Instructions

"**Trimoterm BIM tool**" is a list of elements (FTV-Frame, FTV-Element and FTV Window-Door) working inside the Curtain Wall tool in Archicad. With this tool, two schedule lists can be created (CW-FTV frames, CW-FTV panels), which are sent in "excel" format by email enquiry@trimo.eu, and we use these to provide you with a quote.

Contents of the Library:

Curtain Wall elements:

FTV-Frame - all frame types

FTV-Element - all "Main" panel types

FTV Window-Door - all "Distinct" panel types
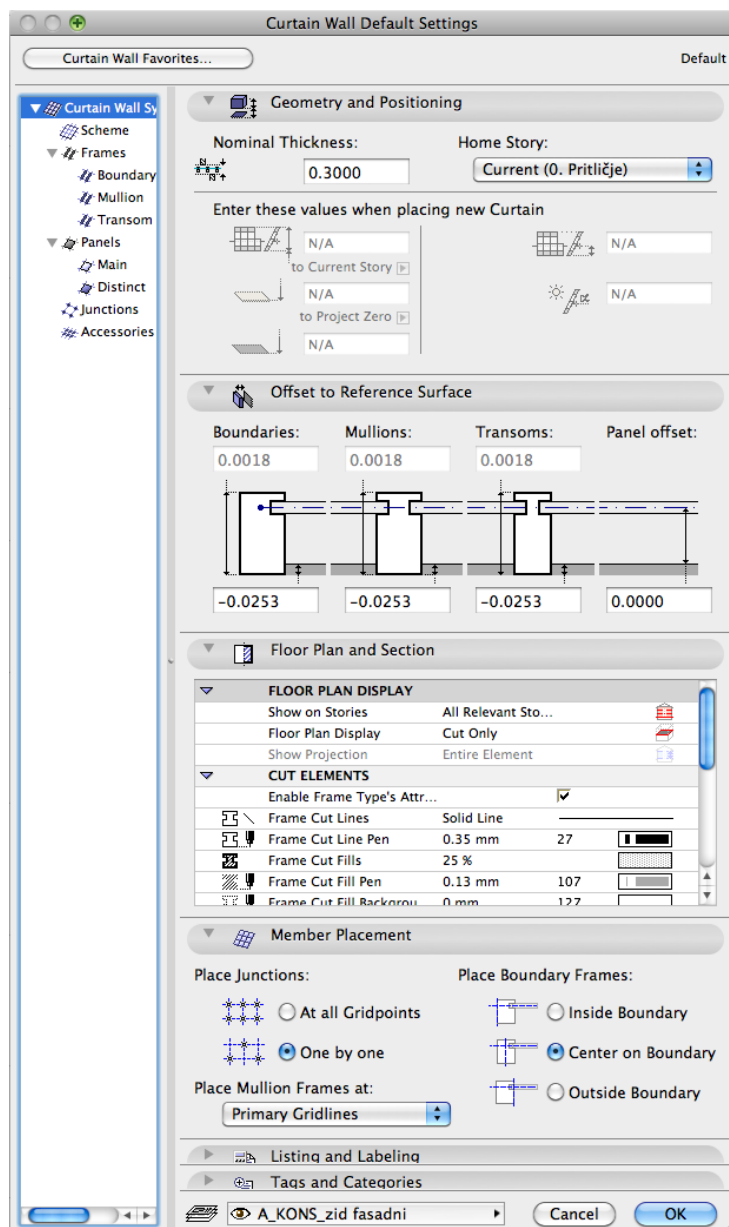
Object element:

SNV_Roof - Roof Accessories element

Curtain Wall tool - some basic principles

With this tool, we can create different grid structures.

Main grid (in Scheme) has "Primary Gridlines" and "Secondary Gridlines". "Secondary Gridlines" angle can be between 20 and 160 degrees (Rotation:).
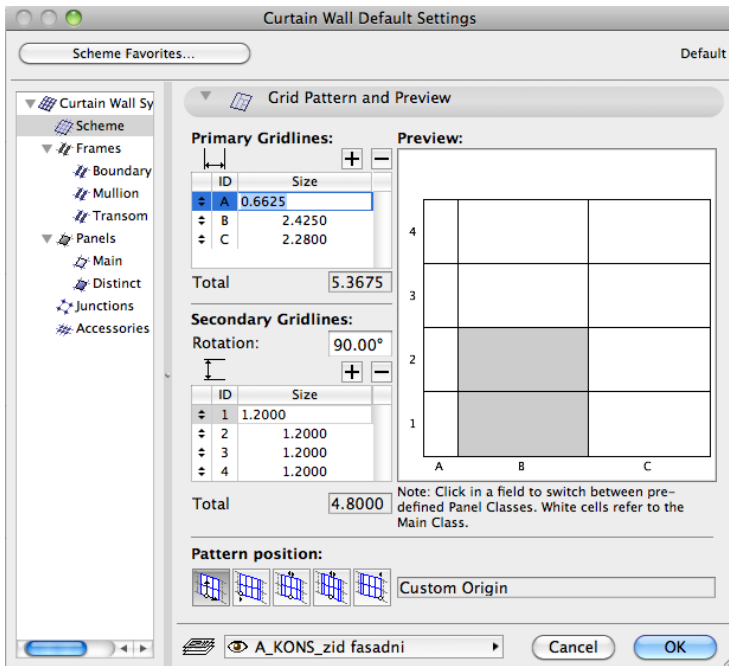
Using Trimoterm elements

Curtain Wall default settings

Reference surface is positioned on the outside edge of the facade elements.
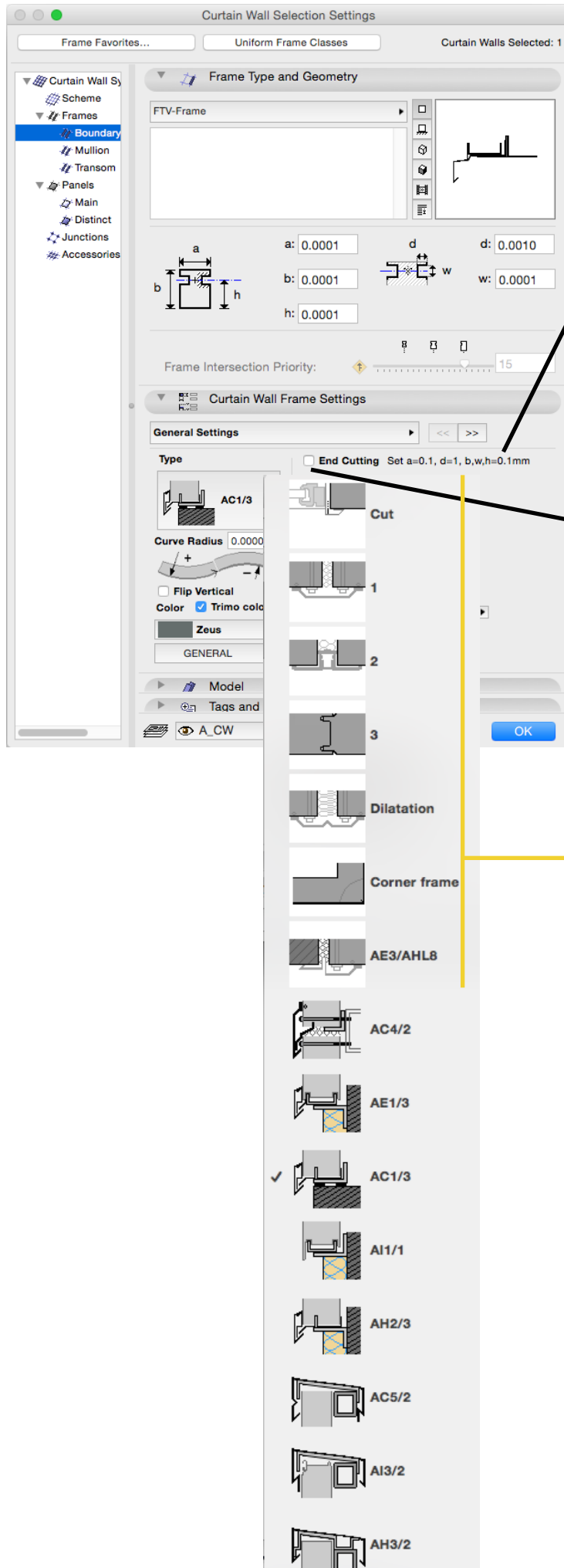Reference line can be anywhere. Set the Panel offset to 0.00 if the facade angle (alfa) is not 90º

