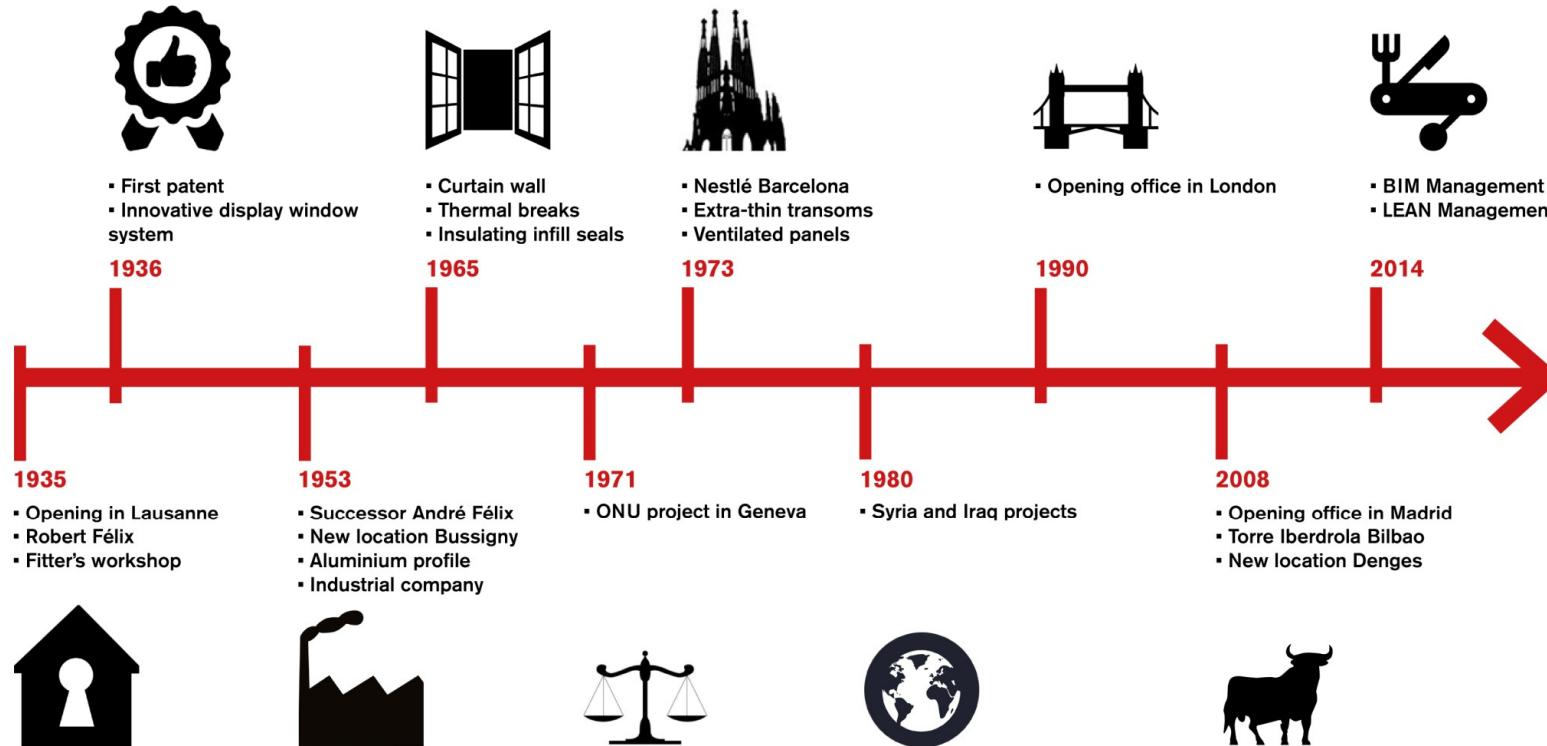


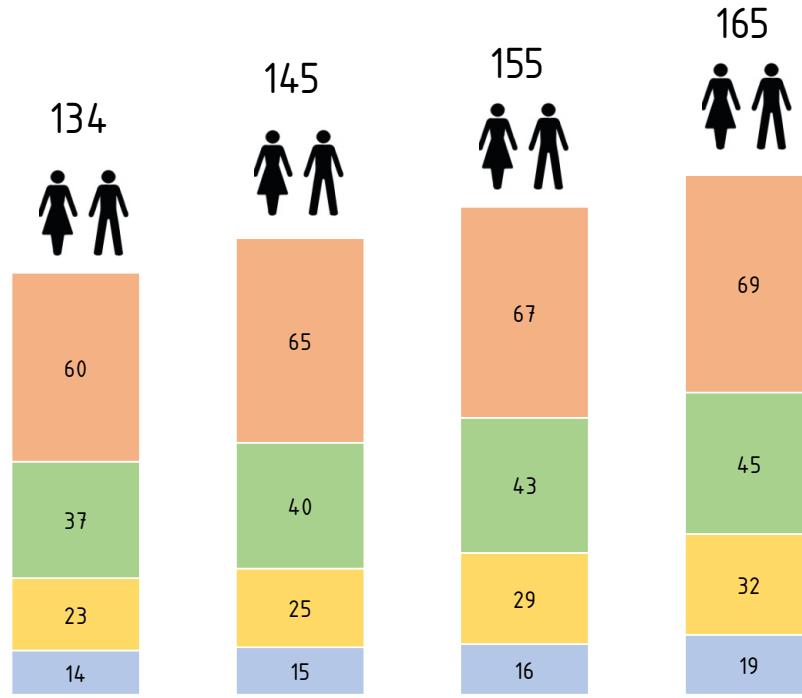
Félix A SEMI STANDARD FAÇADE DELIVERY COMPANY
WORKFLOW FOR SYSTEMIC DESIGN TO PRODUCTION



History



Employees development & location



2014
Project Management

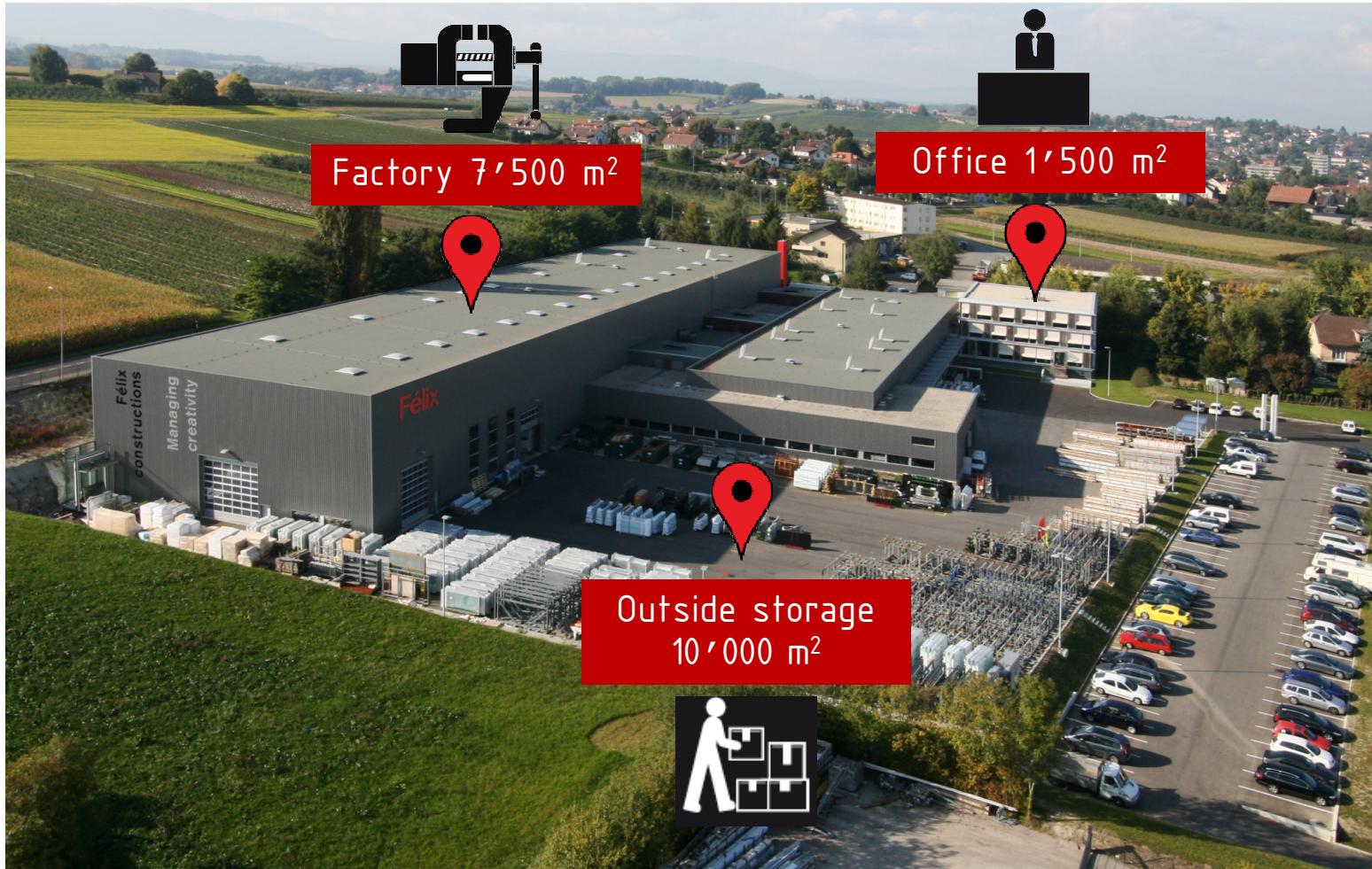
Engineering office

2016
Management-Administration

Factory



Annual production capacity : 63'000 m²



Values



Commitment



Innovation



Reactivity



Quality



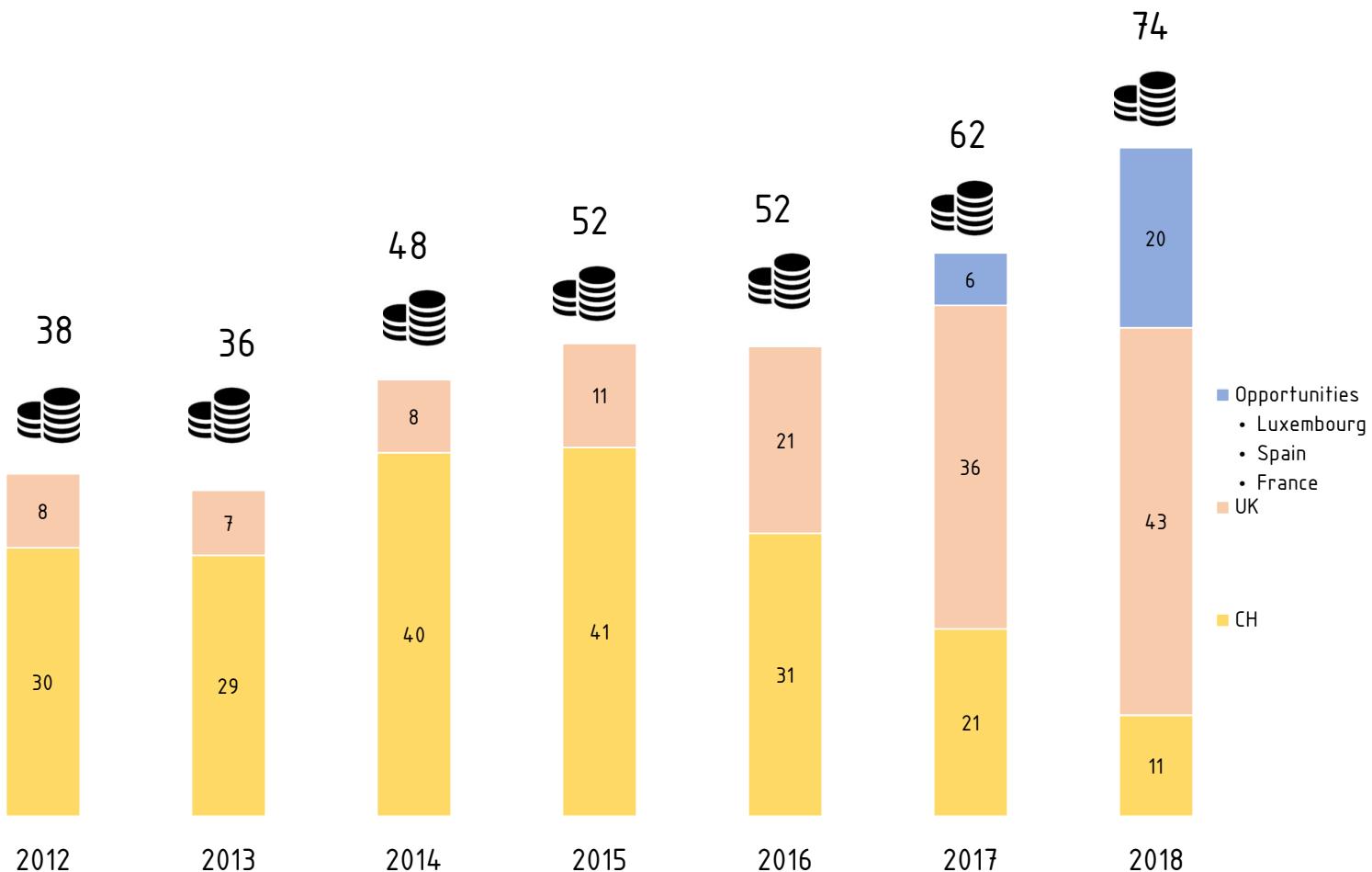
Creativity

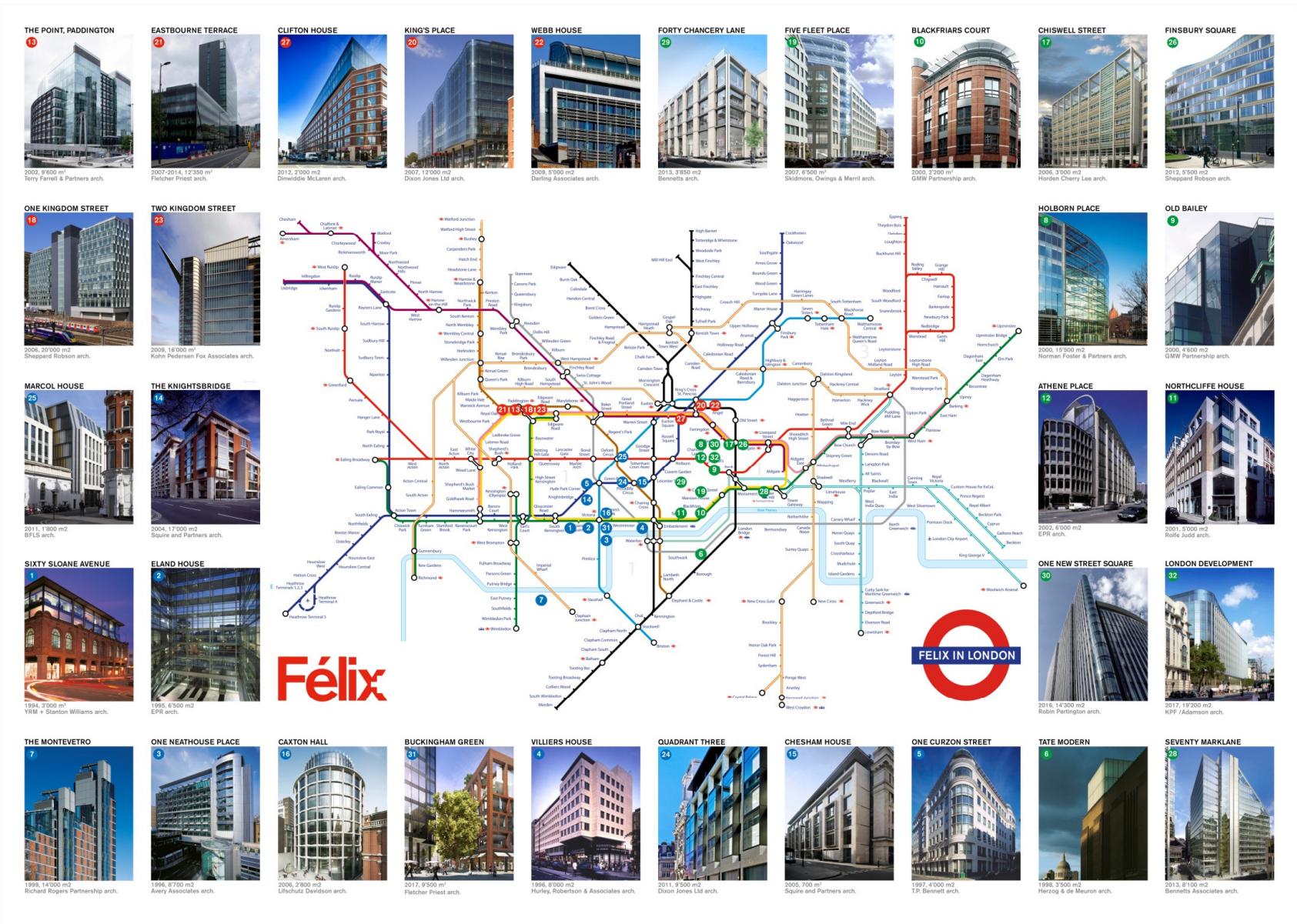


Performance

Revenue growth 2012-2018

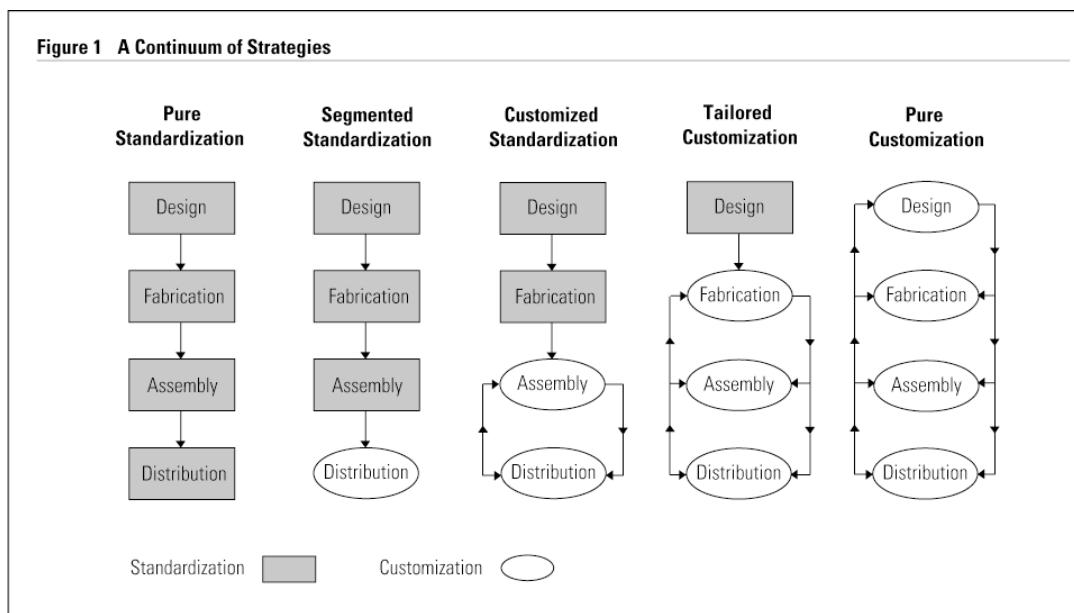
CHF million





1. INTRODUCTION
2. SEMI AUTOMATED INTEGRATION OF PROJECT VARIABLES
3. **DATA HISTORY**
4. **DATA ARBORESCENCE**
5. **DATA GENEALOGIE**
6. DELIVERABLES
7. CLOUD & PM
8. CONLUSION

Figure 1 A Continuum of Strategies



De la standardisation a la customisation:
Augmentation du travail itératif – besoin de workflow

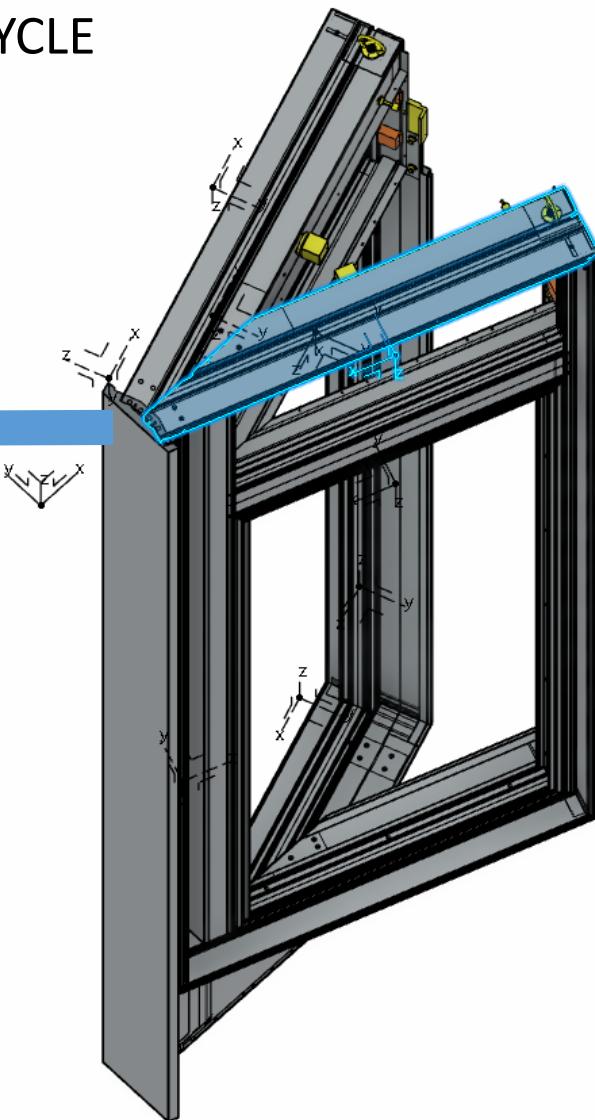
Montant Traverse Cadre	Traverse Cadre Air-Axe Store	Traverse Démontable Cadre	Traverse Cadre	Montant Angle Intérieur 141.06	Cups Intérieur Angle Intérieur	Tringle Fermeture des Ouvrants	Lisse de Dilatation Horizontale
HAUT							
FERMETURE PLAFONNET	FERMETURE PLAFONNET DEVANT DALLE	CLIPS CHARNIÈRE PLAFONNET	CADRE DES OUVRANTS D'ENTRETIEN	PARCLOSE DES OUVRANTS D'ENTRETIEN	LISSE DE DILATATION VERTICALE	PARCLOSE À VERRE DES ANGLES	
							SCG
HAUT							
FERMETURE PLAFONNET	TRaverse Intermédiaire	FERMETURE PLAFONNET	CLIPS CHARNIÈRE PLAFONNET	PARCLOSE DES OUVRANTS D'ENTRETIEN	LISSE DE DILATATION VERTICALE	PARCLOSE À VERRE DES ANGLES	Montant Angle Extérieur 141.06
HAUT							
Montant Angle Extérieur 70.52°	Cups Intérieur Angle Extérieur 70.52°	Cups Extérieur Angle Extérieur 70.52°	Montant de Parement Angle Extérieur de 70.52°	Montant Extérieur Angle 141.06	Montant Extérieur Angle 141.06	Montant Extérieur Angle 141.06	FILETÉ DE SOL & MURET
HAUT							
FILETÉ EXTERIEUR FILETÉ SOL & MURET	SUPPORT DE FILETÉ SOL & MURET				Équerre Assemblage Cadre Axe	Équerre Assemblage Cadre Fixe	Équerre Assemblage Cadre Piment
HAUT							
Équerre Assemblage Cadre Ouvrant	Équerre Assemblage Cadre Ouvrant	ATTACHE SUR DALLE	ATTACHE DEVANT DALLE	PLAQUE GRENTEE	CROCHET ELEMENT		
HAUT							
ÉTAT	EXISTANT (G9-N° R06)	DISTANT	DISTANT	EXISTANT	DISTANT	EN ETUDE	EN ETUDE

