

Instructions

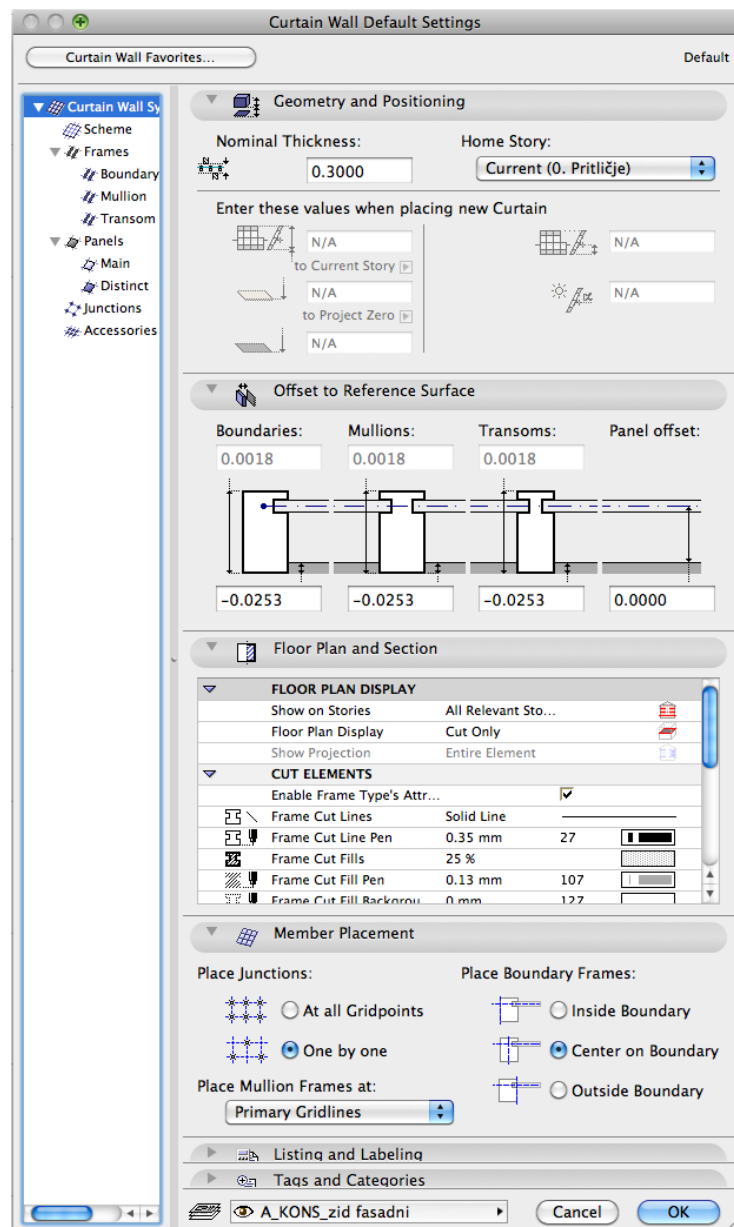
“Qbiss_One BIM tool” is a list of elements working inside the Curtain Wall tool in Archicad. With this tool, two schedule lists can be created (CW-Qbiss frames, CW-Qbiss panels), which are sent in “excel” format by email enquiry@qbiss.eu, and we use these to provide you with a quote.

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 Qbiss One elements

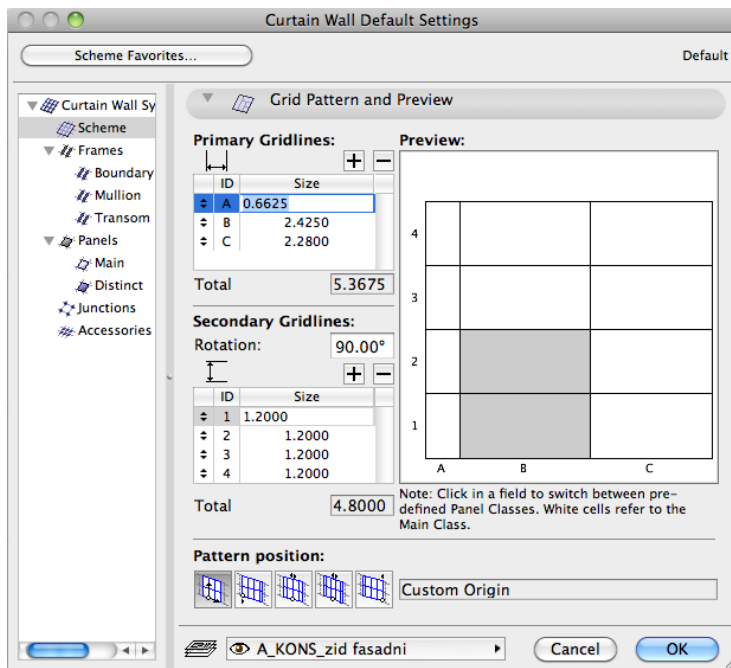


Curtain Wall default settings

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 90°

In the vertical installation method, change (Place Mullion Frames at:) on “Secondary Gridlines”.



Grid settings (Scheme)

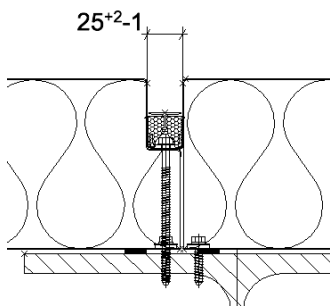
Be aware of limitations in the element dimensions:

- length min 530 mm, max 6500 mm
- high min 600 mm, max 1200 mm

Angle (Rotation:) of the "Secondary Gridlines" can be between 45° in 135°

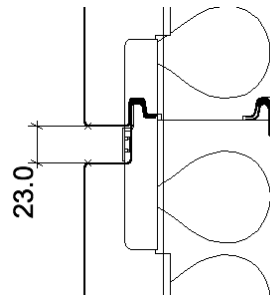
Connecting elements

In the Qbiss One system, two types of connectivity appear. The exact values of the Frame parameters "a" and "d" have to be set in certain situations.