Symbolic (Floor Plan Display) is much faster and more detailed.

Grid settings (Scheme)

Be aware of limitations in the element dimensions:
- length   min 530 mm, max 14000 mm
- high   min 600 mm, max 1200 mm

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Curtain Wall Default Settings

Scheme Favorites...   Default

Curtain Wall Sy
- Scheme
- Frames
  - Boundary
  - Mullion
  - Transom
- Panels
  - Main
  - Distinct
- Junctions
- Accessories

Grid Pattern and Preview

Primary Gridlines: **Preview:**

ID	Size
A	0.6625
B	2.4250
C	2.2800

Total   5.3675

Secondary Gridlines:
Rotation: 90.00°

ID	Size
1	1.2000
2	1.2000
3	1.2000
4	1.2000

Total   4.8000

Note: Click in a field to switch between pre-defined Panel Classes. White cells refer to the Main Class.

Pattern position:

Custom Origin

A_KONS_zid fasadni   Cancel   OK

Frame settings
-FTV-Frame
is the only frame element is in the Trimotem library (for all Types of frame elements -Boundary, Mullion and Transom)
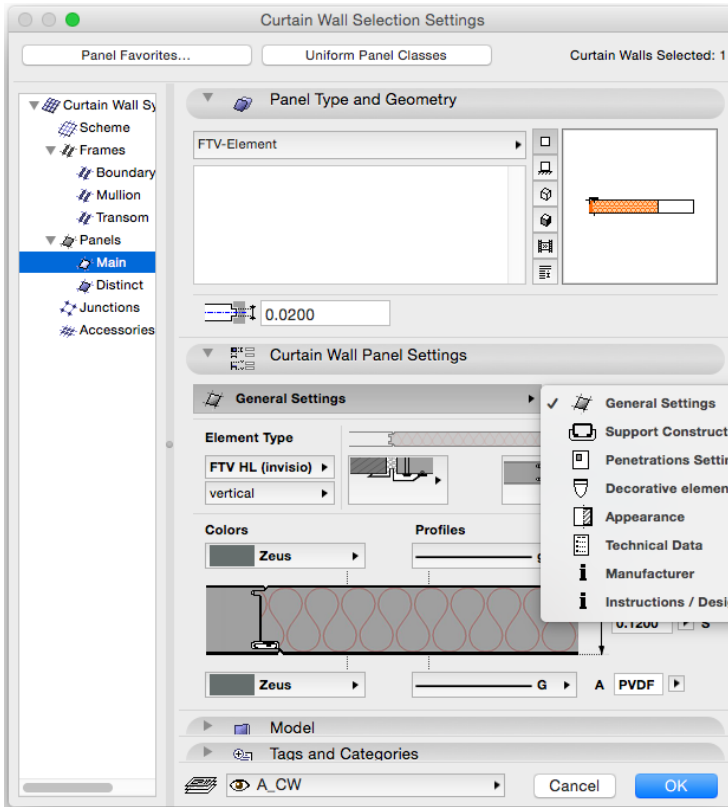
-how to set "a", "b", "h", "d" and "w" parameters

For "Cutting" parameters we are also able to move the hotspot in 3D
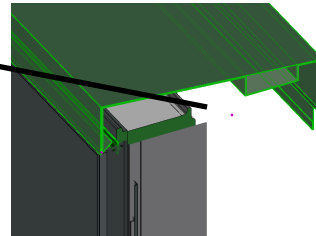
Frame Types

-the Types on the white field are just for showing which is the right value in parameters "a", "b", "h", "d" and "w"

Panel settings
-FTV-Element
is the only panel element for the "Main" panels

-FTV Window-Door
is the only panel element for the "Distinct" panels

General Settings
-main parameters (thickness, colors, profiles)

Support Construction (HMP)
-support construction is part of the panel

Penetrations Settings
-9 penetrations can be set in each panel

Decorative elements
-type and position of decorative elements
-Start/End Boundary is part of the decorative elements

Appearance
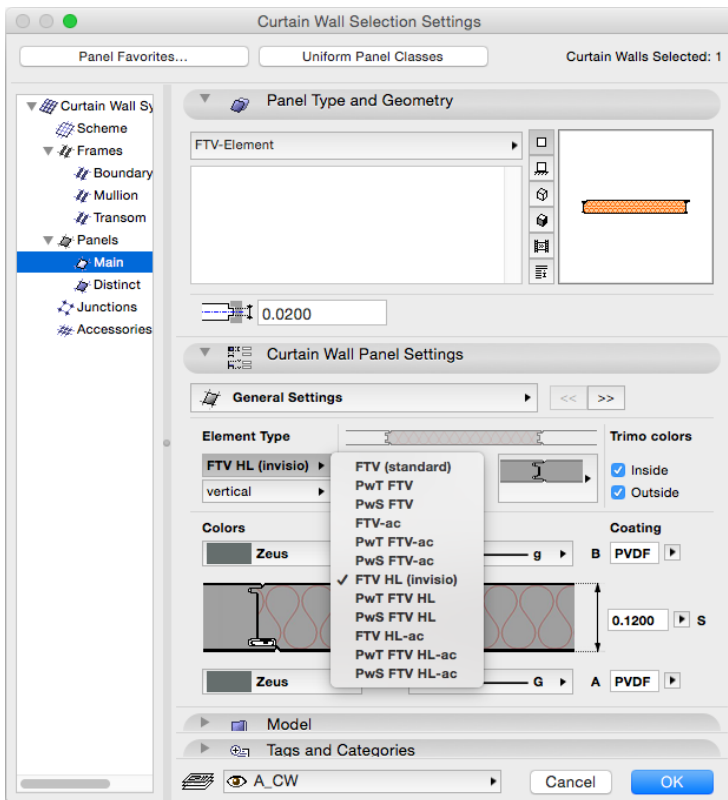-floor plan/section/3D apperance (fills, pens, resolution in 3D)