HAUT
S

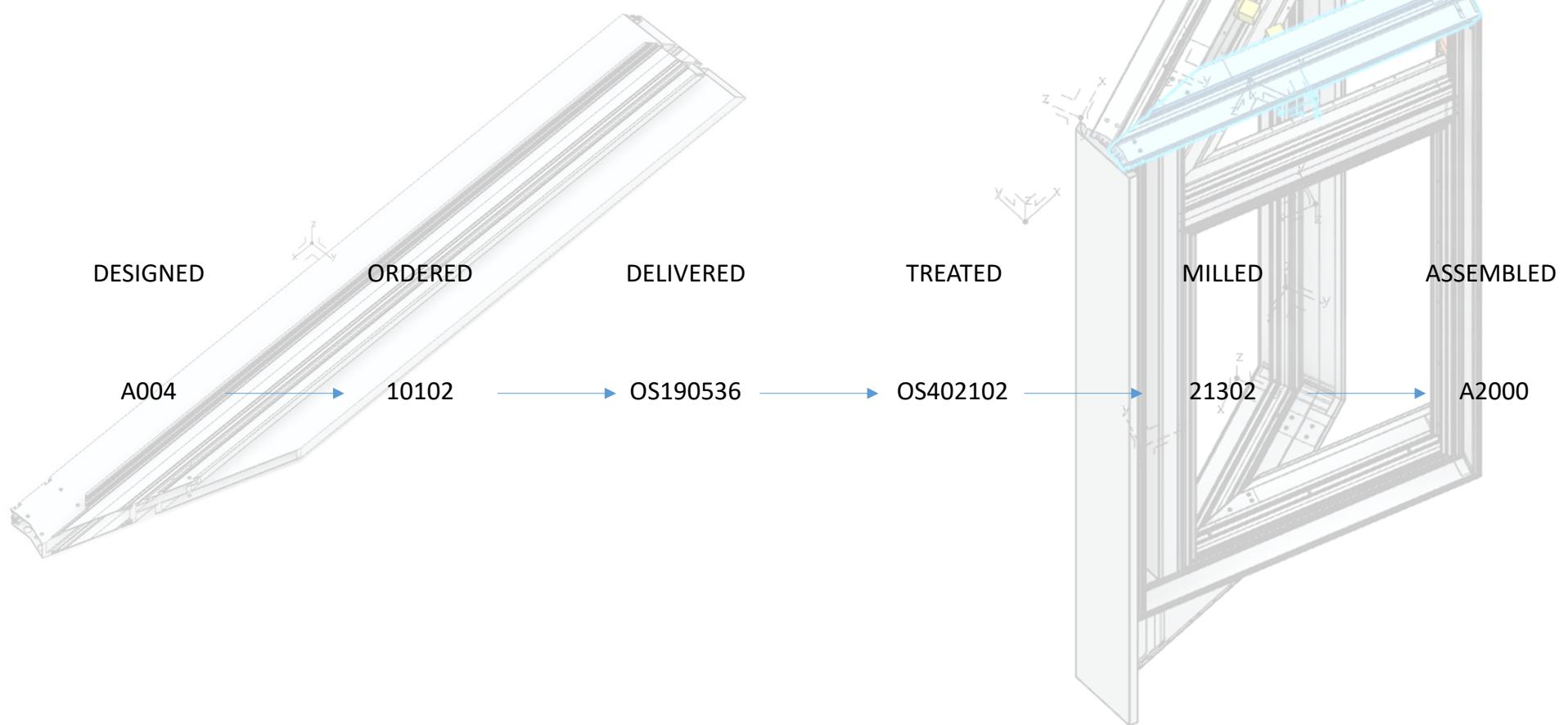
SCG

DISTANT (G9-N° R07)

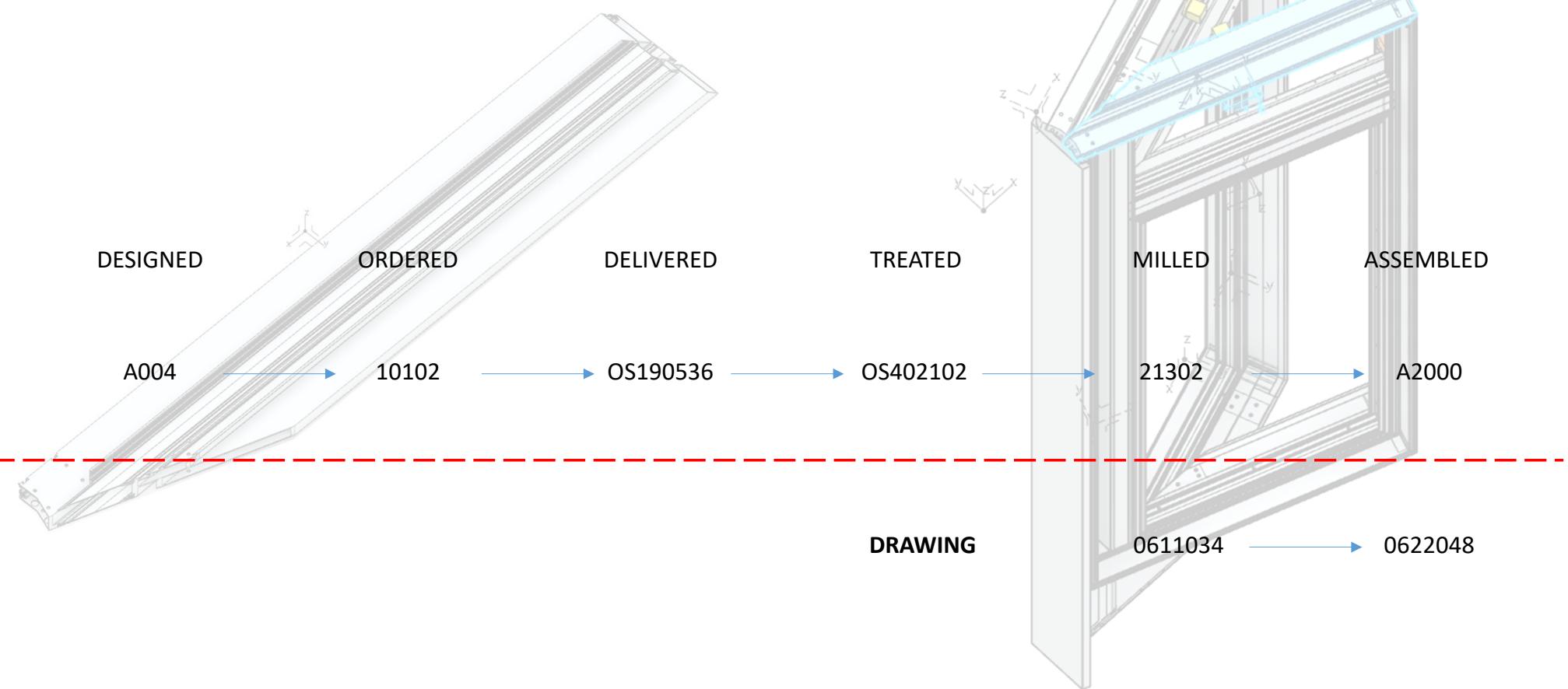
ONE TRANSOM LIFECYCLE



ONE TRANSOM LIFECYCLE



ONE TRANSOM LIFECYCLE



160 ASSEMBLIES

2000+ PARTS

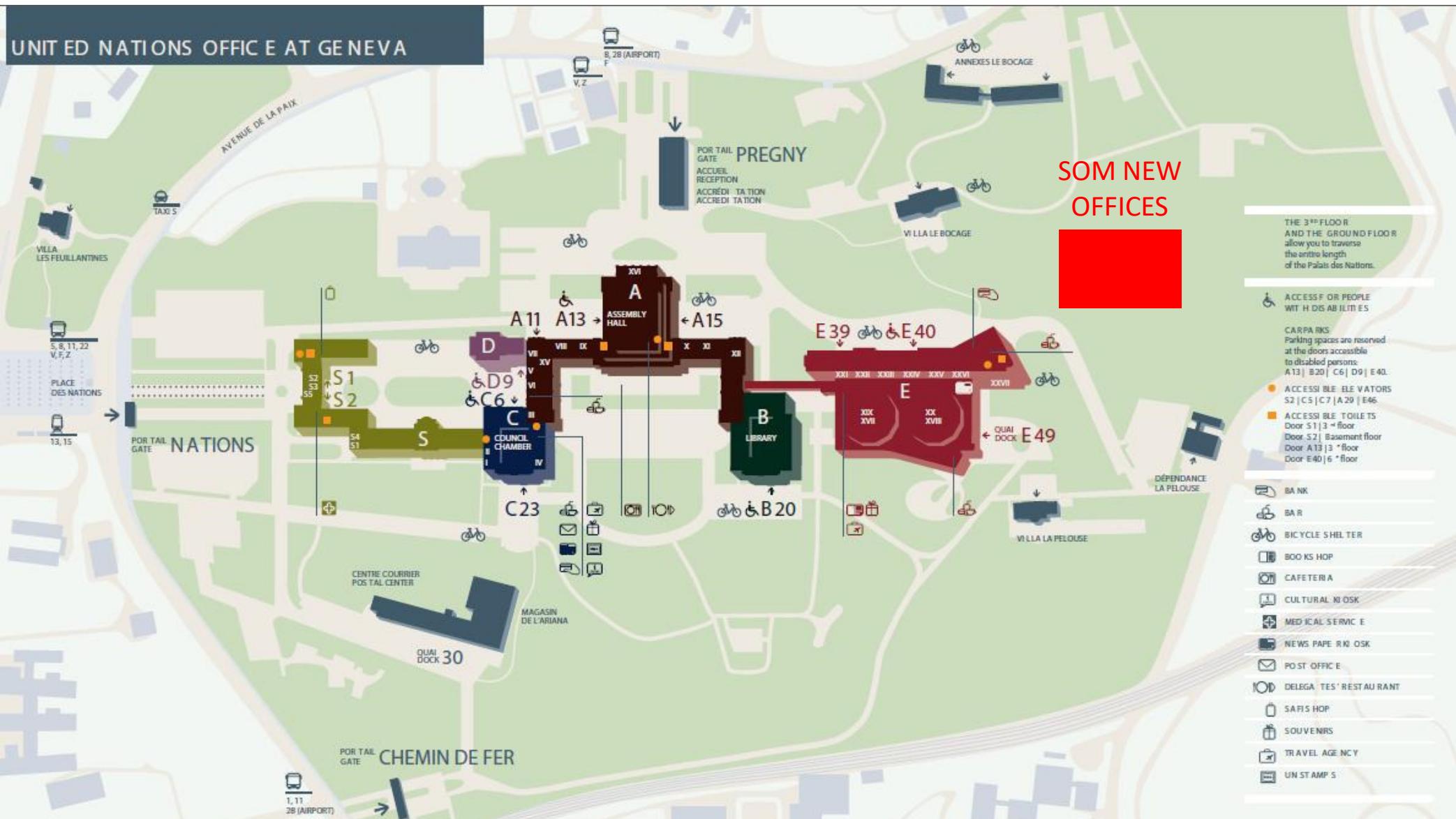
ONU – EXTRACTION DE NOMENCLATURE PAR ELEMENT

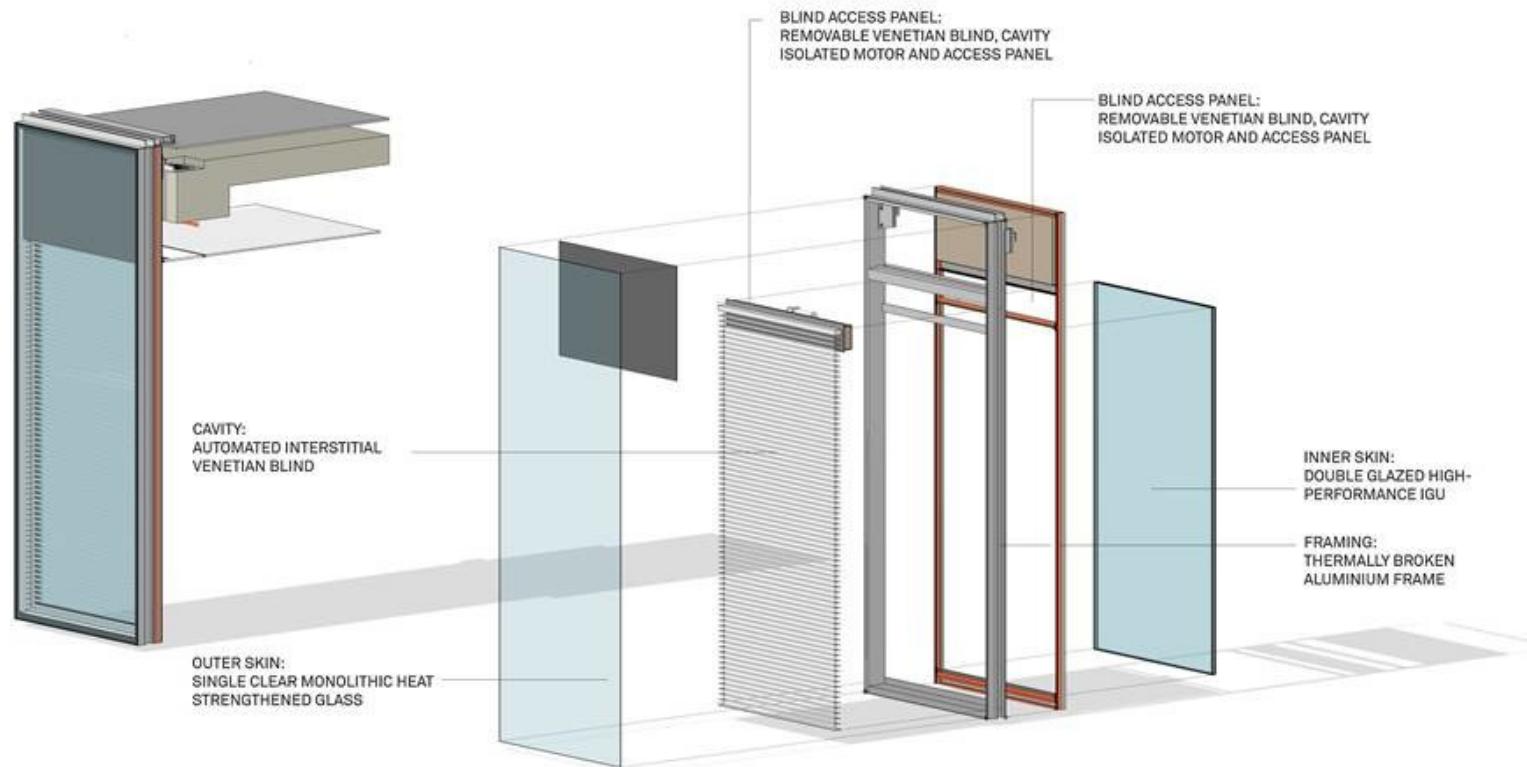
Félix SEMI AUTOMATED INTEGRATION OF THE PROJECT VARIABLES

SKIDMORE, OWINGS & MERRILL
United Nations GENEVA



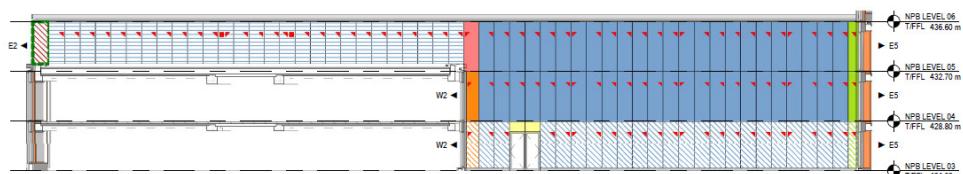
UNITED NATIONS OFFICE AT GENEVA





SKIDMORE, OWINGS & MERRILL
Japan Tobacco GENEVA





13 FACADE SCOPING ELEVATION NW2

1:200

PANEL TYPES BY BUILD UP & GEOMETRY

	TYPE	SUBTYPE	VISION GLASS	SPANDREL	BLINDS	HEIGHT (nom, mm)
EWS-01	S1	a	✓	✓	✓	3900
		b	✓	✓	✓	3700
		c	✓	✓	✓	3300
		d	✓	✓	✓	2700
		e	✓	✓	✓	2400
		f	✓	✓	✓	3900
		g	✓	✓	✓	3900
		h	✓	✓	✓	3300
	S2	a	✓	✓	✓	3900
		b	✓	✓	✓	3900
	S3		✓	✓	✓	7800
	S4		✓	✓	✓	7800
	S5		✓	✓	✓	7800
	S6	a	✓			805
		b	✓			varies
	S7		✓	✓	✓	varies
			✓	✓	✓	varies
			✓	✓	✓	varies
	C1	a	✓	✓	✓	3900-3900
		b	✓	✓	✓	3900-3300
		c	✓	✓	✓	3300-3900
	C2	a	✓	✓	✓	3900-3300
		b	✓	✓	✓	3300-3300
	C3	a	✓	✓	✓	3900-3900
		b	✓	✓	✓	3900-3700
		c	✓	✓	✓	3300-3700
		d	✓	✓	✓	3700-3700
		e	✓	✓	✓	3300-3300
		f	✓	✓	✓	2700-2700
	C4	a	✓	✓	✓	3900-3900
		b	✓	✓	✓	3900-3900
		c	✓	✓	✓	3700-3700
		d	✓	✓	✓	3300-3300
		e	✓	✓	✓	3300-3300
		f	✓	✓	✓	2700-2700
	C5	a	✓	✓	✓	3900-3900
		b	✓	✓	✓	3700-3700
		c	✓	✓	✓	7800
	C6		✓	✓	✓	2700-2700
	C7	a	✓	✓	✓	3900-3900
		b	✓	✓	✓	3700-3700

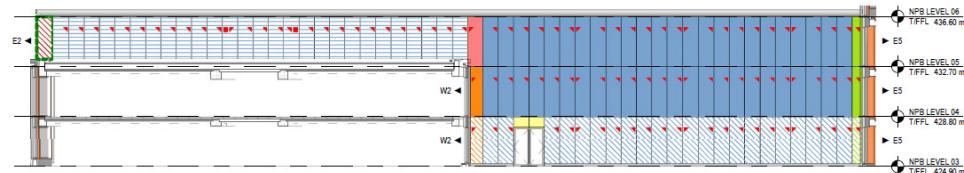
Left hung inner operable TGU

Right hung inner operable TGU

Inner non operable TGU (to match the appearance of operable TGUs)

Removable inner wooden frames at adjacent mullions (for cavity access)