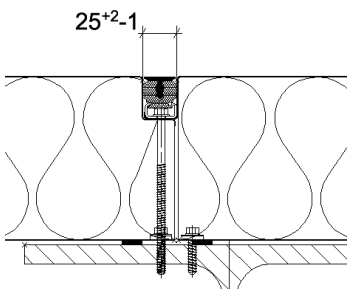


a = 25 mm
d = 24mm

B

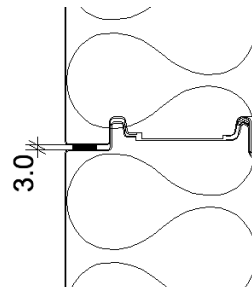


a = 23 mm
d = 37,5 mm

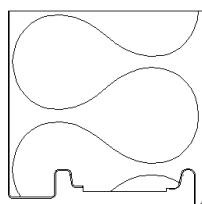


a = 25 mm
d = 24mm

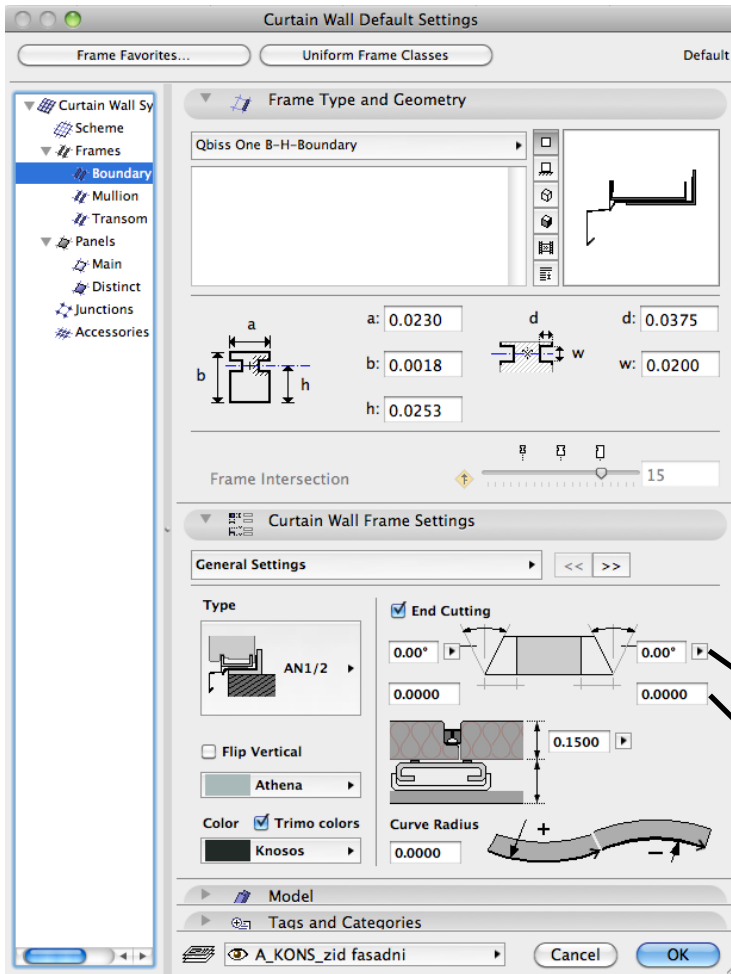
F



a = 3 mm
d = 17,5 mm



Where we cut through the element, d has to be set to 0



Frame settings

General Settings

-main parameters (thickness, colors, profiles)

Appearance

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

Technical Data

-technical data, certificates and standards

Info

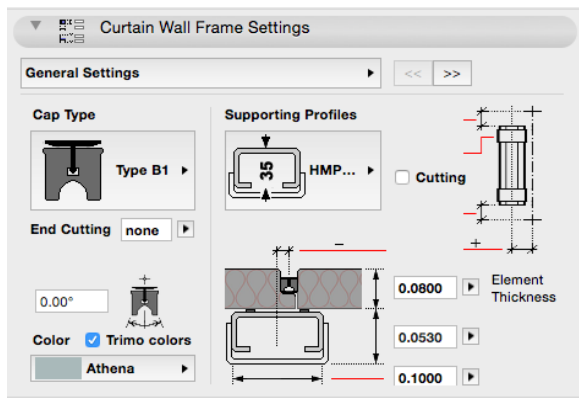
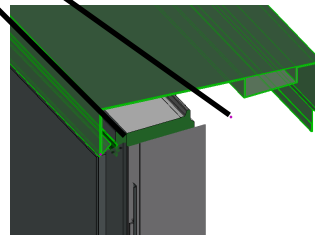
-manufacturer

Instructions

-how to use the element

-how to set "a", "b", "h", "d" and "w" parameters

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

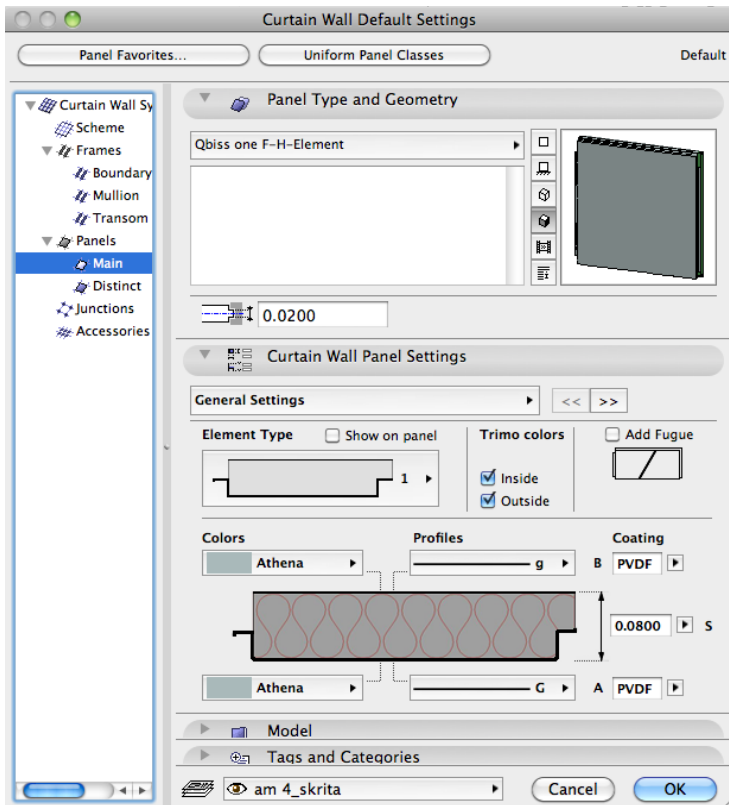


Mullion and Transome settings

General Settings

-use Supporting Profiles only in the "Vertical instalation"

-in the "Horizontal instalation" set the Supporting profiles in the panel settings



Panel settings

General Settings

-main parameters (thickness, colors, profiles)

Support Construction (HMP)

-in the horizontal panels, support construction is setting in the panel

-Start/End Boundary are part of the panel

Penetrations Settings

-two penetrations can be set in each panel

Appearance

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

Technical Data

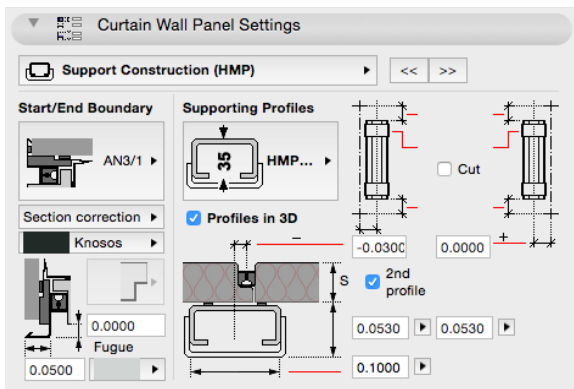
-technical data, certificates and standards

Info

-manufacturer

Instructions

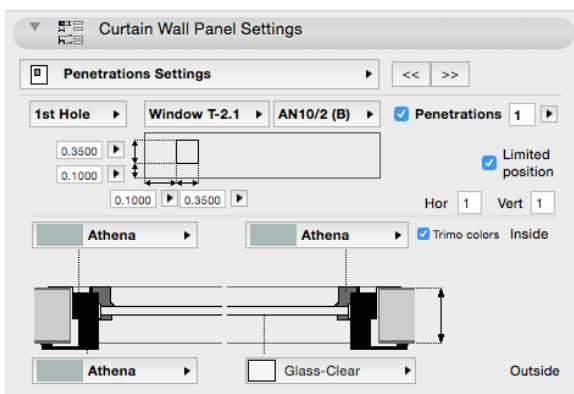
-how to use the element



Support Construction (HMP)

-in the horizontal panels, support construction is setting in the panel (Symbolic Floor Plan Display)

-Start/End Boundary are part of the panel



Penetrations Settings

-two penetrations can be set in each panel

if we choose 2 penetrations

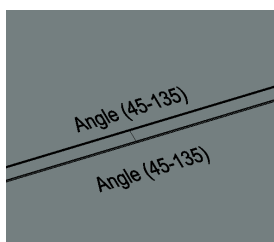
-1st Hole -setting first hole

-2nd Hole -setting second hole

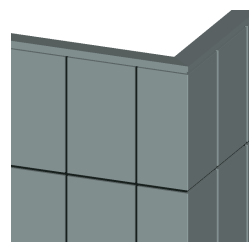
if we choose "Limited position"

