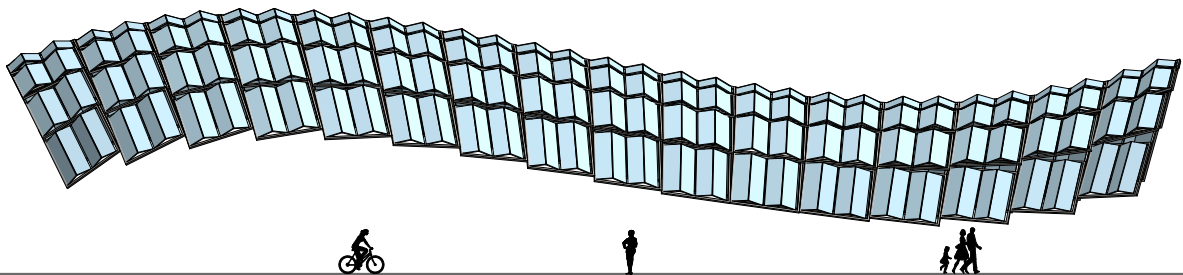
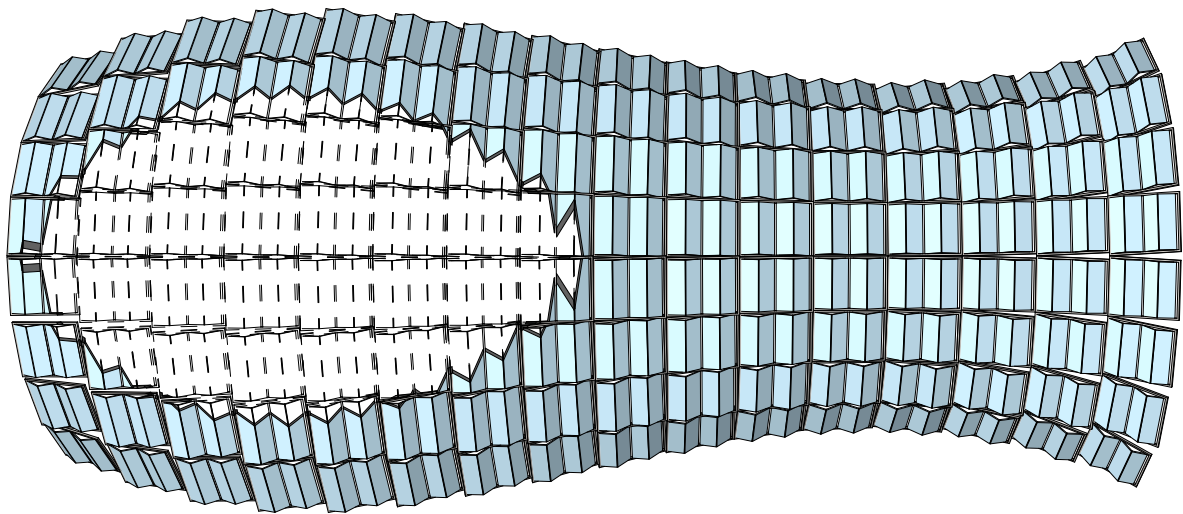