NOMENCLATURE
PANELISATION



13 FACADE SCOPING ELEVATION NW2

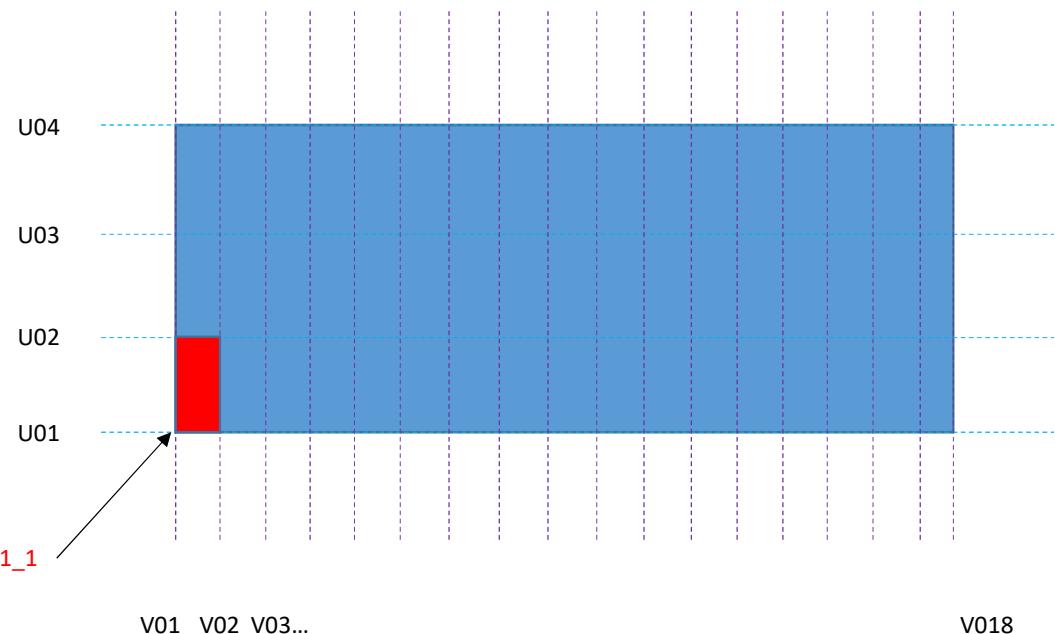
1:200

PANEL TYPES BY BUILD UP & GEOMETRY					
TYPE	SUBTYPE	VISION GLASS	SPANREL	BLINDS	HEIGHT (mm, mm)
EWS-01	S1	a ✓	✓	✓	3900 3700
	b	✓	✓	✓	3900
	c	✓	✓	✓	3700
	d	✓	✓	✓	2700
	e	✓	✓	✓	2400
	f	✓	✓	✓	3900
	g	✓	✓	✓	3900
	h	✓	✓	✓	3300
	s2	a	✓	✓	3900
	b	✓	✓	✓	3900
	c	✓	✓	✓	7800
	s3	b	✓	✓	7800
	s4	a	✓	✓	7800
	s5	b	✓	✓	7800
	s6	a	✓	✓	805
	b	✓	✓	✓	805
	s7	a	✓	✓	2905 varies
	b	✓	✓	✓	2905
	c	✓	✓	✓	3900-3900
	C1	a	✓	✓	3900-3900
	b	✓	✓	✓	3900-3300
	c	✓	✓	✓	3300-3600
	C2	a	✓	✓	3900-3300
	b	✓	✓	✓	3300-3300
	C3	a	✓	✓	3900-3900
	b	✓	✓	✓	3900-3700
	c	✓	✓	✓	3300-3700
	d	✓	✓	✓	3700-3700
	e	✓	✓	✓	3900-3900
	f	✓	✓	✓	2700-2700
	BSB9	a	✓	✓	3900-3900
	b	✓	✓	✓	3900-3900
	c	✓	✓	✓	3700-3700
	d	✓	✓	✓	3300-3300
	e	✓	✓	✓	3300-3300
	f	✓	✓	✓	2700-2700
	C4	a	✓	✓	3900-3900
	b	✓	✓	✓	3900-3900
	c	✓	✓	✓	3700-3700
	d	✓	✓	✓	3300-3300
	e	✓	✓	✓	3300-3300
	f	✓	✓	✓	2700-2700
	C5	a	✓	✓	3900-3900
	b	✓	✓	✓	3700-3700
	c	✓	✓	✓	7800
	C6	a	✓	✓	2700-2700
	b	✓	✓	✓	3900-3900
	C7	a	✓	✓	3700-3700

Left hung inner operable TGU
Right hung inner operable TGU
Inner non operable TGU (to match the appearance of operable TGU's)
Removable inner wooden frames at adjacent mullions (for cavity access)

INTEGRATION METADONNEES

PANELLISATION



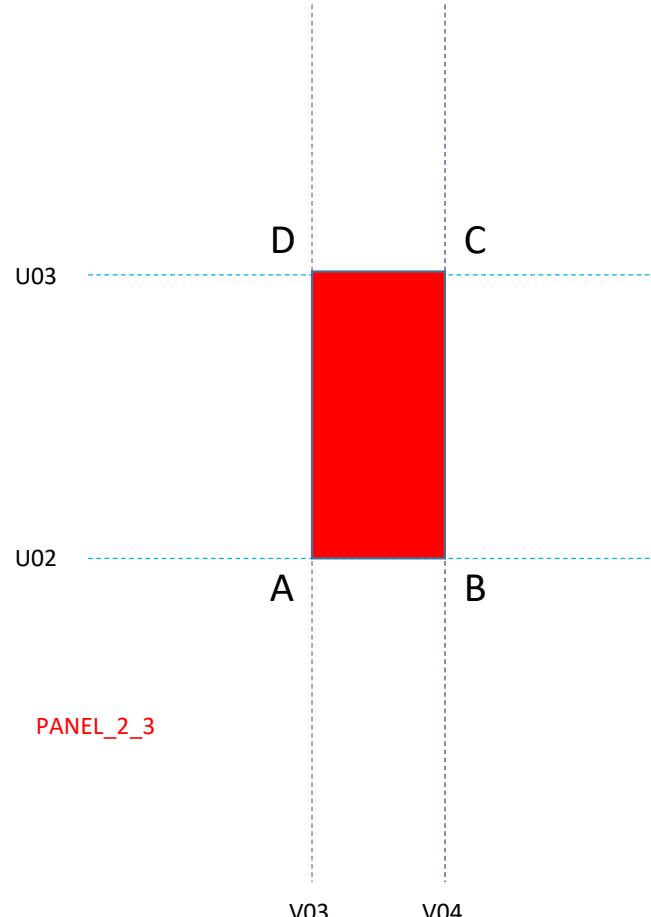
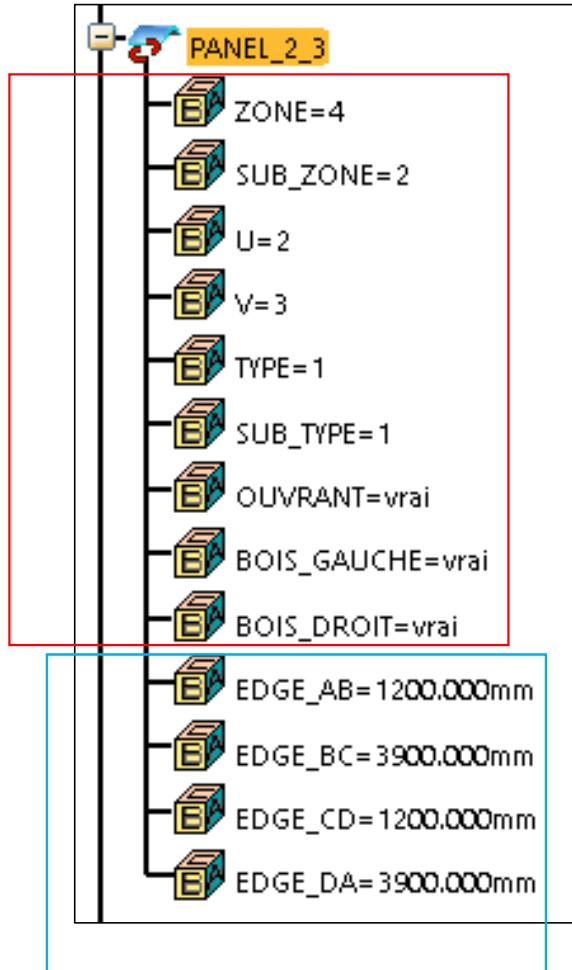
PANEL_1_1

V01 V02 V03...

V018

Données
QUALITATIVES

Données
QUANTITATIVES



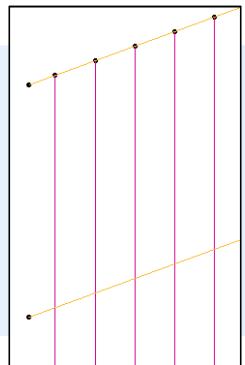
TYPES DE METADONNEES
PANELISATION

Félix

METHODE SEMI - AUTOMATIQUE DE GENERATION DE PANNEAUX:

FILAIRE

U, V Curves

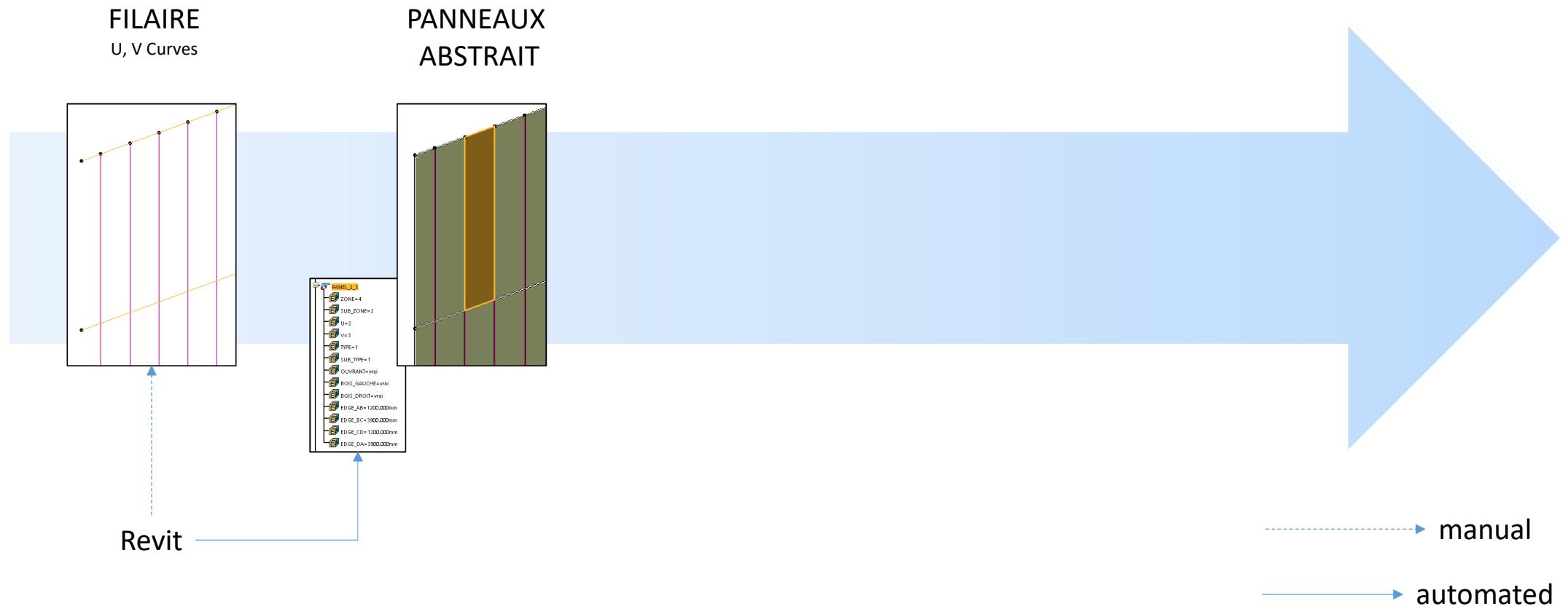


Setting Out

manual
automated

Félix

METHODE SEMI - AUTOMATIQUE DE GENERATION DE PANNEAUX:





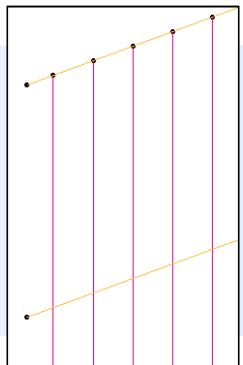
METHODE SEMI - AUTOMATIQUE DE GENERATION DE PANNEAUX:

CONTROLE
QUALITE

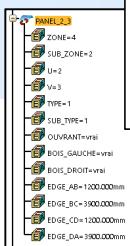
Etiquettes de colonnes																										Total général
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
801.884	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1000.3	30602.184		
801.884	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1000.3	30602.184	
1603.768	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2000.6	61204.368	

FILAIRE

U, V Curves



PANNEAUX
ABSTRAIT



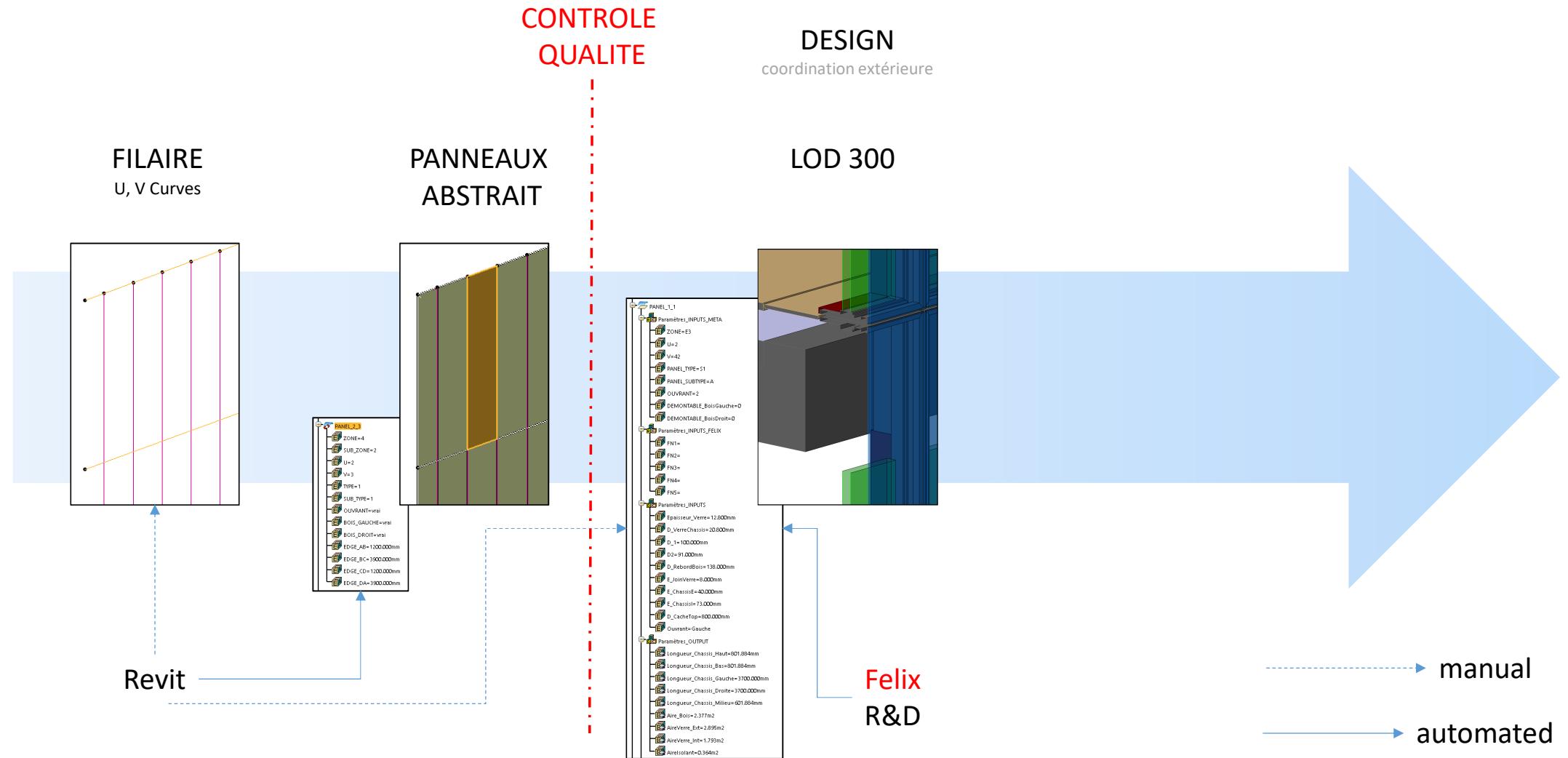
Revit

manual

automated

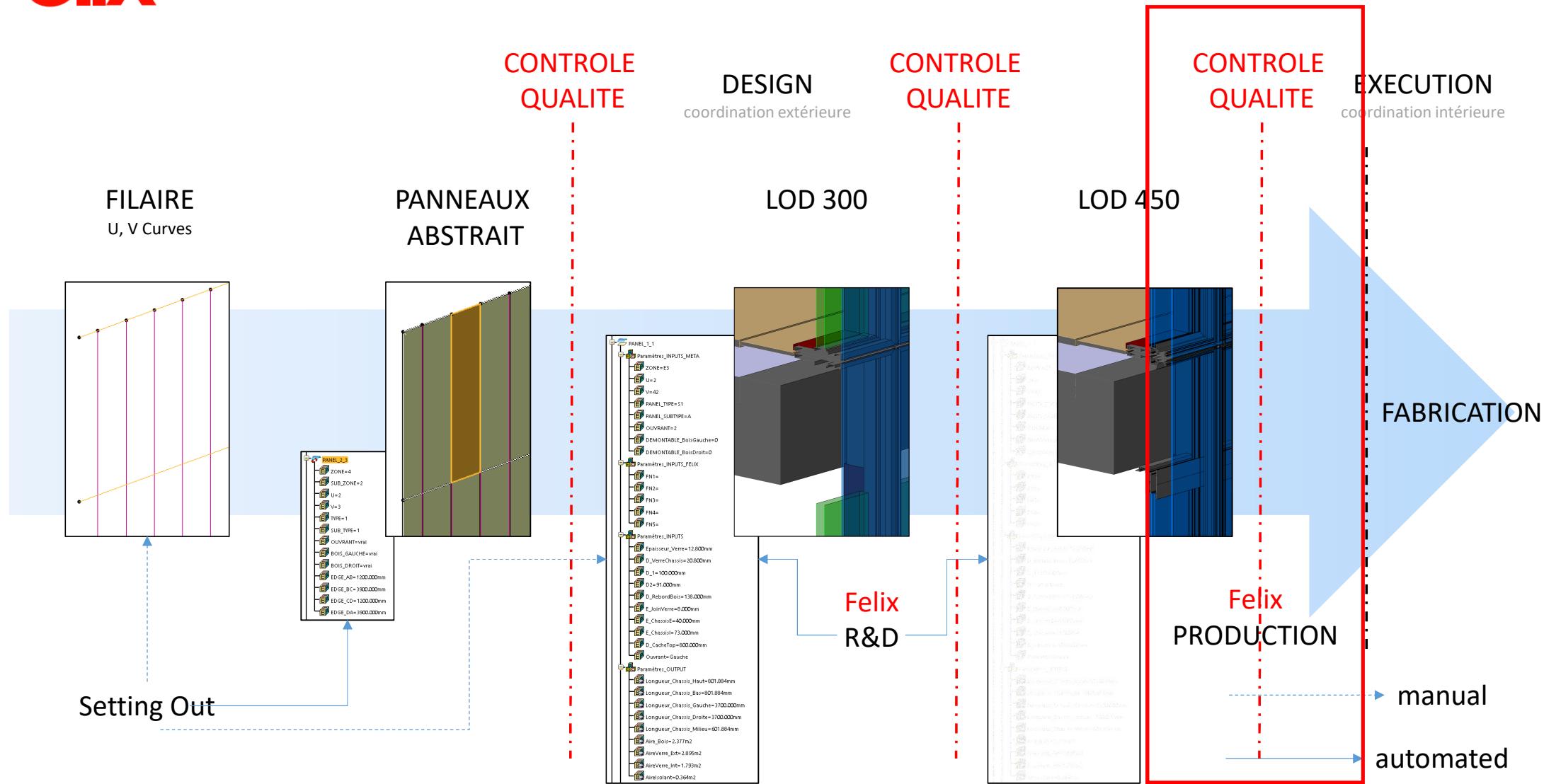


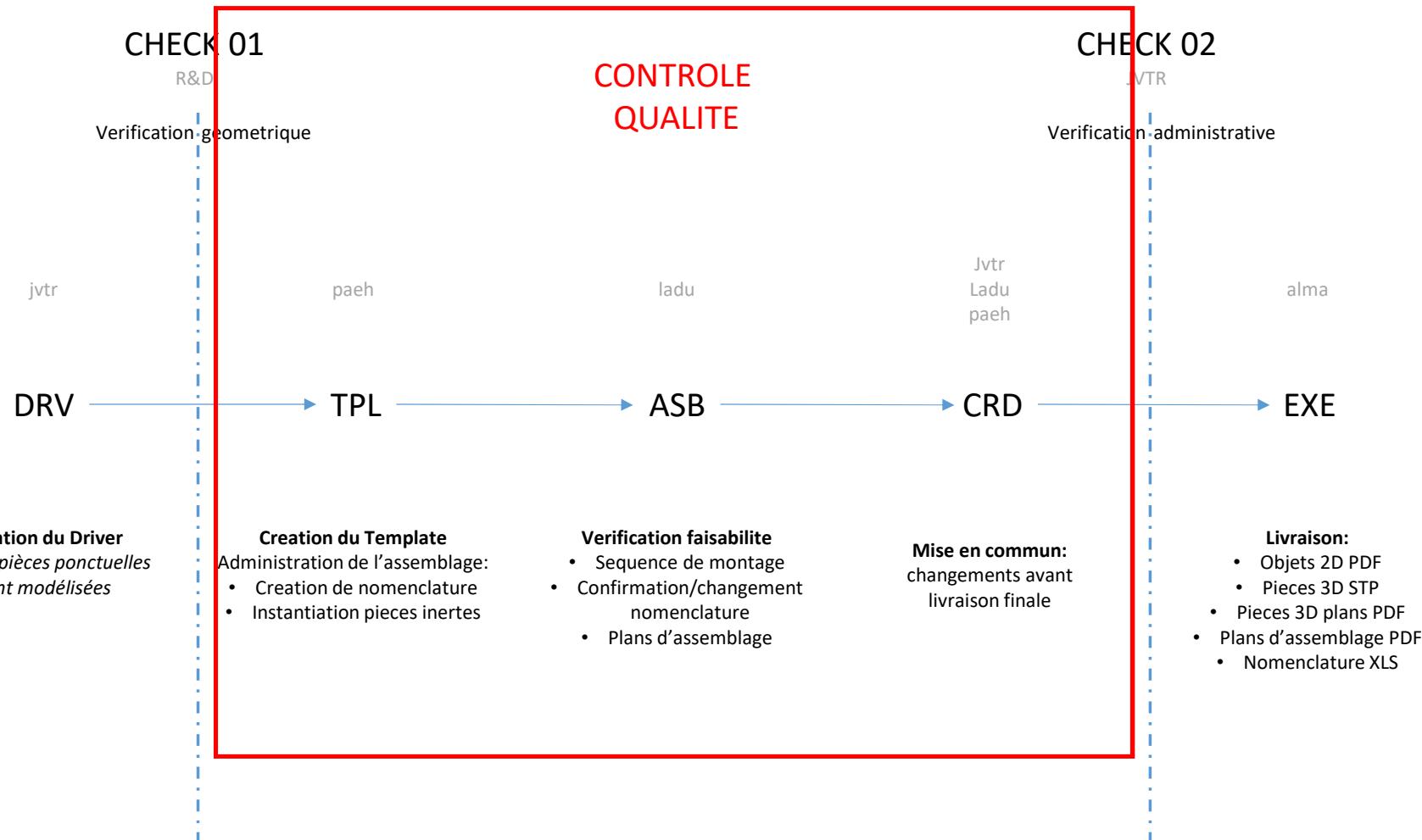
METHODE SEMI - AUTOMATIQUE DE GENERATION DE PANNEAUX:





METHODE SEMI - AUTOMATIQUE DE GENERATION DE PANNEAUX:



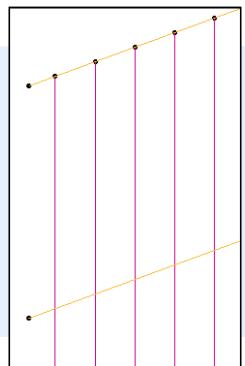




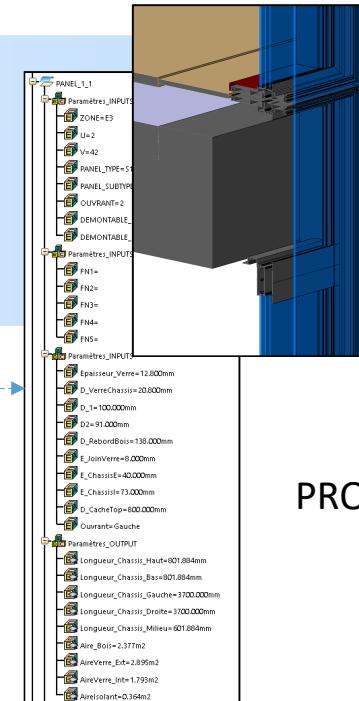
METHODE SEMI - AUTOMATIQUE DE GENERATION DE PANNEAUX:

FILAIRE

U, V Curves



Setting Out



LOD 450

CONTROLE
QUALITE

EXECUTION
coordination intérieure

FABRICATION

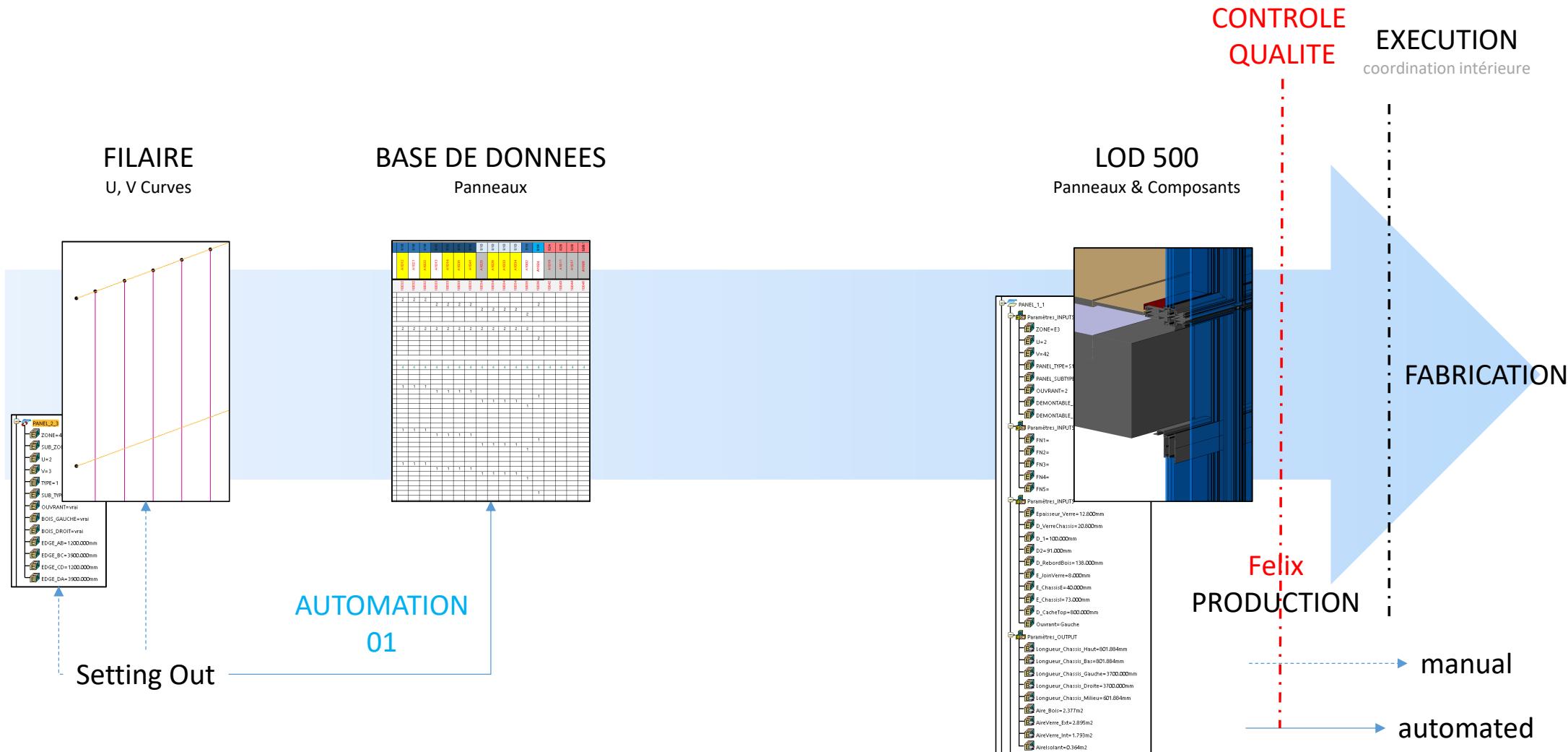
Felix
PRODUCTION

manual

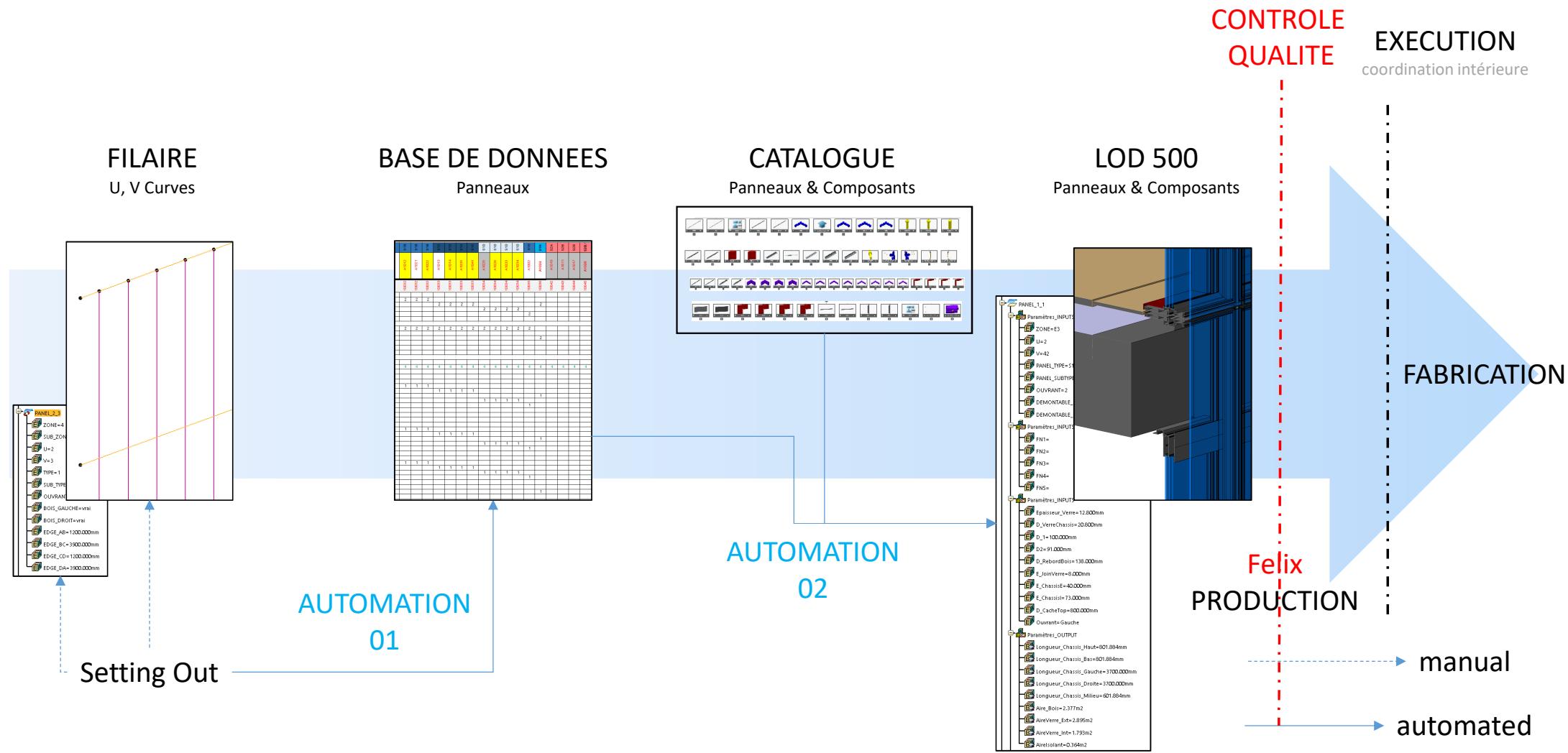
automated



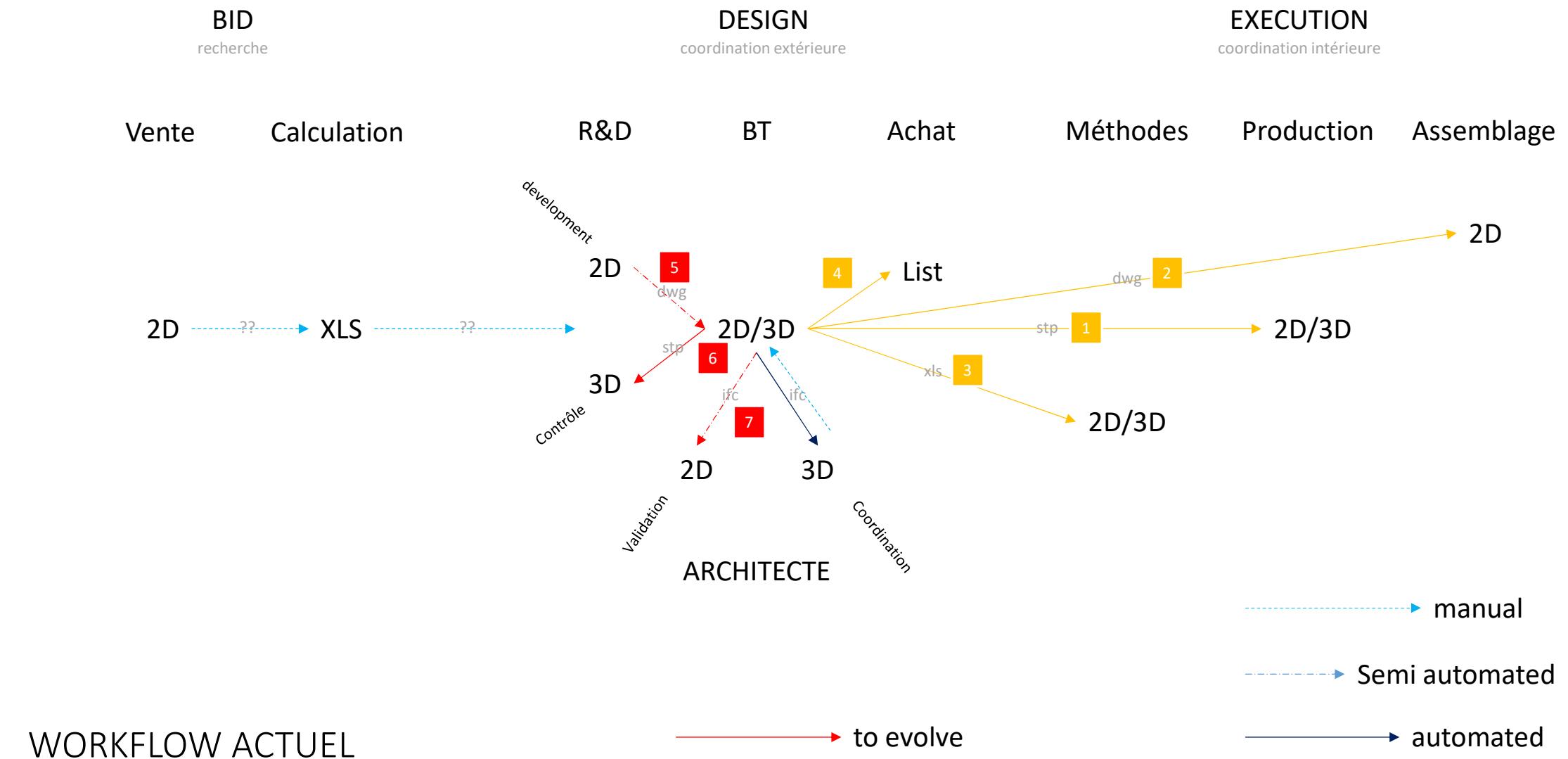
METHODE SEMI - AUTOMATIQUE DE GENERATION DE PANNEAUX:

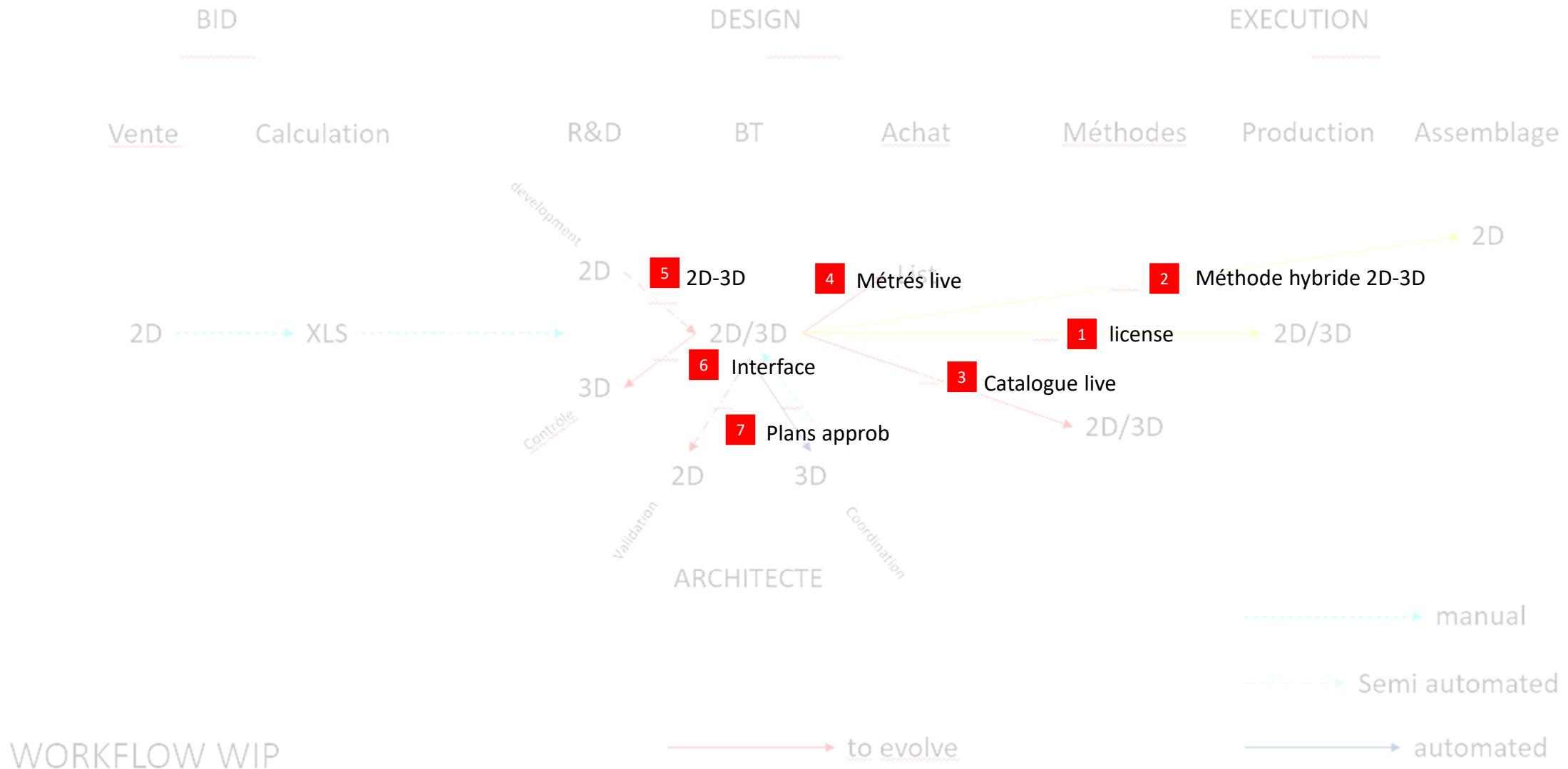


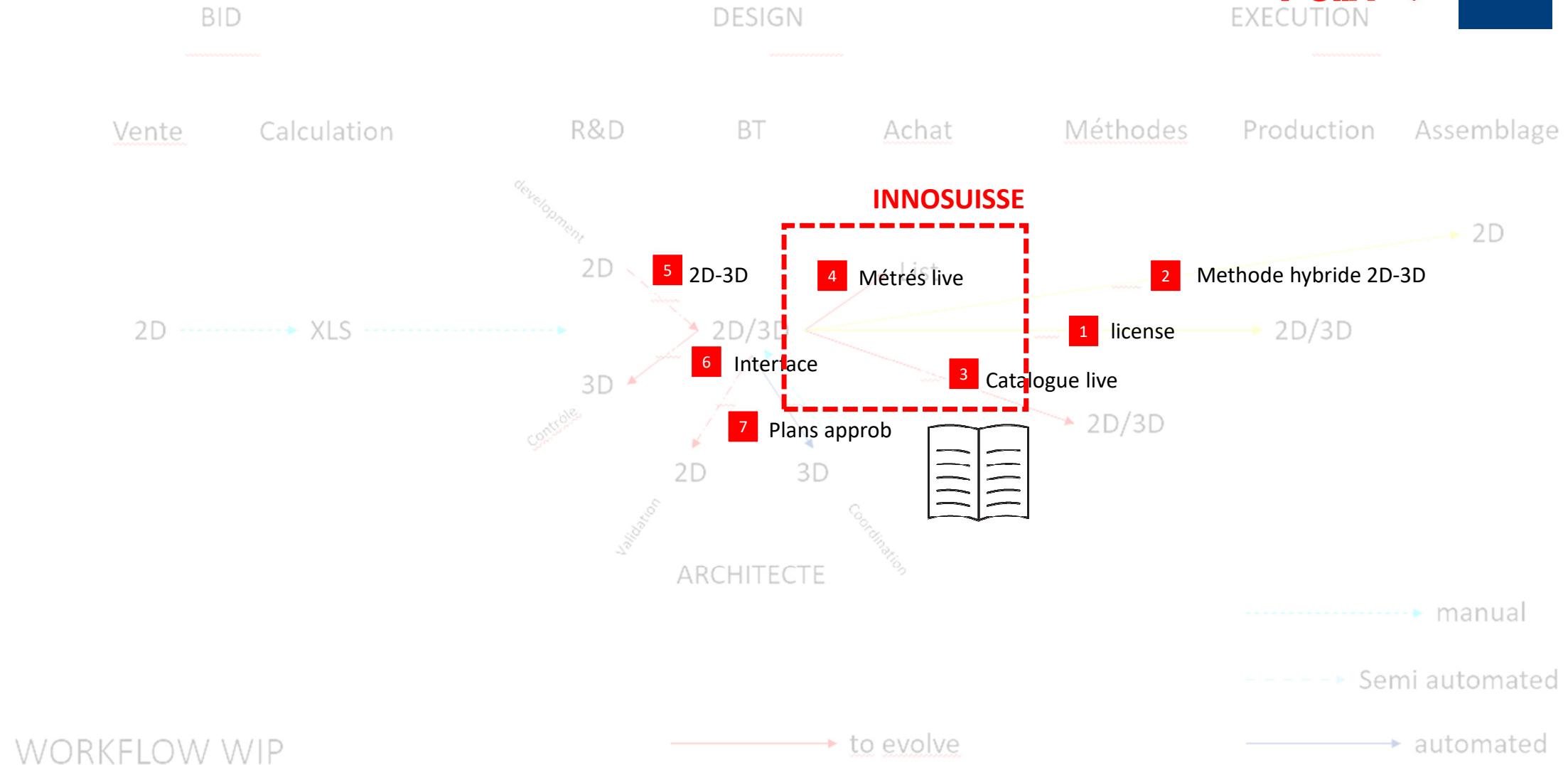
Félix MÉTHODE SEMI - AUTOMATIQUE DE GENERATION DE PANNEAUX:



Félix WORKFLOW & Innosuisse
Développement continu







GENERATIVE NOMENCLATURE

VARIABLES

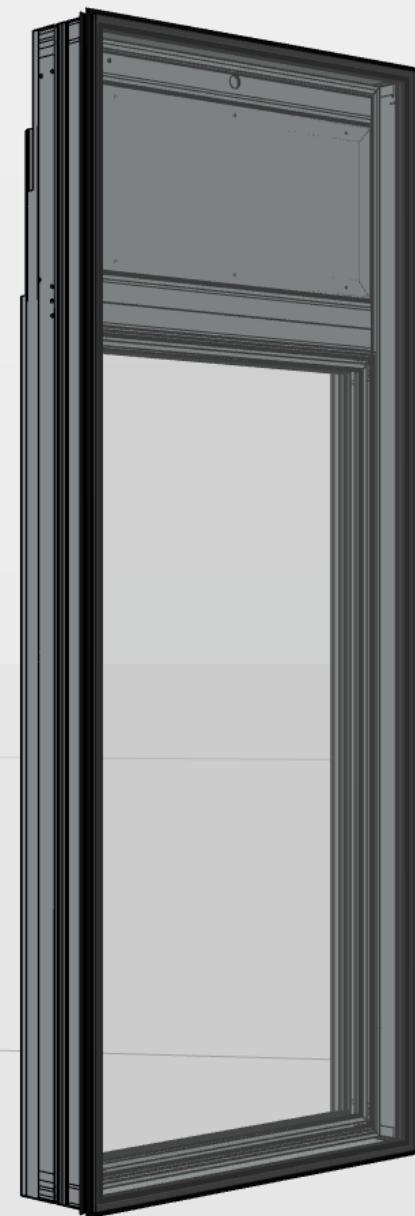
COMBINED VARIABLES

Art N°	1	2	3	4	5	6	7	8	9	10	11	12	0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Parameters																			
Elevation	1	2	3	1	2	3	3	3	0	0	0	0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
Ouvrant	true	true	true	true	true	true	false	mu	true	true	true	true	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
AB	1.4	1.4	1.4	1.2	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
BC	3.7	3.9	3.9	3.7	3.9	3.9	3.9	3.9	3.3	3.9	3.3	3.9	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
CD	1.4	1.4	1.4	1.2	1.2	1.2	1.2	1.2	1.4	1.4	1.2	1.2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
DA	3.7	3.9	3.9	3.7	3.9	3.9	3.9	3.9	3.3	3.9	3.3	3.9	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
Indices																			
Idx El	1	2	3	1	2	3	3	3	4	4	4	4							
Idx Ouvr	1	1	1	1	1	1	2	3	1	1	1	1							
Idx AB	1	1	1	2	2	2	2	2	1	1	2	2							
Idx BC	1	2	2	1	2	2	2	2	3	2	3	2							
Idx CD	1	1	1	2	2	2	2	2	1	1	2	2							
Idx DA	1	2	2	1	2	2	2	2	3	2	3	2							
Idx AB BC	1	2	2	3	4	4	4	4	5	2	6	4							
Idx El AB	1	2	3	4	5	6	6	6	7	7	8	8							
Idx El BC	1	2	3	1	2	3	3	3	4	5	4	5							
Idx El AB BC	1	2	3	4	5	6	6	6	7	8	9	10							
Idx El Ouvr AB	1	2	3	4	5	6	7	8	9	9	10	10							
Idx El Ouvr BC	1	2	3	1	2	3	4	5	6	7	6	7							
Idx El Ouvr AB BC	1	2	3	4	5	6	7	8	9	10	11	12							

