

CO REFUGEE SHELTER



PENG LUMING

CONSULTANT : Dr. Benkő Melinda

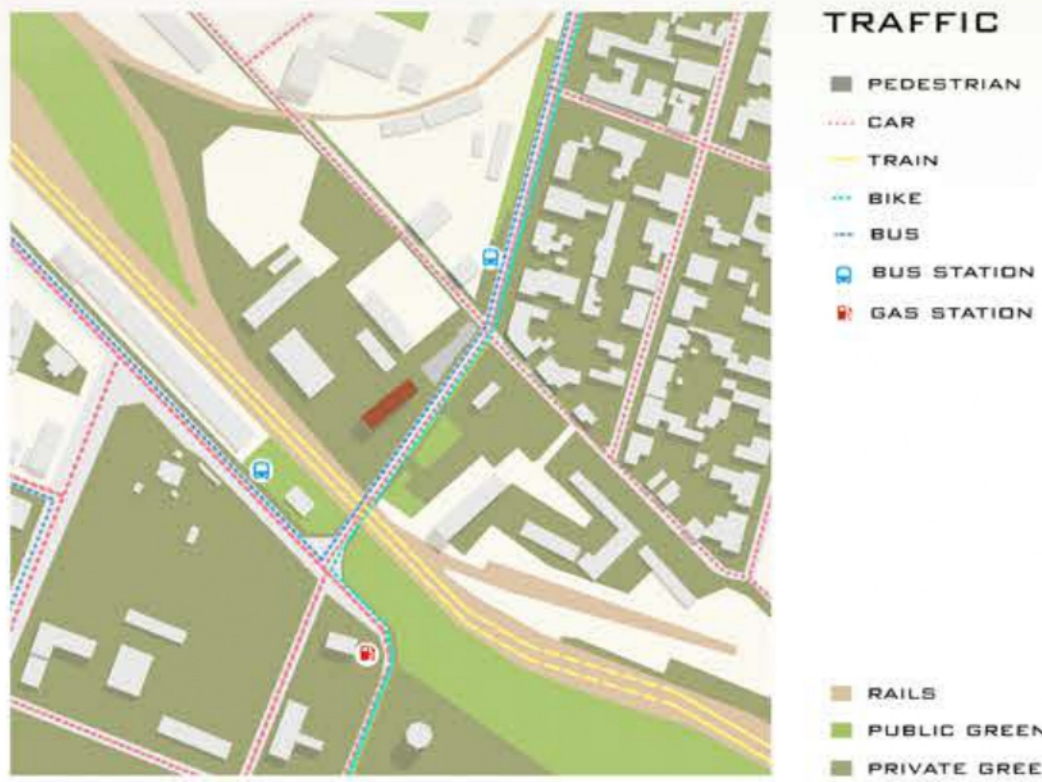
DEPARTMENT OF URBAN PLANNING AND DESIGN FACULTY OF ARCHITECTURE

Location:
Hungary, Budapest, Madridi
u. 7-9, 1131

Area:
3605m²

Surrounding functions:
East to old factories, west to
flat resident houses, nearby
the working railway, between
the homeless shelter and
labors' dormitory.

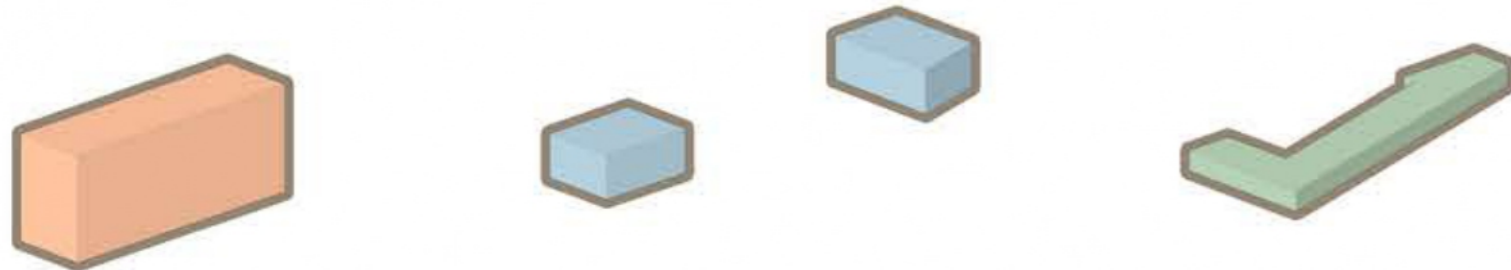
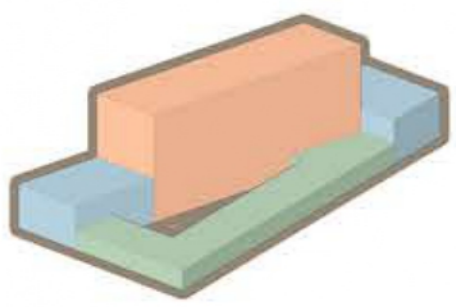
Height of Surroundings:
-Relatively loose
-Mostly one to two floors
building, around 3,5m-7,2m.