Technical Data
-technical data, certificates and standards

Info
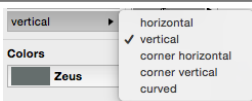-manufacturer

Instructions
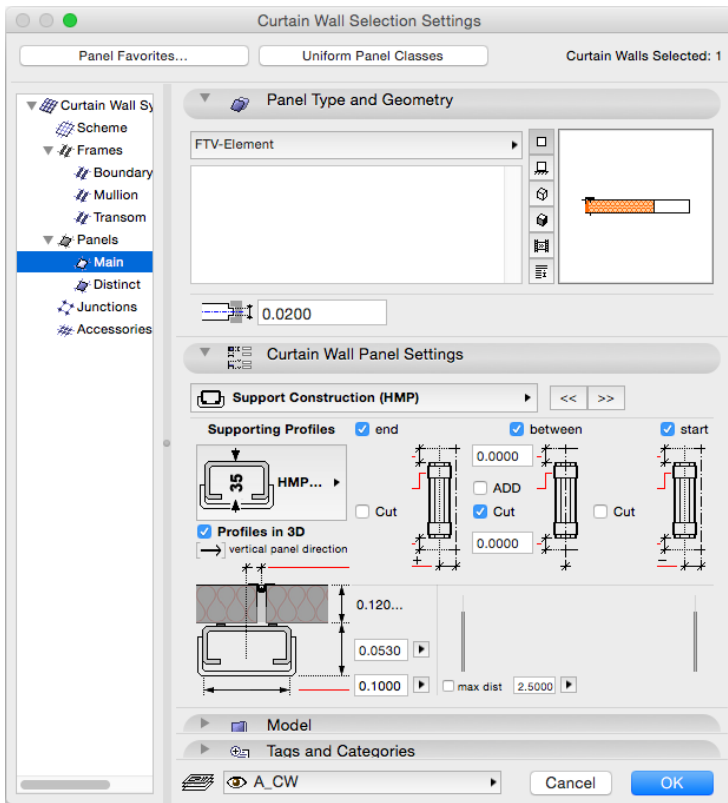-how to use the element

General Settings
-first we choose the Type of element
     "**Technical Data**" is showing full name of the panel type
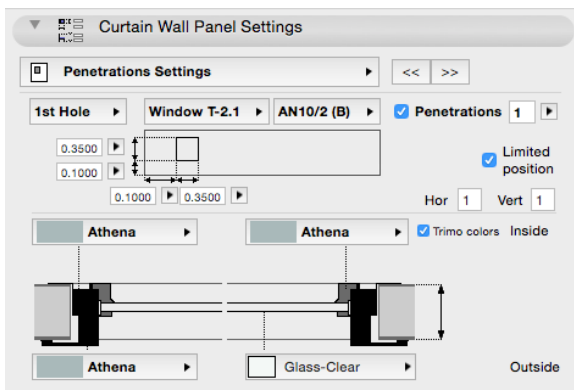

General Settings
-pozition (horizontal, vertical…)

Panel settings

Support Construction (HMP)
-support construction is part of the panel
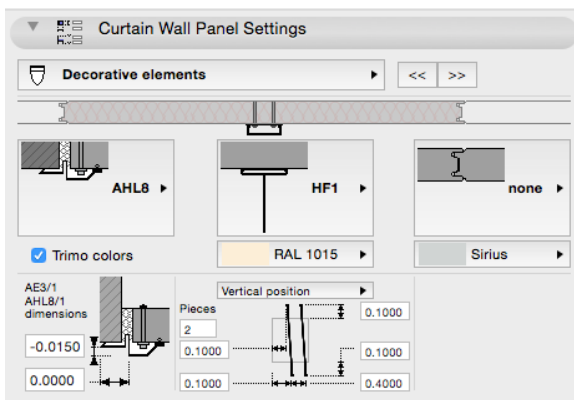(Symbolic Floor Plan Display)

Penetrations Settings
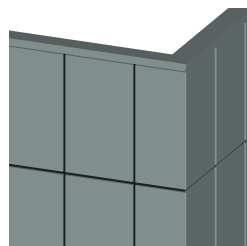-9 different penetrations can be set in each panel

<u>if we choose "Limited position"</u>
-at least half of the hole is inside the panel
-maximum half of the hole can be outside the panel
dimensions

Decorative elements
-type and position of decorative elements
-Start/End Boundary is part of the decorative elements

Set the Frame on the corner to "Invisible" with d=0. Corner elements on both side of the corner, must have the same "C-ID".

Schedules

By IMPORTING ".xml" files in the "Scheme Settings", **two schedule lists can be created (CW-FTV frames, CW-FTV panels) . After importing they appear in the Navigator.**

In "Project Preferences" Linear Dimensions must be set in mm
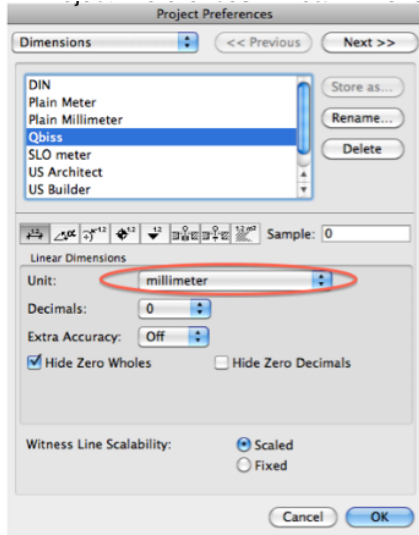
CW-FTV frames (Linear Dimensions in mm) (send in excel format to "enquiry@qbiss.eu")									
Thickness (S)	Left/Upper/Lower edge	Right edge	Decorative	Color(sheet)	Radius	Length	HMP/width/depth	Sub KONS distance	Sub KONS Length
120									
		---	---	RAL 1015	0	80		0	0
									1
		---	---	RAL 1015	0	1000		0	0
	A4 L=1200, sheet 1200/178			RAL 9007	1 000	1200	HMP B-35/100/35	43	1 200
									6
	A4 L=1200, sheet 1200/178			Sirius	1 000	1200	HMP B-35/100/35	43	1 200
									1
	A4 L=176, sheet 176/178			Sirius	1 000	176	HMP B-35/100/35	43	520

| CW-FTV panels (Linear Dimensions in mm) (send in excel format to "enquiry@qbiss.eu")															
Panel	Corner Angle	Radius	Height (M) Window (H2)	Length (R) Window (W2)	3D front View	Outside Color (A)	Inside Color (B)	Decorative Color	profile A	profile B	Coating external	Coating internal	Corner ID	Penetrations Frame Outside Color	Penetrations Frame Inside Color	Penetrations Window Color
Door/AD2 , 120 , , ,																
	0.0000°	0	2 374	3 467					G	g	PVDF	PVDF		RAL 9007	Sirius	RAL 9007
																1
	0.0000°	0	2 374	3 985					G	g	PVDF	PVDF		RAL 9007	Sirius	RAL 9007
																1

Send both sheet in "excel" format by email to enquiry@trimo.eu.

