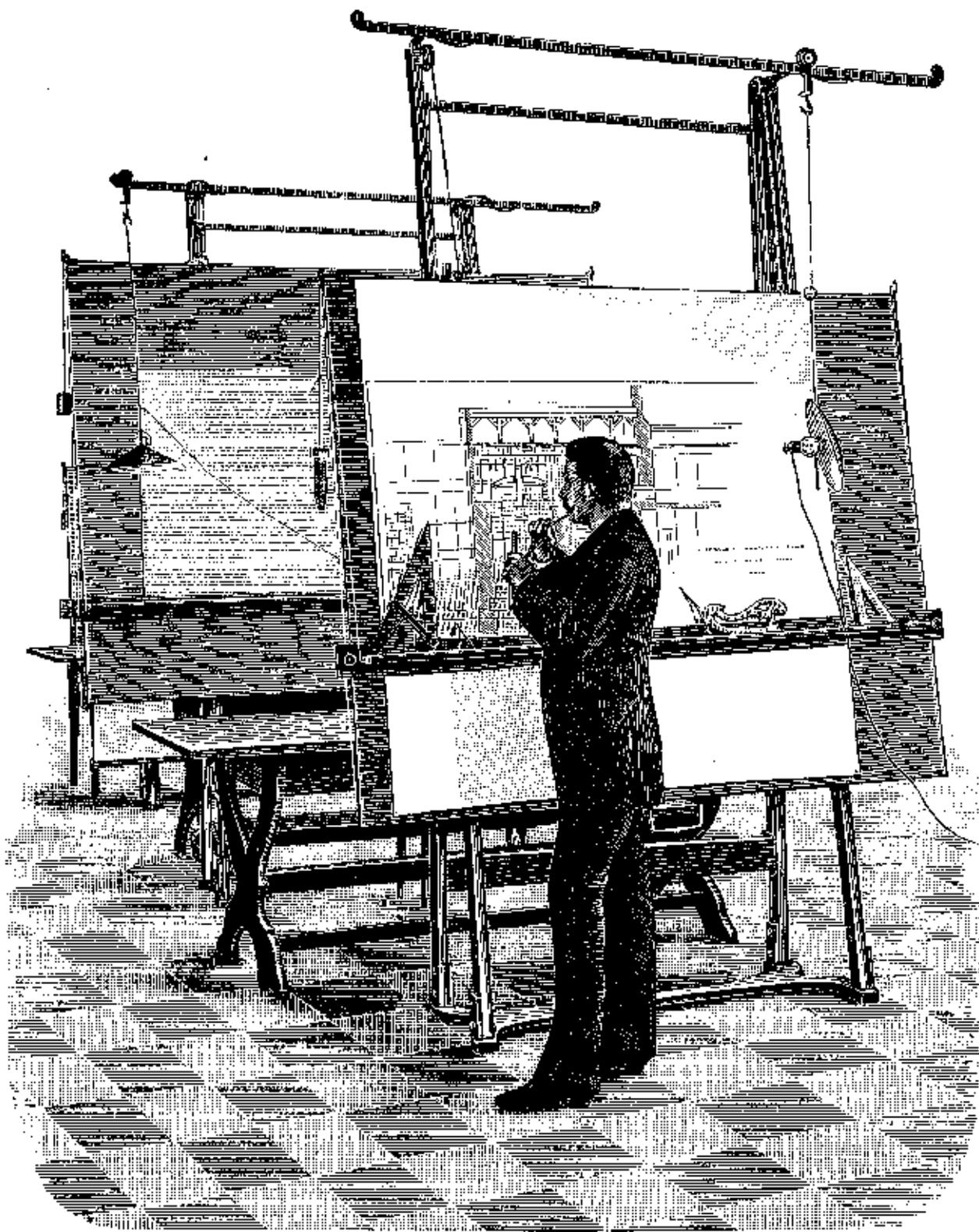
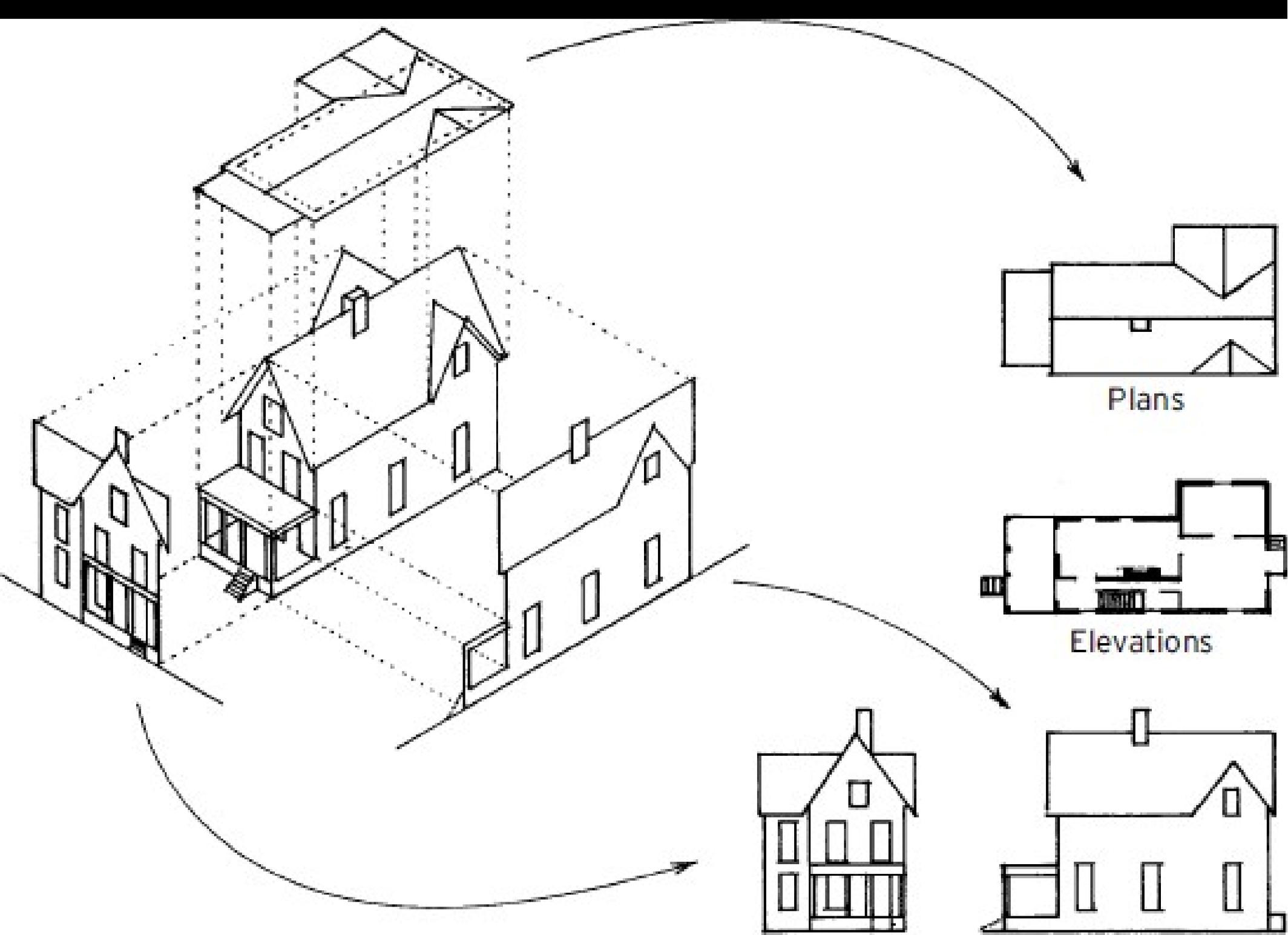


FreeCAD
formatos livres
arquitetura
cidade
guerra

Yorik van Havre, UFABC, 2016
yorik@uncreated.net







FRONT ELEVATION (east facing)



SIDE ELEVATION (west facing)

NOTE:
The Area of the opening for
windows applications
Exterior Wall CRIMES IN Red



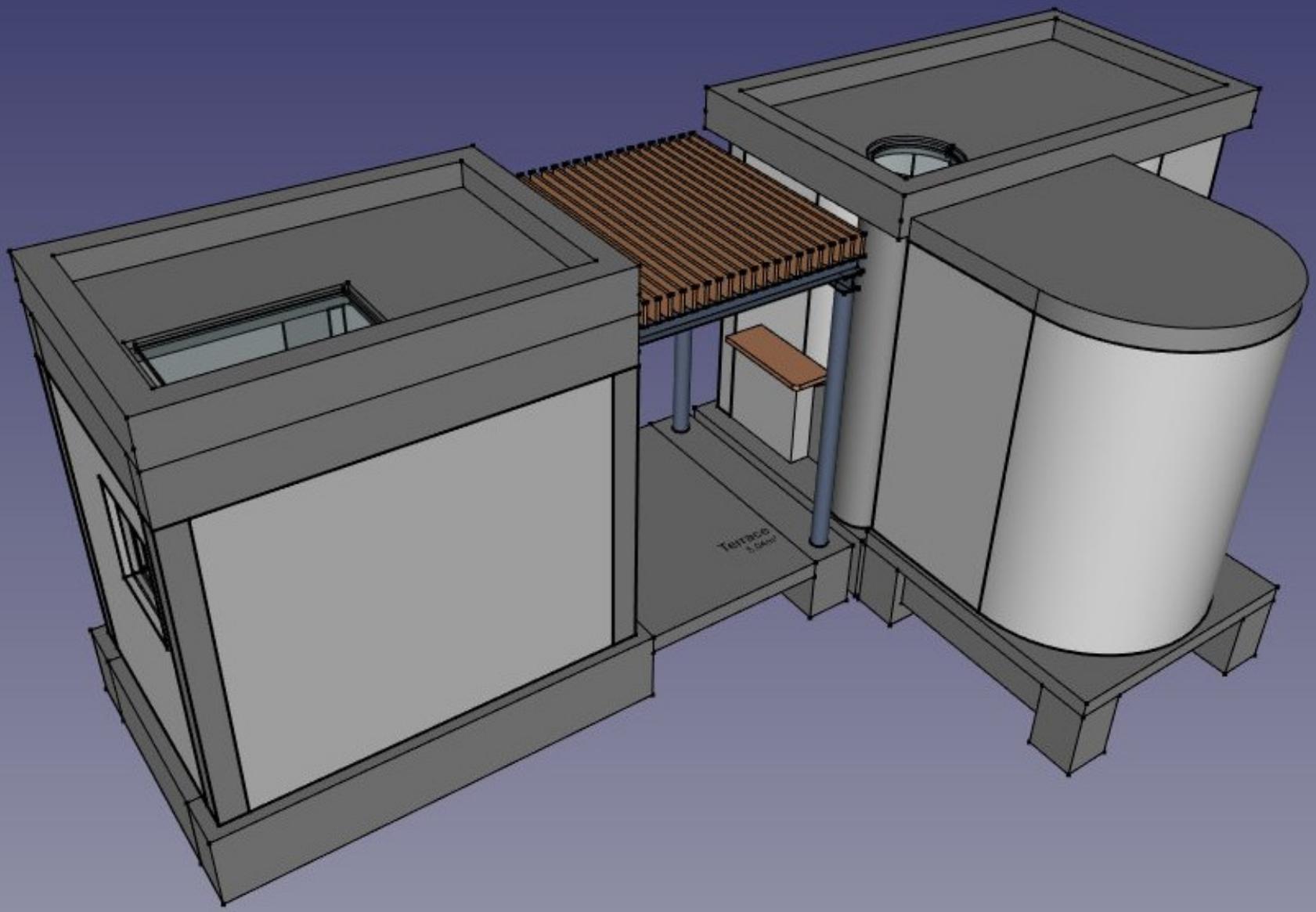
FRONT ELEVATION (west facing)