The project is established on the existing refugee shelter building in Budapest, aimed to renovate the dormitory rooms for better living environment and build the community and activity place for residents' daily lives.

Building concept

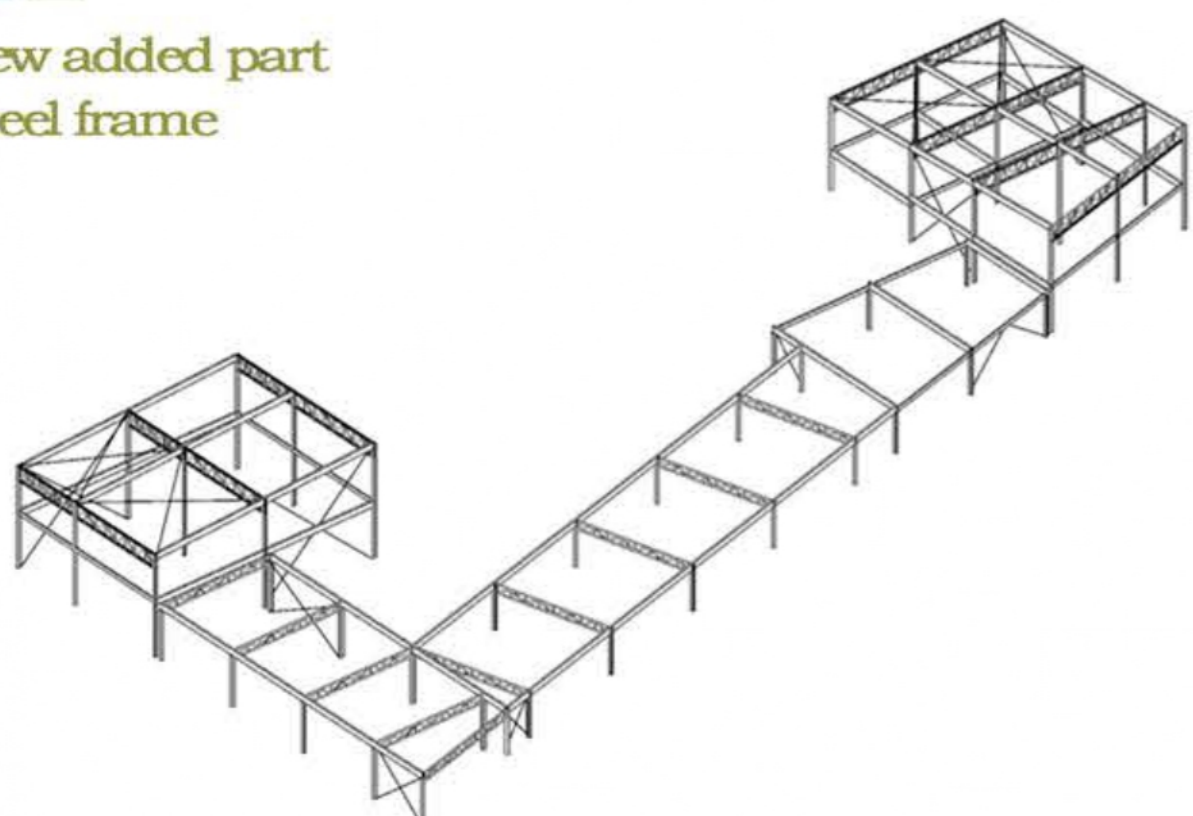
- Existing shelter
Footprint area: 100 m²
Built up area: 500 m²
- Glass block
Footprint area: 340 m²
Built up area: 340 m²
- Activity place
Footprint area: 420 m²
Built up area: 420 m²