SNV_Roof

SNV_Roof is an object. It work as the "Roof Accessories" element. It can be add to any "Single Plan Roof".

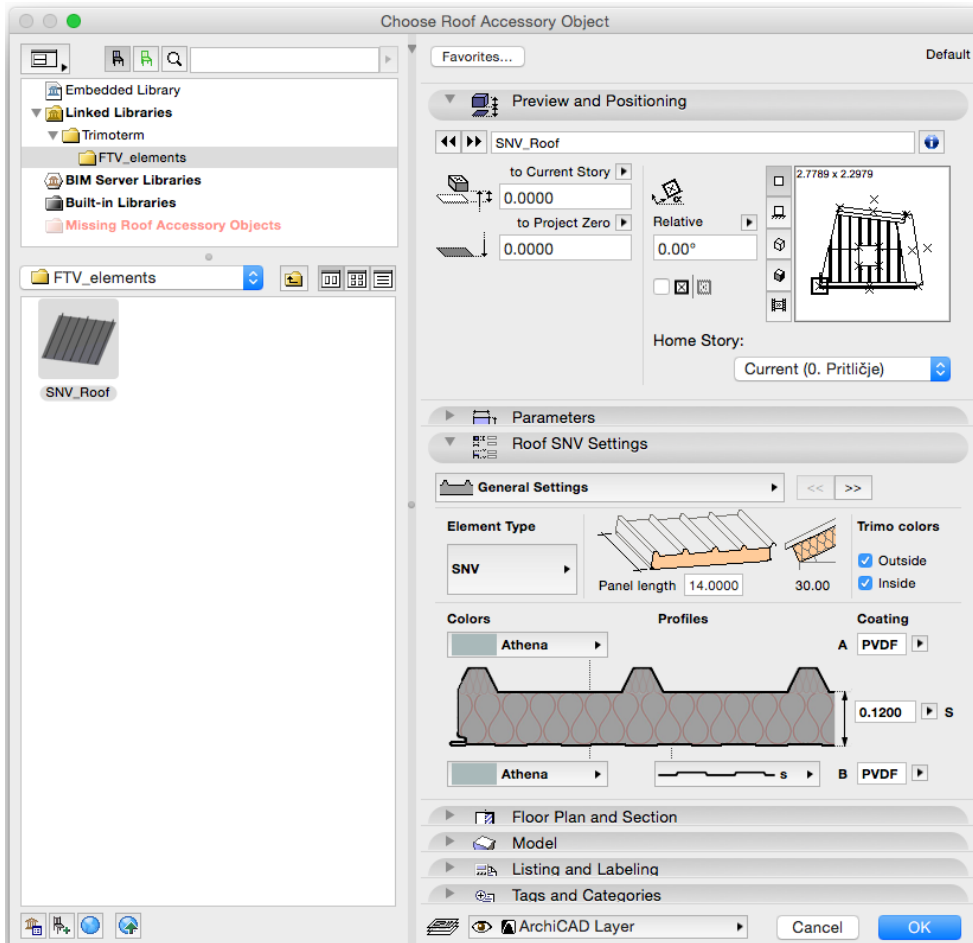First the "Accessories" has to be installed. (Graphisoft/Downloads/Goodies/Accessories)

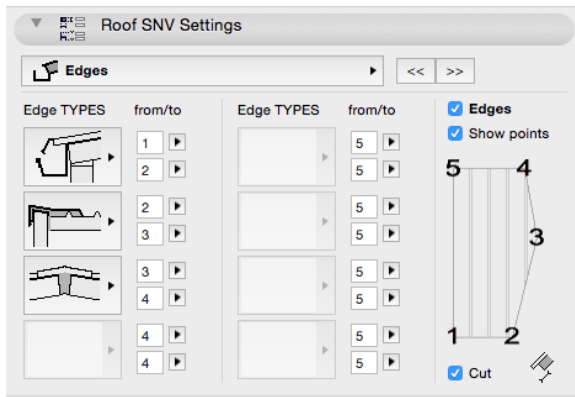After installation the "Roof Accessories" appear in the Design menu.
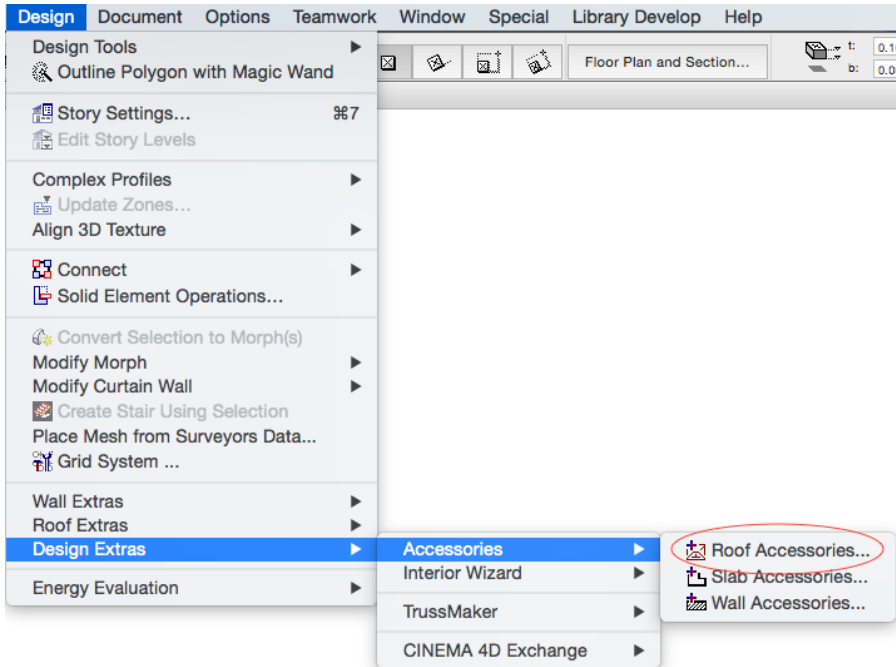
Create "Single Plan Roof". For the roof thickness we recommend 0.1 mm.

Select this roof and choose "Roof Accessories" from the Design menu.

Then choose "SNV_Roof" object.

On the edges of the object, 8 different type of edges can be used.

By IMPORTING "SNV.xml" file in the "Scheme Settings", **schedule lists can be created as well.**

Navodila za uporabo

Elementi (FTV-Frame, FTV-Element and FTV Window-Door) "**Trimoterm BIM"** delujejo znotraj Curtain Wall orodja v Archicad-u in izkoriščajo možnosti, ki jih le ta ponuja.

S tem orodjem kreiramo dva izpisa (CW-FTV frames, CW-FTV panels). Shranimo ju v "excel" format in pošljemo na email enquiry@trimo.eu, da dobimo ustrezno ponudbo.