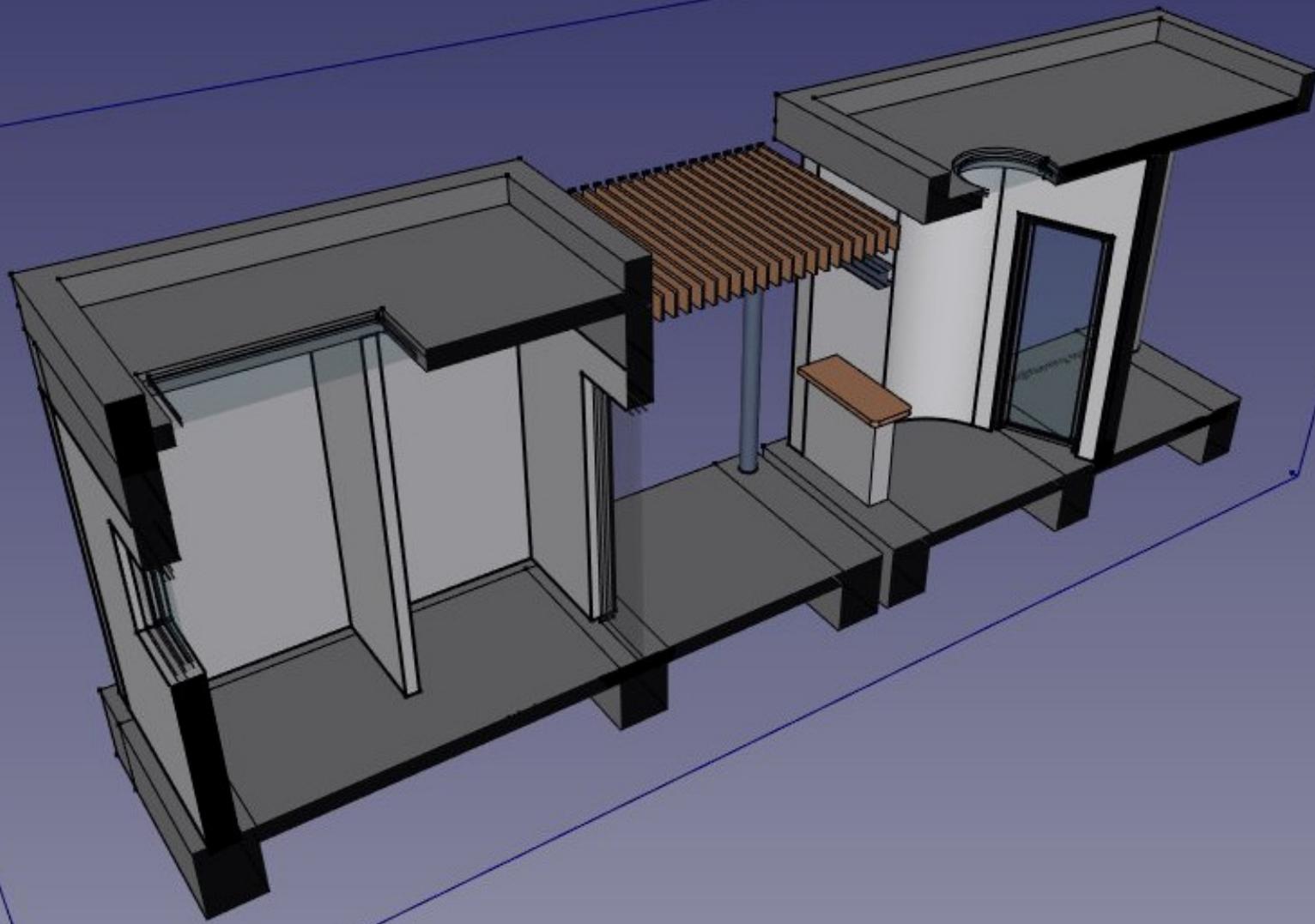
SIDE ELEVATION (east facing)