-at least half of the hole is inside the panel

-maximum half of the hole can be outside the panel dimensions

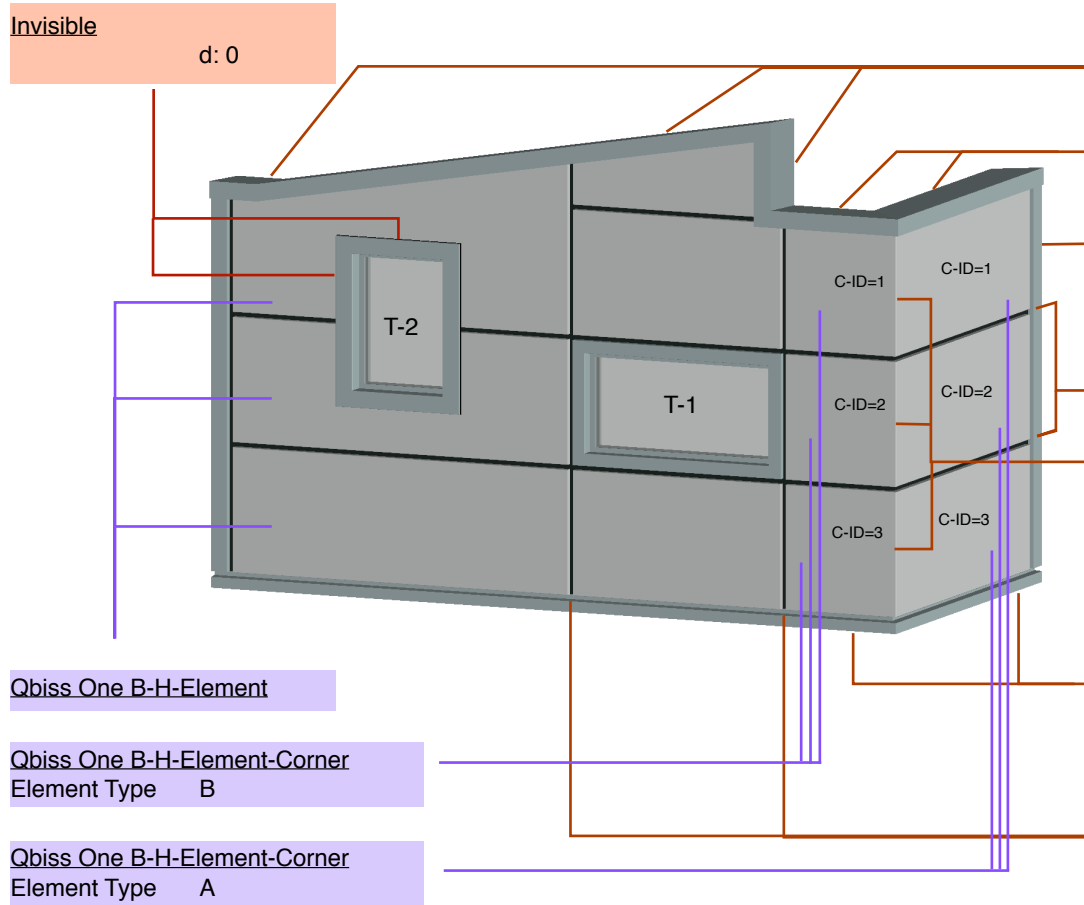


In the 3D window, we get a message, when the parameters exceed the



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".

Horizontal instalation



Qbiss One B-H-Boundary

Type	a: 23	d: 0
	AN5/3, AN5/4, AN5/5	
Type	a: 23	d: 37,5
	AN5/1, AN5/2	
Type	a: 25	d: 24
	AN3/1, AN3/2	

Qbiss One B-Frame

a: 23	d: 37,5
Cap Type	Type B2

Invisible

d: 0

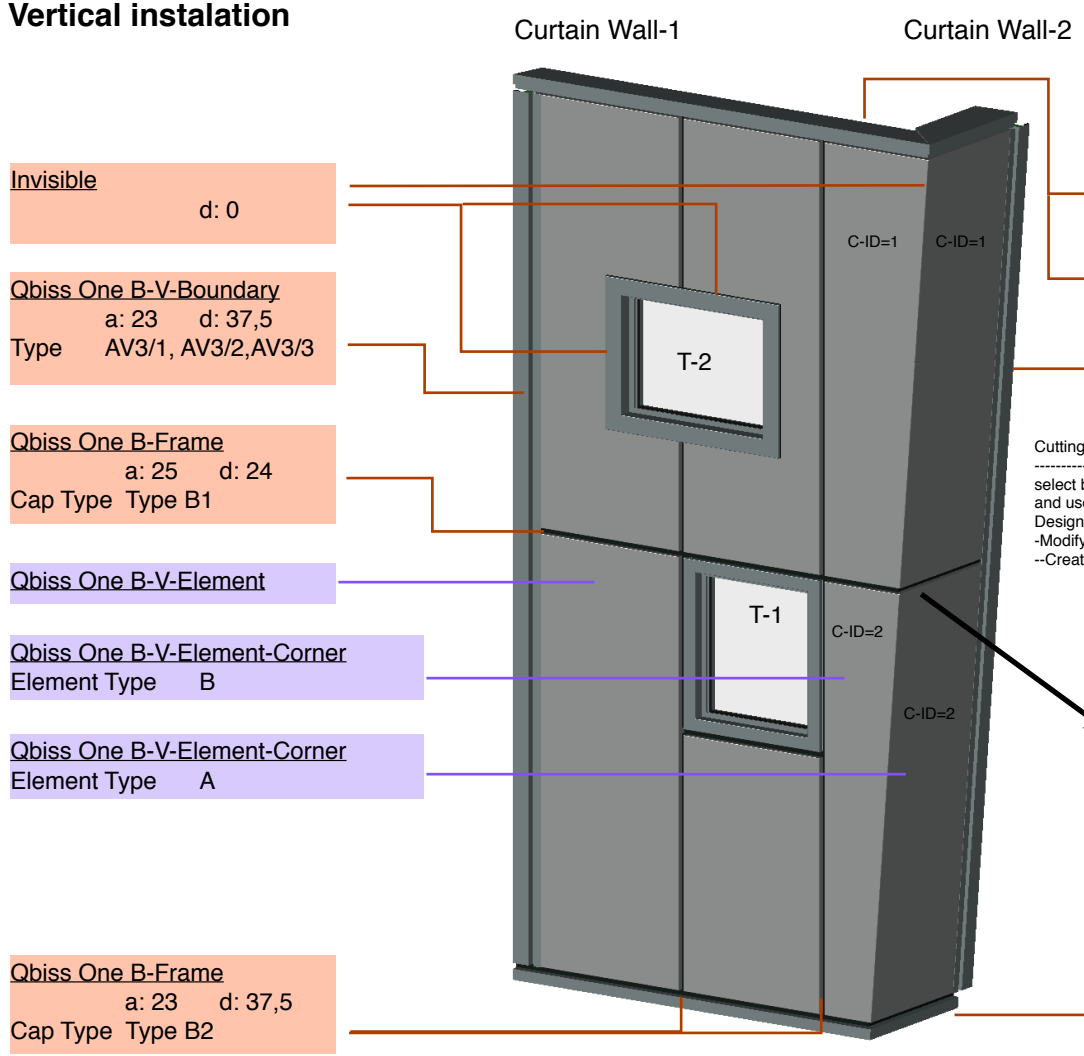
Qbiss One B-H-Boundary

Type	a: 23	d: 37,5
	AN1/1, AN1/2,	AN1/3, AN1/4

Qbiss One B-Frame

a: 25	d: 24
Cap Type	Type B1

Vertical instalation



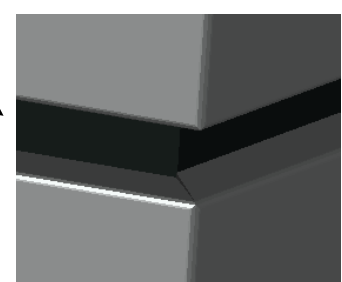
Qbiss One B-V-Boundary

Type	a: 25	d: 0
	AV5/3, AV5/4, AV5/5	
Type	a: 25	d: 24
	AV5/1, AV5/2	
Type	a: 23	d: 37,5
	AV3/1, AV3/2, AV3/3	

Cutting frames on the corner

-----option 1-----
 select both Curtain Walls
 and use command:
 Design
 -Modify Curtain Wall
 --Create Common Frames