Vsebina knjižnice:

FTV-Frame - all frame types (vsi tipi robnih elementov)
FTV-Element - all "Main" panel types (vsi tipi glavnih panelov)
**FTV Window-Door** - all "Distinct" panel types (vsi tipi oken in vrat)

Curtain Wall orodje - nekaj glavnih značilnosti

Orodje nam omogoča oblikovanje rastriranih struktur. Te so lahko vertikalne, nagnjene pod kotom in horizontalne. Vertikalne lahko rišemo v tlorisu zamaknjeno (tvorimo vogale), nagnjene in horizontalne so lahko le v eni ravnini. Raster (določamo v Scheme) tvorijo "Primary Gridlines" in "Secondary Gridlines". Kot med njimi je lahko med 20 in 160 stopinjami (Rotation:).
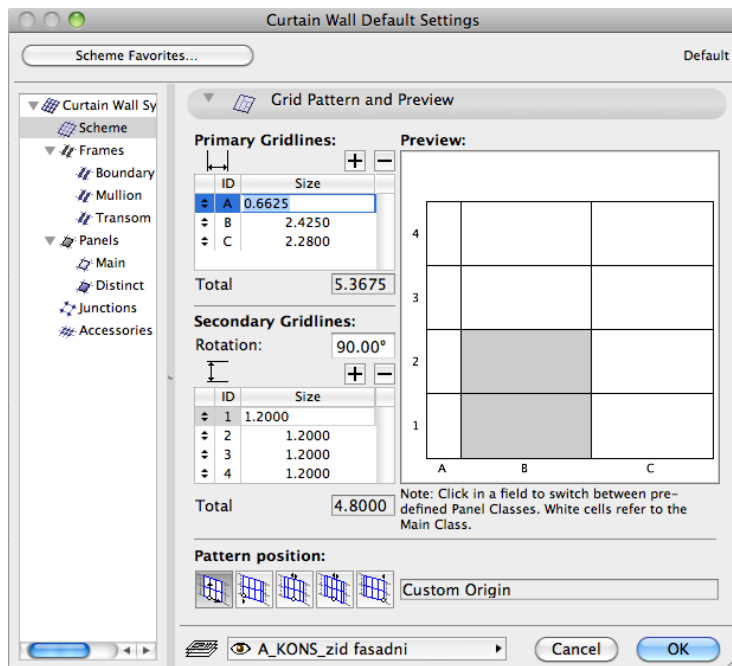
Uporaba Trimoterm elementov
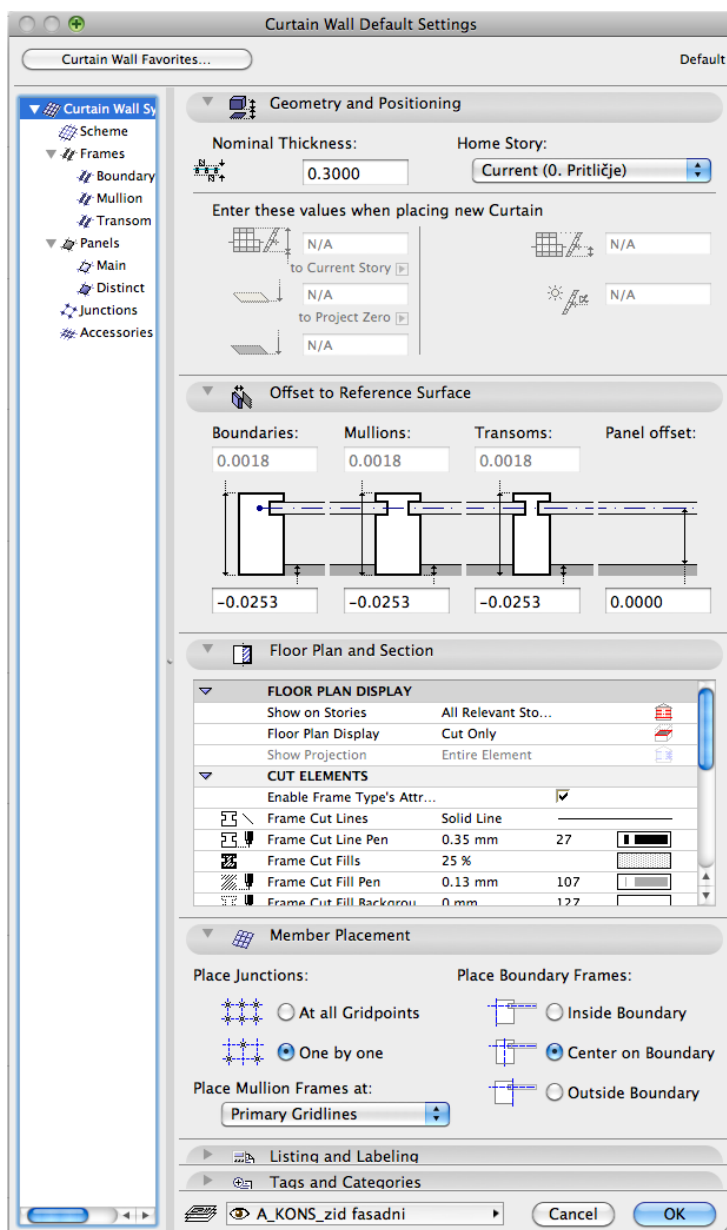
Glavne nastavitve v Curtain Wall orodju

Referenčna ravnina je na zunanjem robu fasadnih elementov.
Odmik referenčne linije je lahko kjerkoli. Pri zvrnjenih fasadah priporočamo naj bo odmik referenčne linije 0.00(Panel offset:).
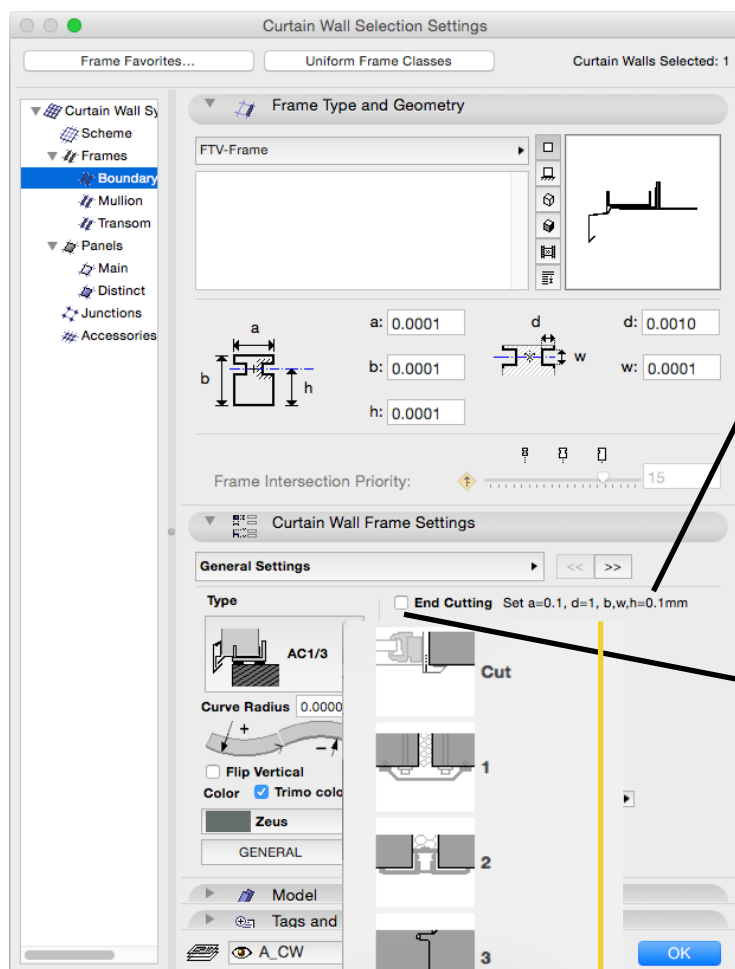
Symbolic (Floor Plan Display) je hitrejši in veliko bolj natančnejši prikaz