Renovation of existing shelter

- Room A
Area: 24m²
People: 3
- Room B
Area: 37m²
People: 4
- Room C
Area: 60m²

New added part
Steel frame



Refugee shelter yard



Refugee shelter room



Old factory



Old houses



Refugee shelter



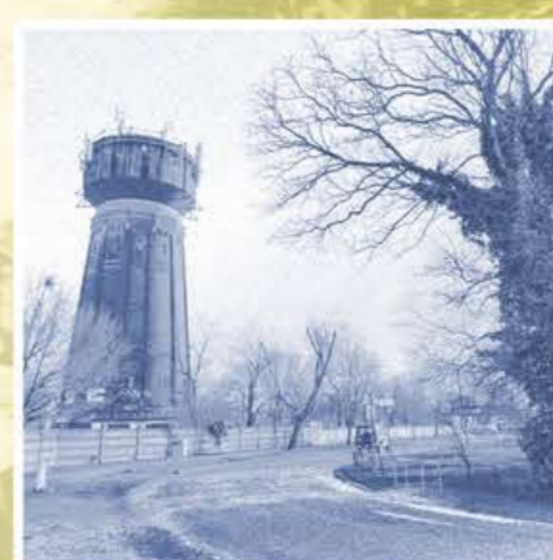
Gas station



Labour dormitory



Rail