-----option 2-----
 select "Frame" element
 and use parameter:
 End Cutting



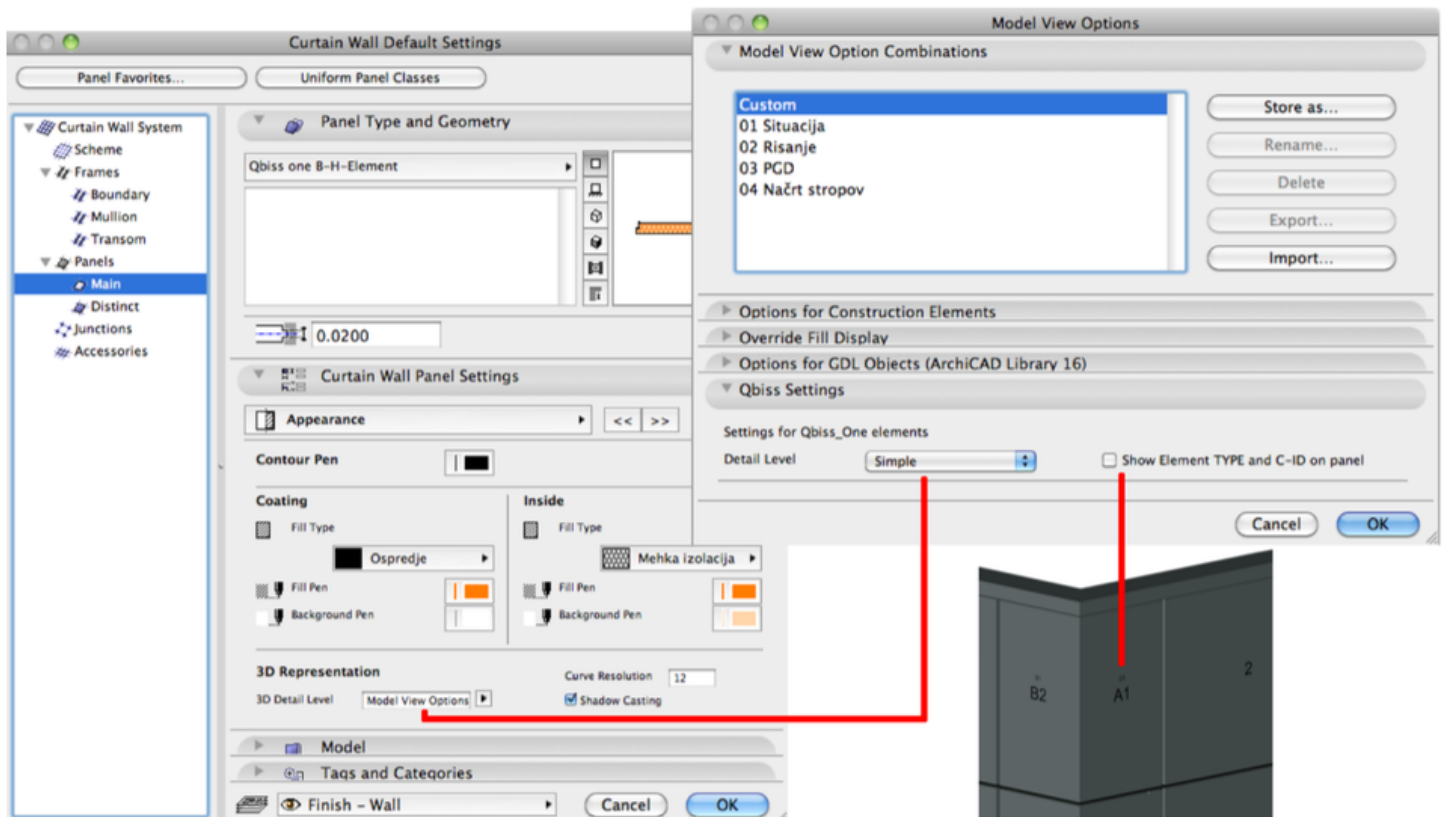
Qbiss One B-V-Boundary

Type	a: 25	d: 24
	AV1/1, AV1/2,	AV1/3

3D representation

Qbiss Settings in Model View Options

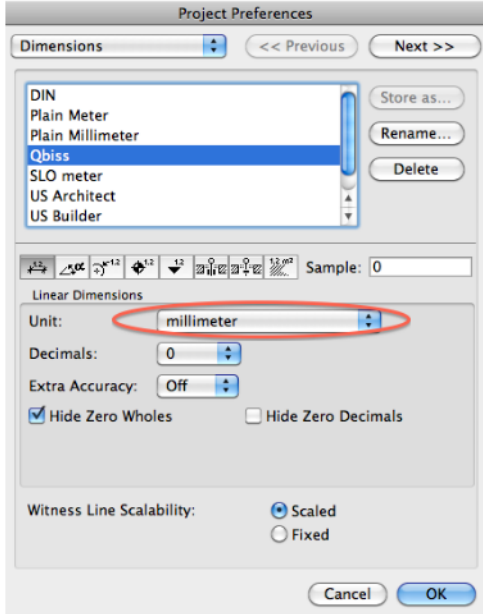
In **Model View Options** we can control the visibility of the “Element TYPE” and “Detail level”



Schedules

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

In “Project Preferences” Linear Dimensions must be set in mm



CW-Qbiss frames (Linear Dimensions in mm) (send in excel format to "enquiry@qbiss.eu")

Frame	Thickness (S)	Color(CAP)	Color(sheet)	Radius	HMP/width/depth	Sub KONS distance	Sub KONS Length	Length
AM1/1	80	Knosos	Athena	4 000		100	---	1 000
AM1/1	80	Knosos	Athena	4 000		100	---	1 000
AM1/1	80	Knosos	Athena	4 000		100	---	1 000
AM1/1	80	Knosos	Athena	4 000		100	---	1 000
AM1/1	80	Knosos	Athena	4 000		100	---	1 000
AM1/1	100	Knosos	Athena	0		100	---	1 000
AM1/1	100	Knosos	Athena	0		100	---	2 000
AM1/1	100	Knosos	Athena	0		100	---	2 000
AM1/1	150	Knosos	Athena	0		100	---	803
AM1/1	150	Knosos	Athena	0		100	---	1 000
AM1/1	150	Knosos	Athena	0		100	---	1 000

CW-Qbiss panels (Linear Dimensions in mm) (send in excel format to "enquiry@qbiss.eu")

Element	Thickness (S)	ELEMENT TYPE	WINDOW TYPE	Corner Cutting	Corner Angle	Corner Angle(C)	Extra fugue	Radius	Height (M) Window (H2)	Length (K) Window (W2)	Frontal View	Outside Color (A)	Fugue/Window Color	Inside Color (B)	profile A	profile B	Coating external	Coating internal	Corner ID	Connect frame
Qbiss one B-H-Element	80	3	---	---	---	---	□ 0	0	0.6	2.4		Athena	-	Athena	G	g	PVDF	PVDF	---	---
Qbiss one B-H-Element	80	3	---	---	---	---	□ 0	0	0.7	2.4		Athena	-	Athena	G	g	PVDF	PVDF	---	---

Send both sheet in “excel” format by email to enquiry@qbiss.eu.

Navodila za uporabo

Elementi "Qbiss_One BIM" delujejo znotraj Curtain Wall orodja v Archicad-u in izkoriščajo možnosti, ki jih le ta ponuja. S tem orodjem kreiramo dva izpisa (CW-Qbiss frames, CW-Qbiss panels). Shranimo ju v "excel" format in pošljemo na email enquiry@qbiss.eu, da dobimo ustrezno ponudbo.