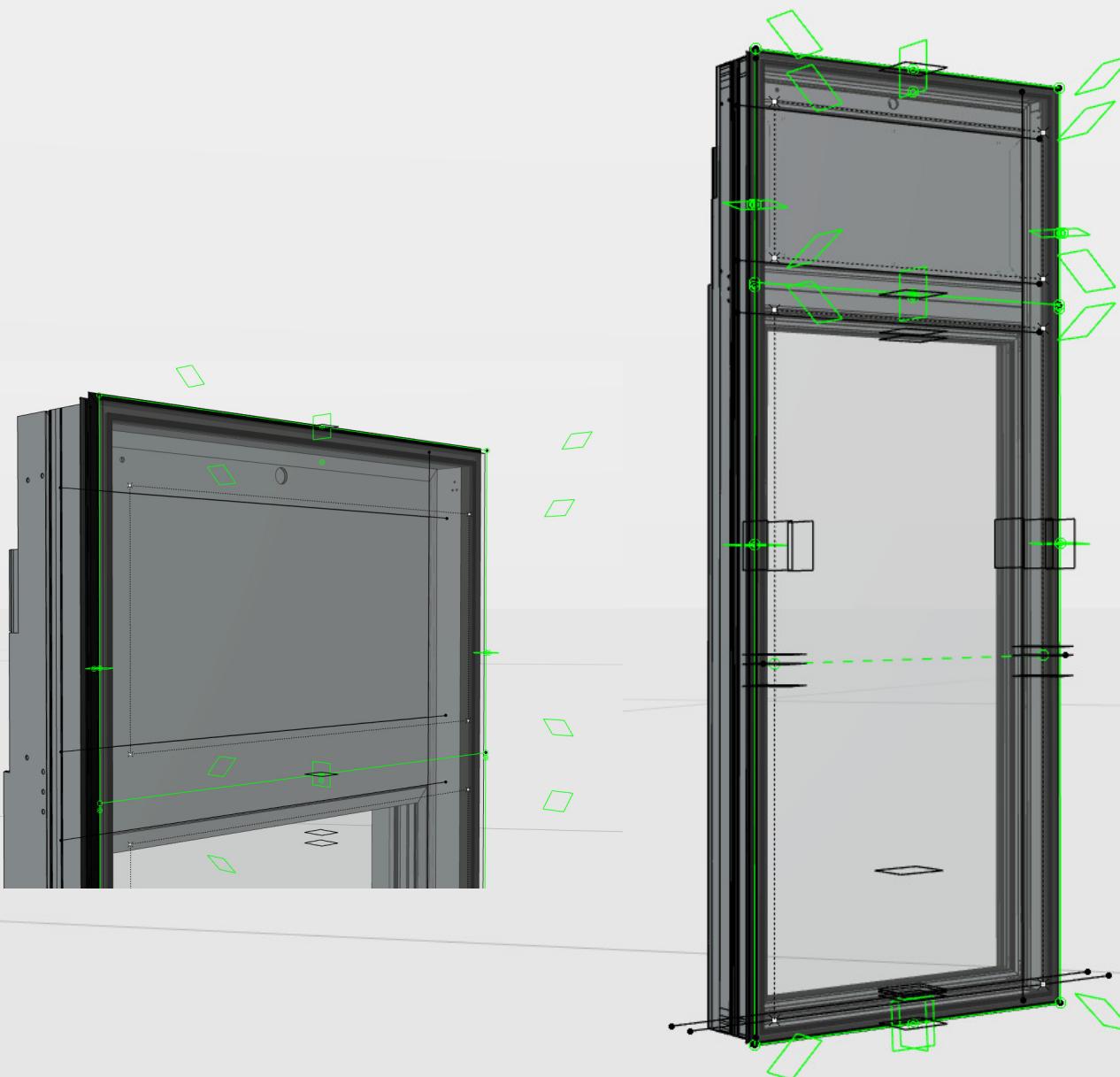
AU DE NOMENCLATURE DES ELEMENTS

Félix MODELING HISTORY

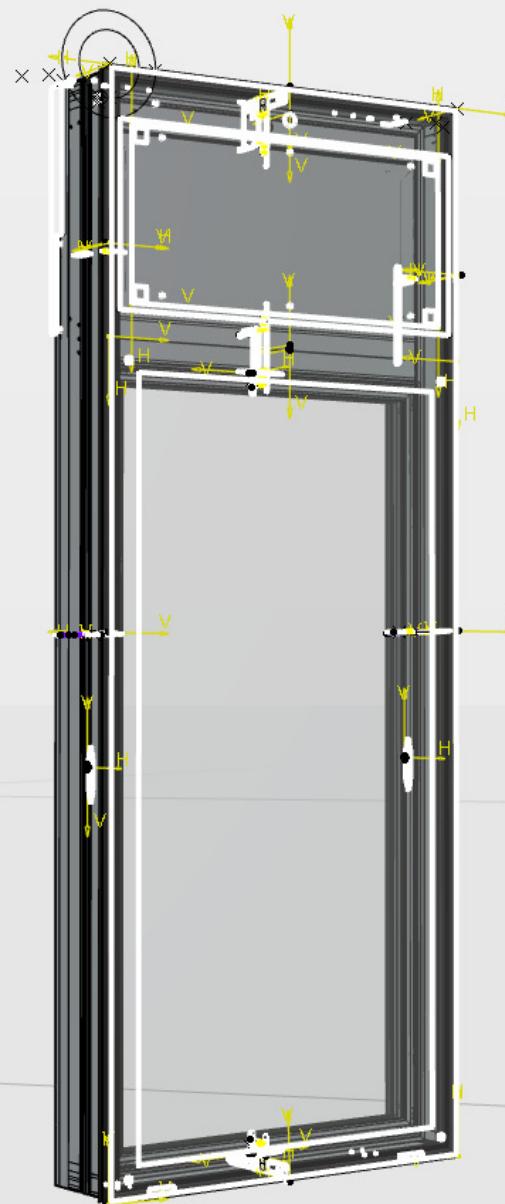
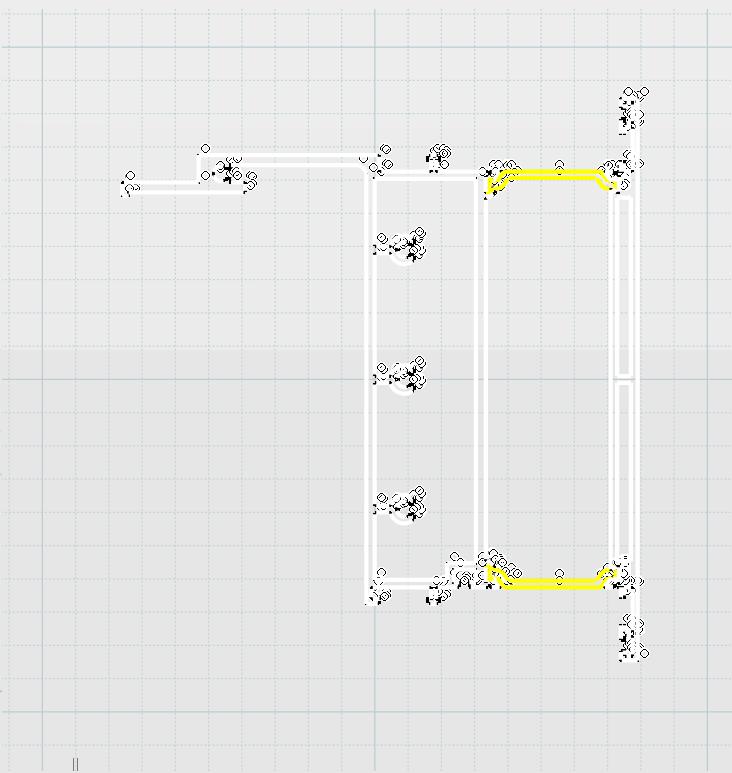
PARAMETRICS & ASSOCIATIVITY



PANNEAU STANDARD: 101 PIÈCES
A1000



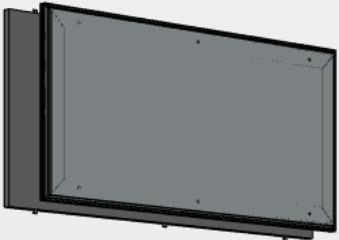
FILAIRE PARAMETRIQUE
S1_DRV



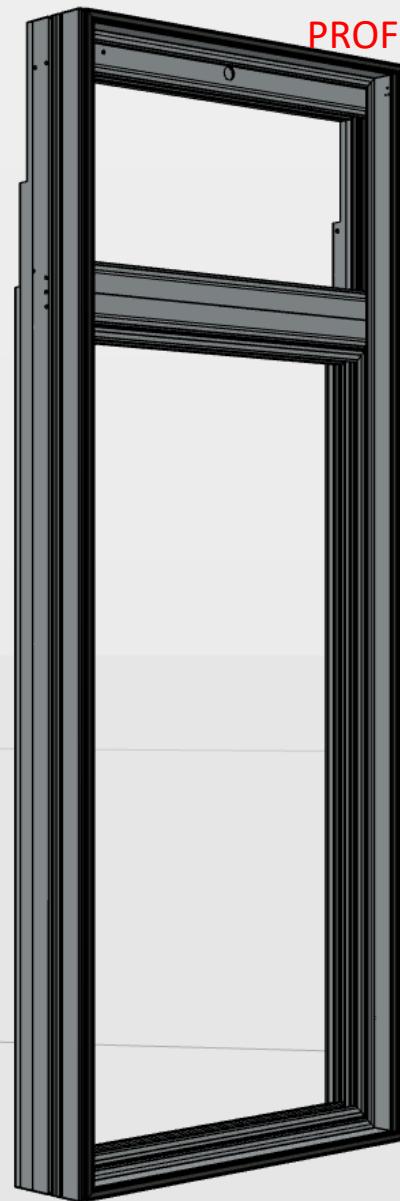
SKETCHES - ESQUISSE
S1_DRV

PIECES ELASTIQUES

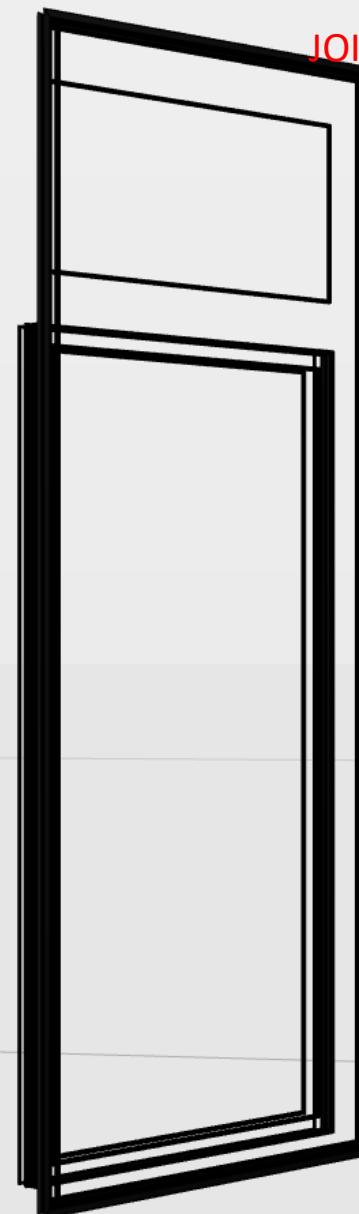
ALLEGÉ



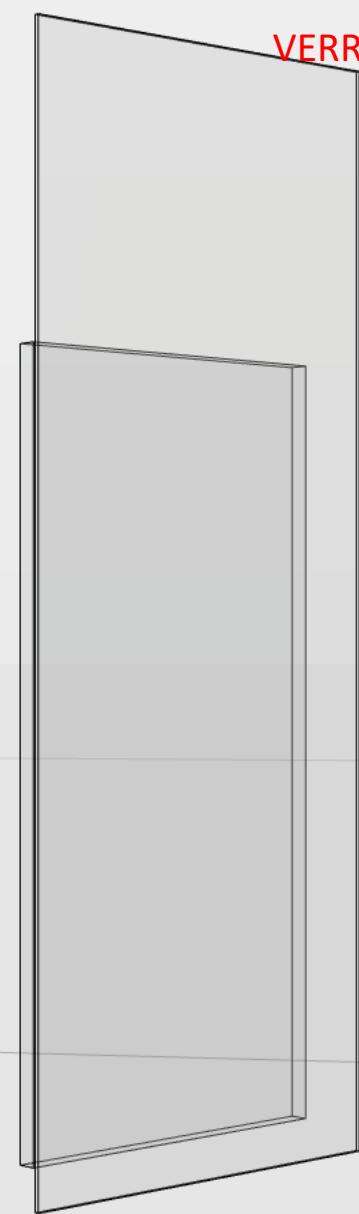
PROFILES



JOINTS

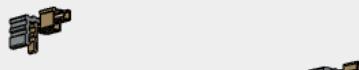


VERRES



PIECES PONCTUELLES

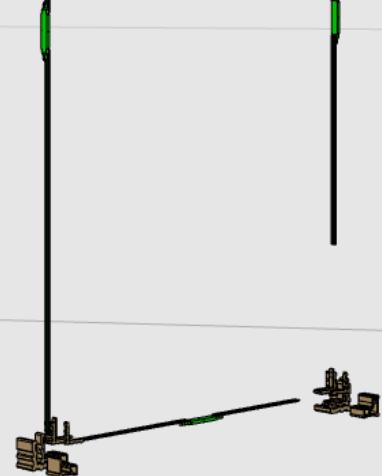
equerres



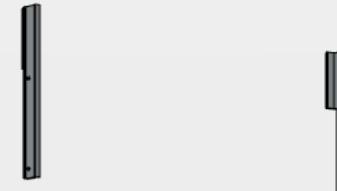
guides



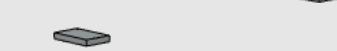
tringlerie



crochets



accrochage



Félix ELEMENT GENEALOGY
MODELING HISTORY AND MORPHOLOGY INHERITANCE



S1

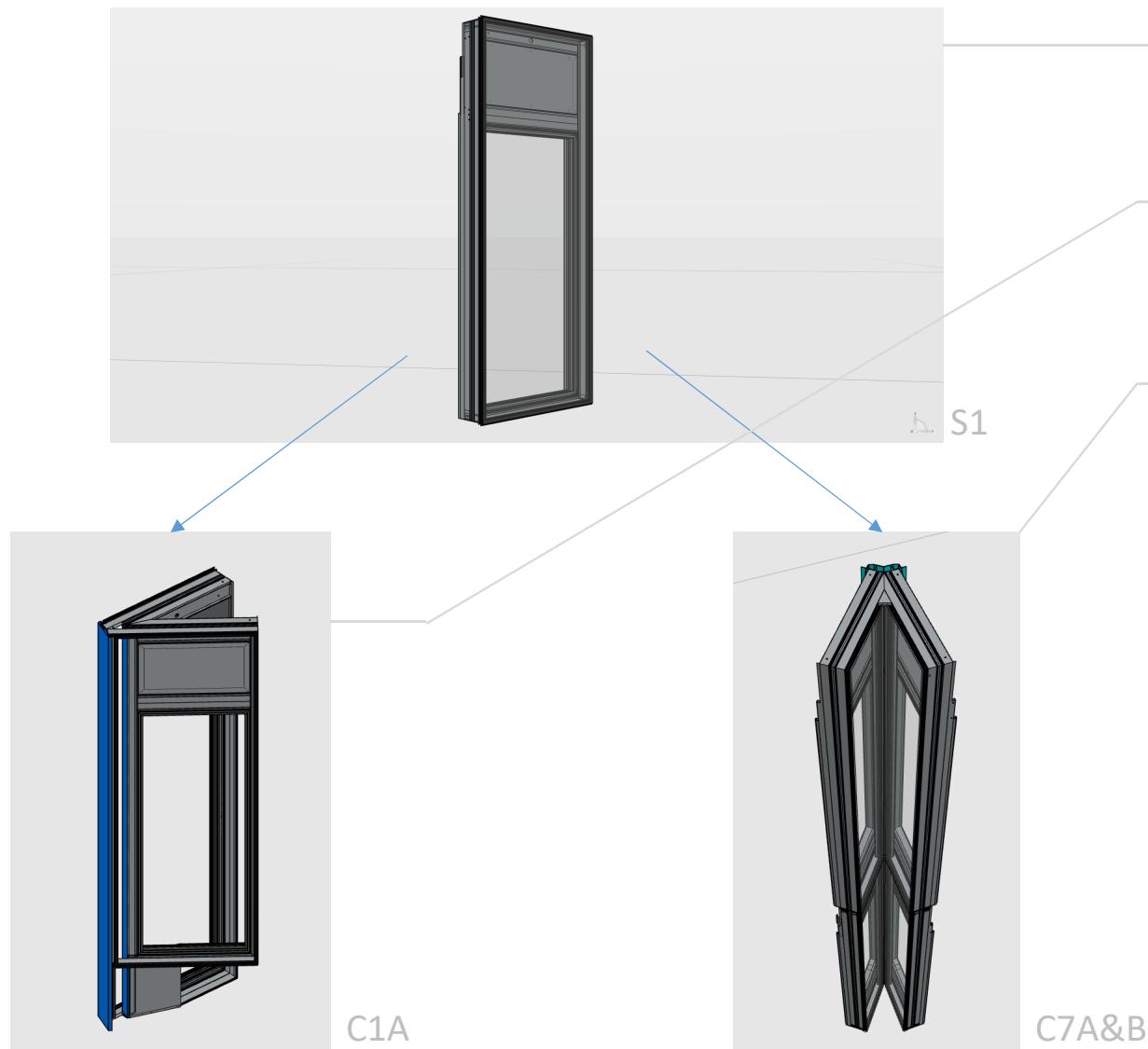
	TYPE	SUBTYPE	VISION	SPANDREL	BLINDS	HEIGHT (mm)
EWS-01	S1	a	✓	✓	✓	3900
		b	✓	✓	✓	2100
		c	✓	✓	✓	3900
		d	✓	✓	✓	2700
		e	✓	✓	✓	2400
		f	✓	✓	✓	3900
		g	✓	✓	✓	3900
		h	✓	✓	✓	3900
	S2	a	✓	✓	✓	3900
		b	✓	✓	✓	3900
		c	✓	✓	✓	7800
		d	✓	✓	✓	7800
		e	✓	✓	✓	7800
		f	✓	✓	✓	7800
		g	✓	✓	✓	7800
		h	✓	✓	✓	7800
	S3	a	✓	✓	✓	7800
		b	✓	✓	✓	3900
		c	✓	✓	✓	3900
		d	✓	✓	✓	3900
		e	✓	✓	✓	3900
		f	✓	✓	✓	3900
		g	✓	✓	✓	3900
		h	✓	✓	✓	3900
	S4	a	✓	✓	✓	7800
		b	✓	✓	✓	3900
		c	✓	✓	✓	3900
		d	✓	✓	✓	3900
		e	✓	✓	✓	3900
		f	✓	✓	✓	3900
		g	✓	✓	✓	3900
		h	✓	✓	✓	3900
	S5	a	✓	✓	✓	7800
		b	✓	✓	✓	3900
		c	✓	✓	✓	3900
		d	✓	✓	✓	3900
		e	✓	✓	✓	3900
		f	✓	✓	✓	3900
		g	✓	✓	✓	3900
		h	✓	✓	✓	3900
	S6	a	✓	✓	✓	800
		b	✓	✓	✓	800
		c	✓	✓	✓	800
		d	✓	✓	✓	800
		e	✓	✓	✓	800
		f	✓	✓	✓	800
		g	✓	✓	✓	800
		h	✓	✓	✓	800
	S7	a	✓	✓	✓	varies
		b	✓	✓	✓	varies
		c	✓	✓	✓	varies
		d	✓	✓	✓	varies
		e	✓	✓	✓	varies
		f	✓	✓	✓	varies
		g	✓	✓	✓	varies
		h	✓	✓	✓	varies
	C1	a	✓	✓	✓	3900-3900
		b	✓	✓	✓	3900-3900
		c	✓	✓	✓	3900-3900
		d	✓	✓	✓	3900-3900
		e	✓	✓	✓	3900-3900
		f	✓	✓	✓	3900-3900
		g	✓	✓	✓	3900-3900
		h	✓	✓	✓	3900-3900
	C2	a	✓	✓	✓	3900-3900
		b	✓	✓	✓	3900-3900
		c	✓	✓	✓	3900-3900
		d	✓	✓	✓	3900-3900
		e	✓	✓	✓	3900-3900
		f	✓	✓	✓	3900-3900
		g	✓	✓	✓	3900-3900
		h	✓	✓	✓	3900-3900
	C3	a	✓	✓	✓	3900-3900
		b	✓	✓	✓	3900-3900
		c	✓	✓	✓	3900-3900
		d	✓	✓	✓	3900-3900
		e	✓	✓	✓	3900-3900
		f	✓	✓	✓	3900-3900
		g	✓	✓	✓	3900-3900
		h	✓	✓	✓	3900-3900
	C4	a	✓	✓	✓	3900-3900
		b	✓	✓	✓	3900-3900
		c	✓	✓	✓	3900-3900
		d	✓	✓	✓	3900-3900
		e	✓	✓	✓	3900-3900
		f	✓	✓	✓	3900-3900
		g	✓	✓	✓	3900-3900
		h	✓	✓	✓	3900-3900
	C5	a	✓	✓	✓	3900-3900
		b	✓	✓	✓	3900-3900
		c	✓	✓	✓	3900-3900
		d	✓	✓	✓	3900-3900
		e	✓	✓	✓	3900-3900
		f	✓	✓	✓	3900-3900
		g	✓	✓	✓	3900-3900
		h	✓	✓	✓	3900-3900
	C6	a	✓	✓	✓	7800
		b	✓	✓	✓	7800
		c	✓	✓	✓	7800
		d	✓	✓	✓	7800
		e	✓	✓	✓	7800
		f	✓	✓	✓	7800
		g	✓	✓	✓	7800
		h	✓	✓	✓	7800