Nastavitve rastra

Upoštevajte, da so dimenzije elementov:
-dolžina   min 530 mm, max 14000 mm
-višina   min 600 mm, max 1200 mm

Nastavitve "Frame" elementov
-FTV-Frame
-za vse "Frame" elemente uporabimo "FTV-Frame"
-znotraj tega elementa imamo na izbiro vse tipe obodnih elementov, ki jih rabimo pri Trimoterm sistemu

-kako nastaviti parametre "a", "b", "h", "d" and "w"

-pri vključitvi "End Cutting" dobimo možnost raztegovanja in prirezovanja elementa, kar lahko izvajamo tudi z dinamičnimi točkami v 3D oknu
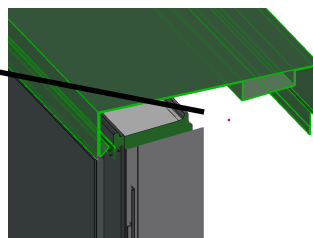
Tipi "Frame" elementov

-tipi na belem polju nimajo 3D vsebine in nam samo pokažejo, kako nastaviti parametre:
"a", "b", "h", "d" in "w"
z njimi dosežemo pravilne odmike med posameznimi paneli

-tudi pri ostalih tipih je potrebno pravilno namestiti te parametre
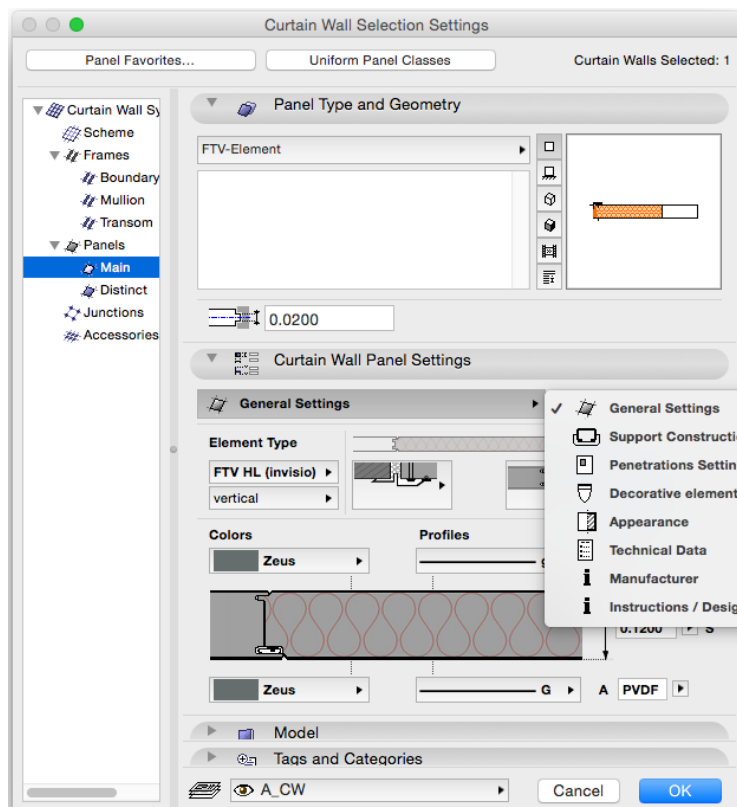
Nastavitve "Panel" elementov
-**FTV-Element**
uporabimo pri vseh "Main" panelih

-**FTV Window-Door**
uporabimo pri vseh "Distinct" panelih

General Settings
-glavne nastavitve (debelina, barve, profili)
Support Construction (HMP)
-podkonstrukcija (HMP) je del panela
Penetrations Settings
-9 prebojev lahko določimo na vsakem panelu
Decorative elements
-tipi in pozicija dekorativnih elementov
-Zaključki so tudi del dekorativnih elementov
Apperance
-nastavitve prikaza elementa v tlorisu, prerezu
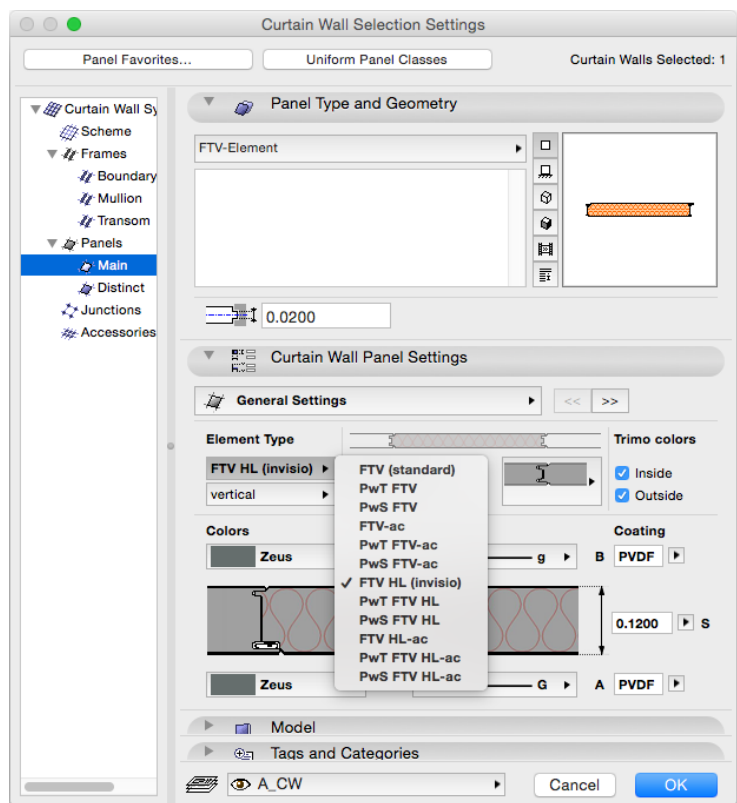in 3D (šrafure, peresa, resolucija v 3D)
Technical Data
-tehnične karakteristike elementa, certifikati in
standardi
Info
-podatki o proizvajalcu in povezave
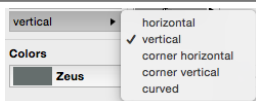**Instructions**
-navodila za uporabo elementa