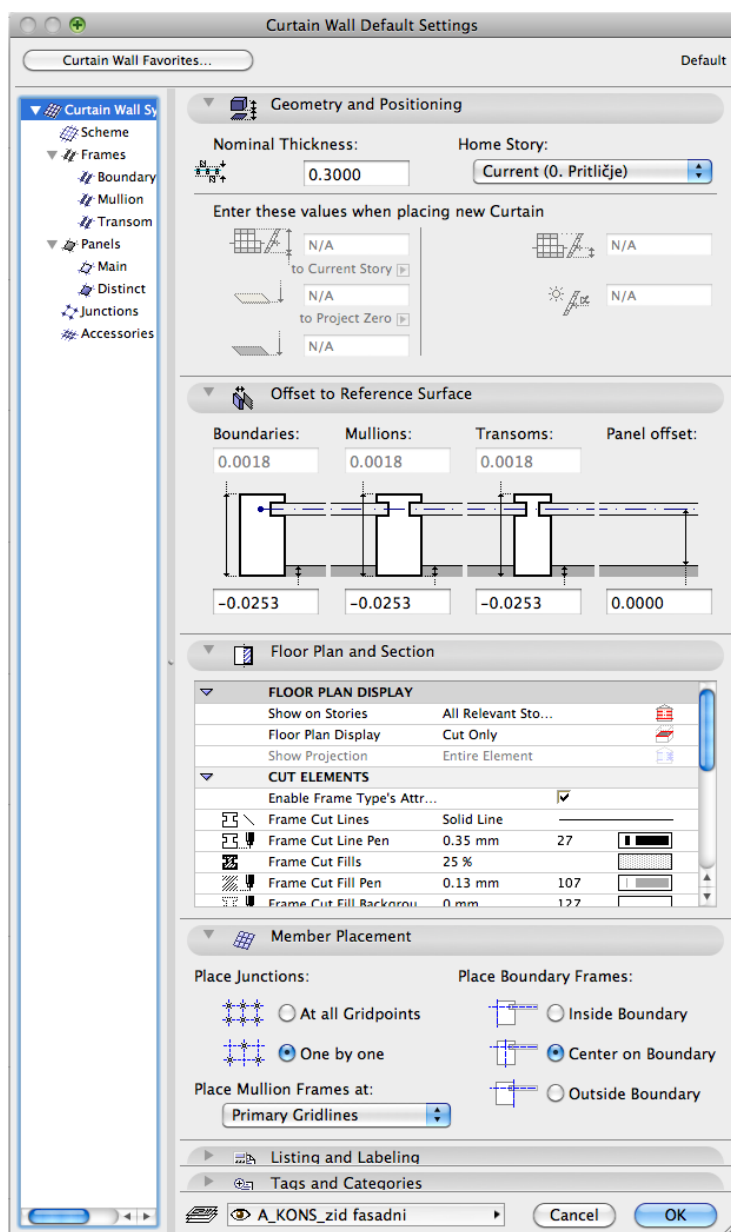
Curtain Wall orodje - nekaj glavnih značilnosti

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) tvori "Primary Gridlines" in "Secondary Gridlines". Kot med njimi je lahko med 20 in 160 stopinjami (Rotation:).

Uporaba Qbiss One elementov

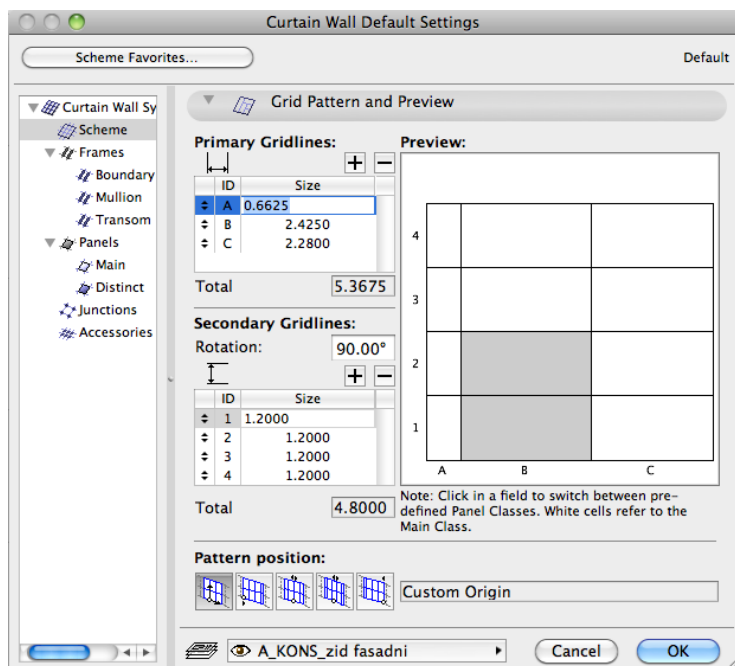


Glavne nastavitve v Curtain Wall orodju

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:).

Pri vertikalni postavitvi preklopimo (Place Mullion Frames at:) na "Secondary Gridlines".



Nastavitve rastra

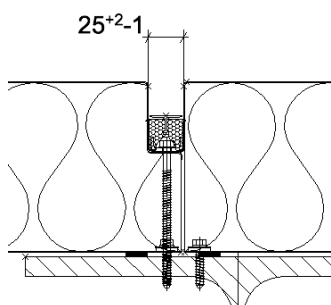
Upoštevajte, da so dimenzije elementov:

- dolžina min 530 mm, max 6500 mm
- višina min 600 mm, max 1200 mm

Kot (Rotation:) pri "Secondary Gridlines" je lahko med 45° in 135°

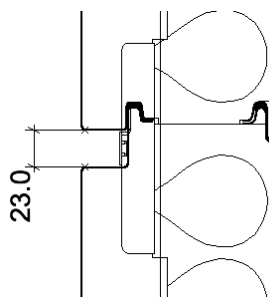
Podalševanje elements

Pri podalševanju Qbiss One elementov (prikaz na sistemu B) nastopata dva tipa spojev. Ta spoja definiramo z nastavitvijo parametrov "a" in "d" pri Frame elementih.

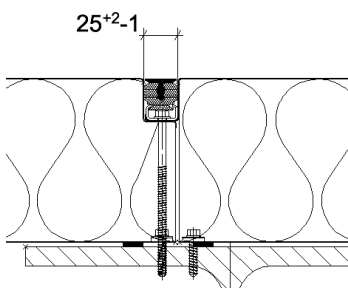


a = 25 mm
d = 24mm

B

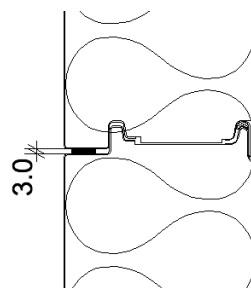


a = 23 mm
d = 37,5 mm

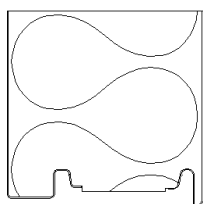


a = 25 mm
d = 24mm

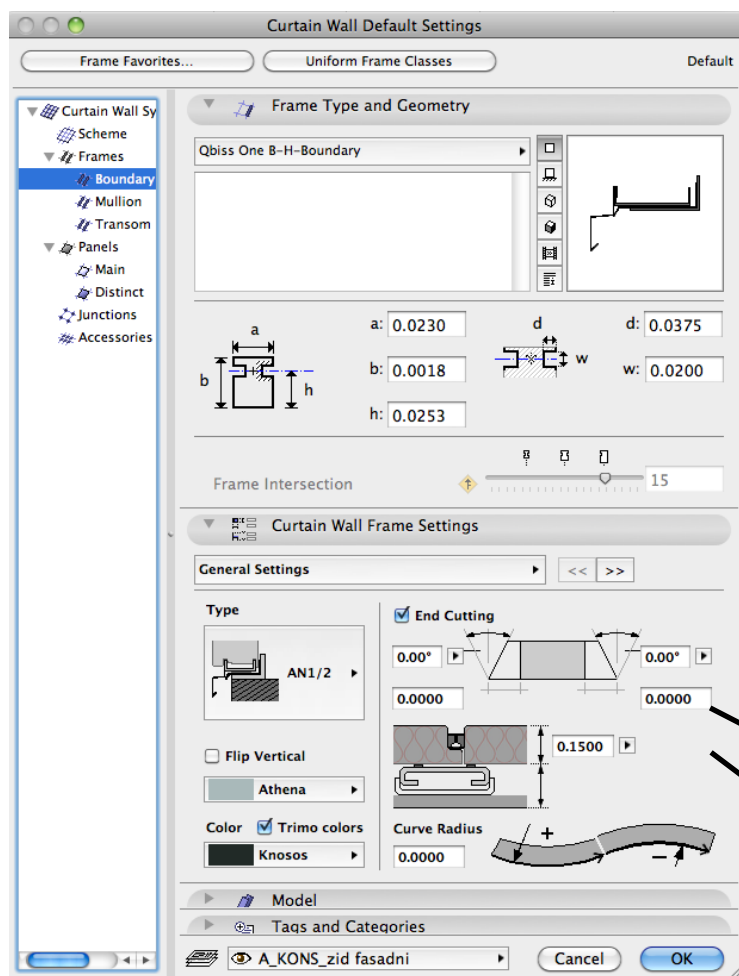
F



a = 3 mm
d = 17,5 mm



Kjer režemo element je d = 0



Nastavitve "Frames" elementov

General Settings

-glavne nastavitve (debelina, barve, profili)