Left hung inner operable TGU

Right hung inner operable TGU

Inner non operable TGU (to match the appearance of operable TGUs)

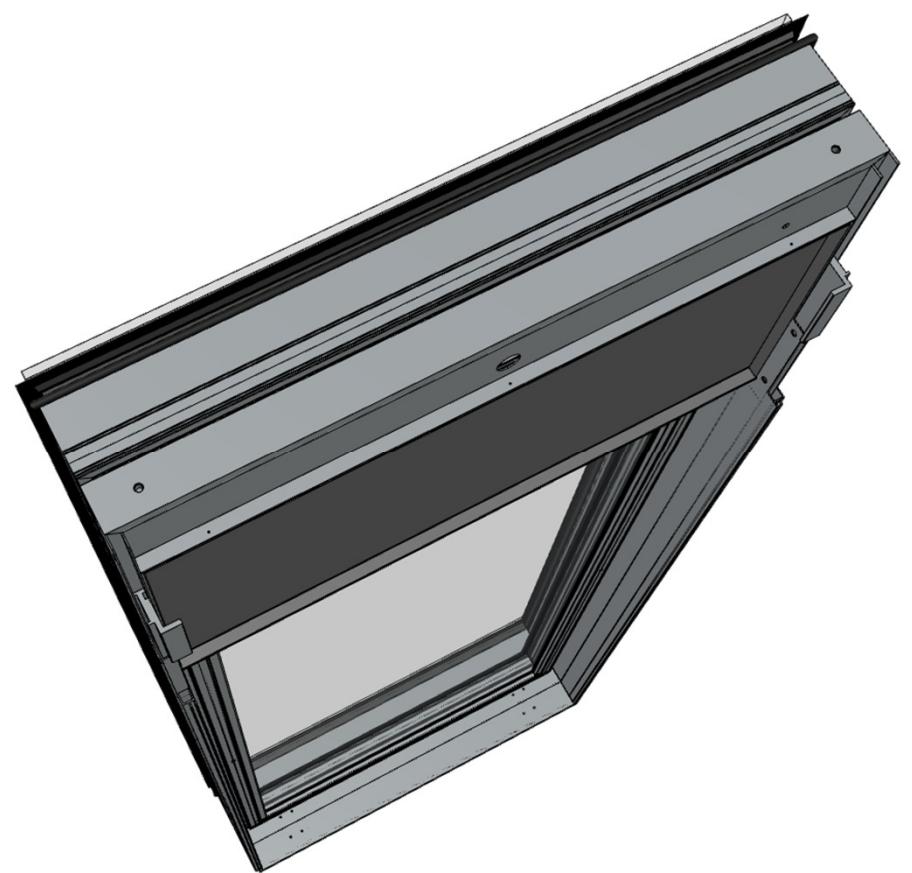
Reversible inner wooden frames at different positions (for cavity access)

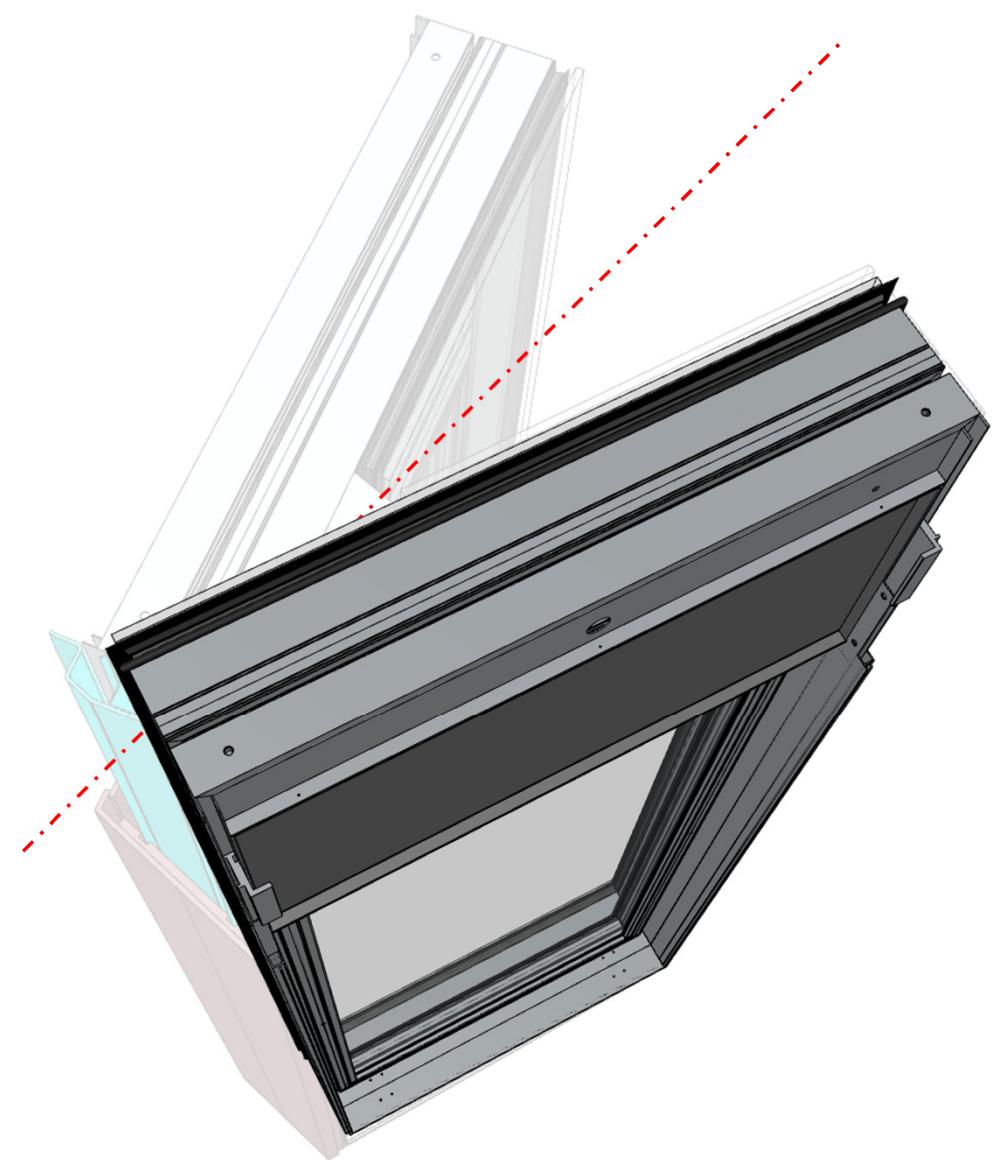


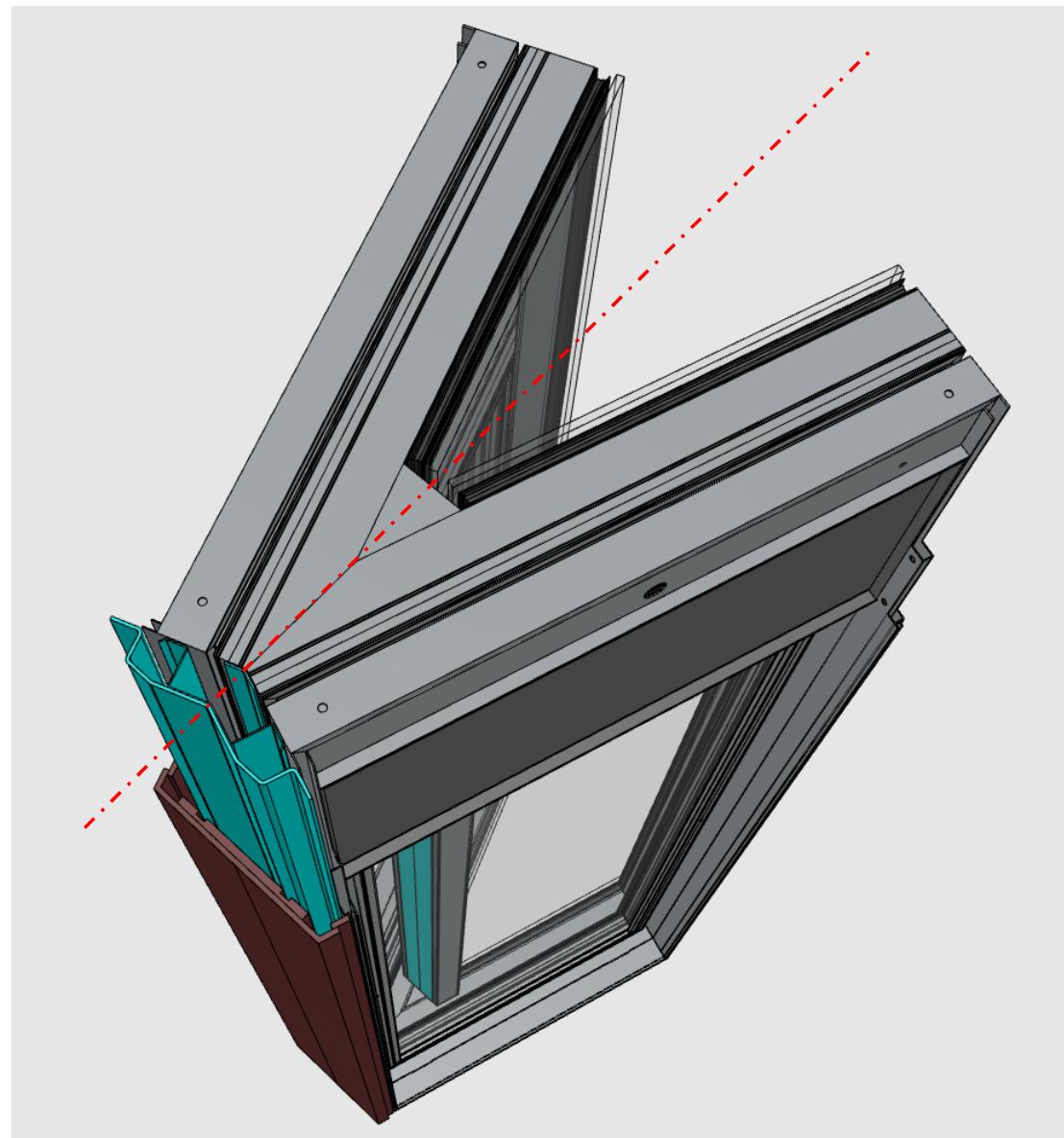
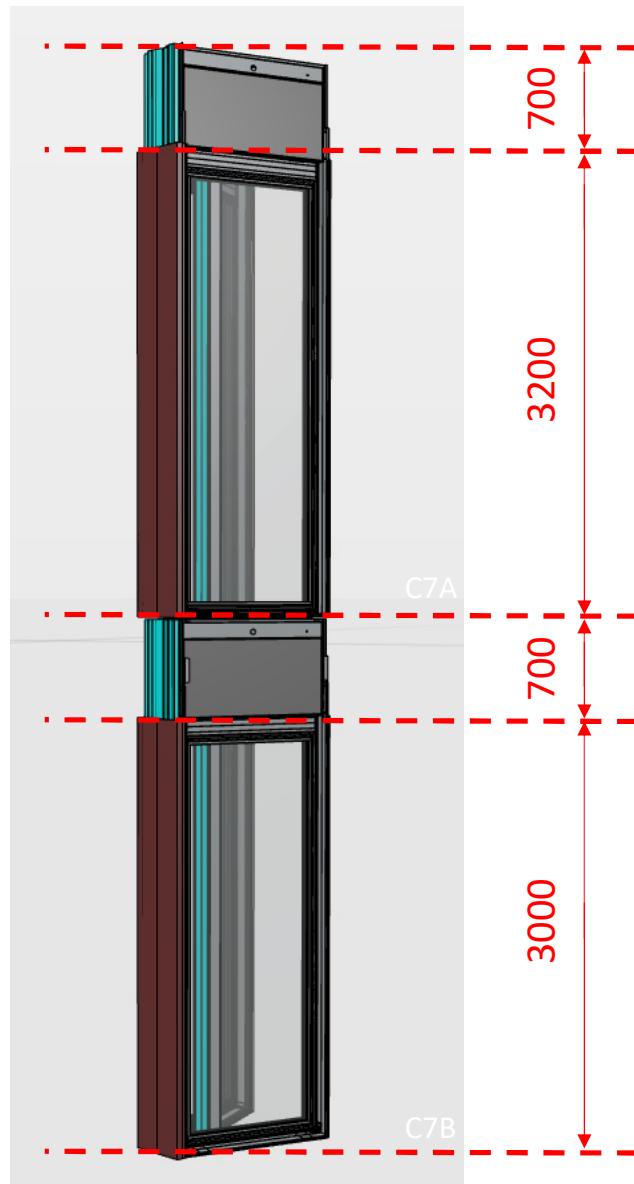
	TYPE	SUBTYPE	VISION	SPANDREL	BLINDS	HEIGHT (mm)
EWS-01	S1	a	✓	✓	✓	3900
		b	✓	✓	✓	2100
		c	✓	✓	✓	3300
		d	✓	✓	✓	2700
		e	✓	✓	✓	2400
		f	✓	✓	✓	3000
		g	✓	✓	✓	3600
		h	✓	✓	✓	3300
		i	✓	✓	✓	3600
		j	✓	✓	✓	3600
		k	✓	✓	✓	3600
		l	✓	✓	✓	3600
		m	✓	✓	✓	3600
		n	✓	✓	✓	3600
		o	✓	✓	✓	3600
		p	✓	✓	✓	7800
		q	✓	✓	✓	7800
		r	✓	✓	✓	7800
		s	✓	✓	✓	7800
		t	✓	✓	✓	800
		u	✓	✓	✓	varies
		v	✓	✓	✓	varies
		w	✓	✓	✓	varies
		x	✓	✓	✓	3600-3900
		y	✓	✓	✓	3600-3900
		z	✓	✓	✓	3600-3900
		aa	✓	✓	✓	3600-3900
		bb	✓	✓	✓	3600-3900
		cc	✓	✓	✓	3600-3900
		dd	✓	✓	✓	3600-3900
		ee	✓	✓	✓	3300-3300
		ff	✓	✓	✓	3300-3300
		gg	✓	✓	✓	3300-3300
		hh	✓	✓	✓	3300-3300
		ii	✓	✓	✓	3300-3300
		jj	✓	✓	✓	3300-3300
		kk	✓	✓	✓	3300-3300
		ll	✓	✓	✓	3300-3300
		mm	✓	✓	✓	3300-3300
		nn	✓	✓	✓	3300-3300
		oo	✓	✓	✓	3300-3300
		pp	✓	✓	✓	3300-3300
		qq	✓	✓	✓	3300-3300
		rr	✓	✓	✓	3300-3300
		ss	✓	✓	✓	3300-3300
		tt	✓	✓	✓	3300-3300
		uu	✓	✓	✓	3300-3300
		vv	✓	✓	✓	3300-3300
		ww	✓	✓	✓	3300-3300
		xx	✓	✓	✓	3300-3300
		yy	✓	✓	✓	3300-3300
		zz	✓	✓	✓	3300-3300
		aa	✓	✓	✓	3300-3300
		bb	✓	✓	✓	3300-3300
		cc	✓	✓	✓	3300-3300
		dd	✓	✓	✓	3300-3300
		ee	✓	✓	✓	3300-3300
		ff	✓	✓	✓	2700-2700
		gg	✓	✓	✓	2700-2700
		hh	✓	✓	✓	2700-2700
		ii	✓	✓	✓	2700-2700
		jj	✓	✓	✓	2700-2700
		kk	✓	✓	✓	2700-2700
		ll	✓	✓	✓	2700-2700
		mm	✓	✓	✓	2700-2700
		nn	✓	✓	✓	2700-2700
		oo	✓	✓	✓	2700-2700
		pp	✓	✓	✓	2700-2700
		qq	✓	✓	✓	2700-2700
		rr	✓	✓	✓	2700-2700
		ss	✓	✓	✓	2700-2700
		tt	✓	✓	✓	2700-2700
		uu	✓	✓	✓	2700-2700
		vv	✓	✓	✓	2700-2700
		ww	✓	✓	✓	2700-2700
		xx	✓	✓	✓	2700-2700
		yy	✓	✓	✓	2700-2700
		zz	✓	✓	✓	3100-3100

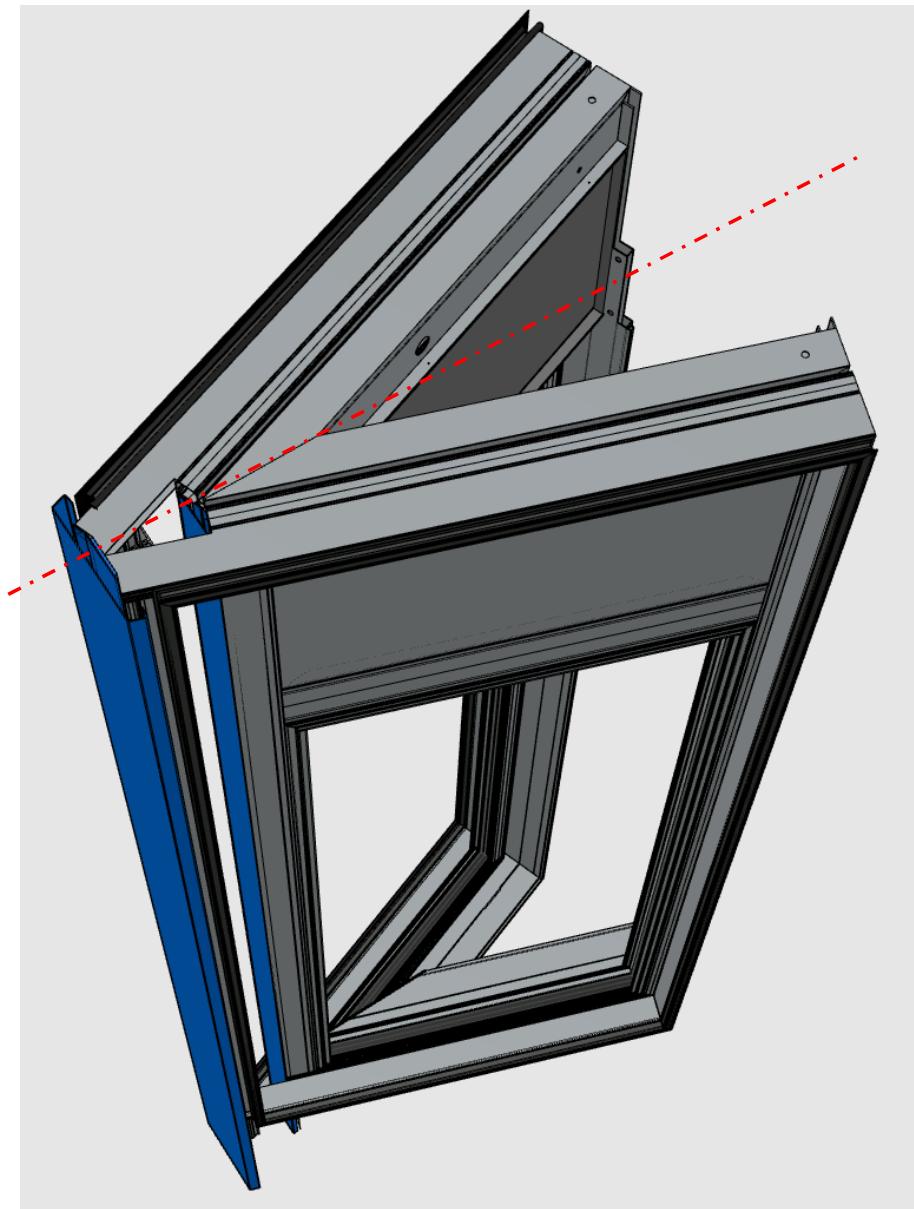
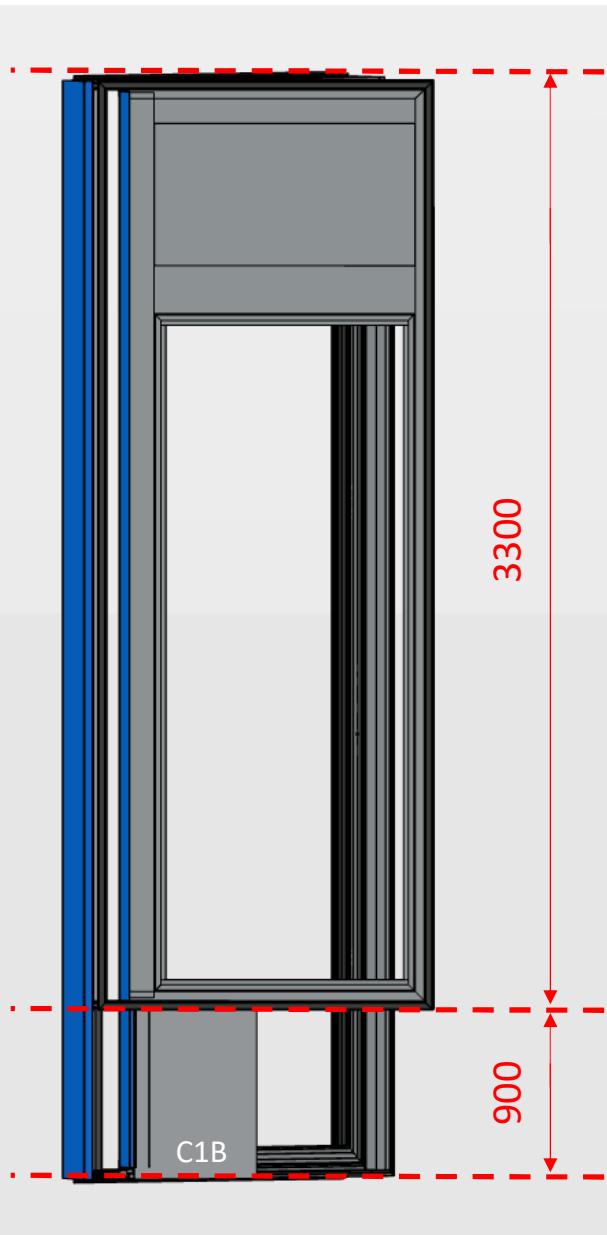
Legend:

- Left hung inner operable TGU
- Right hung inner operable TGU
- Inner non operable TGU (to match the appearance of operable TGUs)
- Reversible inner wooden panels at bottom mullions (for cavity access)







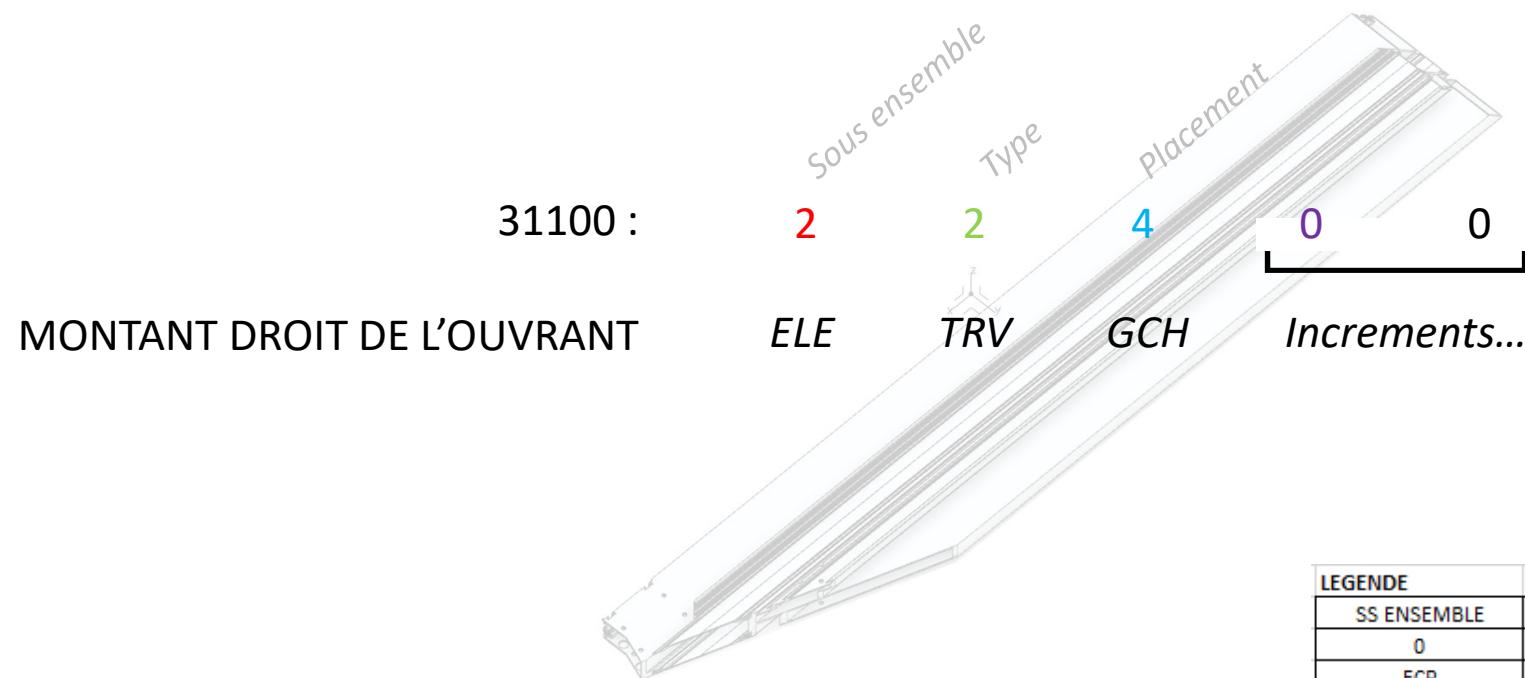


Félix

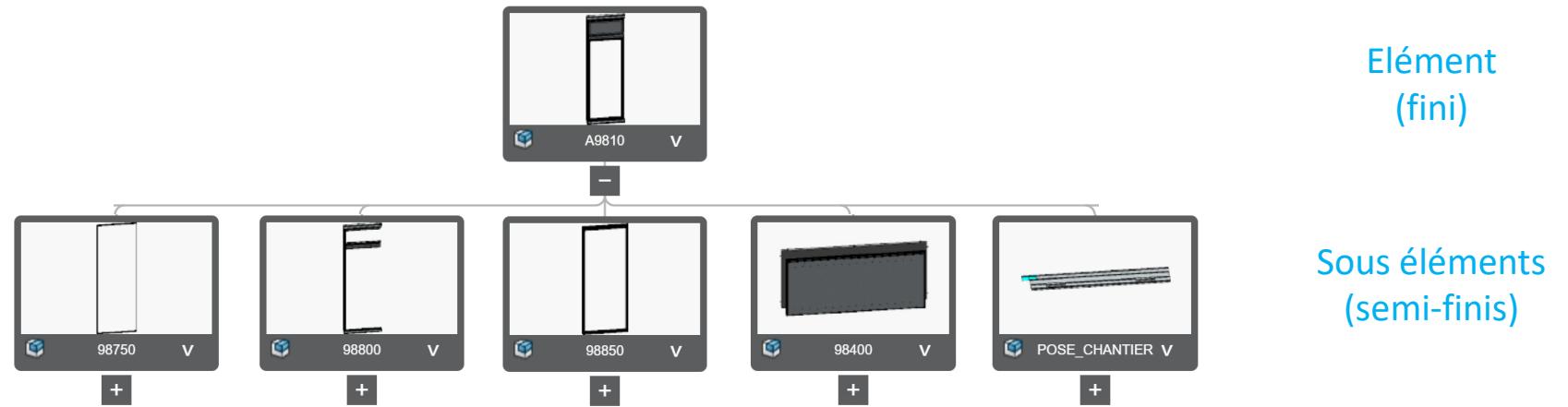
ARBORESCENCE - TREE STRUCTURE OF A "STANDARD" ELEMENT
DATA PACKAGING & DESIGN SYSTEM

DESIGN TO FABRICATION

Nomenclature Arborescente:



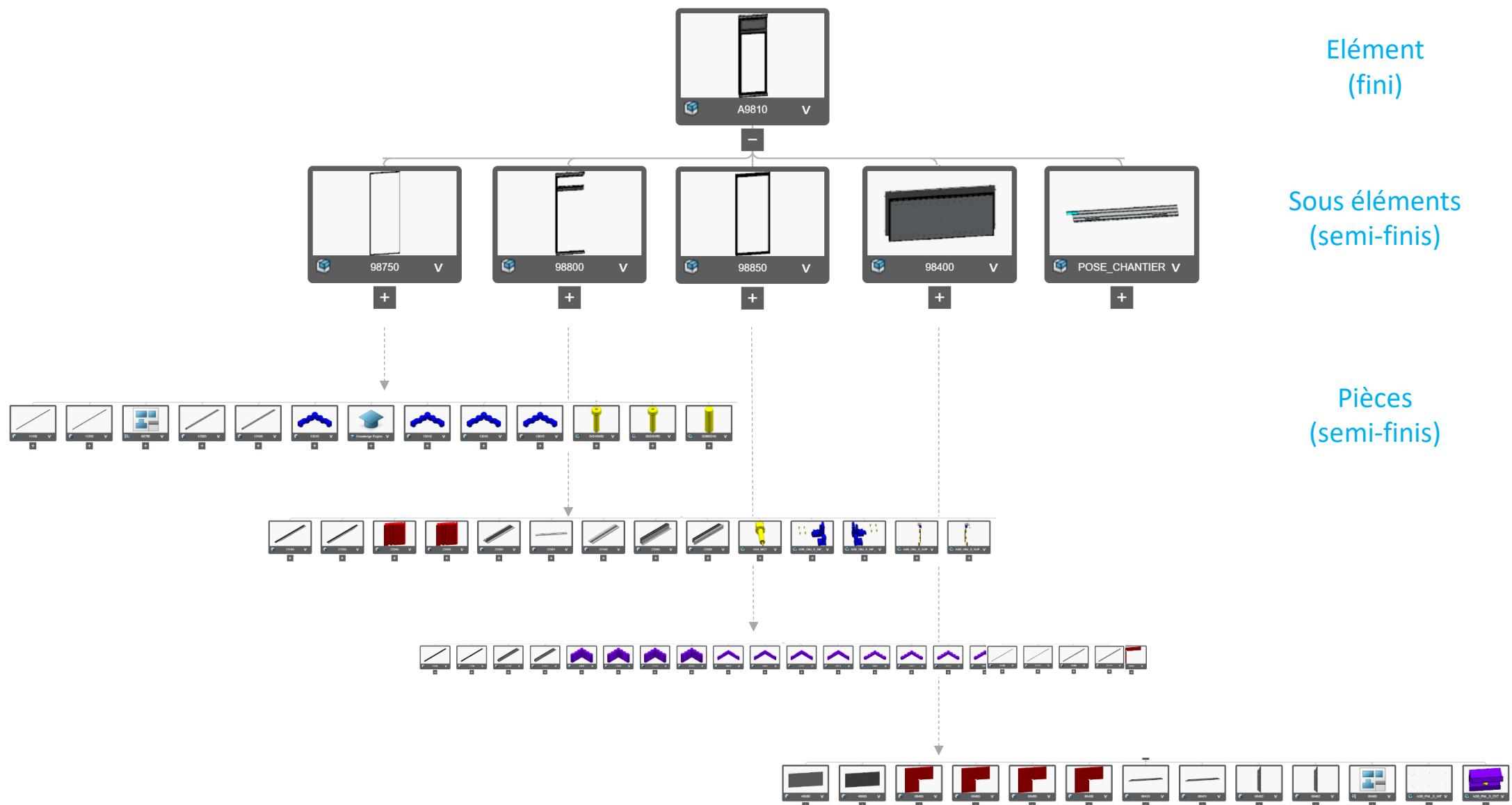
LEGENDE					
SS ENSEMBLE		TYPE		PLACEMENT	SOUS TYPE
0	0	0	0	0	0
ECR	1	MON	1	DRT	1
ELE	2	TRV	2	GCH	2
OVT	3	ACR	3	INF	3
ALG	4	PCL	4	SUP	4
ACR	5	TGL	5	MED	5
ALE	6	CRE	6	MOT	6
AVT	7	TOL	7	AMV	7
ALA	8	JNT	8	EXT	8
CVT	9	VER	9	INT	9



Elément
(fini)

Sous éléments
(semi-finis)

Pièces
(semi-finis)



Pièces (semi-finis)

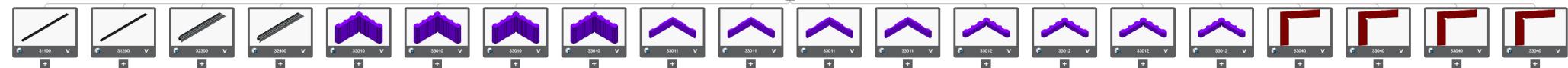
10020



20000



30000

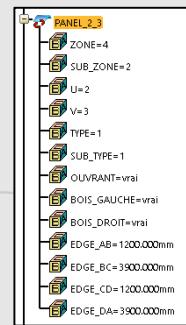
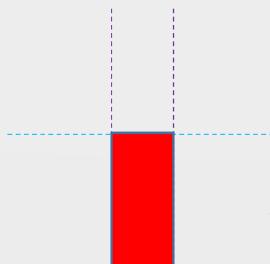


40000



Félix PRODUCTION DELIVERABLES

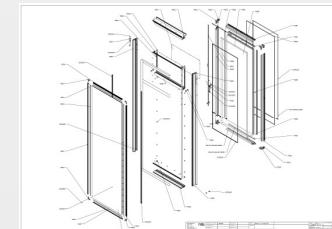
INPUTS



METADONNEES

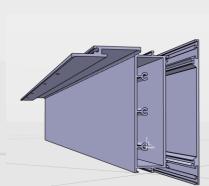


OUTPUTS

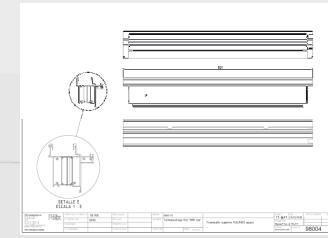


ENSEMBLE

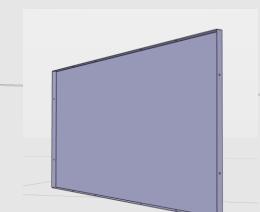
Tableau specs



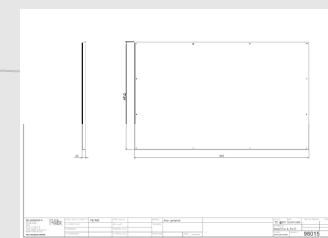
3D



USINAGE



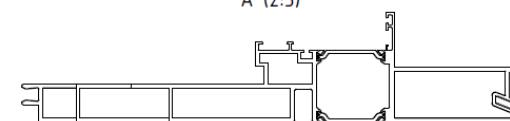
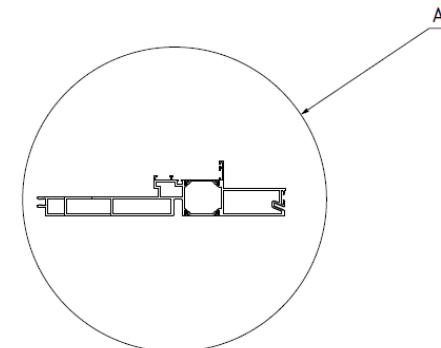
3D



TOLERIE

Show Action Bar

AUTOMATISATION DES DESSINS



PAIX constructions sa Route de la Pâle 14 1028 Denger Suisse		PROJET	ONU	MATERIEL	AI 6060 (10111/L=4200mm)	ZONE					ECH @A3		ARTICLE	DATE
N- APPRO FELIX	117009			TRAITEMENT	Eloxage E6-EV1 20 µm QUALANOD	ELEMENT MONTANT GAUCHE						A001	26.07.2018	
FACADE						[Revision Comment]					FICHIER	Dessinateur	DESSIN	REVISION
ETAGE				PROVENANCE	USERDEFINED	USI	TOL	SER	ASS	TRT	21200	paulehret	21200	A.1

Félix
Managing creativity

3DEXPERIENCE

3DEXPERIENCE | CATIA Drafting

Rechercher

Paul Ehret UNOG

EGT_INST_TEST A.1 Nouvel onglet 3 Produit physique00000326 Nouvel onglet 2

EGT_CONTEXT A.1

- EGT_PRCFDENT A.1 (EGT_PRCFDENT.1)
- ONU_PNL_STD_XX-XXX-UXX-VXX-XXX-XXXXX A.1 (ONU_PNL_STD_XX-XXX-UXX-VXX-XXX-XXXXX.1)
 - Spécification d'ingénierie physique0000022 A.1
 - Relations
 - Règle.1
 - Paramètres
 - PREFIX-ONU_PNL_STD
 - SUHIX=XX-XXX-UXX-VXX-XXX-XXXXX
- Produit physique00000326 A.1 (PROFILE_ONU_PNL_STD_XX-XXX-UXX-VXX-XXX-XXXXX)
 - Dessin00000201 A.1
 - Produit physique00000327 A.1 (Produit physique00000327.1)
 - PW_ONU_PANEL_STD A.1 (SKE_ONU_PNL_STD_XX-XXX-UXX-VXX-XXX-XXXXX)
 - PW_ONU_PANEL_STD A.1
 - Publications

Calque.2

Vues (3)

Nom Echelle Filtrer

1:10 1:10 1:10

1200mm

Configuration

EGT_CONTEXT A.1

Dessin00000201 A.1

Calque.2

FACE

DESSUS

DROITE

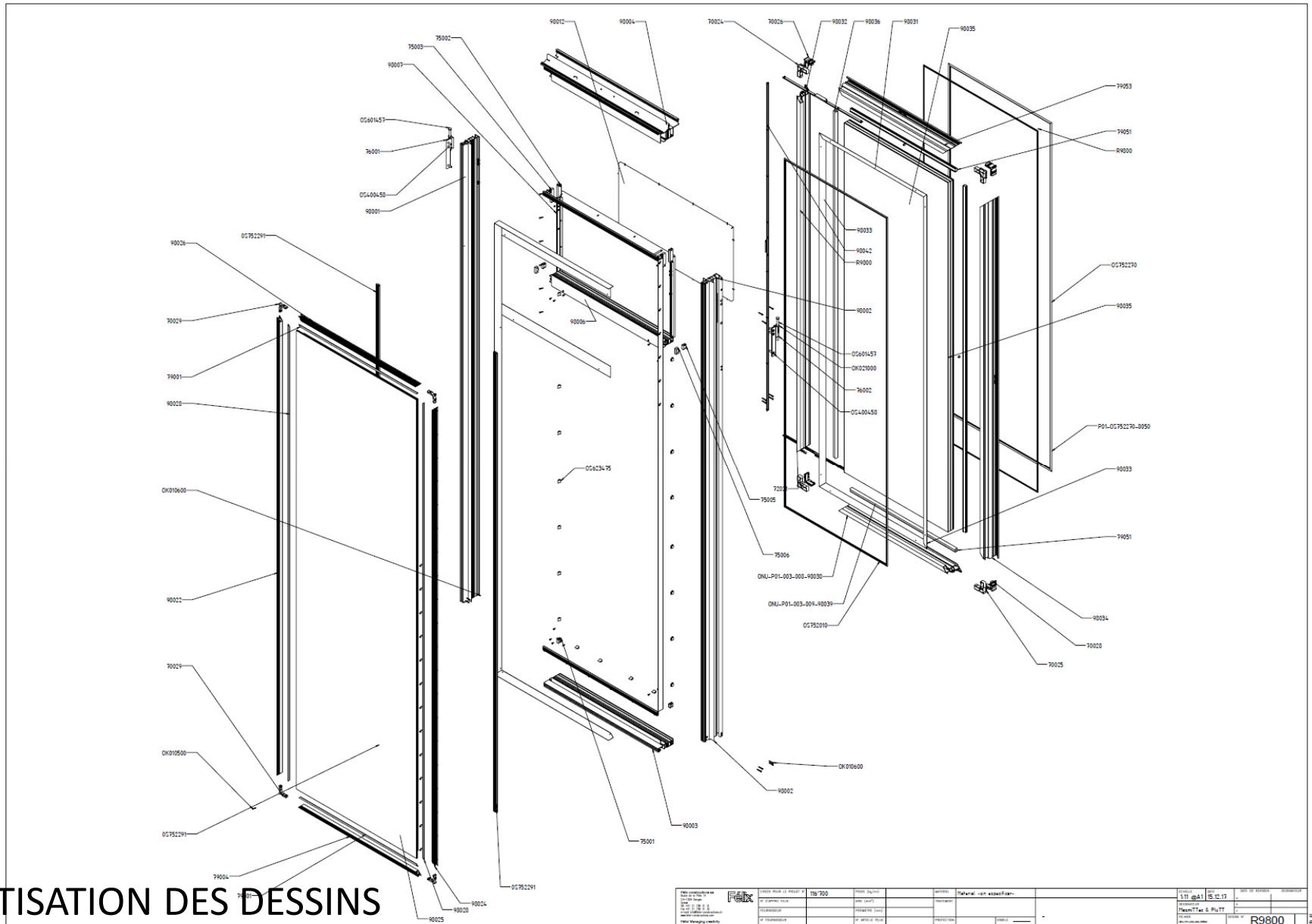
Vues (3)