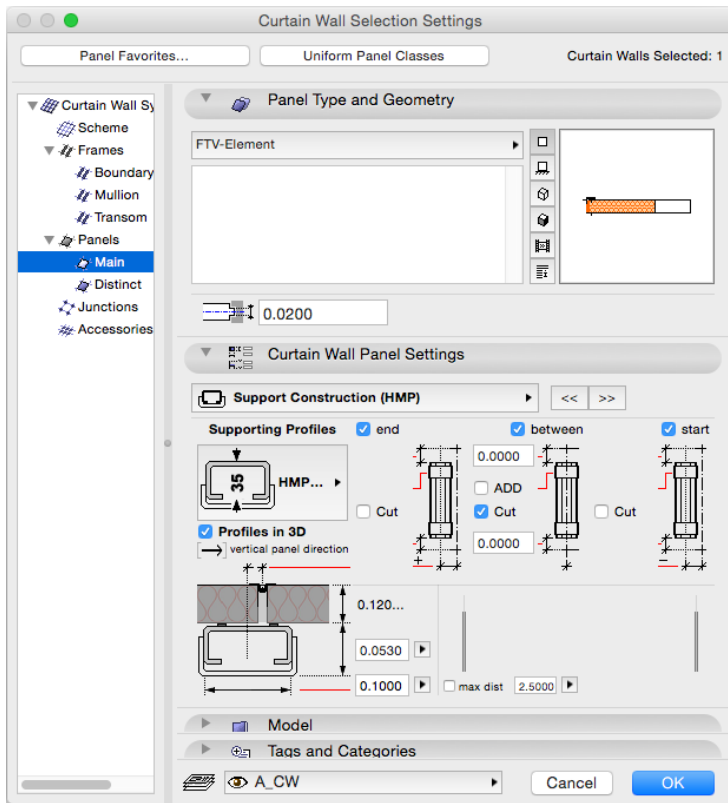**General Settings**
-najprej izberemo tip panela
        v tipih so uporabljene kratice za tipe panelov
        polno ime je prikazano v "**Technical Data"**
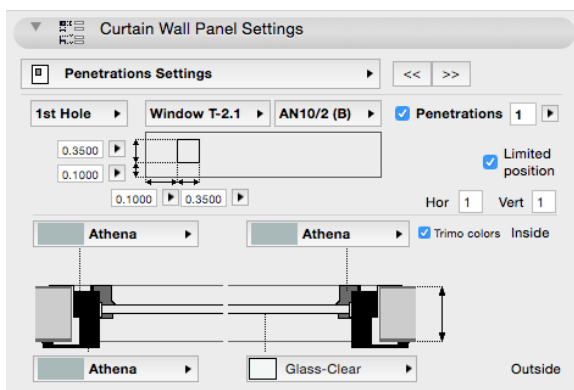

General Settings
-postavitev (horizontalna, vertikalna…)

Panel settings

Support Construction (HMP)
-podkonstrukcija (HMP) je del panela
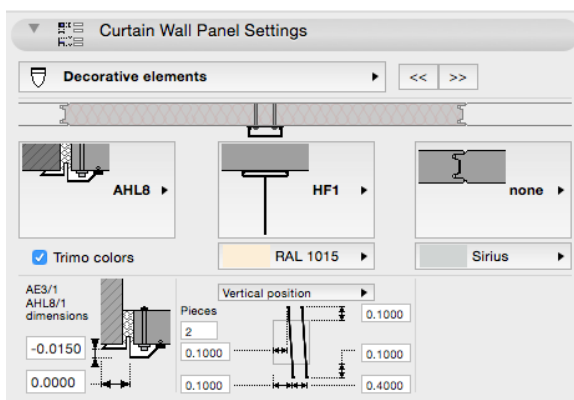(Symbolic Floor Plan Display)

Penetrations Settings
-9 različnih prebojev lahko določimo na vsakem panelu

"Limited position"
-ta nastavitev omogoča da se luknja ne izgubi nekje izven panela
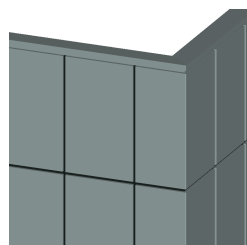-najmanj polovica luknje sega v panel

Decorative elements
-tipi in pozicija dekorativnih elementov
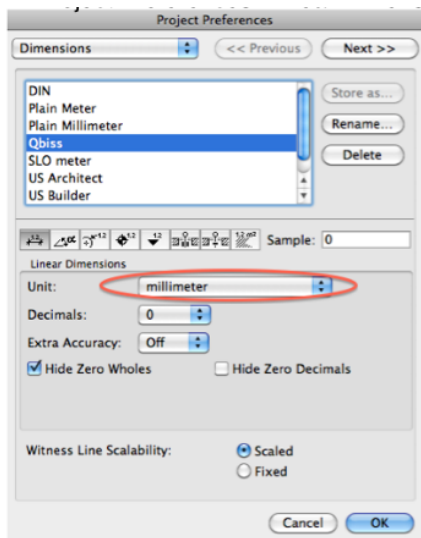-Zaključki so tudi del dekorativnih elementov

Frame na vogalu spremenimo v "Invisible" s parametrom d=0
Elementoma levo in desno od vogala vpišemo isti "C-ID"
Če stikujemo na vogalu dva Curtain Wall-a in želimo fuge "Frames" porezati po vogalu, uredimo to z "End Cutting" ali izberemo oba Curtain Wall-a in uporabimo komando "Create Common Frames

Schedules

Z uvozom (IMPORT) ".xml" dokumentov v "Scheme Settings", **dobimo možnost kreiranja dveh izpisov (CW-FTV frames, CW-FTV panels). Ko sta importirana v Archicad se pojavita v "Navigatorju".**

V "Project Preferences" Linear Dimensions naj bo nastavljeno na mm

Thickness (S)	Left/Upper/Lower edge	Right edge	Decorative	Color(sheet)	Radius	Length	HMP/width/depth	Sub KONS distance	Sub KONS Length
CW-FTV frames (Linear Dimensions in mm) (send in excel format to "enquiry@qbiss.eu")									
120									
		---	---	RAL 1015	0	80		0	0
									1
		---	---	RAL 1015	0	1000		0	0
	A4 L=1200, sheet 1200/178			RAL 9007	1 000	1200	HMP B-35/100/35	43	1 200
									6
	A4 L=1200, sheet 1200/178			Sirius	1 000	1200	HMP B-35/100/35	43	1 200
									1
	A4 L=176, sheet 176/178			Sirius	1 000	176	HMP B-35/100/35	43	520

| Panel	Corner Angle	Radius	Height (M) Window (H2)	Length (R) Window (W2)	3D front View	Outside Color (A)	Inside Color (B)	Decorative Color	profile A	profile B	Coating external	Coating internal	Corner ID	Penetrations Frame Outside Color	Penetrations Frame Inside Color	Penetrations Window Color
CW-FTV panels (Linear Dimensions in mm) (send in excel format to "enquiry@qbiss.eu")																
Door/AD2 , 120 , , ,																
	0.0000°	0	2 374	3 467					G	g	PVDF	PVDF		RAL 9007	Sirius	RAL 9007
																1
	0.0000°	0	2 374	3 985					G	g	PVDF	PVDF		RAL 9007	Sirius	RAL 9007
																1

Za pridobitev ponudbe pošljemo oba izpisa v "excel" formatu na enquiry@trimo.eu.