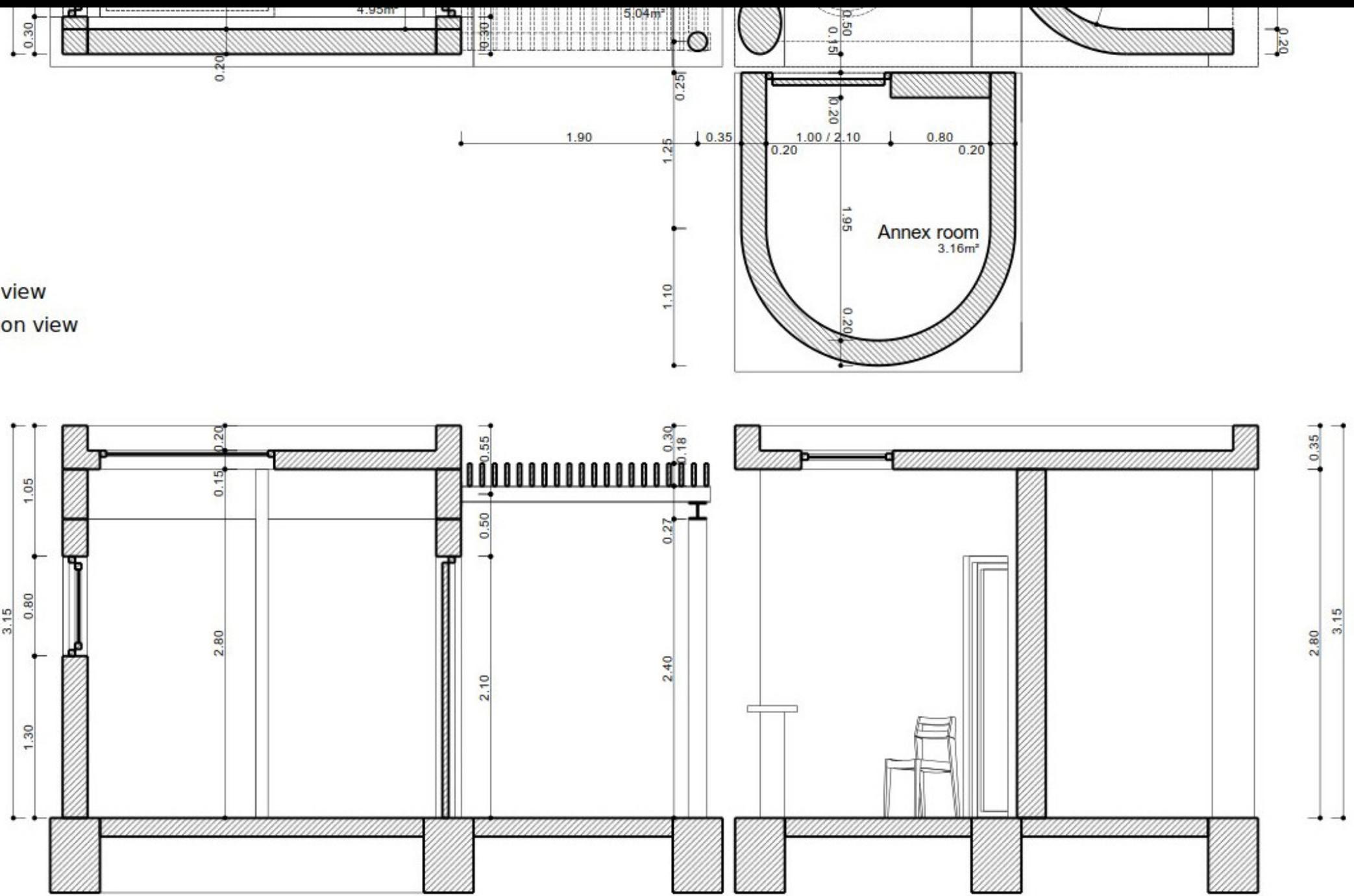
CROSS SECTION

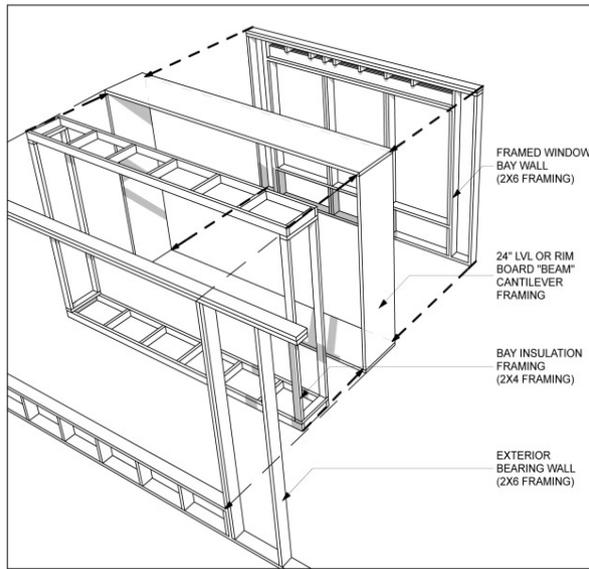


TOTO
1.500



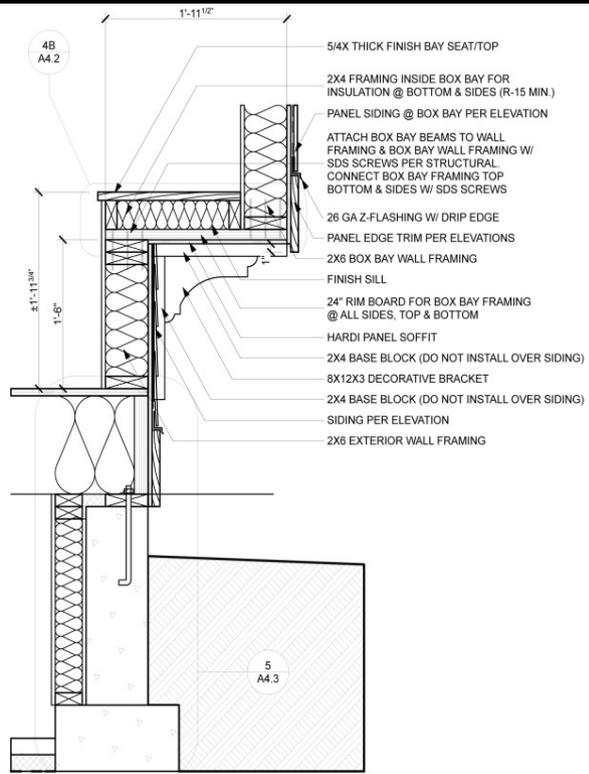
n view
ction view





4B WINDOW BAY FRAMING DIAGRAM

NOT TO SCALE



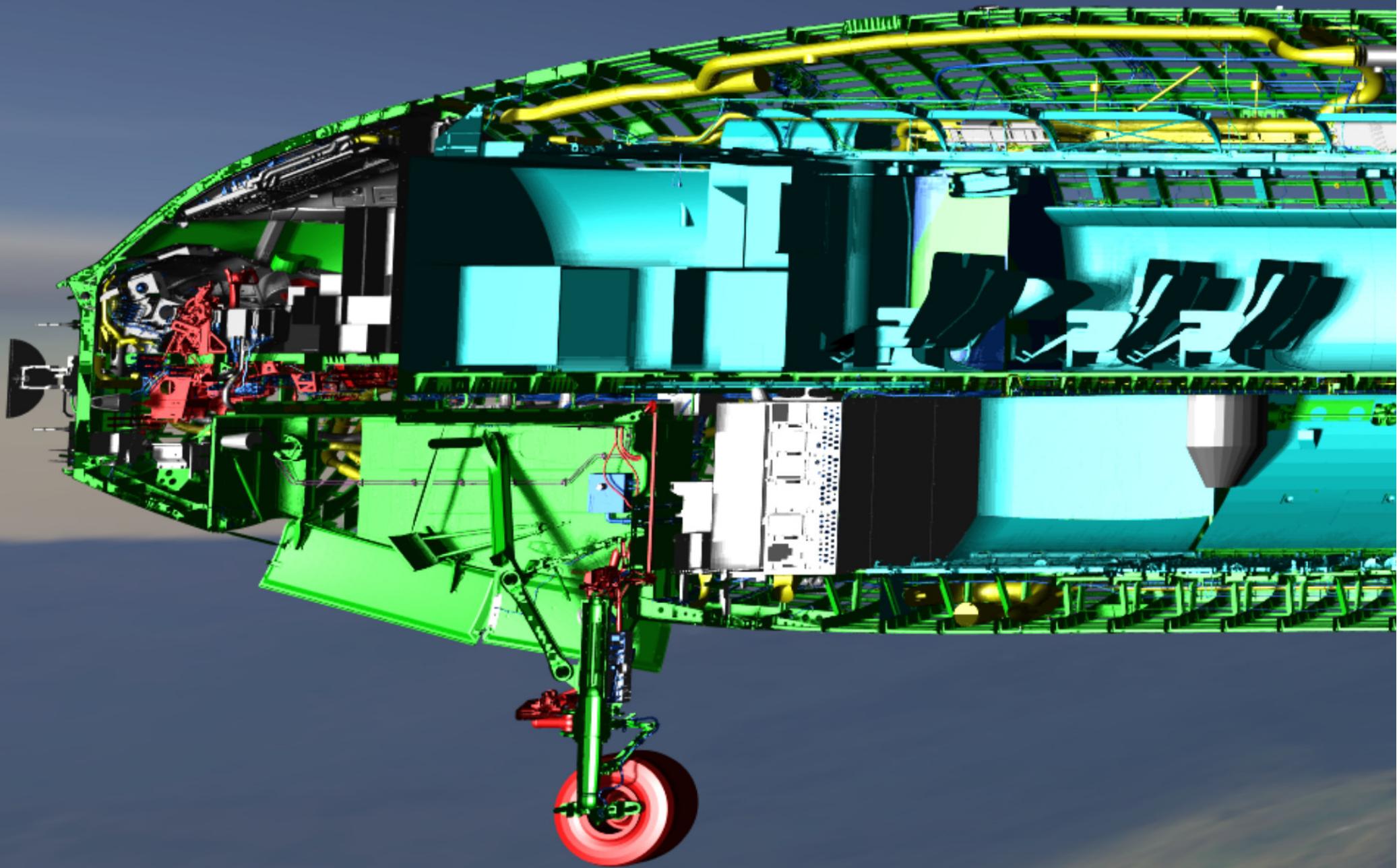
4 BOX BAY CANTILVER

SCALE: 1" = 1'-0"

ID	W-01	W-02
INTO ROOM FROM ROOM	OPEN PATIO	OPEN PATIO
FLOOR LEVEL	GROUND FLOOR LEVEL	GROUND FLOOR LEVEL
DESCRIPTION	TOP PANEL: DOUBLE AWNING, MIDDLE PANEL, DOUBLE AWNING, BOTTOM PANEL, DOUBLE FIXED LIGHTS	SINGLE TOP HUNG CASEMENT
MANUFACTURER	ALUMINIUM, HULAMIN, NUKLIP CASEMENT	ALUMINIUM, HULAMIN, NUKLIP CASEMENT
WALL HOLE DIMENSION	1750 X 2400	750 X 1200
FINISH	P1- POWDER COATED, COLOUR: GLOSS CHARCOAL, ANP 1055	P1- POWDER COATED, COLOUR: GLOSS CHARCOAL, ANP 1055
GLAZING	LAMINATED TO AAAMSA SPEC.	LAMINATED TO AAAMSA SPEC.
IRONMONGERY	ADEQUATE SIZED 5/STEEL GRADE 304, FRICTION HINGES	5/STEEL GRADE 304, FRICTION
FURNITURE	ALUM. INTERLOCK WEDGELESS HANDLE	ALUM. INTERLOCK WEDGELESS HANDLE
INTERNAL SILL	NA	15 FIBRE CEMENT, PAINTED
EXTERNAL SILL	PLASTERED TO DETAIL	PLASTERED, TO DETAIL



ROOM	FLOOR	WALLS	CEILING	BASEBOARD	TRIM
Dining and living	1" x 4" Oak	1/2" Drywall paint white	1/2" Drywall paint white	Wood	Wood
Bedroom	Carpet w/foam pad	1/2" Drywall paint Beige	1/2" Drywall paint white	Wood	Wood
Bathroom	Linoleum-tan	1/2" Drywall paint white	1/2" Drywall paint white	Lino-cove	Wood
Kitchen	Linoleum-tan	1/2" Drywall paint white	1/2" Drywall paint white	Lino-cove	Wood
Utility room	Linoleum-tan	1/2" Drywall paint white	1/2" Drywall paint white	Lino-cove	Viny l



Época do desenho 2D (anos 90)

- 100% dominada por um único software (AutoCAD) e um único formato de arquivo: o DWG (fechado, proprietário)
- AutoCAD pirata em todos os escritórios de arquitetura/engenharia no mundo
- Uma maneira de trabalhar comum entre todos, engenheiros, arquitetos, inventores, etc

Agora

- Mundo proprietário dominado por poucas empresas (Autodesk principalmente)
- Soluções muito caras (média R\$ 25000 / licença) e separadas por segmento
- Táticas agressivas de dominação (contratos com universidades e instituições, gratuito para estudantes e professores, etc)
- Formatos proprietários “incontornáveis”, obsolescência programada

denar
ultoria BIM

 **Coordenar Consultoria BIM**

July 15 at 5:25pm · 🌐

Receita Federal cria reserva de mercado para o REVIT em licitação pública!

<http://www.coordenar.com.br/receita-federal-privilegia-o-r.../>



 **Coordenar Consultoria BIM**

July 11 at 8:56am · 🌐

O FDE informou em audiência pública que adotará somente o Revit como padrão para seus projetos a partir de 2017!

<http://goo.gl/yIFNv2>

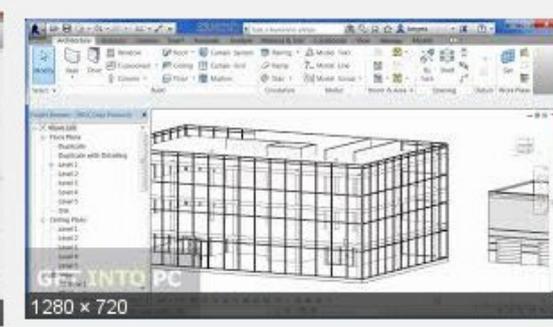
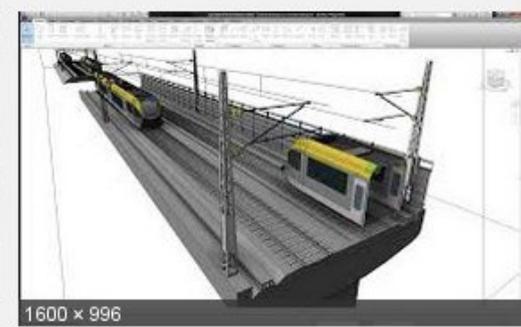
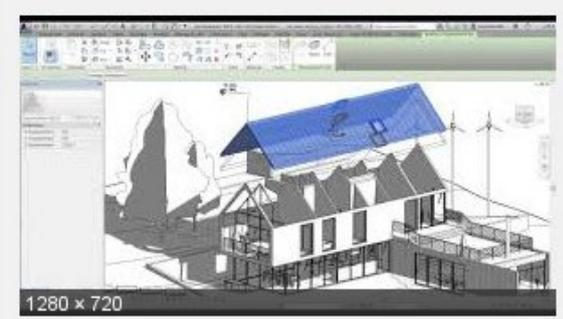
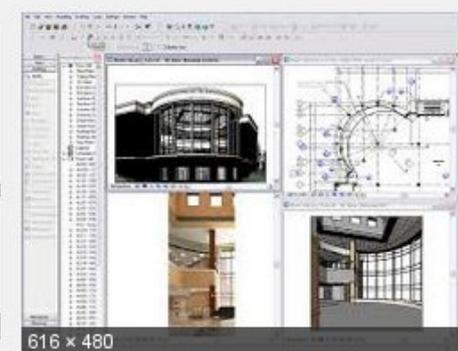