Nom Echelle Filtrer

1:10 1:10 1:10

1200mm

Configuration



AUTOMATISATION DES DESSINS

ONU - TABLEAU DE NOMENCLATURE DES ELEMENTS

COMPOSANTS N°Article N°plan 2D/3D SAGE ACHAT/PROD DESIGNATION

ELEMENT FINI

1 CADRE ECRAN

2 CADRE ELEMENT

3 OUVRANT

4000 361x

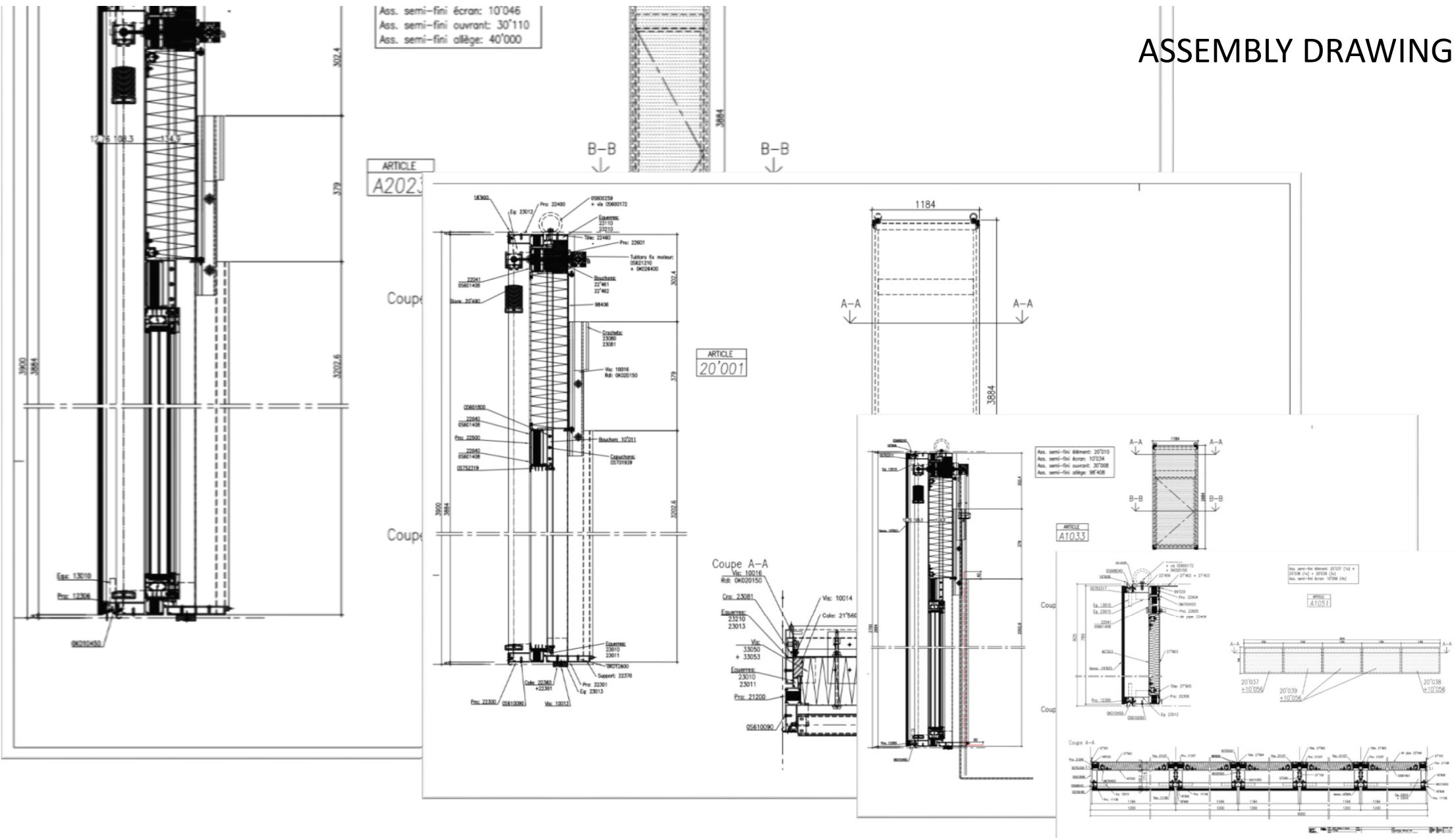
160 TYPES

2000+ PIECES

Extraction par position

ONU – EXTRACTION DE NOMENCLATURE PAR ELEMENT

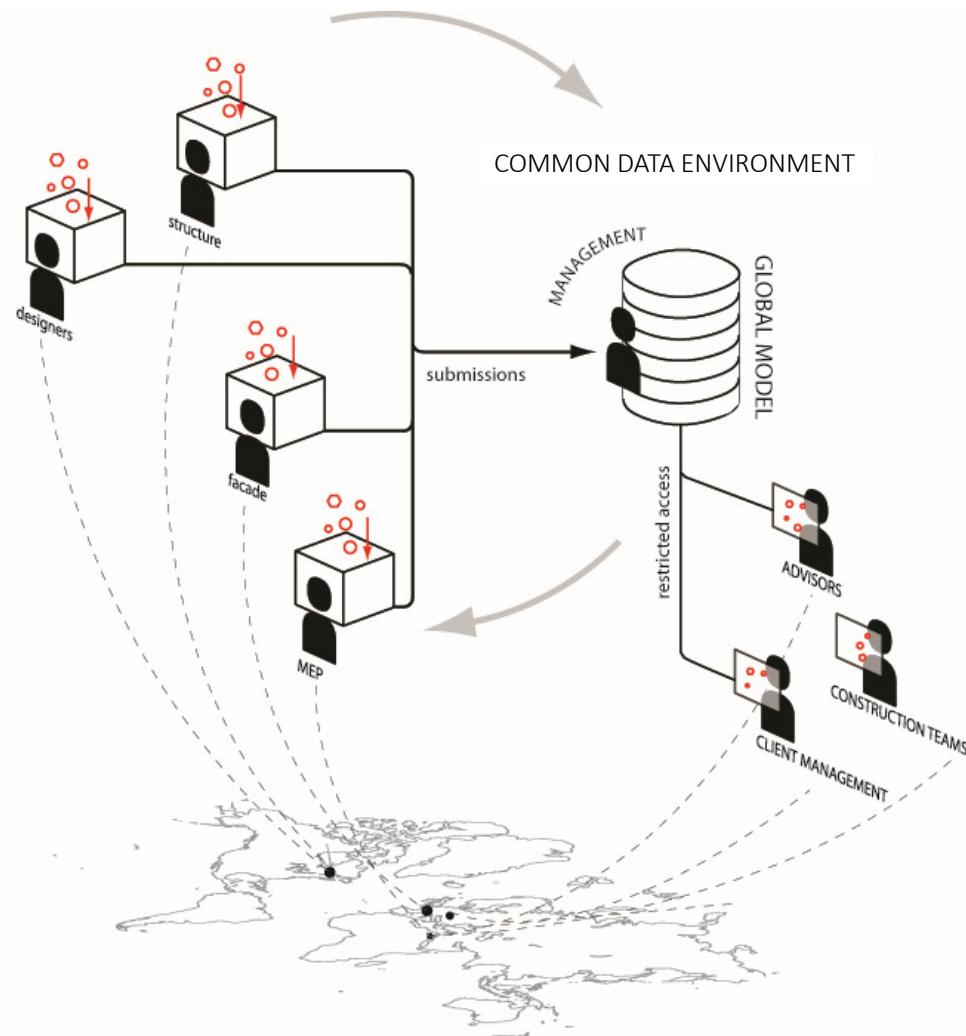
ASSEMBLY DRAWING



ONU PANELS COMPONENTS MODELISATION SPECIFICATIONS

	COMPOSANT	FORMAT	NOTES
Cadre ext.	Profil cadre ext	3D	
	Joint Cadre Ext.	2D	
	Verre cadre extérieur	2D & 3D	
	Equerre Sertissage	2D annotée	Trou Ø10.25(pour taraudage M12) sur equ. pour crochet de levage M12
	Barrete VEC	??	
	Tôle		Tôle ext. :Alu ép.3 mm (indiquer sens éloilage),Tôle int. : acier sendzimir brut ép. 2 mm
Ouv int.	plot inf.		Trou Ø5(pour taraudage M6) sur le plot
	Profil d'ouvrant		Trou Ø10 à l'axe + oblong Ø15x72 pour cremone
	Equerre Sertissage		
	Joint Ext. Ouv.		
	Joint Int. Ouv.		
	Verre ouvrant intérieur		
	Parclose	Verticales tjs sur Horizontales	2/10 tolerance avec le reste
	Joint butée ouv. int.		
	Capuchon	Prevoir pour ouvrant + traverse sup	
	Tringle	Trou Ø5.1 pour fixation œillet	
Squelette	Oeillets	Espace entre oeillet max. 400 mm	
	Crémone	x 4	
	Mousse Raccord		
	Mousse Raccord		
	Crochets	Trou Ø10.25(pour taraudage M12) sur equ. pour crochet	
	Montant droit	Trou Ø10 et Ø5 pour fixation avec traverse + trou Ø4.9 pour fixation sc store + découpe partie sup	
	Montant gauche	Trou Ø10 et Ø5 pour fixation avec traverse + trou Ø4.9 pour fixation sc store + découpe partie sup	
	Trav. Inf.	Trou de passage Ø6.2 pour fixation plot (prevoir fraisage pour vis TF M6)	
	Trav. Sup.	Trou de passage Ø12.5 pour crochet de levage M12	
	Trav. Sup. Mot	Trou de passage Ø37 pour axe moteur + trou de passage Ø11 + pré-trou Ø3 pour fixation tôle	
	Trav. Int.	Pré-trou Ø3 pour fixation tôle + trou Ø5(pour taraudage M6) pour fixation clip	
	Tôle ferm. Extérieur	Modélisation "vraie" /"fausse"	
	Tôle ferm. Intérieur	Modélisation "vraie" /"fausse"	
	Vis	Voir Vis en Stock	
	Vis fix Cadre extérieur		
	Rondelle fix crochet		
	Ecroux fix crochet		
	Ecroux vis Réglage		
	Vis Crochet		
	Vis Réglage		
	Gâche	Voir Catalogue	
	Isolation		
	Store		
	Pièce distributeur d'air sec	Voir Catalogue	

Félix PROJECT MANAGEMENT
CDE & COORDINATION



PLATEFORME COLLABORATIVE – **CDE** (COMMON DATA ENVIRONMENT)

WEB BROWSER

3DEXPERIENCE | 3DDashboard Paul's Dashboard

Search FELIX

ONU PLATFORM Getting Started Learn the Experience UNOG SVT TRAINING PROTO ONU

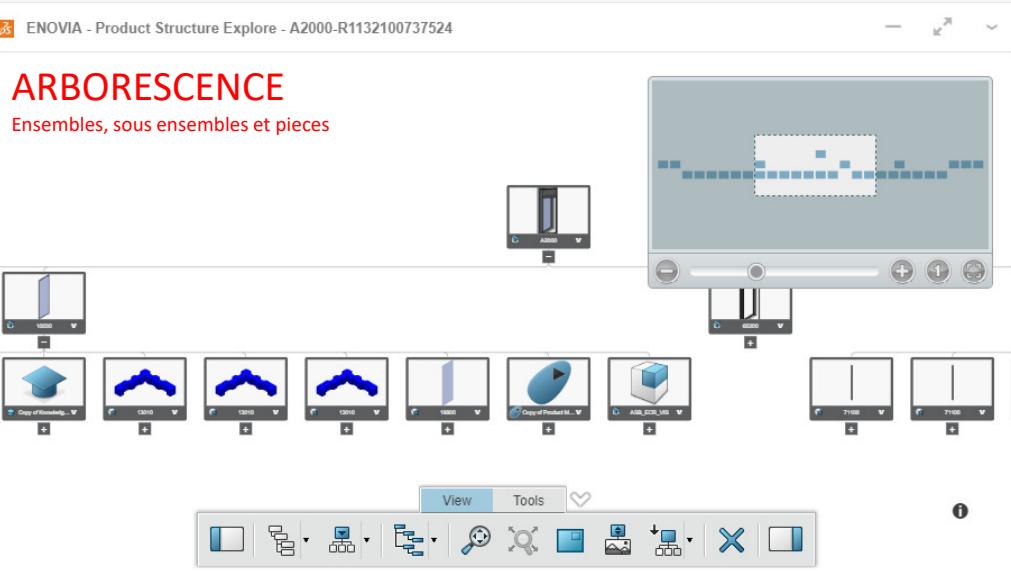
JuZu EmDe ViKr OIRi PaEh

INTERFACES
personnalisées

https://eu1-ifwe.3DEXPERIENCE.3ds.com/#dashboard:fae9499f-d42c-44c2-8401-bf85daba4b64/tab:PaEh

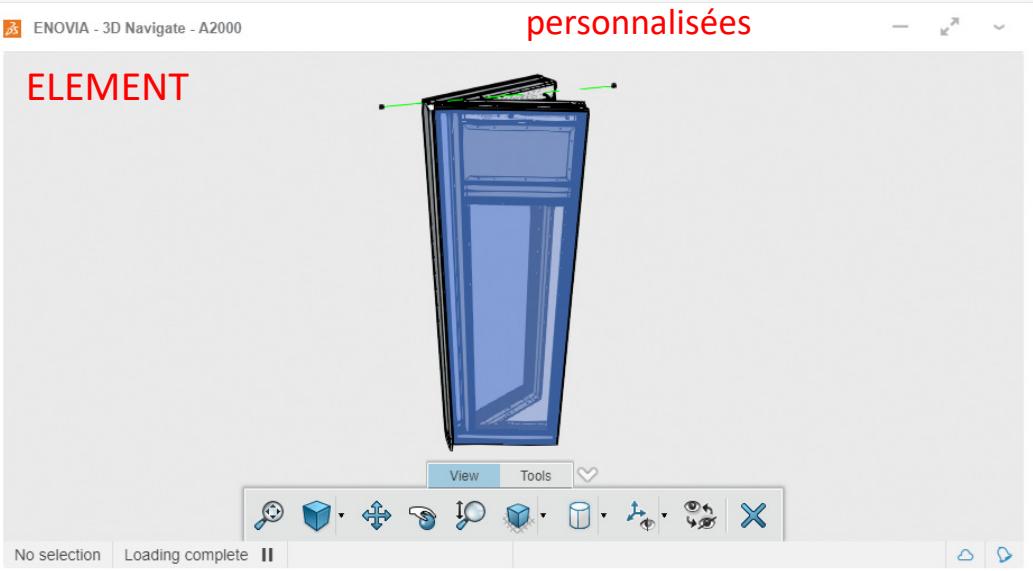
ENOVIA - Product Structure Explore - A2000-R1132100737524

ARBORESCENCE
Ensembles, sous ensembles et pièces



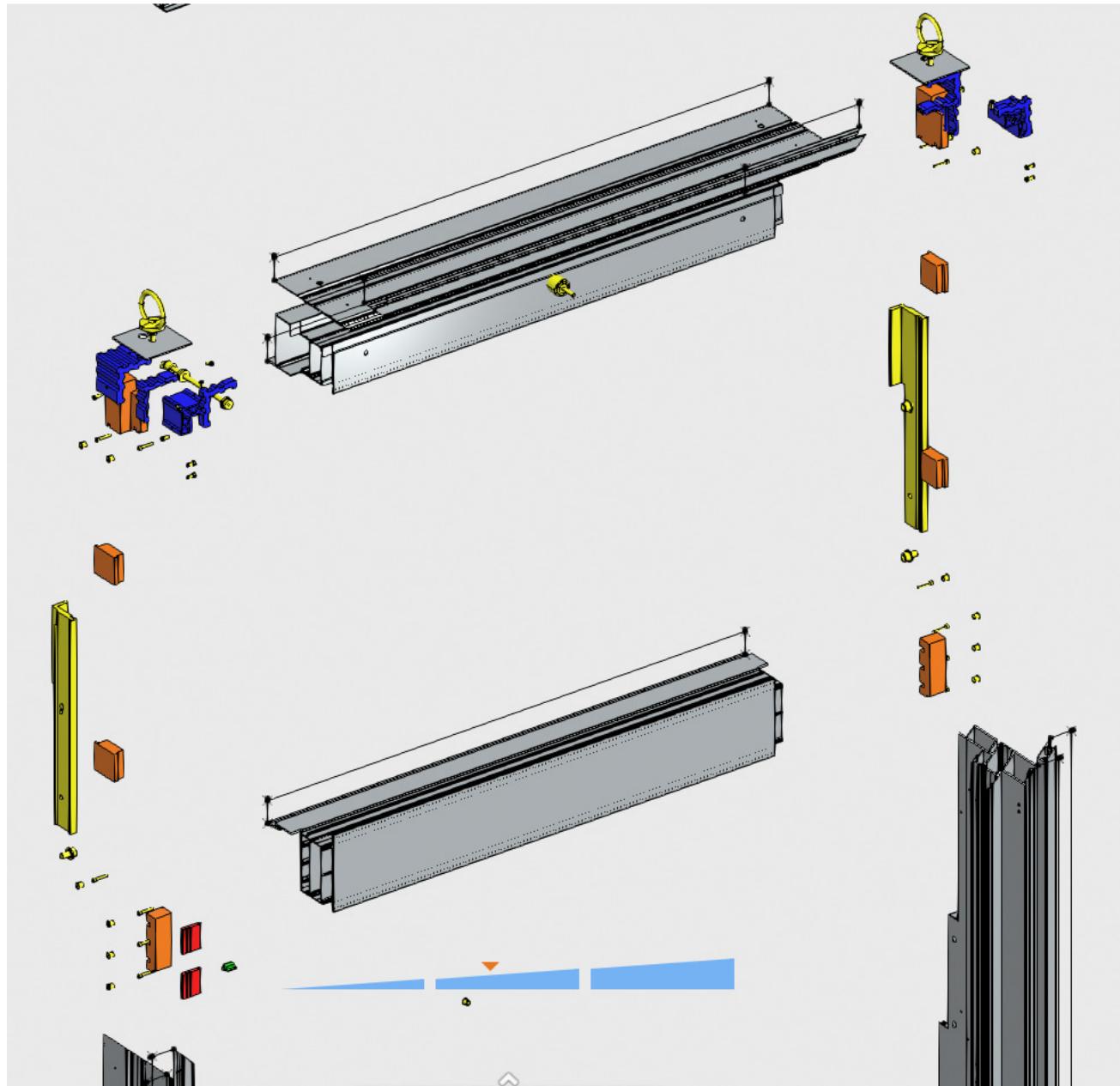
ENOVIA - 3D Navigate - A2000

ELEMENT

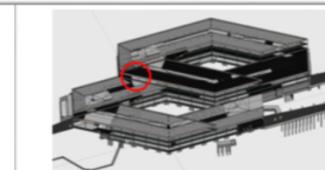
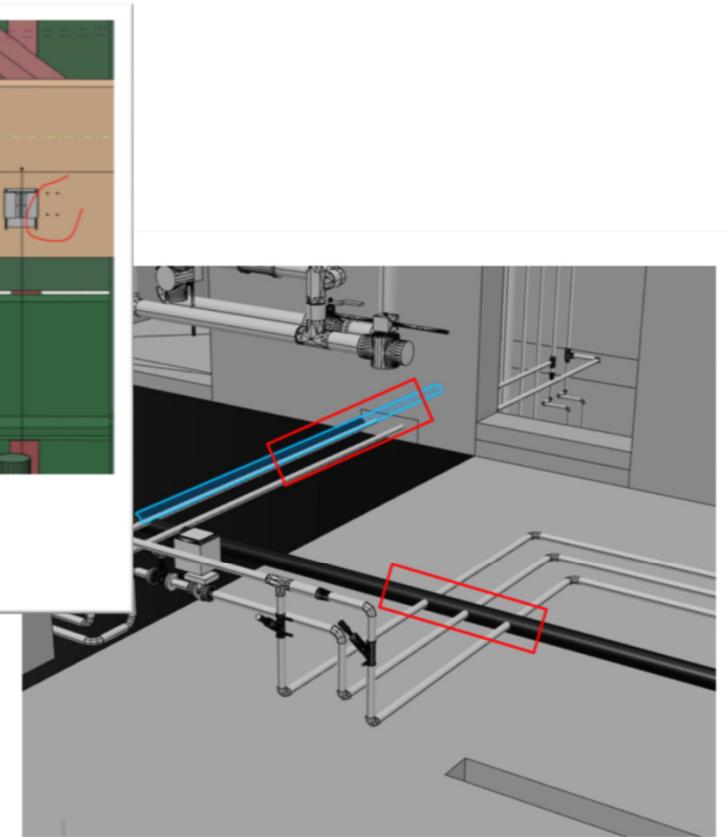
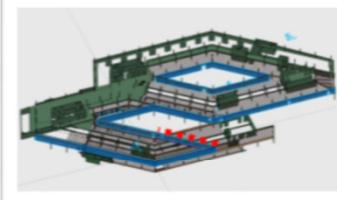
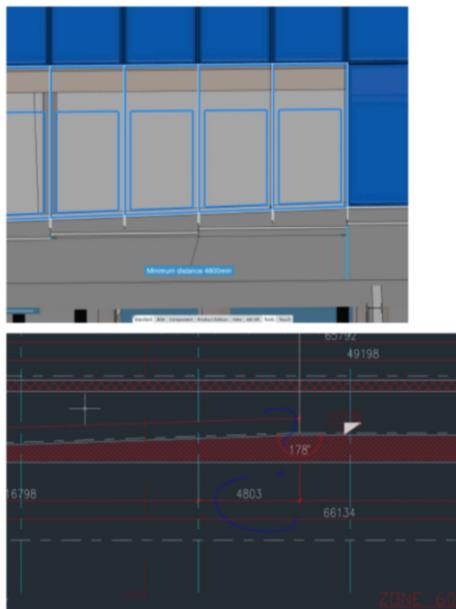


3DSearch - Search results for "onu" (FELIX)

36371 Results		Quoi?	Quand?	Comment?	Qui?				
Actions	Title	Type	Description	Name	Modification Date	Creation Date	Revision	Maturity State	Responsible
1	Symétrie de ASB_ELE_S...	Physical Product		prd-R1132100737524-00010...	2/27/2019 8:12:58 AM	2/27/2019 8:12:37 AM	A.1	In Work	Jean-Vincent Trudu
2	Symétrie de ASB_ELE_S...	Physical Product		prd-R1132100737524-00010...	2/27/2019 8:12:58 AM	2/27/2019 8:12:37 AM	A.1	In Work	Jean-Vincent Trudu
3	BOM_TEST	Physical Product		prd-R1132100737524-00010...	2/14/2019 5:38:49 PM	2/14/2019 5:38:48 PM	A.1	In Work	Paul Ehret
4	ONU_AIR_L05	Physical Product		prd-R1132100737524-00010...	2/22/2019 4:55:21 PM	2/22/2019 4:55:20 PM	A.1	In Work	Paul Ehret
5	ONU_AIR_L03	Physical Product		prd-R1132100737524-00010...	2/22/2019 4:55:21 PM	2/22/2019 4:55:20 PM	A.1	In Work	Paul Ehret
6	ONU_AIR_L04	Physical Product		prd-R1132100737524-00010...	2/22/2019 4:55:21 PM	2/22/2019 4:55:20 PM	A.1	In Work	Paul Ehret
7	ONU_AIR_L04B	Physical Product		prd-R1132100737524-00010...	2/22/2019 4:55:21 PM	2/22/2019 4:55:20 PM	A.1	In Work	Paul Ehret
8	ONU_AIR_L02B	Physical Product		prd-R1132100737524-00010...	2/22/2019 4:55:21 PM	2/22/2019 4:55:20 PM	A.1	In Work	Paul Ehret
9	ONU_AIR	Physical Product		prd-R1132100737524-00010...	2/22/2019 4:02:43 PM	2/22/2019 4:02:39 PM	A.1	In Work	Paul Ehret
10	ONU_AIR_L02	Physical Product		prd-R1132100737524-00010...	2/22/2019 4:02:43 PM	2/22/2019 4:02:39 PM	A.1	In Work	Paul Ehret



COTE DROIT



L04FXX#05

TOWARDS PAPERLESS PROJECT DELIVERY

- **Workflow**, robust &flexible: maintains data evolution within one ecosystem
- **CDE**: plateform guarantees interface unification
- **Nomenclature arborescente**: integrated location & topology of each assembly, sub assembly & part