Apperance

-nastavitve prikaza elementa v tlorisu, prerezu in 3D (šrafure, peresa, resolucija v 3D)

Technical Data

-tehnične karakteristike elementa, certifikati in standardi

Info

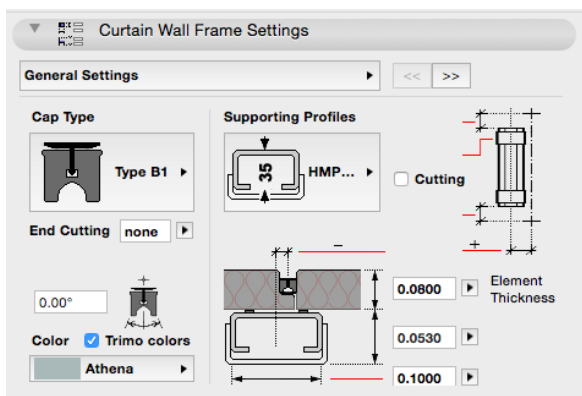
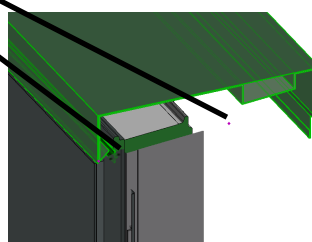
-podatki o proizvajalcu in povezave

Instructions

-navodila za uporabo elementa

-kako nastavimo "a", "b", "h", "d" in "w" parametre

"Cutting" parametre lahko nastavljamo grafično v 3D

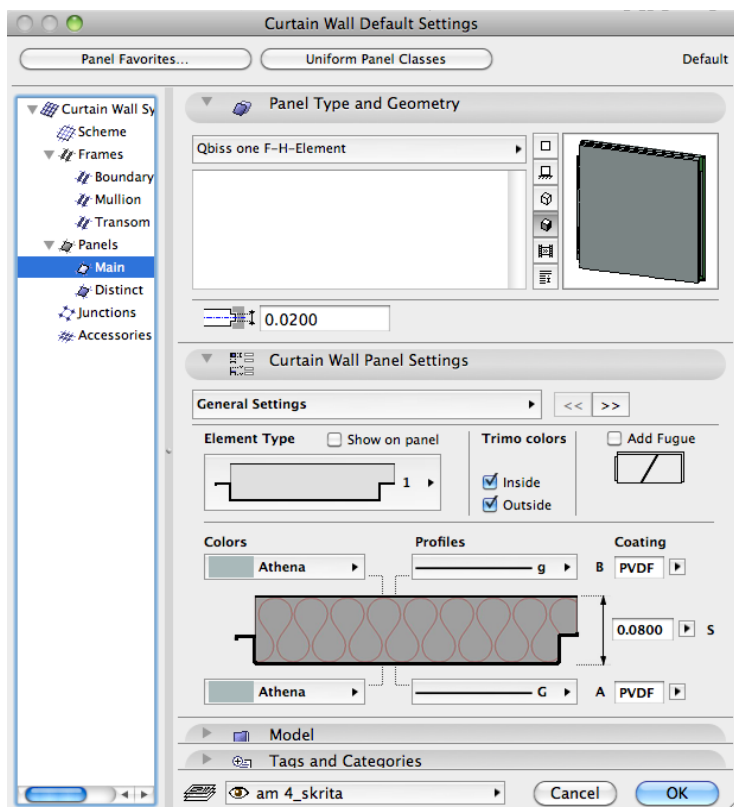


Mullion and Transome settings

General Settings

-"Supporting Profiles"-podkonstrukcijo uporabimo na "Frame" elementih le pri vertikalni postavitvi

-pri horizontalni postavitvi so HMP profili nastavljeni pri panelih



Nastavitve "Panel" elementov

General Settings

-glavne nastavitve (debelina, barve, profili)

Support Construction (HMP)

-pri horizontalni postavitvi določi podkonstrukcijo na panelu

-Start/End Boundary so spoji z zidom, ki jih definiramo pri panelu

Penetrations Settings

-dva preboja lahko določimo na vsakem panelu

Appearance

-nastavitve prikaza elementa v tlorisu, prerezu in 3D (šrafure, peresa, resolucija v 3D)

Technical Data

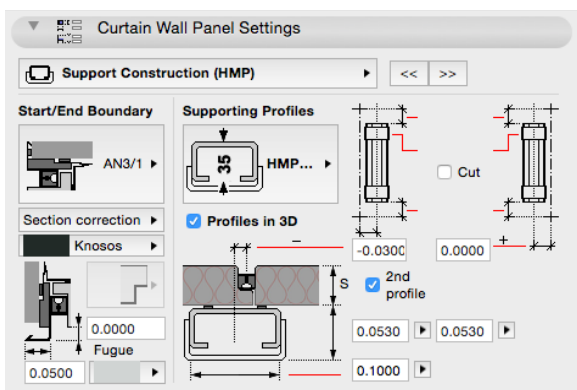
-tehnične karakteristike elementa, certifikati in standardi

Info

-podatki o proizvajalcu in povezave

Instructions

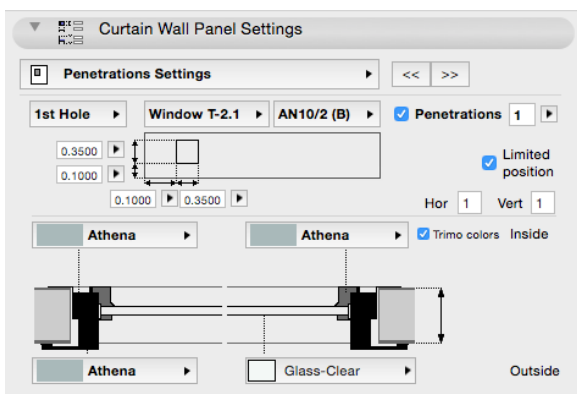
-navodila za uporabo elementa



Support Construction (HMP)

-pri horizontalni postavitvi se določi podkonstrukcijo na panelu

-Start/End Boundary so spoji z zidom, ki jih definiramo pri panelu (AN3 detajli)



Penetrations Settings

-vsak panel ima lahko dva različna preboja

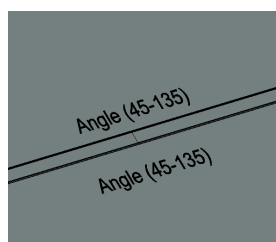
če izberemo 2 preboja

-1st Hole -nastavitve za prvo luknjo

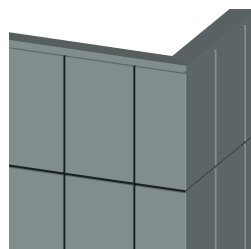
-2nd Hole -nastavitve za drugo luknjo

"Limited position"

-pri tej nastavitvi omejimo pozicijo luknje, da lahko sega le za polovico svoje velikosti preko dimenzije panela