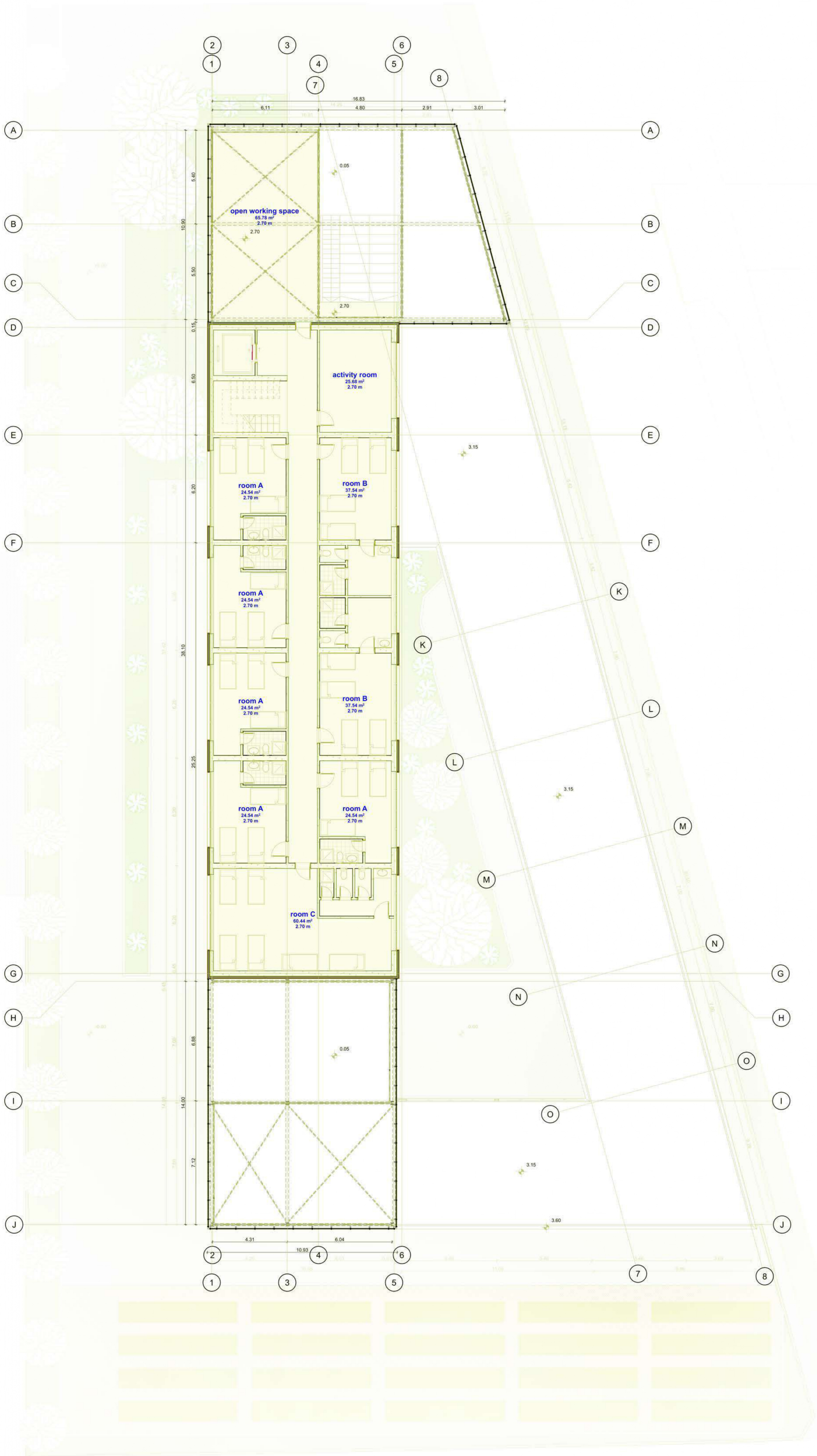
Water tower





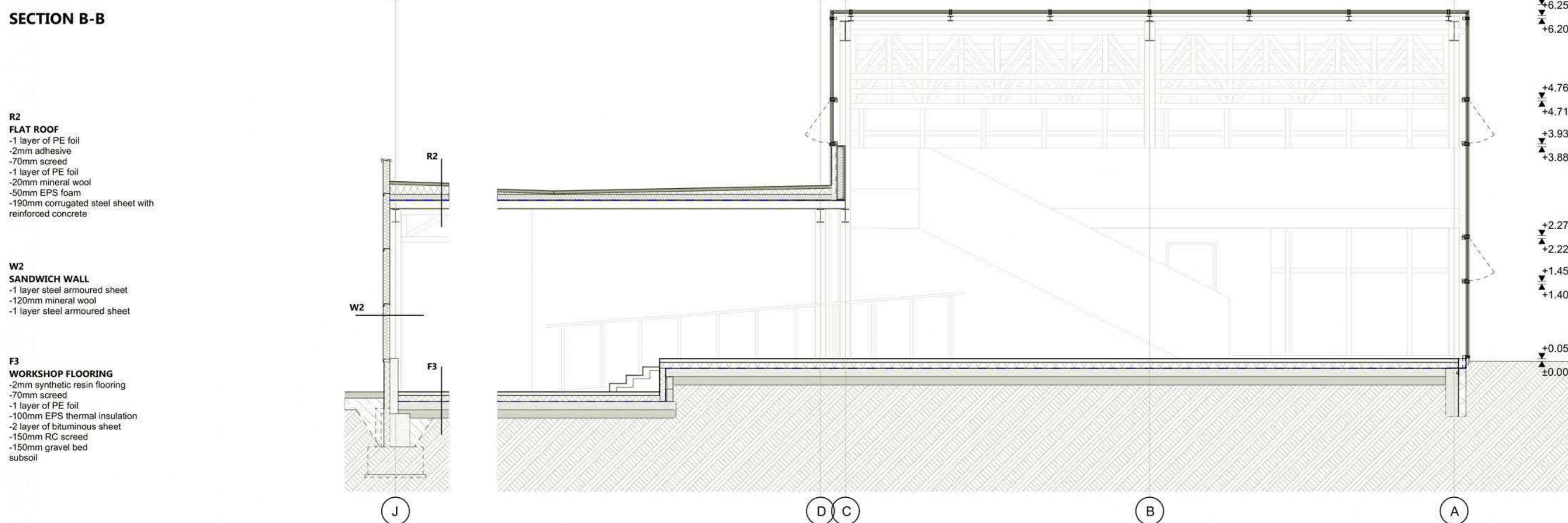
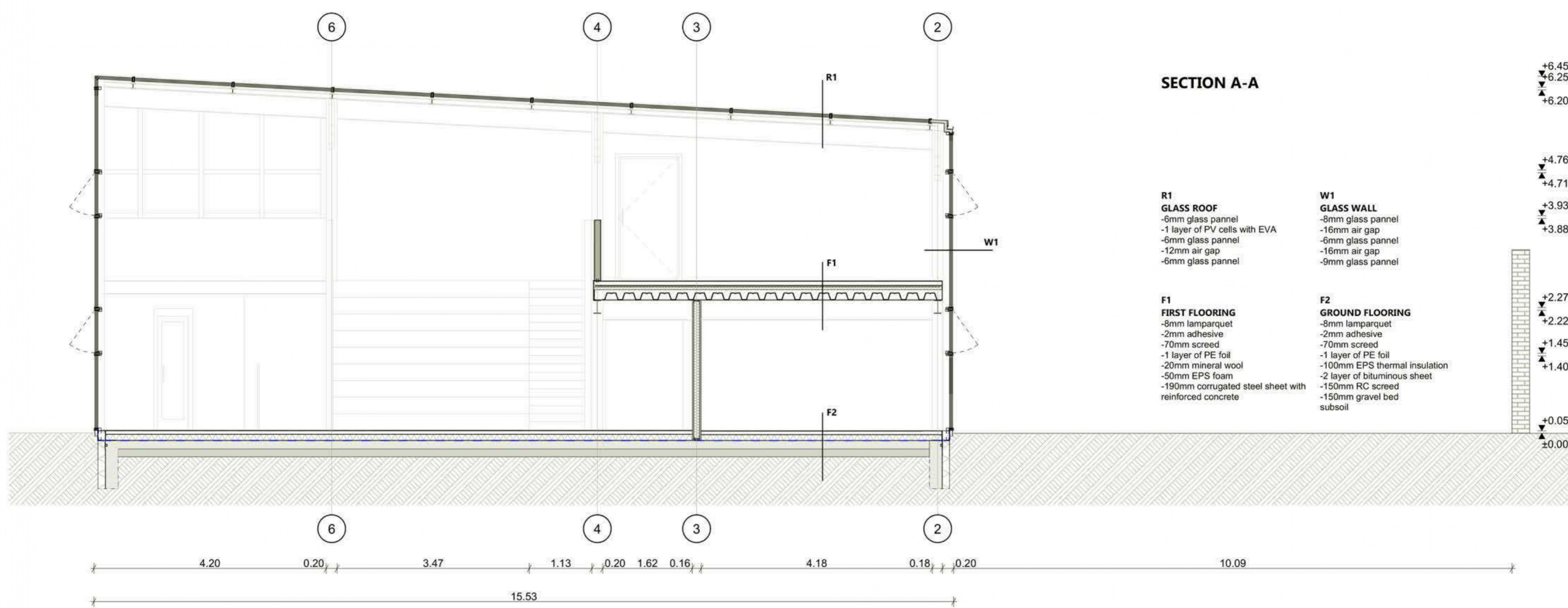
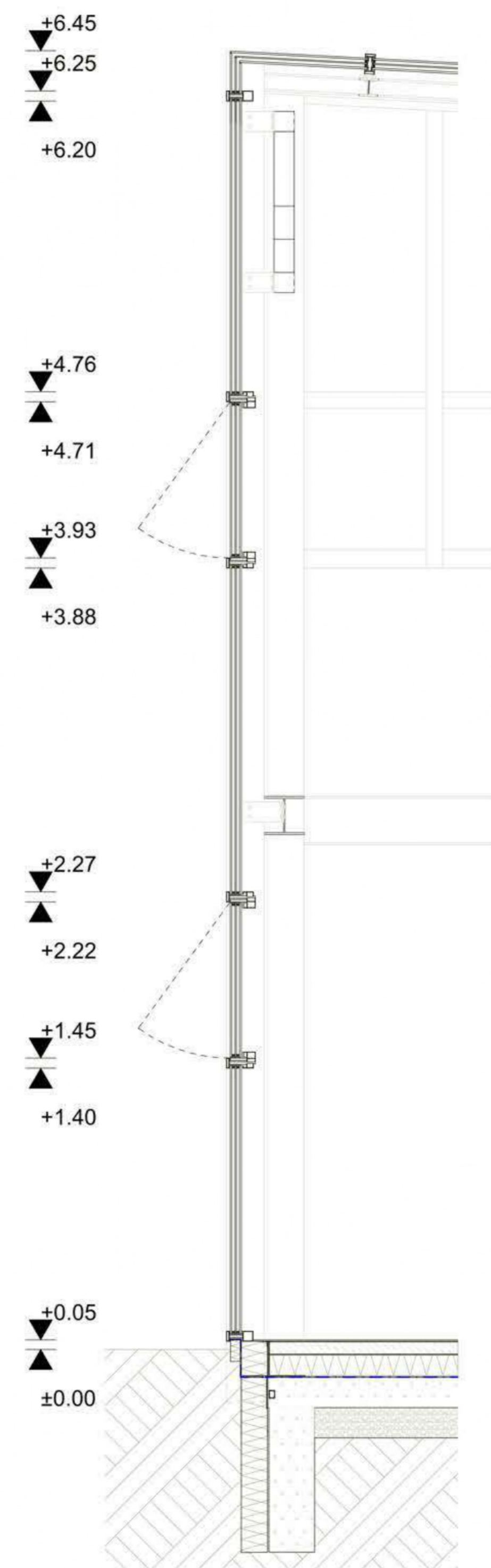
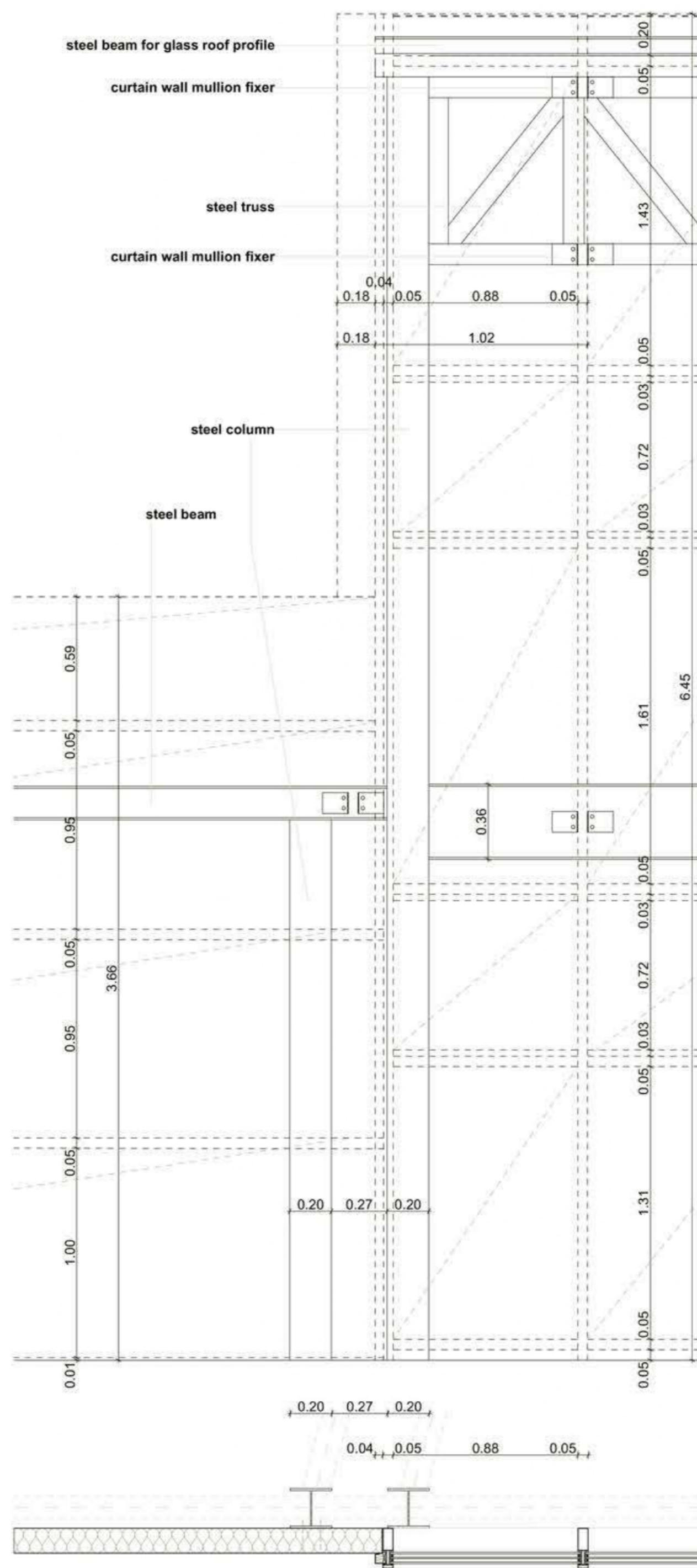
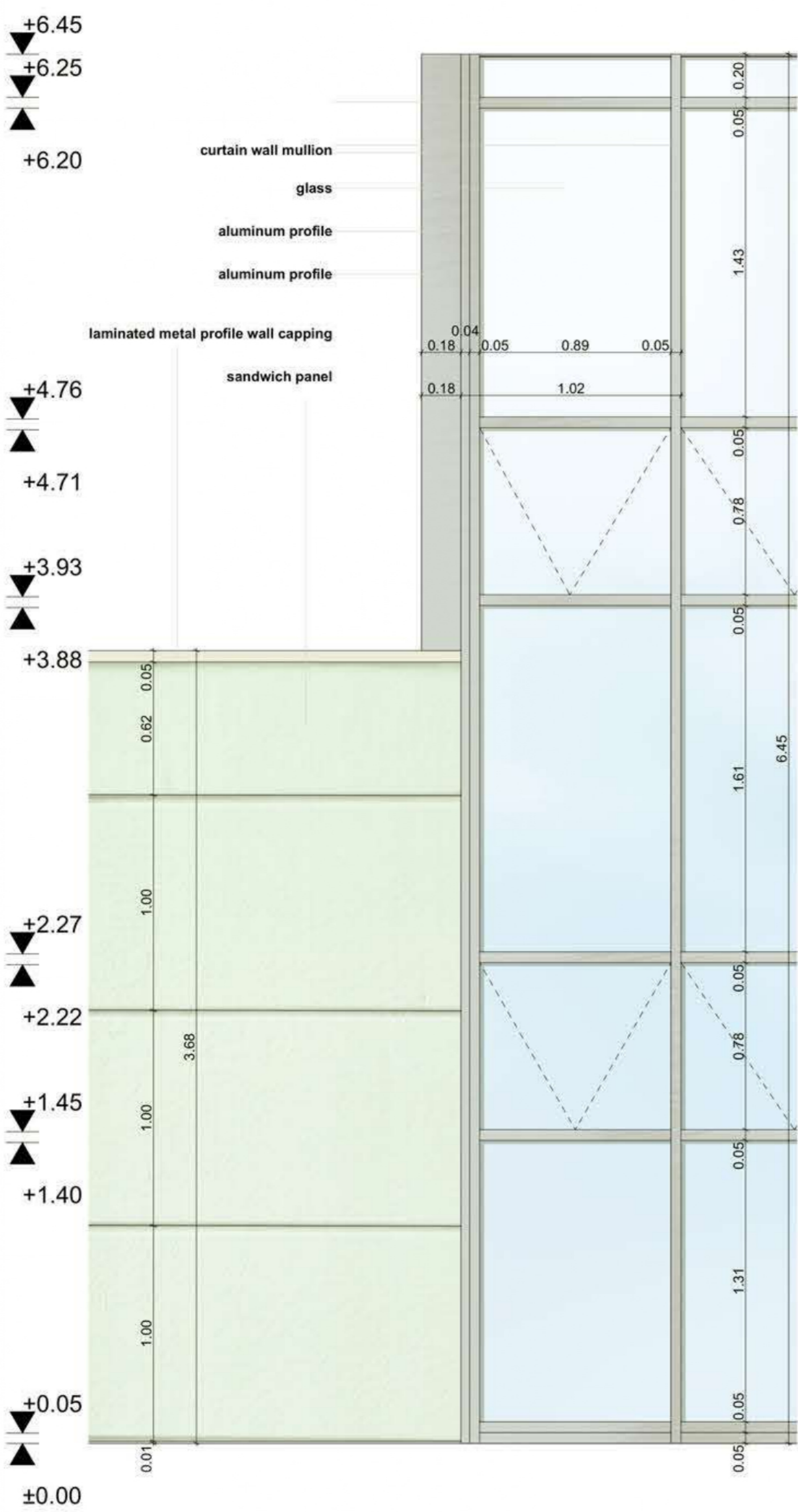
- R1**
GLASS ROOF
-6mm glass pannel
-1 layer of PV cells with EVA
-6mm glass pannel
-12mm air gap