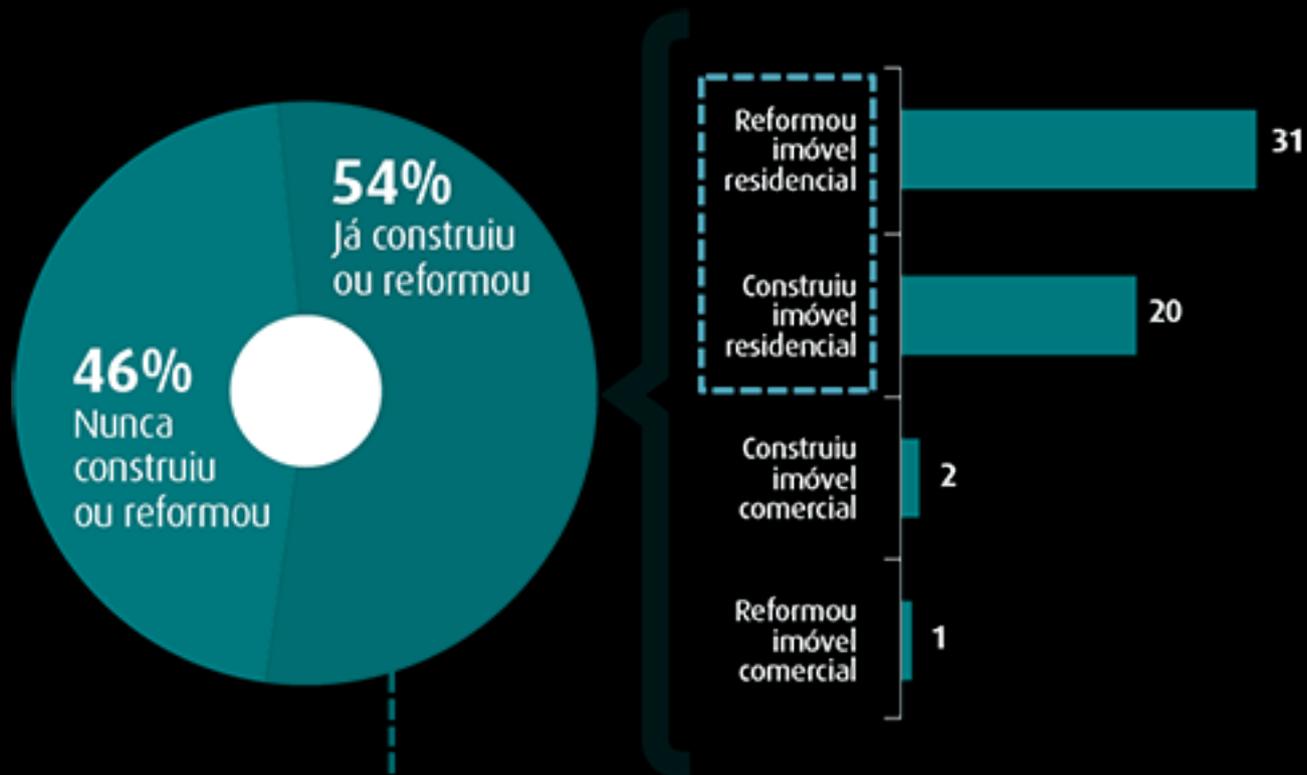
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realme



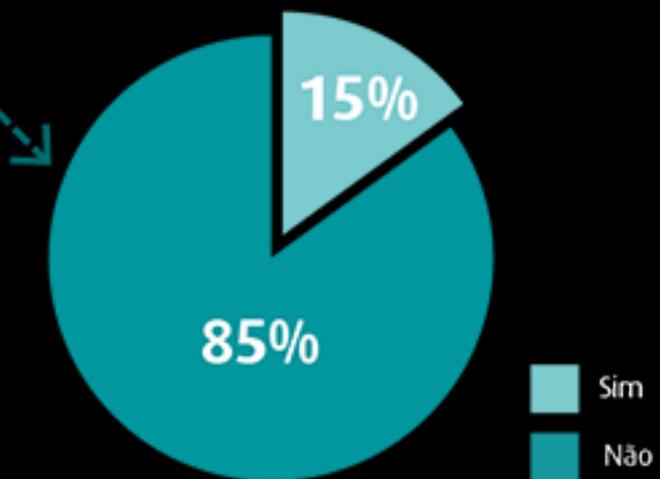
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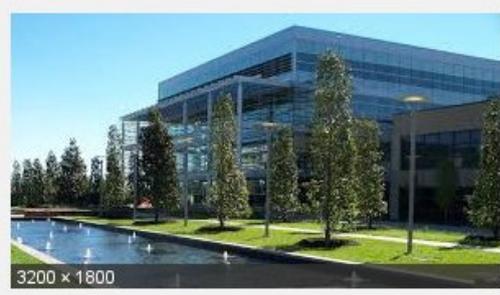


PERCENTUAL DOS QUE UTILIZARAM SERVIÇOS DE ARQUITETO E/OU ENGENHEIRO ENTRE OS QUE CONSTRUIRAM OU REFORMARAM





2662 x 2038



3200 x 1800



900 x 675



600 x 450



900 x 675



900 x 675



500 x 375



468 x 294



500 x 751



3000 x 2000



640 x 360



1600 x 1186



3272 x 2181



730 x 300



900 x 900



480 x 498



1600 x 1200



1024 x 552



1440 x 960



400 x 293



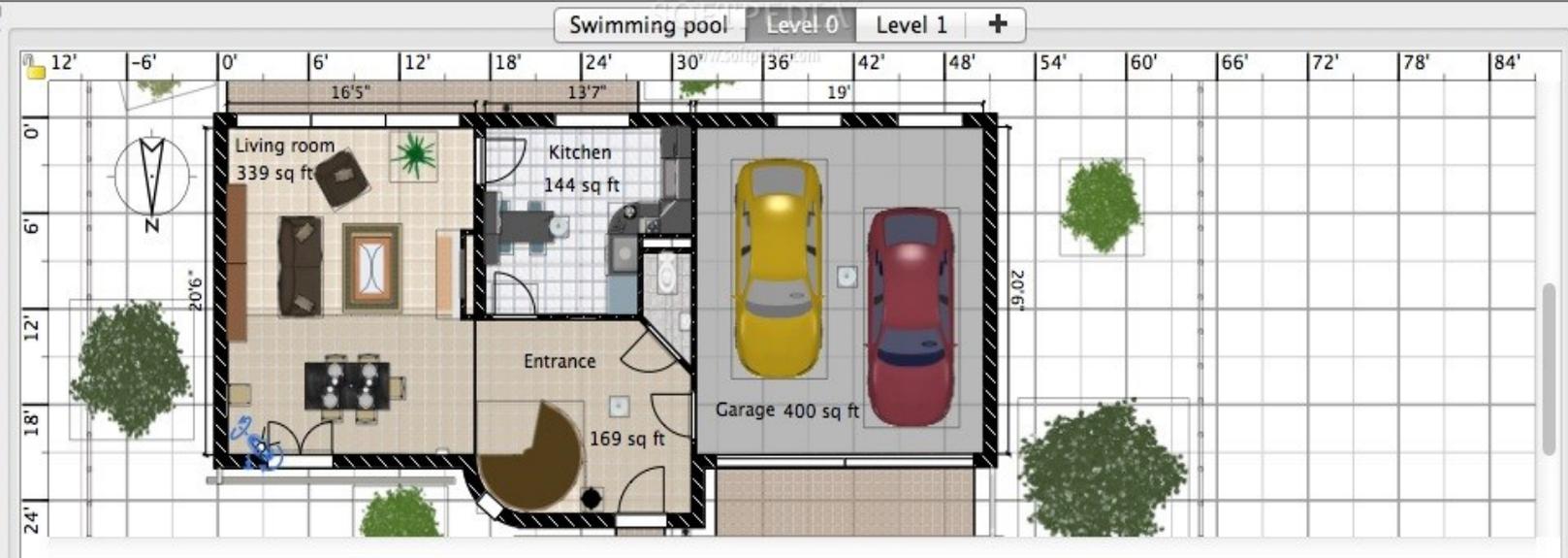
580 x 330

Formatos abertos permitem:

- Acesso universal (não precisa gastar R\$ 25000 só para poder ver o conteúdo do arquivo)
- Reaproveitamento, reciclagem, compartilhamento, etc. Volta à época boa do AutoCAD
- Concepção e construção deixam de ser uma atividade elitizada



