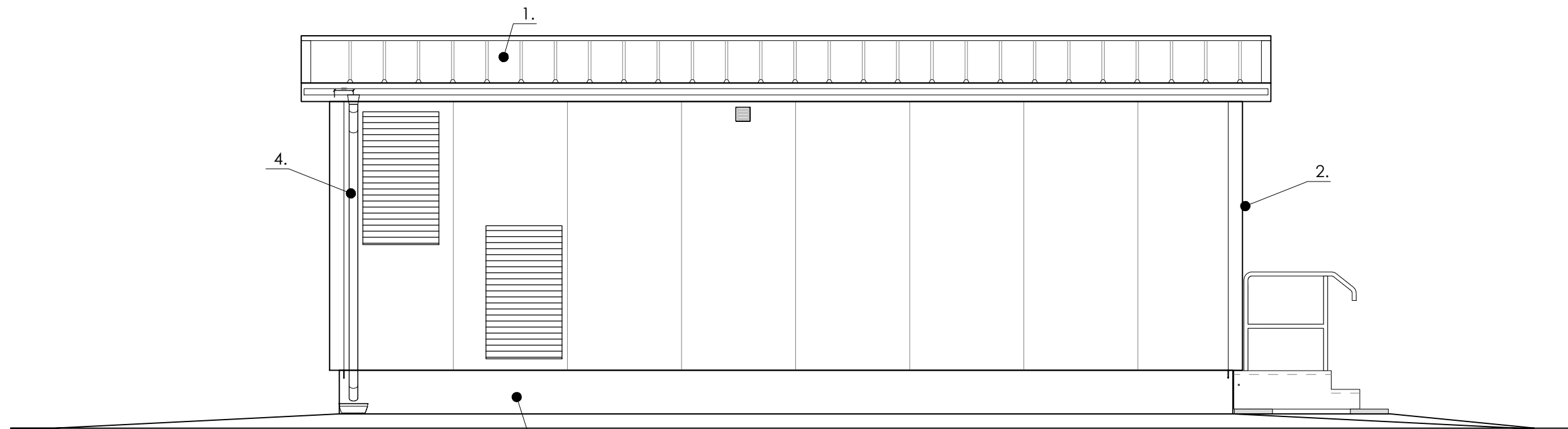
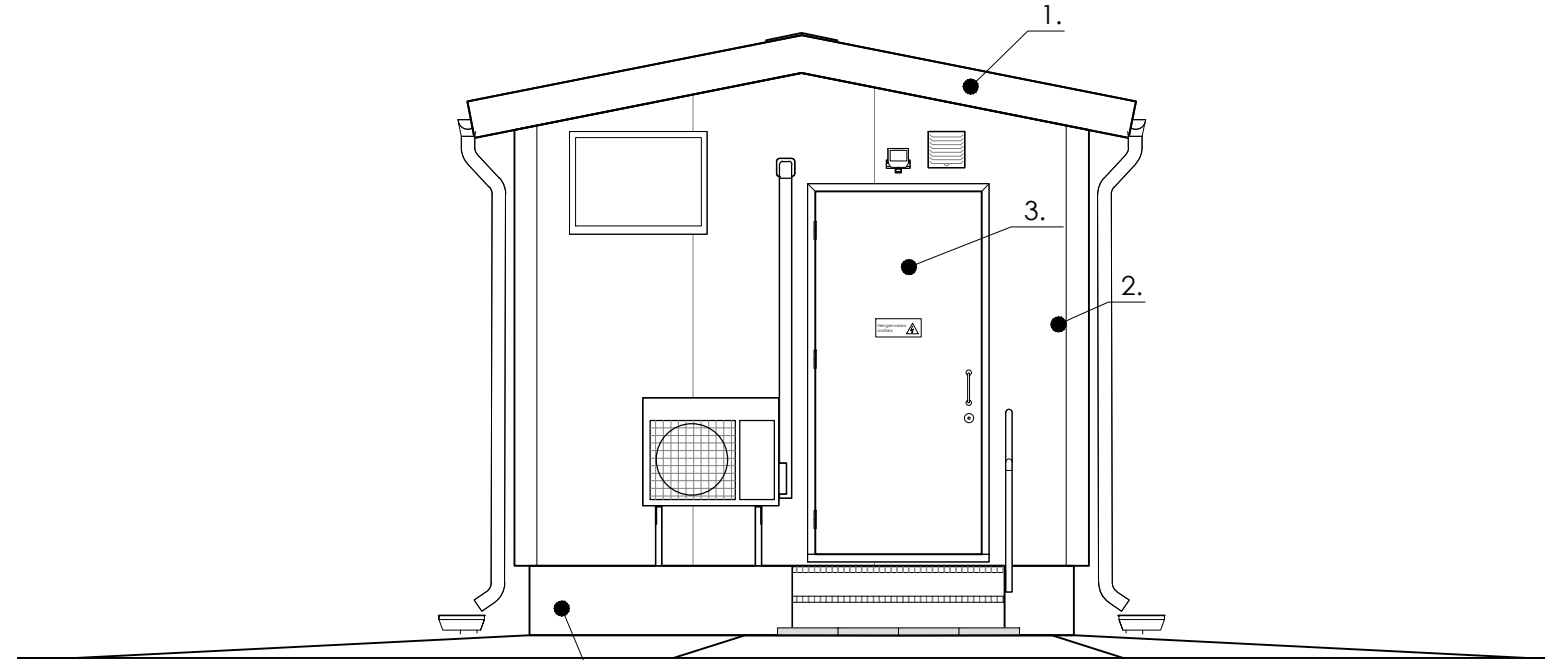