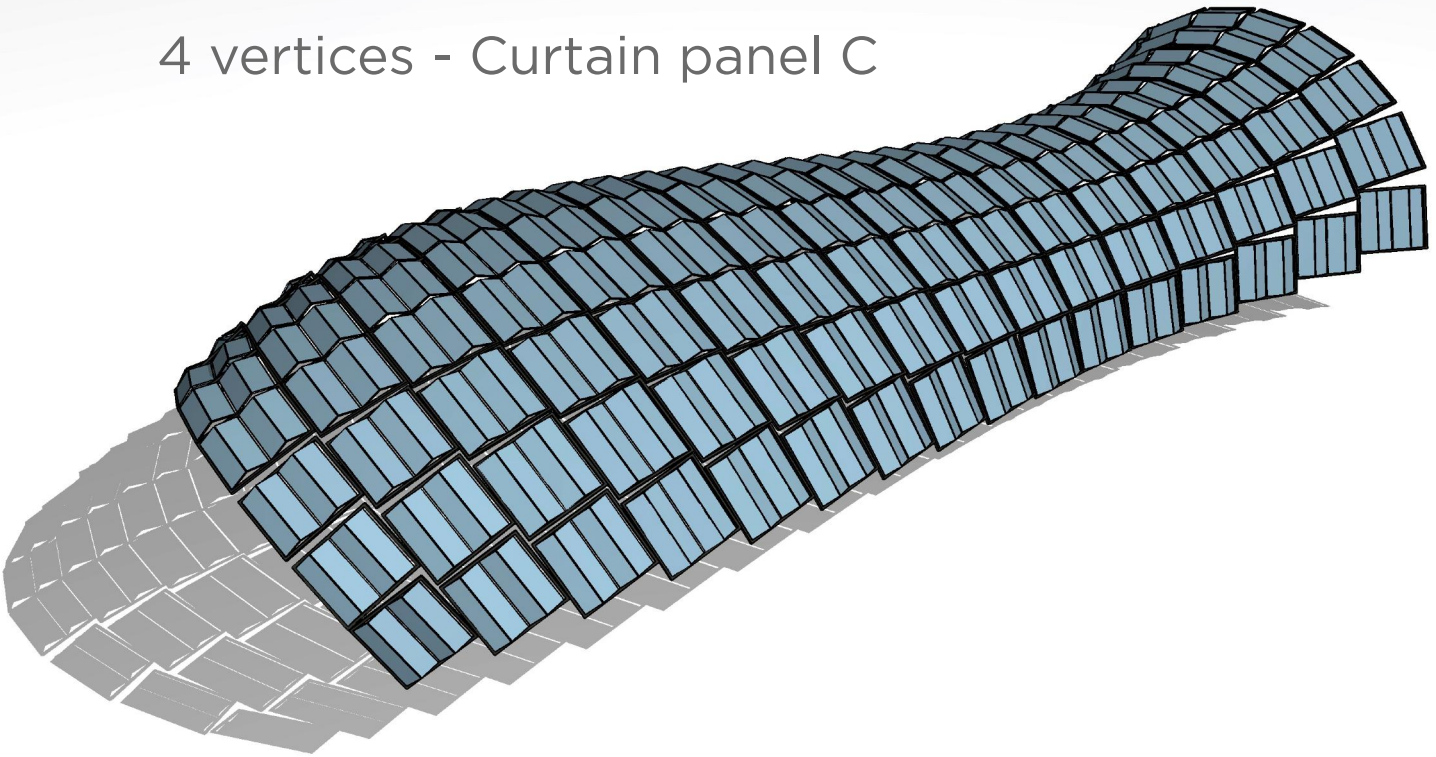
■ Paint - Royal... >