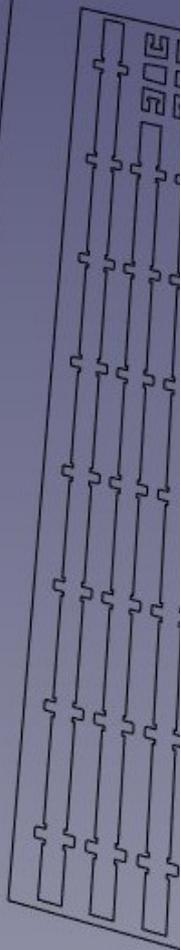
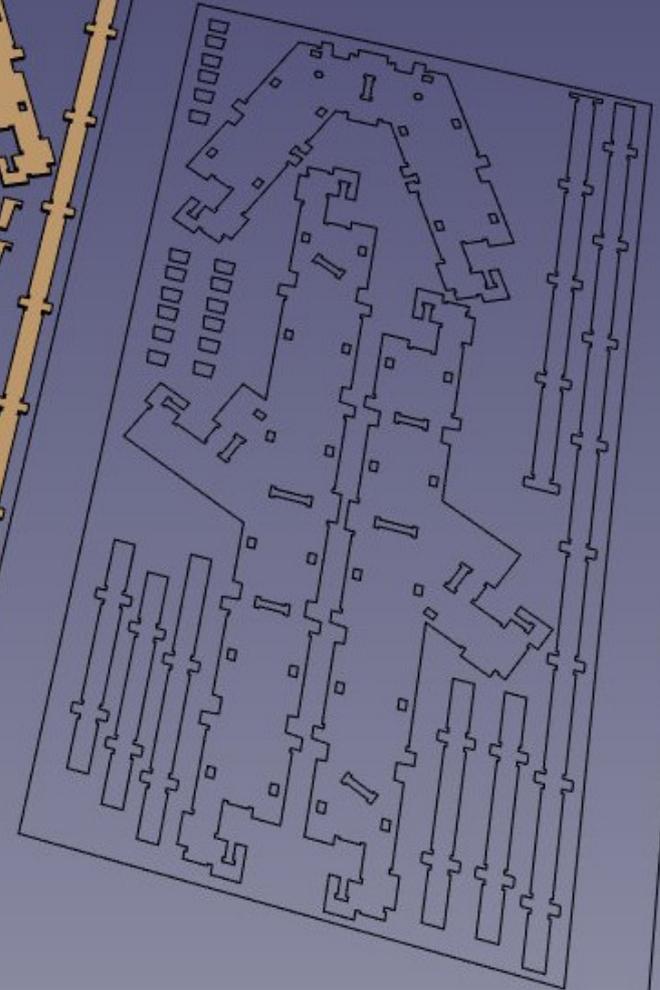
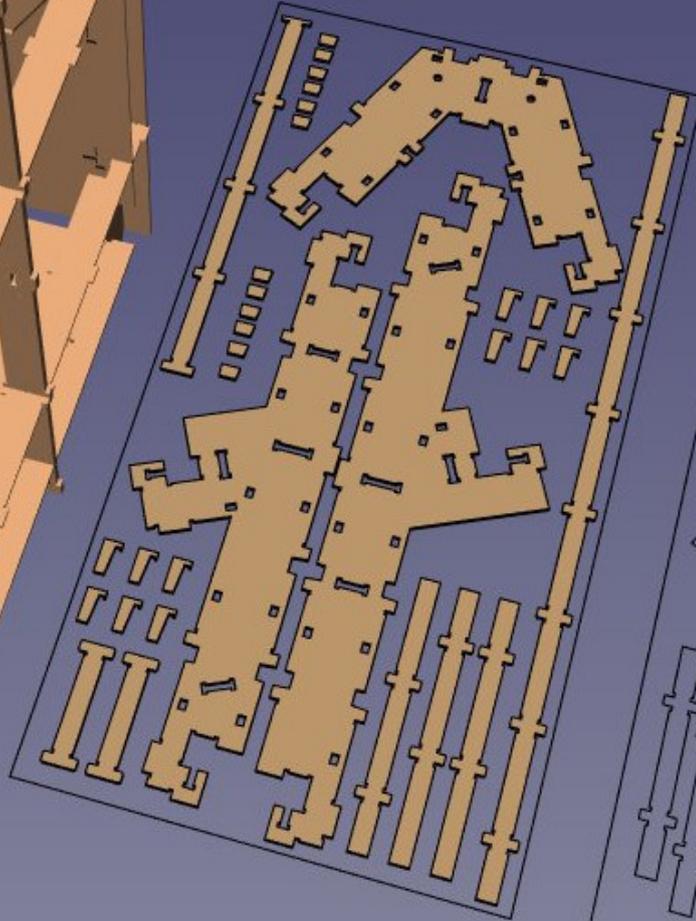
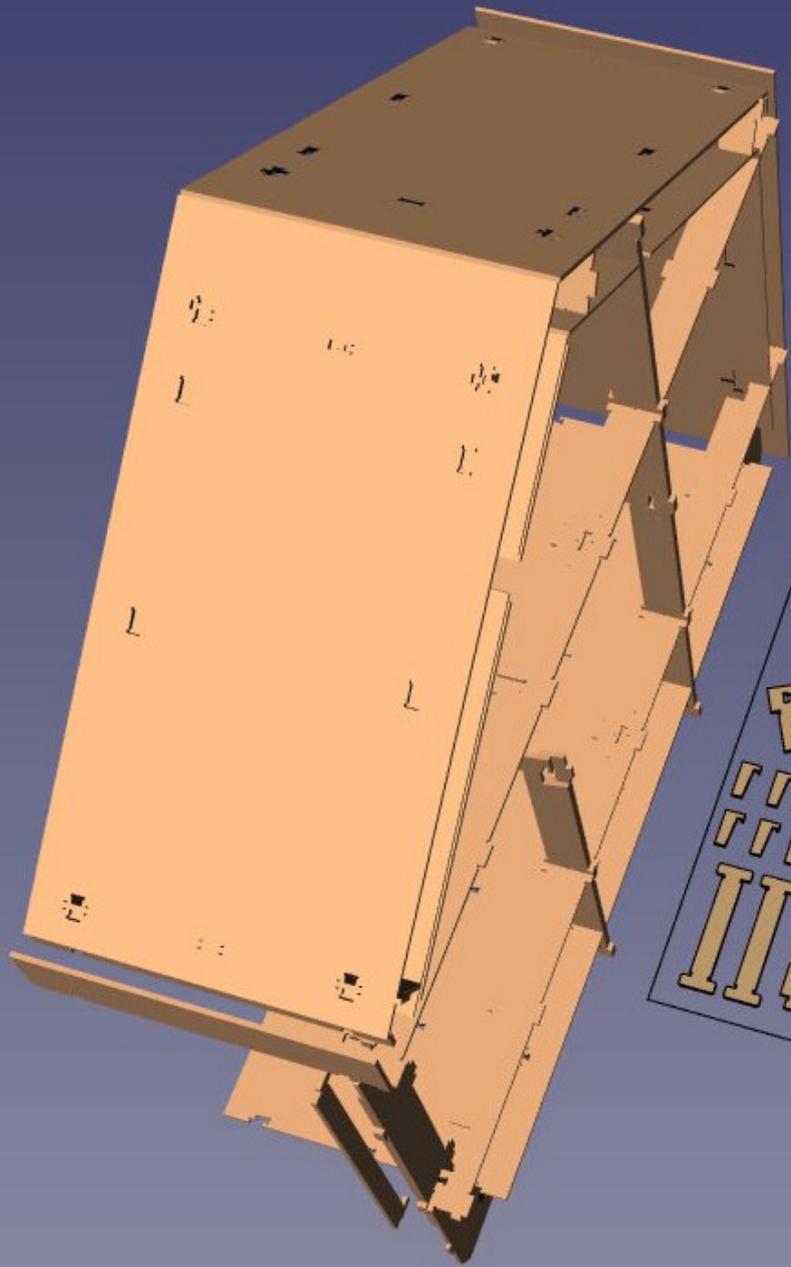
- ▶ Bathroom
- ▶ Bedroom
- ▼ Doors and windows
 - Door
 - Door frame
 - Double French window**
 - Double-hung window
 - Double small window
 - Double window
 - Five panes window
 - Fixed triangle window
 - Fixed window
 - French window
 - Garage door
 - Half round window



Name	Wi...	De...	Hei...	Vi...
▶ PC table	4'...	1'1'...	2'5¾"	<input checked="" type="checkbox"/>
▶ Piano stool	1'2"	1'2¾"	1'6¾"	<input checked="" type="checkbox"/>
▶ Pillow	1'...	0'8¾"	1'1½"	<input checked="" type="checkbox"/>
▶ Pillow	1'...	0'8¾"	1'1½"	<input checked="" type="checkbox"/>
▶ Pillow	1'...	0'8¾"	1'1½"	<input checked="" type="checkbox"/>
▶ Plant	3'...	3'1¼"	2'9¾"	<input checked="" type="checkbox"/>
▶ Plastic bottle	0'...	0'3¼"	0'1'...	<input checked="" type="checkbox"/>
▶ Plastic bottle	0'...	0'3¼"	0'1'...	<input checked="" type="checkbox"/>
▶ Plate, glass a...	1'...	1'5¾"	0'6¾"	<input checked="" type="checkbox"/>
▶ Plate, glass a...	1'...	1'5¾"	0'6¾"	<input checked="" type="checkbox"/>
▶ Plate, glass a...	1'...	1'5¾"	0'6¾"	<input checked="" type="checkbox"/>
▶ Plate, glass a...	1'...	1'5¾"	0'6¾"	<input checked="" type="checkbox"/>
▶ Plates	0'...	0'7¾"	0'4¾"	<input checked="" type="checkbox"/>
▶ Porch light	0'7"	0'6¾"	1'0¾"	<input checked="" type="checkbox"/>
▶ Porch light	0'7"	0'6¾"	1'0¾"	<input checked="" type="checkbox"/>
▶ Quaking aspen	11'...	10'...	18'...	<input checked="" type="checkbox"/>
▶ Quaking aspen	6'...	6'3¾"	12'...	<input checked="" type="checkbox"/>
▶ Quaking aspen	6'...	5'6¾"	10'...	<input checked="" type="checkbox"/>
▶ Quaking aspen	7'...	7'6½"	14'...	<input checked="" type="checkbox"/>
▶ Quaking aspen	6'...	5'6¾"	16'...	<input checked="" type="checkbox"/>
▶ Quaking aspen	13'...	12'...	17'...	<input checked="" type="checkbox"/>
▶ Quaking aspen	4'...	5'0¼"	8'8¾"	<input checked="" type="checkbox"/>
▶ Quaking aspen	13'...	12'...	17'...	<input checked="" type="checkbox"/>
▶ Quaking aspen	7'...	7'6½"	14'...	<input checked="" type="checkbox"/>
▶ Quaking aspen	8'...	8'2¾"	13'...	<input checked="" type="checkbox"/>
▶ Quaking aspen	7'...	7'6½"	10'...	<input checked="" type="checkbox"/>
▶ Quaking aspen	7'...	8'2¾"	10'2"	<input checked="" type="checkbox"/>
▶ Railing	3'...	0'3¾"	2'7½"	<input checked="" type="checkbox"/>
▶ Railing	15'...	0'3¾"	2'7½"	<input checked="" type="checkbox"/>
▶ Rain gutters	52'...	4'8¾"	16'9"	<input checked="" type="checkbox"/>
▶ Rectangular	1'...	0'0¾"	2'3¾"	<input checked="" type="checkbox"/>