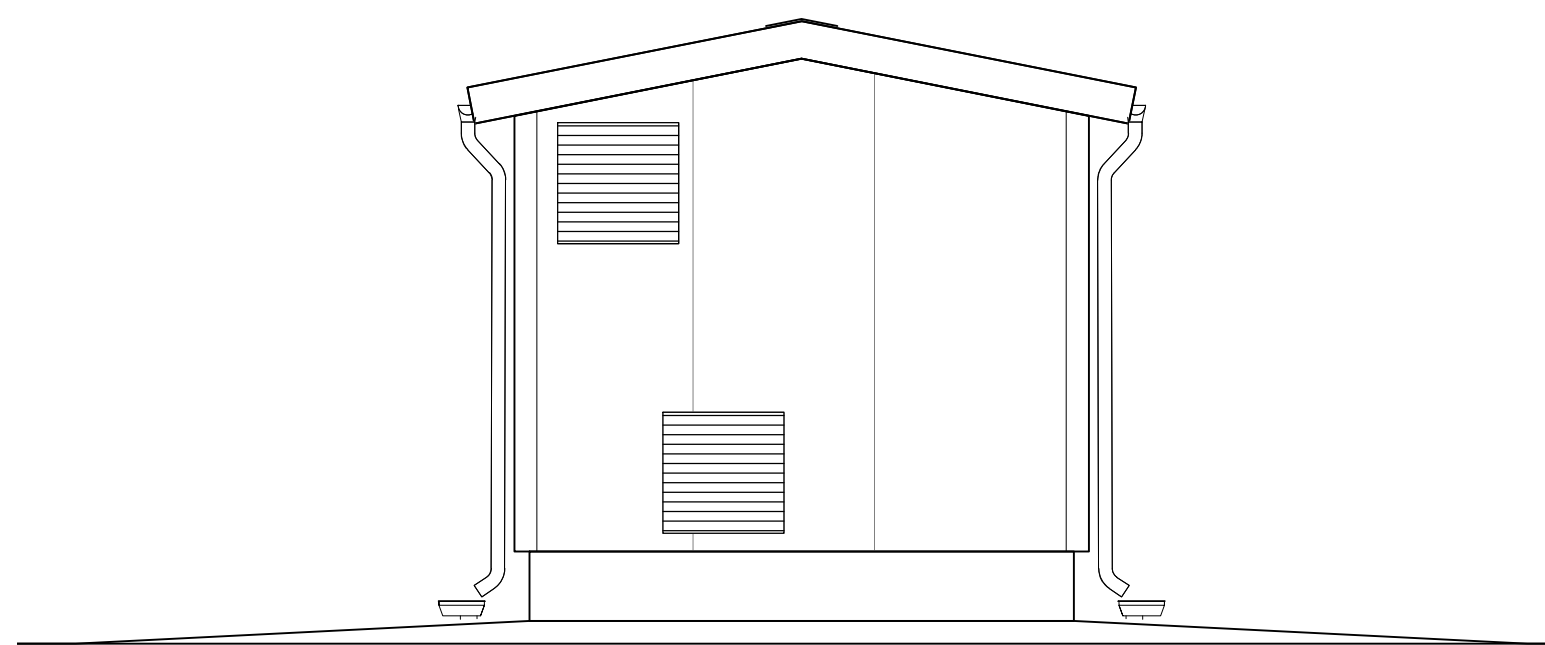
FACADE A



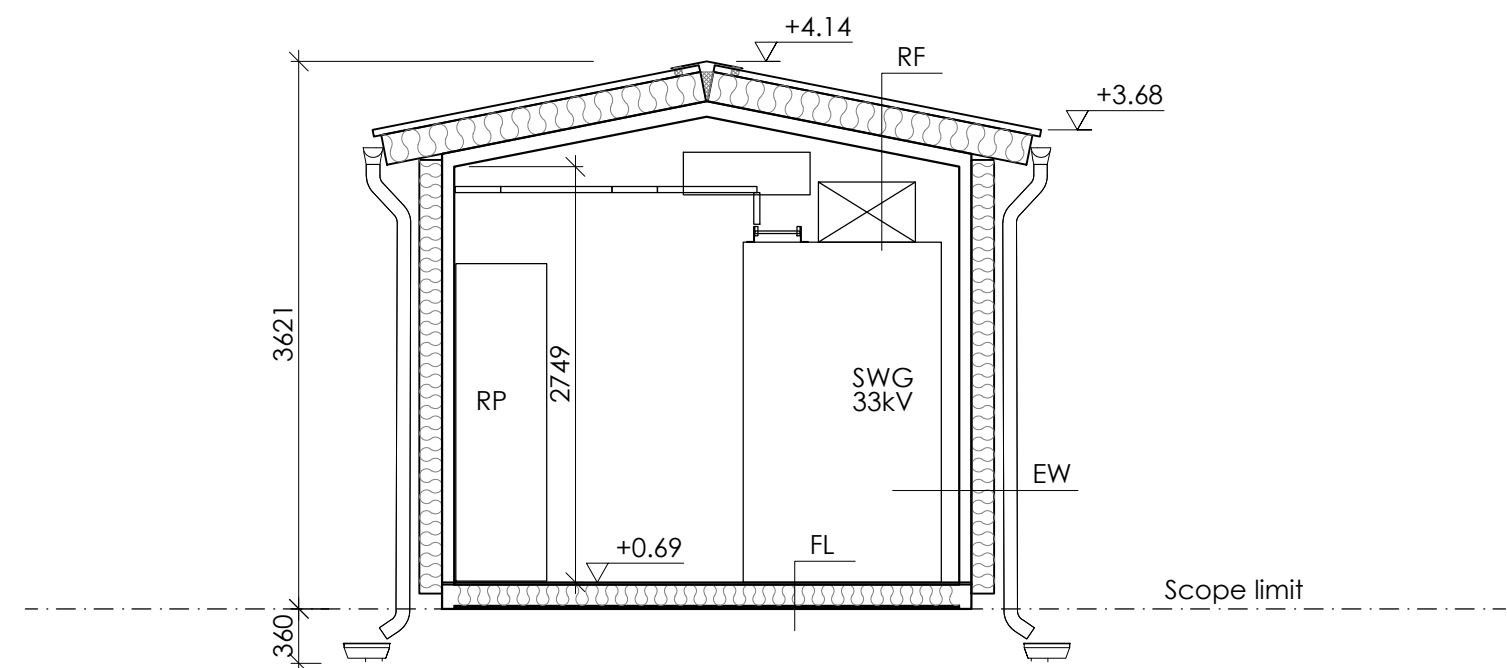
FACADE C



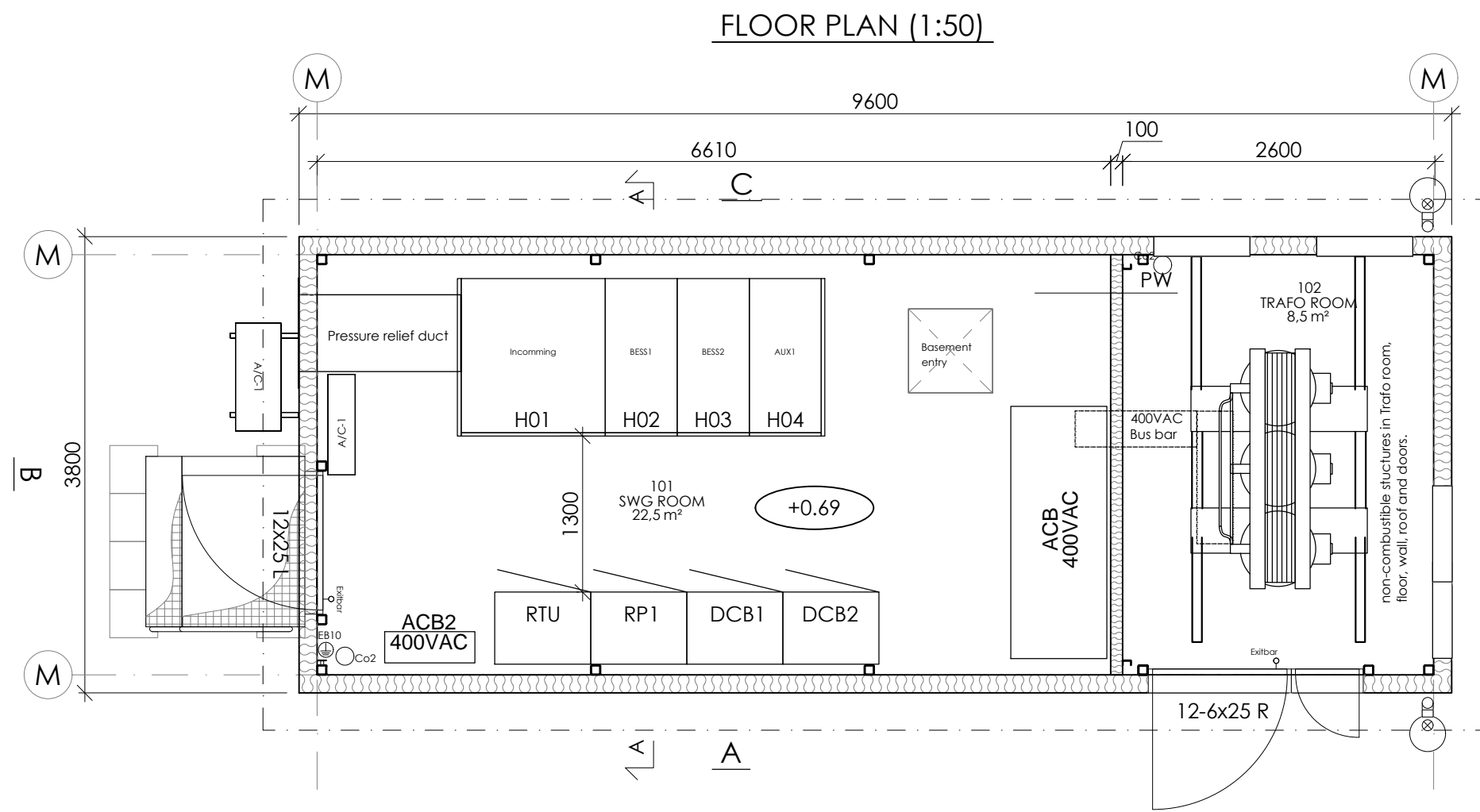
FACADE B



FACADE D



SECTION A-A (1:50)



FLOOR PLAN (1:50)

COLORS:

- 1 Roof panels, Eave purling, Footing
Color: RAL 7016, Anthracite gray
- 2 Wall panels, Corner purling
Color: RAL 7035, Light gray
- 3 External doors
Color: RAL 7035, Light gray
- 4 Gutters and Down pipes
Color: RAL 7024 / RR23, Graphite gray

RF - ROOF

Defined from the top

- Mineral wool core sandwich panel
- PVC -coated metal sheet 0.5mm / 0.4mm
- Mineral wool 200mm
- Color outside RAL 7016 (anthracite gray)
- Color inside RAL 9010 (White)
- Corrosion class C3 (outside) / C2 (Inside)
- Loadbearing steel structure R30 -fire rated