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# Panel types

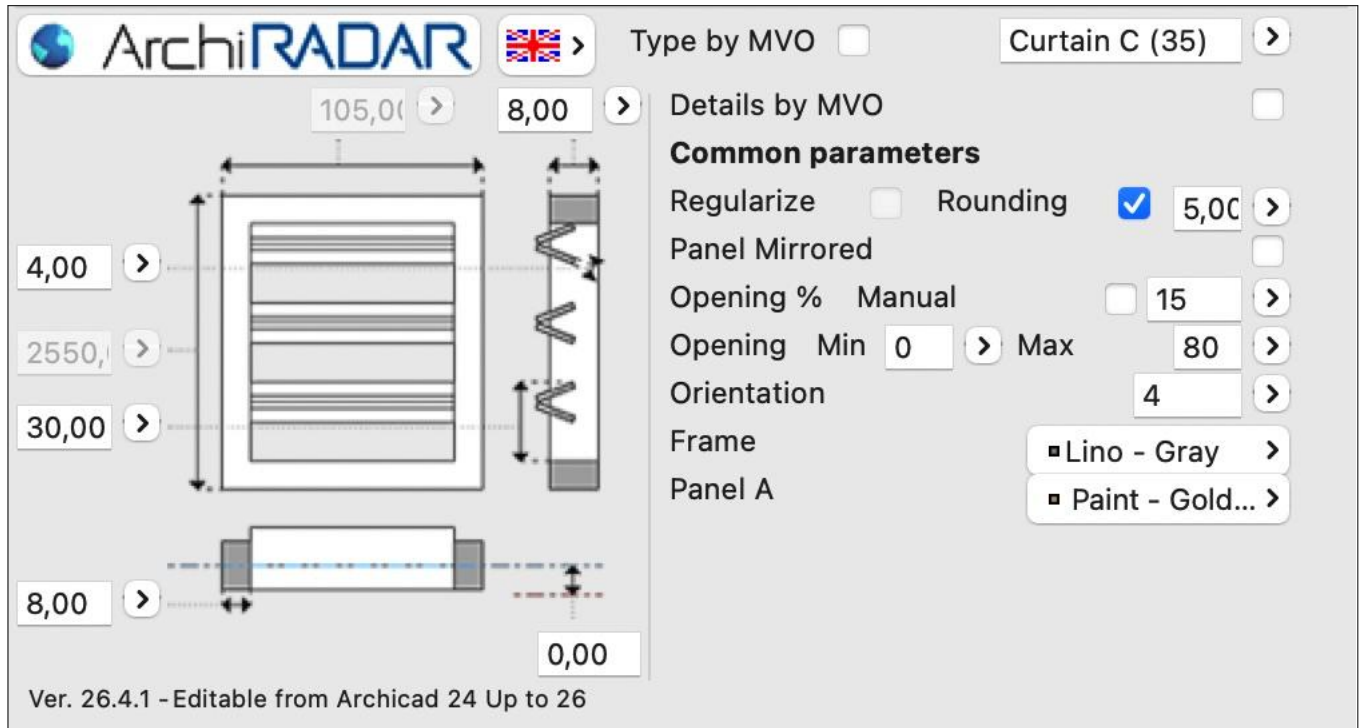
4 vertices - Curtain panel C





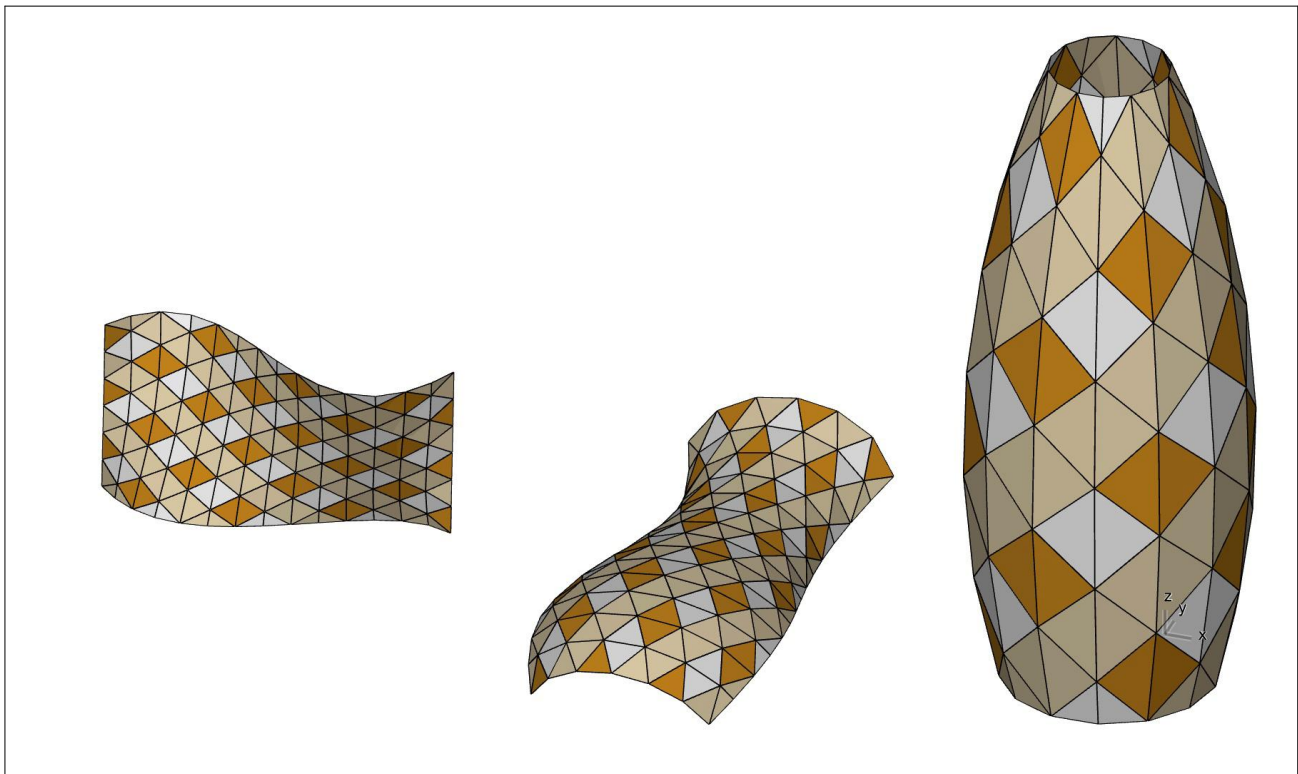
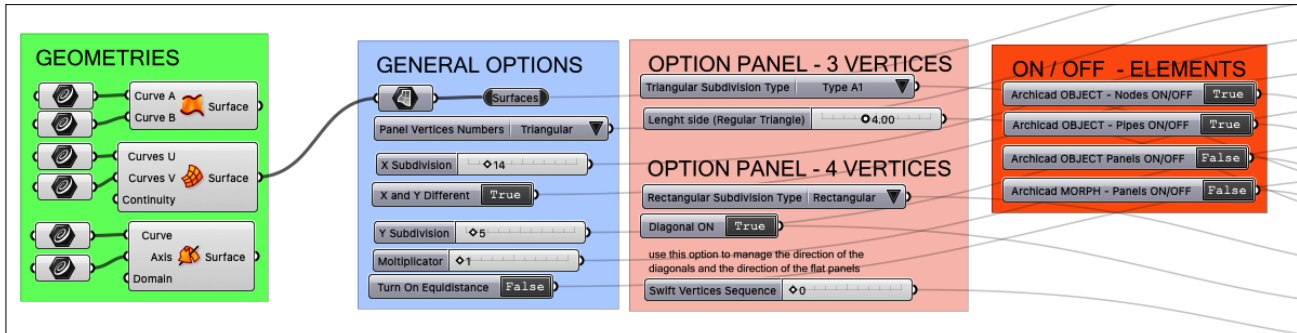
# Panel types Interface

## 4 vertices - Frame panel



## Example - 01

## Shapes from Curve and Surface in Rhinoceros



English

- 1 - Open Archicad file, Rhinoceros file and Grasshopper file
- 2 - Check if the library "AR Responsive Panel is loaded" in the Library Manager in Archicad
- 3 - Start the connection and changes the connector in Grasshopper to choose different shape;



Italiano - Italian

- 1 - Apri i file Archicad, Rhinoceros file e Grasshopper
- 2 - Controlla che la libreria "AR Responsive Panel" sia caricata nel Gestore Libreria di Archicad
- 3 - Avvia la Connessione e modifica i connettori in Grasshopper per scegliere fra le diverse forme disponibili.