Combo View  

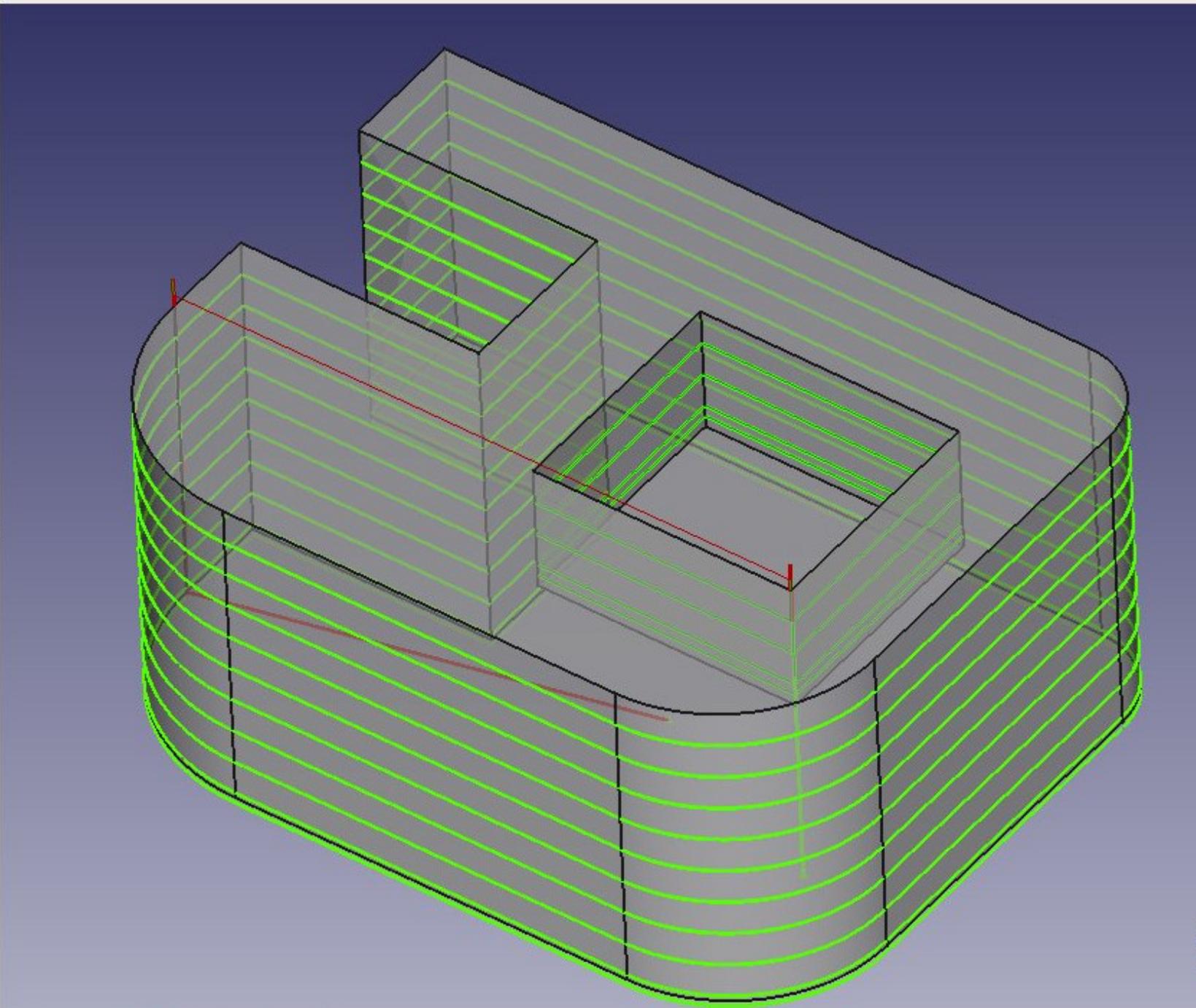
Model **Tasks**

Labels & Attributes

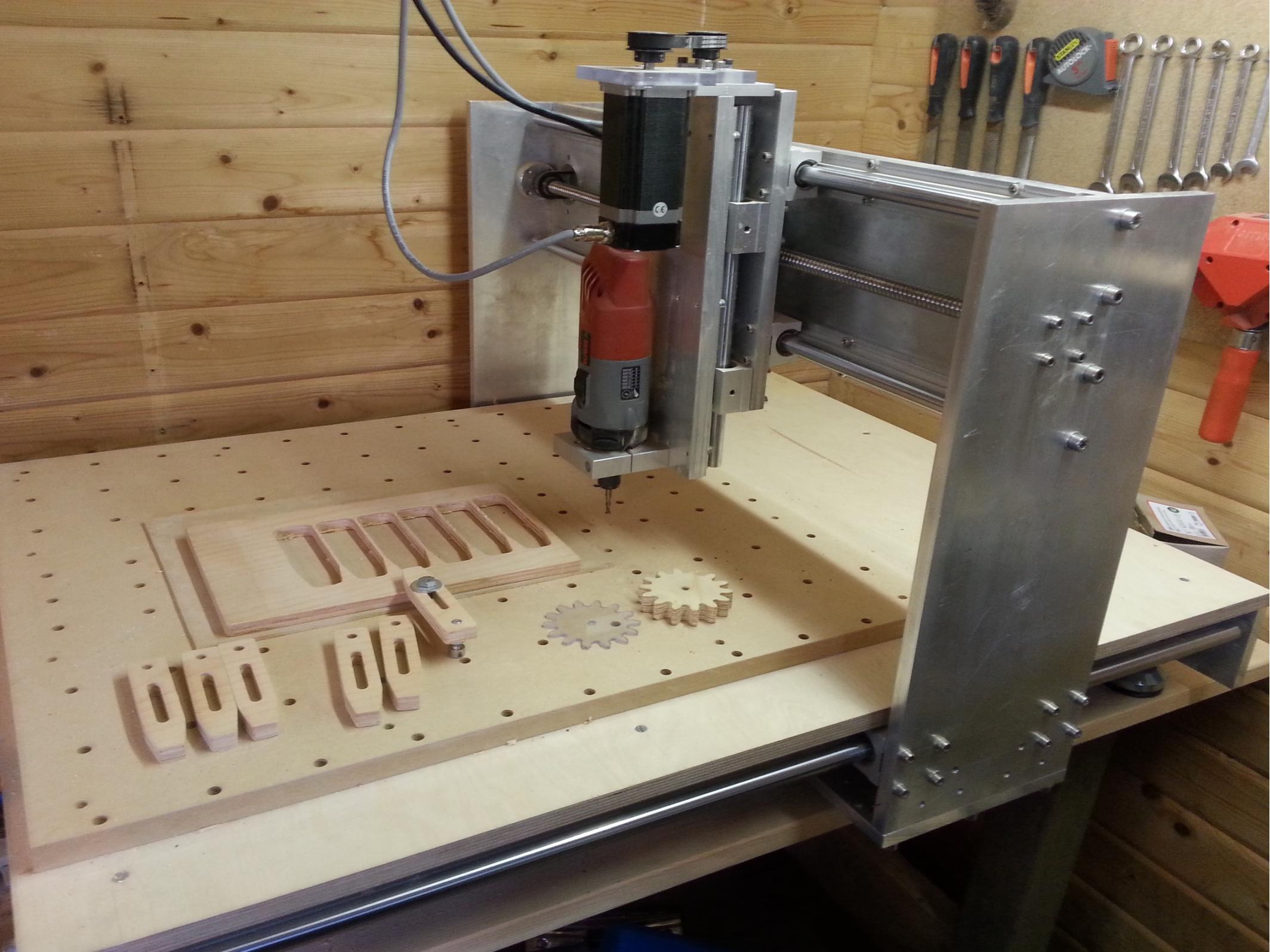
Application

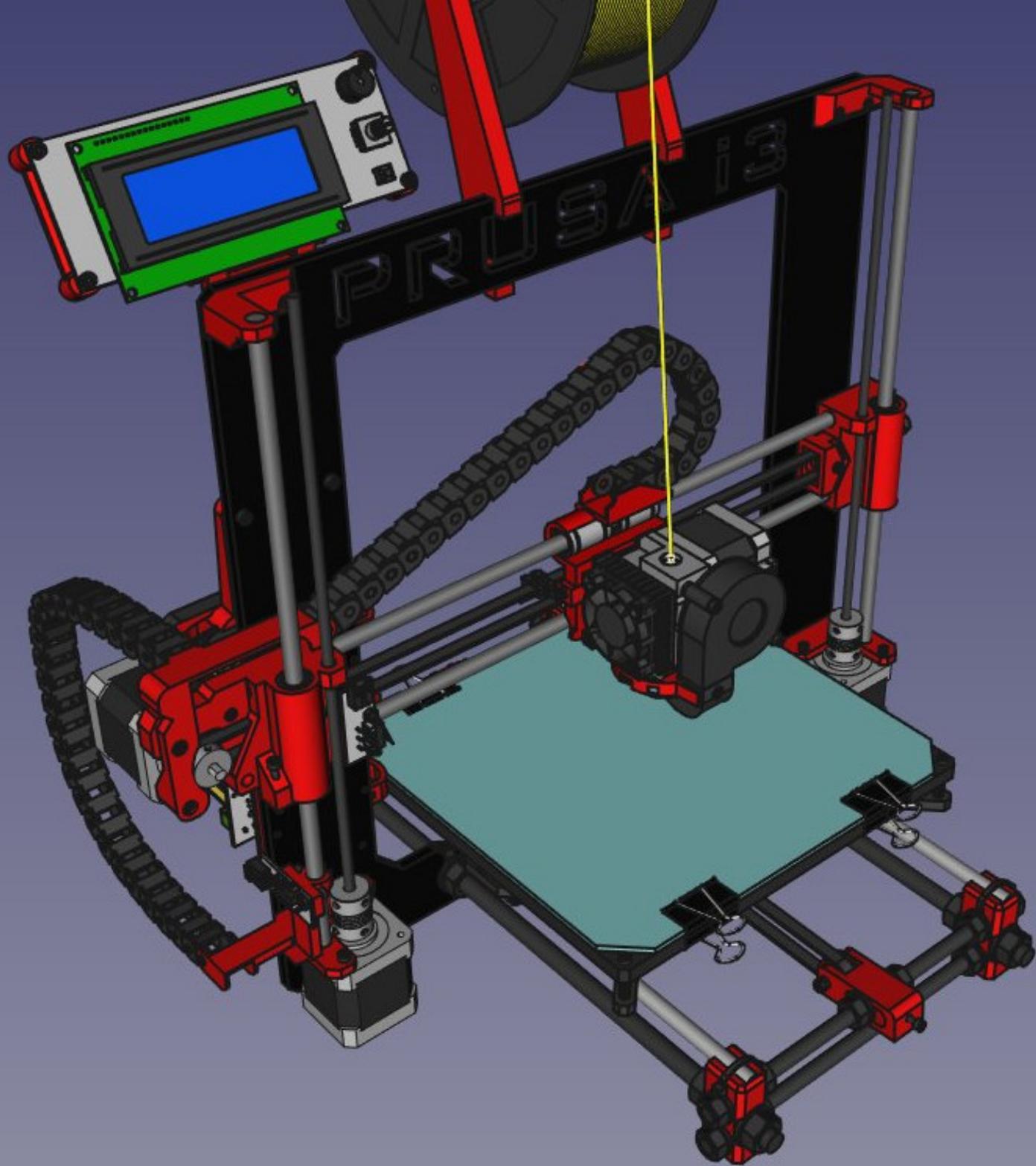
- ▼  **pathtest**
- ▶  Pad
- ▶  Pocket
- ▼  Project
 -  Machine_
 -  Profile
 -  Profile001