-6mm glass pannel
- R2**
FLAT ROOF
-1 layer of PE foil
-2mm adhesive
-70mm screed
-1 layer of PE foil
-20mm mineral wool
-50mm EPS foam
-190mm corrugated steel sheet with reinforced concrete
- W1**
GLASS WALL
-8mm glass pannel
-16mm air gap
-6mm glass pannel
-16mm air gap
-9mm glass pannel
- W2**
SANDWICH WALL
-1 layer steel armoured sheet
-120mm mineral wool
-1 layer steel armoured sheet
- W3**
PARTITIONAL WALL
-25mm plaster board
-100mm mineral wool
-25mm plaster board
- F1**
FIRST FLOORING
-8mm lamparquet
-2mm adhesive
-70mm screed
-1 layer of PE foil
-20mm mineral wool
-50mm EPS foam
-190mm corrugated steel sheet with reinforced concrete
- F2**
GROUND FLOORING
-8mm lamparquet
-2mm adhesive
-70mm screed
-1 layer of PE foil
-100mm EPS thermal insulation
-2 layer of bituminous sheet
-150mm RC screed
-150mm gravel bed subsoil
- F3**
WORKSHOP FLOORING
-2mm synthetic resin flooring
-70mm screed
-1 layer of PE foil
-100mm EPS thermal insulation
-2 layer of bituminous sheet
-150mm RC screed
-150mm gravel bed subsoil