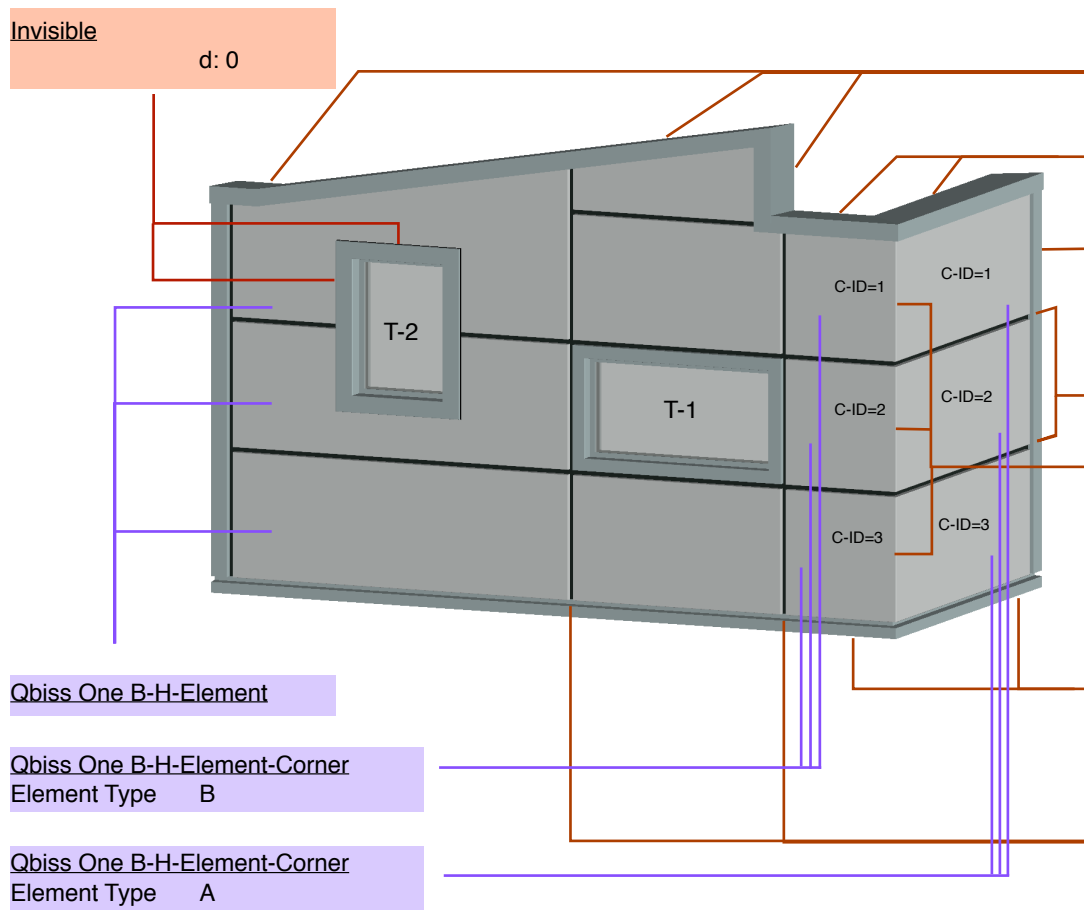


Ko presežemo mejne vrednosti parametrov se v 3D oknu pojavijo opozorila.



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".

Horizontalna postavitvev



Qbiss One B-H-Boundary

Type	a: 23	d: 0
	AN5/3, AN5/4, AN5/5	
Type	a: 23	d: 37,5
	AN5/1, AN5/2	
Type	a: 25	d: 24
	AN3/1, AN3/2	

Qbiss One B-Frame

a: 23	d: 37,5
Cap Type	Type B2

Invisible

d: 0

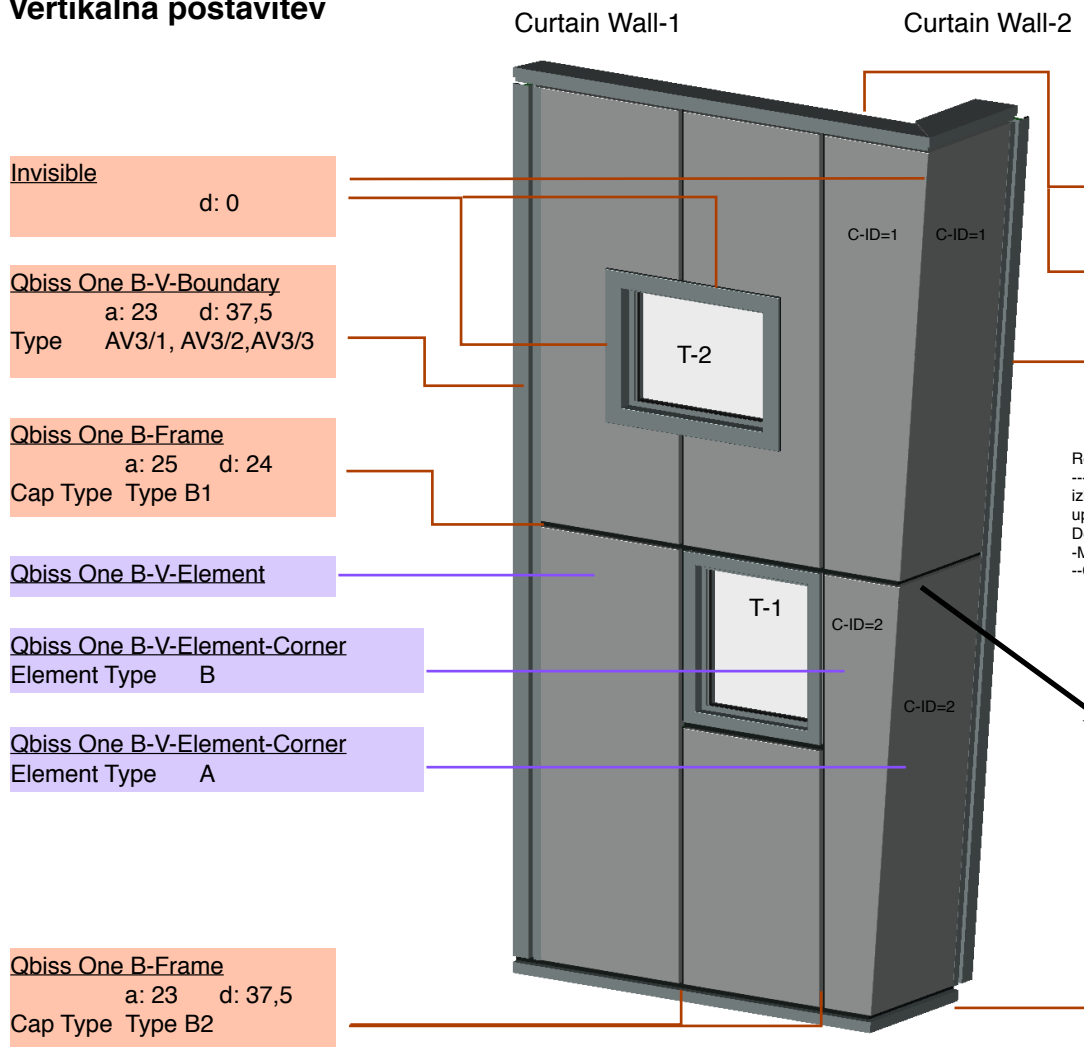
Qbiss One B-H-Boundary

Type	a: 23	d: 37,5
	AN1/1, AN1/2,	AN1/3, AN1/4

Qbiss One B-Frame

a: 25	d: 24
Cap Type	Type B1

Vertikalna postavitvev



Curtain Wall-1

Curtain Wall-2

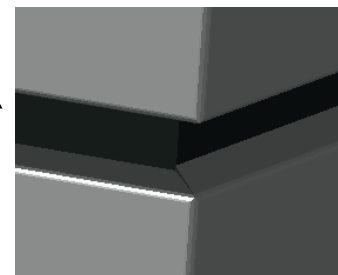
Qbiss One B-V-Boundary

Type	a: 25	d: 0
	AV5/3, AV5/4, AV5/5	
Type	a: 25	d: 24
	AV5/1, AV5/2	
Type	a: 23	d: 37,5
	AV3/1, AV3/2, AV3/3	