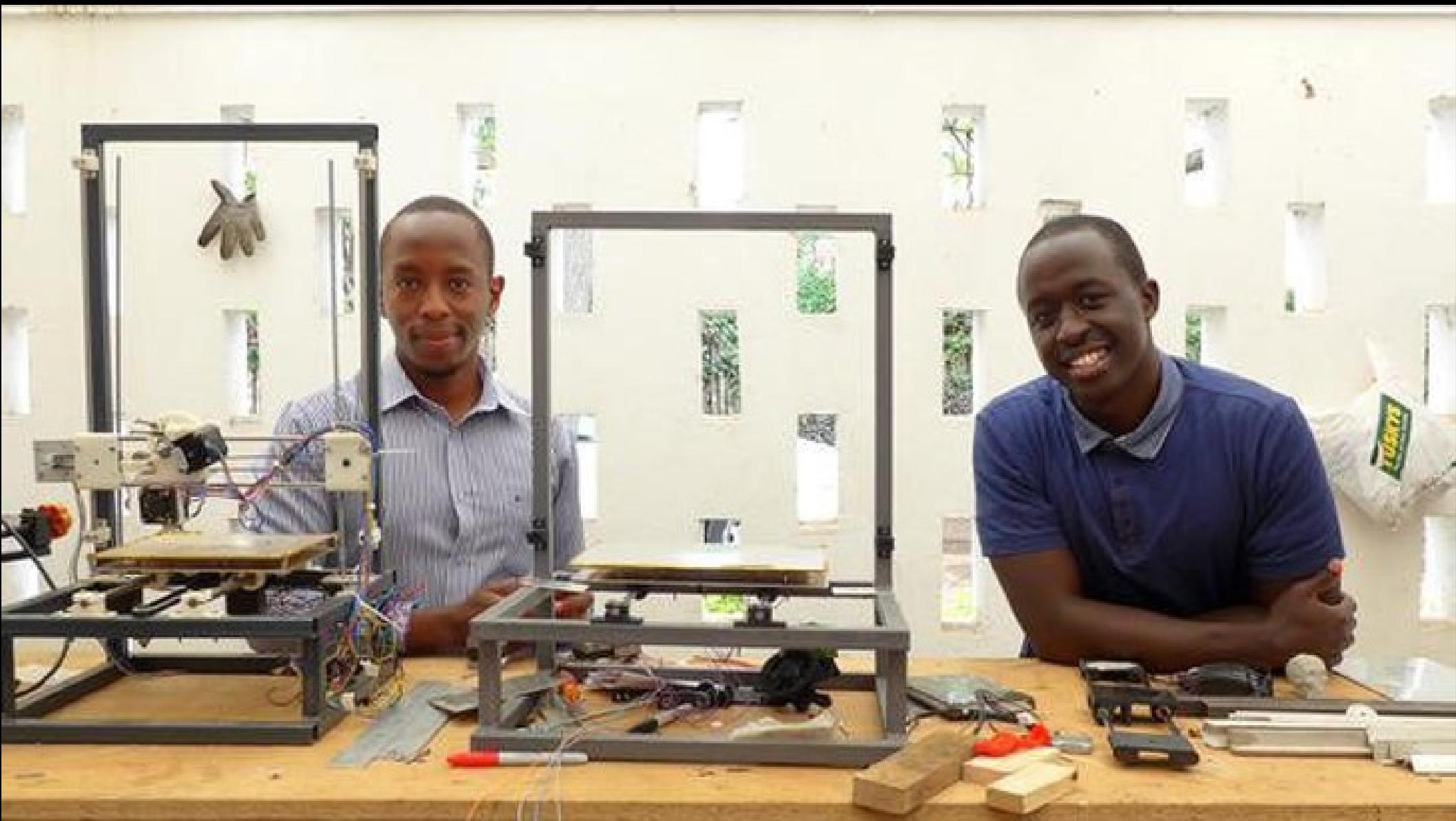
Property	Value
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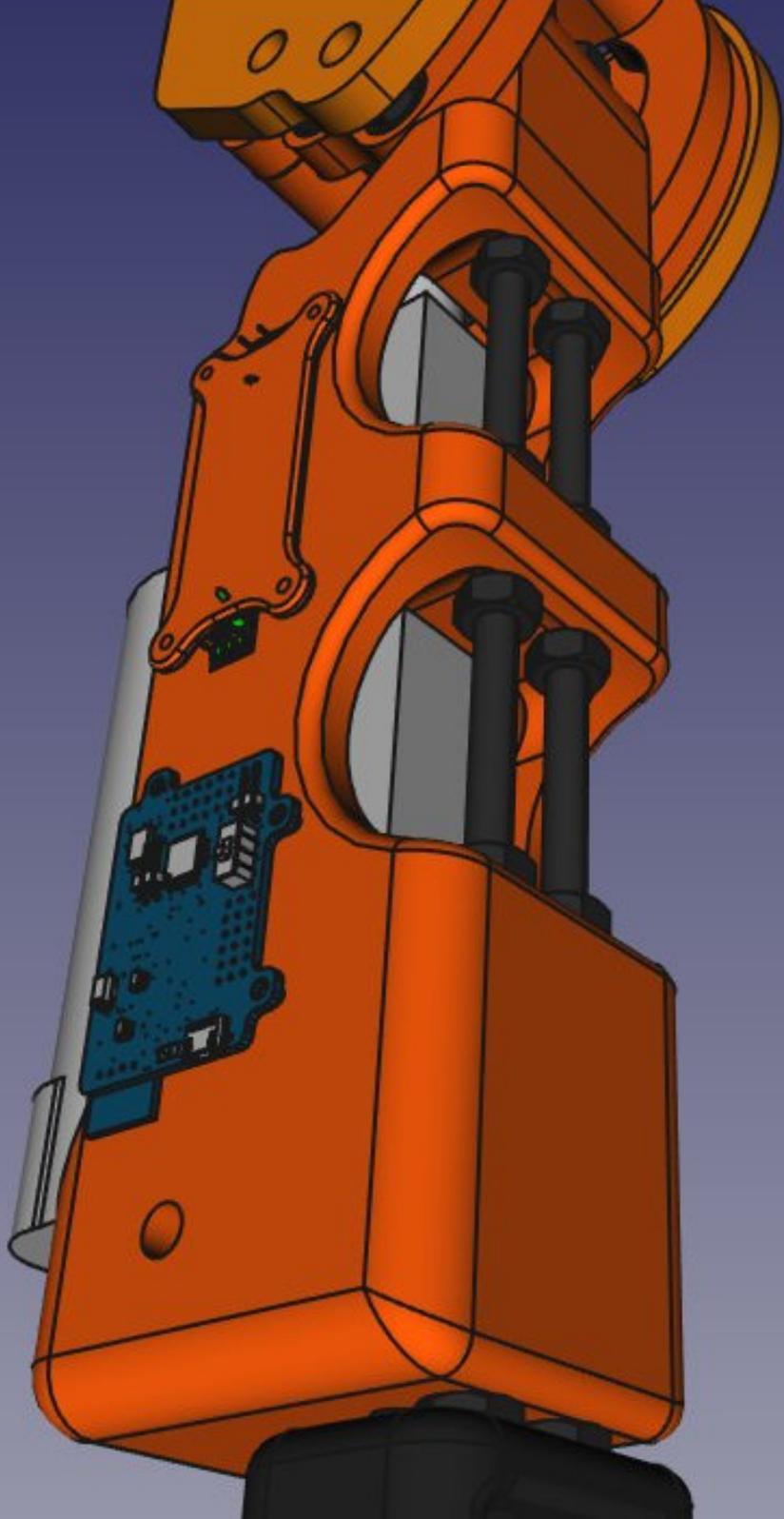


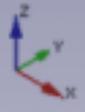
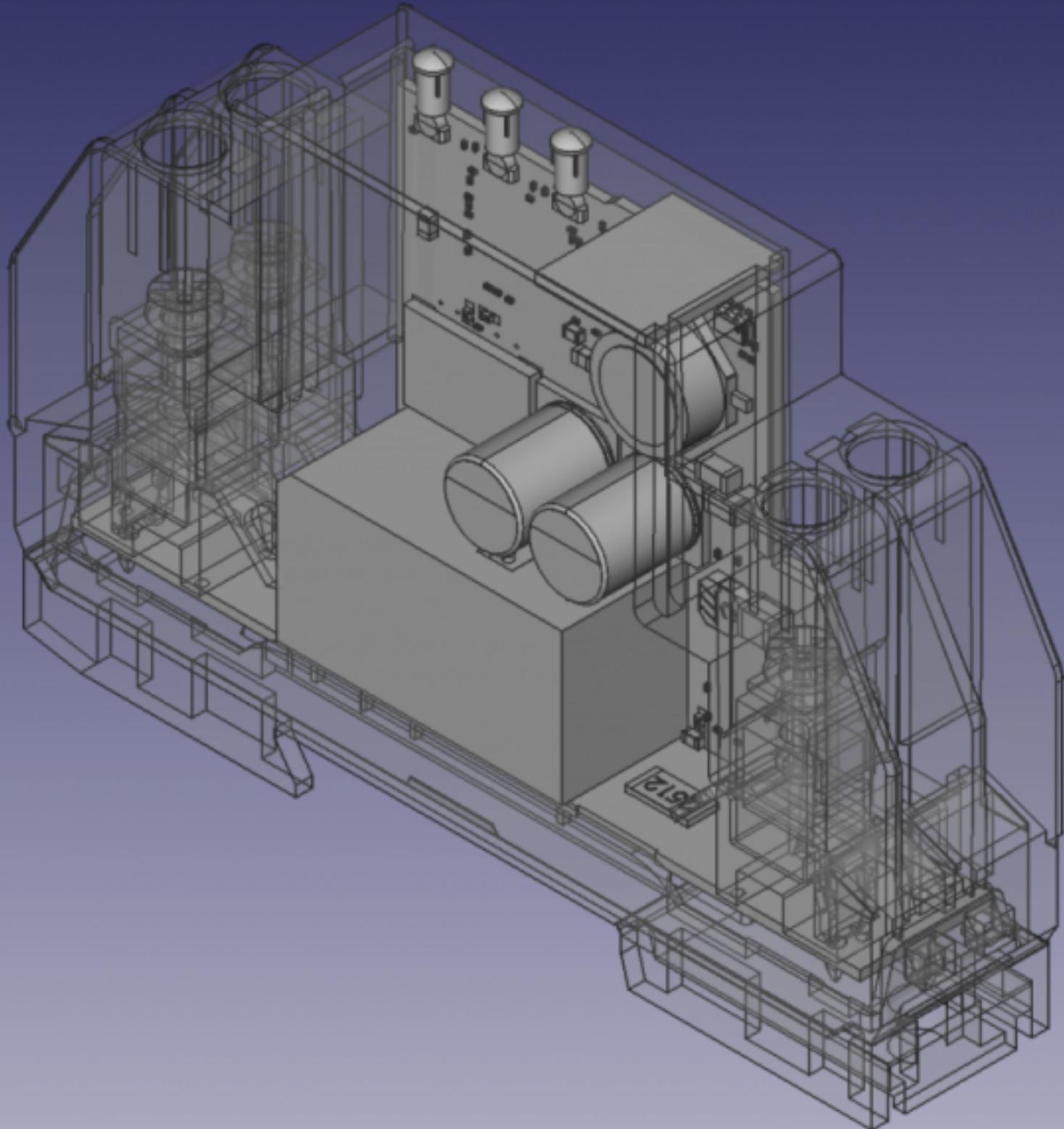
View **Data**