Surface class: external B/roof / internal A2-s1,d0

U = 0,20 W/m² K

EW - EXTERNAL WALL

Defined from outside

- Mineral Wool foam core sandwich panel
- PVC -coated metal sheet 0.5mm / 0.4mm
- Mineral Wool 150mm
- Color outside RAL 7016 (Light gray)
- Color inside RAL 9010 (White)
- Corrosion class C3 (outside) / C2 (Inside)
- Load bearing steel structure R30 -fire rated

Surface class: both sides A2-s1,d0

U = 0,26 W/m² K

FL - INTERMEDIATE FLOOR

Defined from above

- TPO- plywood 15mm, overlaying the panels with thermoplastic polyolefin (TPO), color RAL 7000 (gray)
- Surface class B/Fl-s1
- Loadbearing steel structure R30 -fire rated
- Insulation 150mm, mineral wool
- Battens 28x100mm
- Gypsum fibre board 15mm (F-type)
- Surface class A-s1, d0

U = 0,24 W/m² K

BFL - BASEMENT FLOOR

Defined from above

- Reinforced concrete foundation 200mm
- Surface class A_{tr}-s1
- EPS insulation 100mm
- Capillary barrier gravel
- Compressed backfilling
- Natural bearing soil

U = 0,24 W/m² K

PW - PARTITION WALL

Defined from outside

- Mineral Wool foam core sandwich panel
- PVC -coated metal sheet 0.5mm / 0.4mm
- Mineral Wool 100mm
- Color RAL 9010 (White, both sides)
- Corrosion class C2
- Steel structure R30 -fire rated

Surface class: both sides A2-s1,d0

The MEHO e -house complies with substations and the building is classified as a semi-warm Production or Storage building that have no permanent workstation.

Fire technical declaration:

- The building belongs to P3 fire class building
- The fire hazard class is 1, fire protection level 1
- The whole building belongs to the same fire compartment, including cable space. No fire-separating structures.
- Load-bearing structures R30.

Sandwich panels type mineral wool core
Exterior environmental withstand cl. C3 ISO 12944-2 / 5
Interior environmental withstand cl. C2 ISO 12944-2 / 5
Fire resistance: EI 90 (I <->0), A2-s1,d0, EN 13501-1/-2

The steel frame of the building is designed and manufactured according to CE-approval.

The building is equipped with forced/mechanical ventilation. The air is vented by exhaust fans without heat recovery. The fresh air is let in through wall mounted air supply vents that are equipped with EU3 -classified filters.

Electrical installations and escape routes are according to IEC 60364 (LV) and EN 50522 (HV)

The building is equipped with safety- and emergency lighting.

The building is equipped with Fire detection system EN/IEC, installation and testing as per EN/IEC

Firefighting equipment:
The building is equipped with suitable firefighting equipment for electrical room in accordance to fire protection level 1.
Fire extinguishers are 5 kg CO2-hand held fire extinguishers with an extinguisher fire class of 89B. The extinguishers are located inside the building next to the external doors. Quantities according to layout.

Smoke extraction is handled by through opening of external doors. No separate smoke extraction system.

Fire class for internal and external surfaces according to construction types in drawing.
If needed building is equipped with a pressure relief hatch. Quantities according to layout.

Co2 = Hand held Co2 fire extinguishers

Building areas and volume:

Floor area: 37 m²
Net floor area: 31 m²
Volume: 119 m³

A		SWG size		Kile		15.11.2024	
REV.	REV. COMMENTS			PREPARED		DATE	
City	Block	nro		Code			
-	-	-					
Construction measure				Drawing kind		Number	
NEW CONSTRUCTION				Main drawing		2/2	
Project				Title		Scale	
49koma8				Meho E -house building			
UW Bonaduz				Layout,Section and Facades			
53/33kV Substation							
<div>HITACHI</div> <div>Hltachi Energy Finland Oy</div>				Desing kind	Project nro	Drawing nro	Revision
				ARK	7124255 T1 U4002		D
Date	Designer			Signature			
10.10.2024	Kimmo Lepistö						