SNV_Roof

SNV_Roof je objekt. Deluje kot "Roof Accessories" element. Dodamo ga lahko na katerokoli "Single Plan Roof".

Za to moramo najprej namestiti "Accessories" v Archicad. (Graphisoft/Downloads/Goodies/Accessories)

Po namestitvi "Accessories" se nam pojavi "Roof Accessories" v Design meniju.
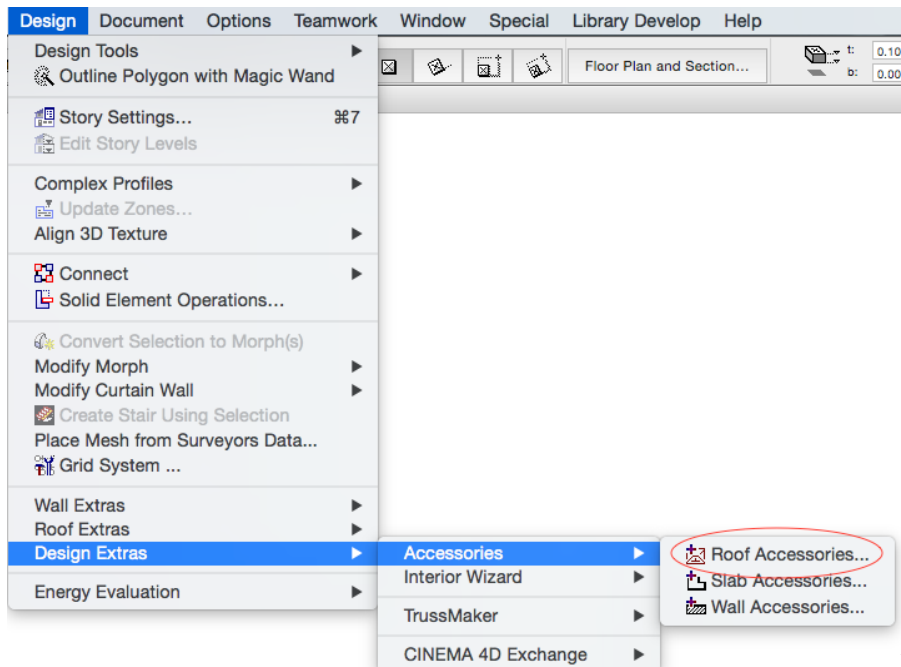
Naredimo "Single Plan Roof" (enokapno stereo z orodjem "Roof"). Za debelino strehe priporočamo 0.1 mm.

Izberemo to streho in aktiviramo komando "Roof Accessories" v Design meniju.

V oknu, ki se nato pojavi (Choose Roof Accessory Object) si izberemo "SNV_Roof" objekt.
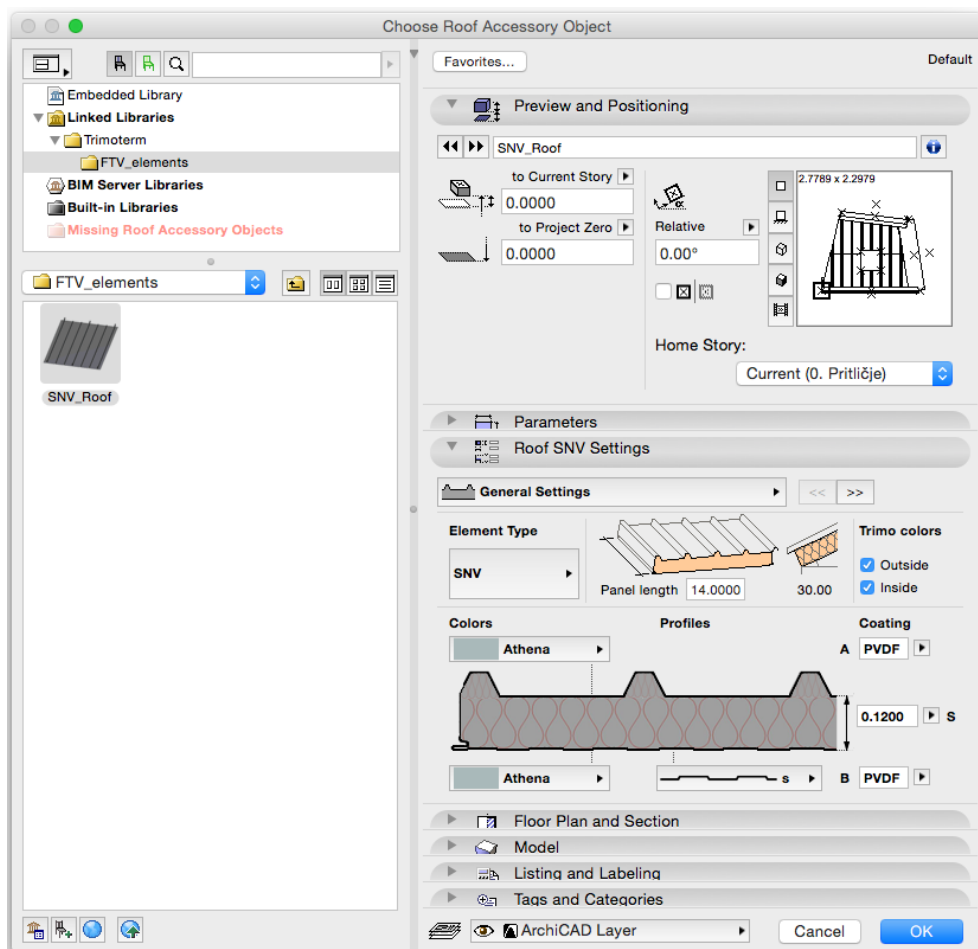
Na robovih tega objekta lahko določimo 8 različnih tipov (sleme, žleb…)
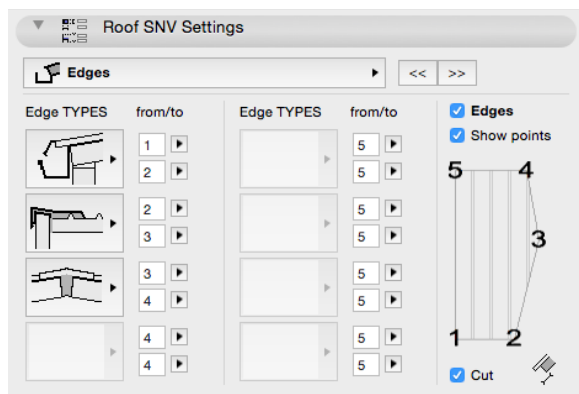
Z IMPORTiranjem "SNV.xml" dokumenta v the "Scheme Settings", **dobimo možnost kreiranja izpisa količin za strešne elemente.**