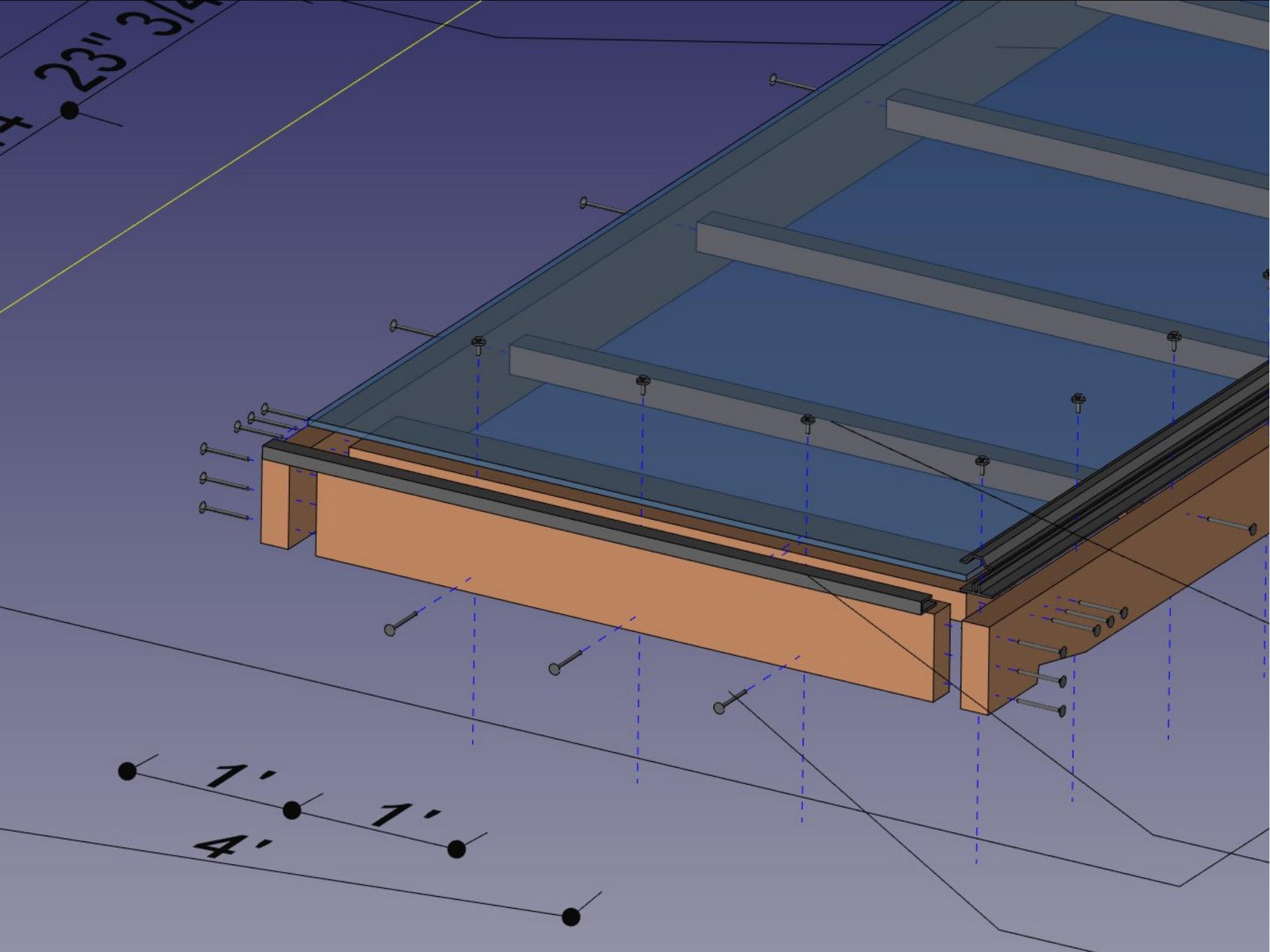








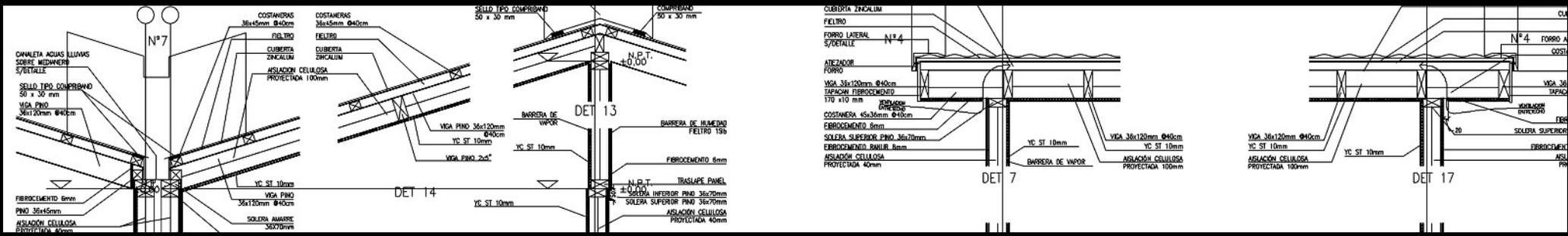
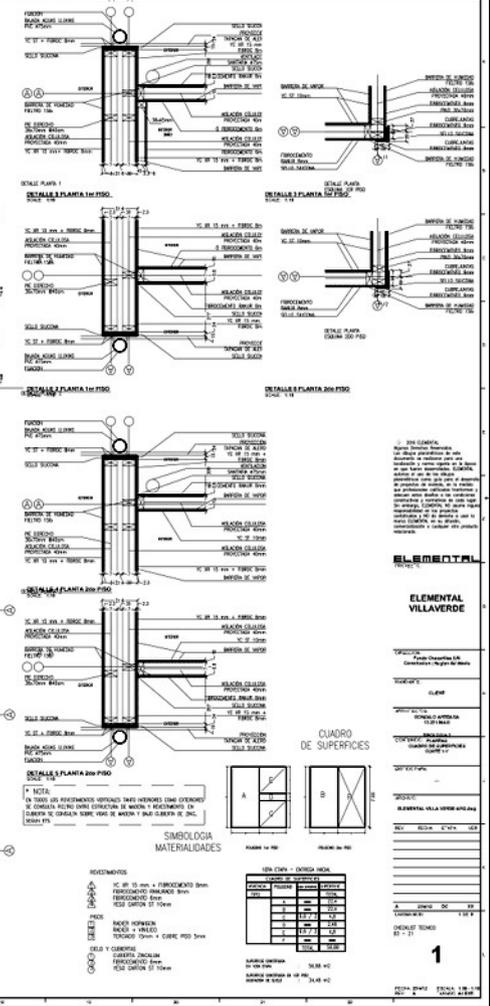
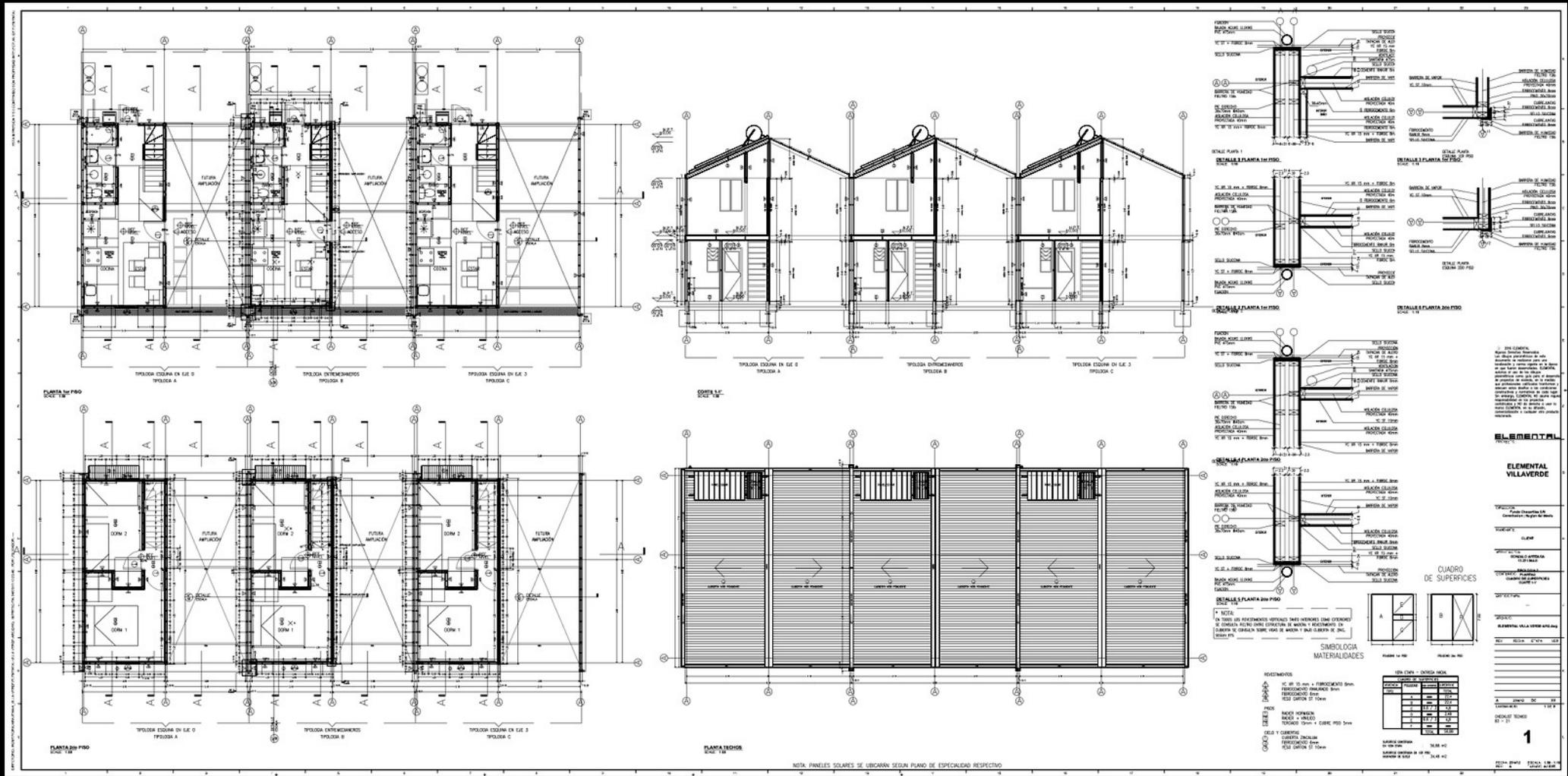




23" 3/4"

1" 1" 4"





ELEMENTAL VILLAVERDE

CUADRO DE SUPERFICIES

TIPO	AREA (m²)	VOLUMEN (m³)
1	100	100
2	200	200
3	300	300
4	400	400
5	500	500
6	600	600
7	700	700
8	800	800
9	900	900
10	1000	1000

1