Rezanje fug na vogalu

-----primer 1-----
izberi oba zidova in uporabi komando: Design --Modify Curtain Wall --Create Common Frames

-----primer 2-----
izberi "Frame" element i uporabi parameter: End Cutting



Qbiss One B-V-Boundary

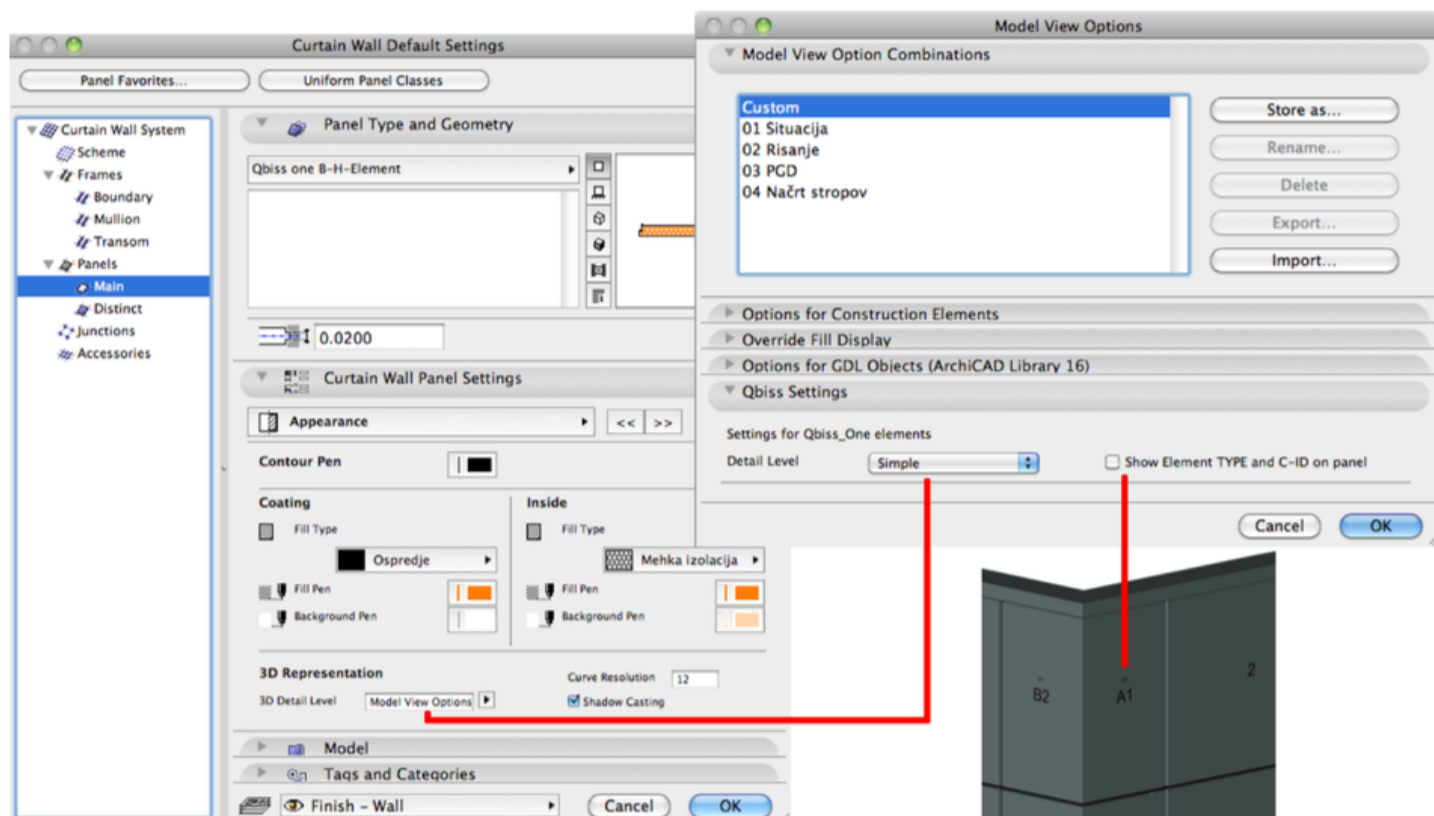
Type	a: 25	d: 24
	AV1/1, AV1/2, AV1/3	

3D predstavitev Qbiss Settings v Model View Options

V **Model View Options** lahko kontroliramo vidnost (pojavnost) "Element TYPE" in "Detail level".

Element TYPE je šifra tipa panela, ki se lahko izpiše na panelu

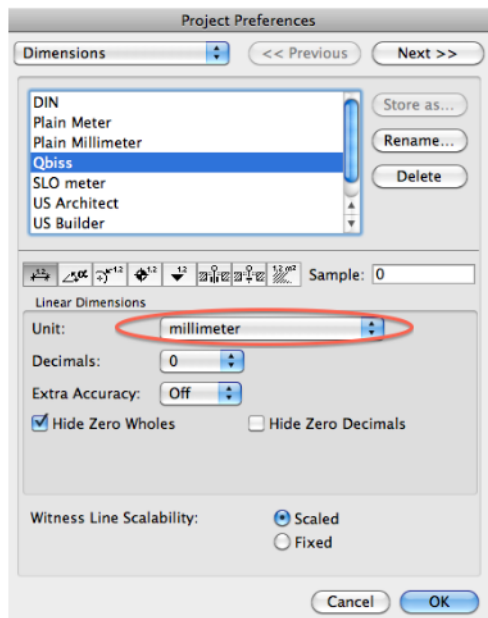
Detail level je novo detajlnega prikaza. Popolnoma zadošča "Simple" nivo. "Detailed" vključimo lahko samo pri prerezih



Schedules

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

V “Project Preferences” Linear Dimensions naj bo nastavljeno na mm



CW-Qbiss frames (Linear Dimensions in mm) (send in excel format to "enquiry@qbiss.eu")								
Frame	Thickness (S)	Color(CAP)	Color(sheet)	Radius	HMP/width/depth	Sub KONS distance	Sub KONS Length	Length
AM1/1	80	Knosos	Athena	4 000		100	---	1 000
AM1/1	80	Knosos	Athena	4 000		100	---	1 000
AM1/1	80	Knosos	Athena	4 000		100	---	1 000
AM1/1	80	Knosos	Athena	4 000		100	---	1 000
AM1/1	80	Knosos	Athena	4 000		100	---	1 000
AM1/1	100	Knosos	Athena	0		100	---	1 000
AM1/1	100	Knosos	Athena	0		100	---	2 000
AM1/1	100	Knosos	Athena	0		100	---	2 000
AM1/1	150	Knosos	Athena	0		100	---	803
AM1/1	150	Knosos	Athena	0		100	---	1 000
AM1/1	150	Knosos	Athena	0		100	---	1 000

CW-Qbiss panels (Linear Dimensions in mm) (send in excel format to "enquiry@qbiss.eu")																				
Element	Thickness (S)	ELEMENT TYPE	WINDOW TYPE	Corner Cutting	Corner Angle	Corner Angle(C)	Extra fugate	Radius	Height (M) Window (H2)	Length (R) Window (W2)	Frontal View	Outside Color (A)	Fugate/Window Color	Inside Color (B)	profile A	profile B	Coating external	Coating internal	Corner ID	Connect frame
Qbiss one B-H-Element	80	3	---	---	---	---	□ 0	0	0.6	2.4		Athena	-	Athena	G	g	PVDF	PVDF	---	---
Qbiss one B-H-Element	80	3	---	---	---	---	□ 0	0	0.7	2.4		Athena	-	Athena	G	g	PVDF	PVDF	---	---

Za pridobitev ponudbe pošljemo oba izpisa v “excel” formatu na enquiry@qbiss.eu.