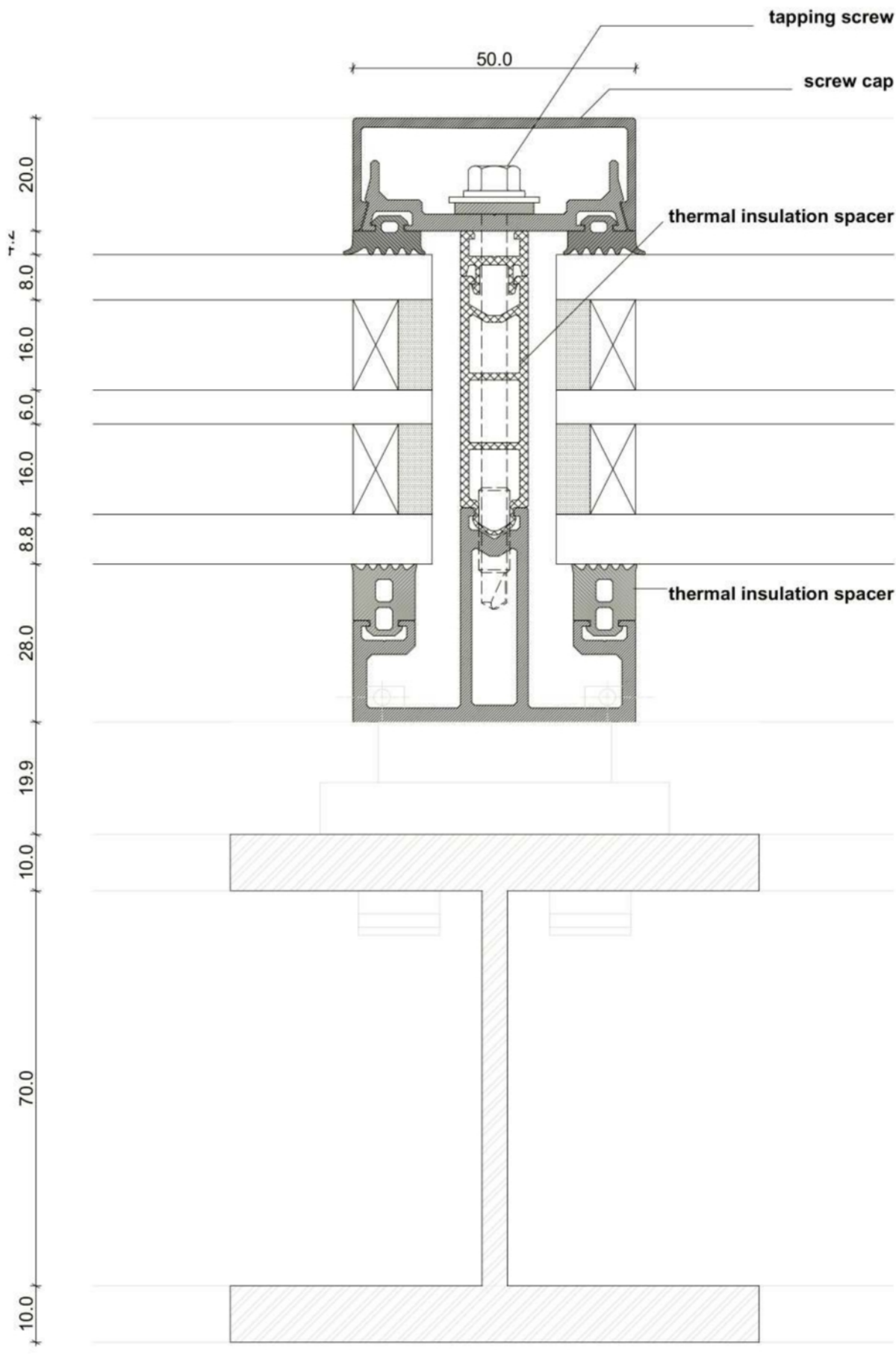


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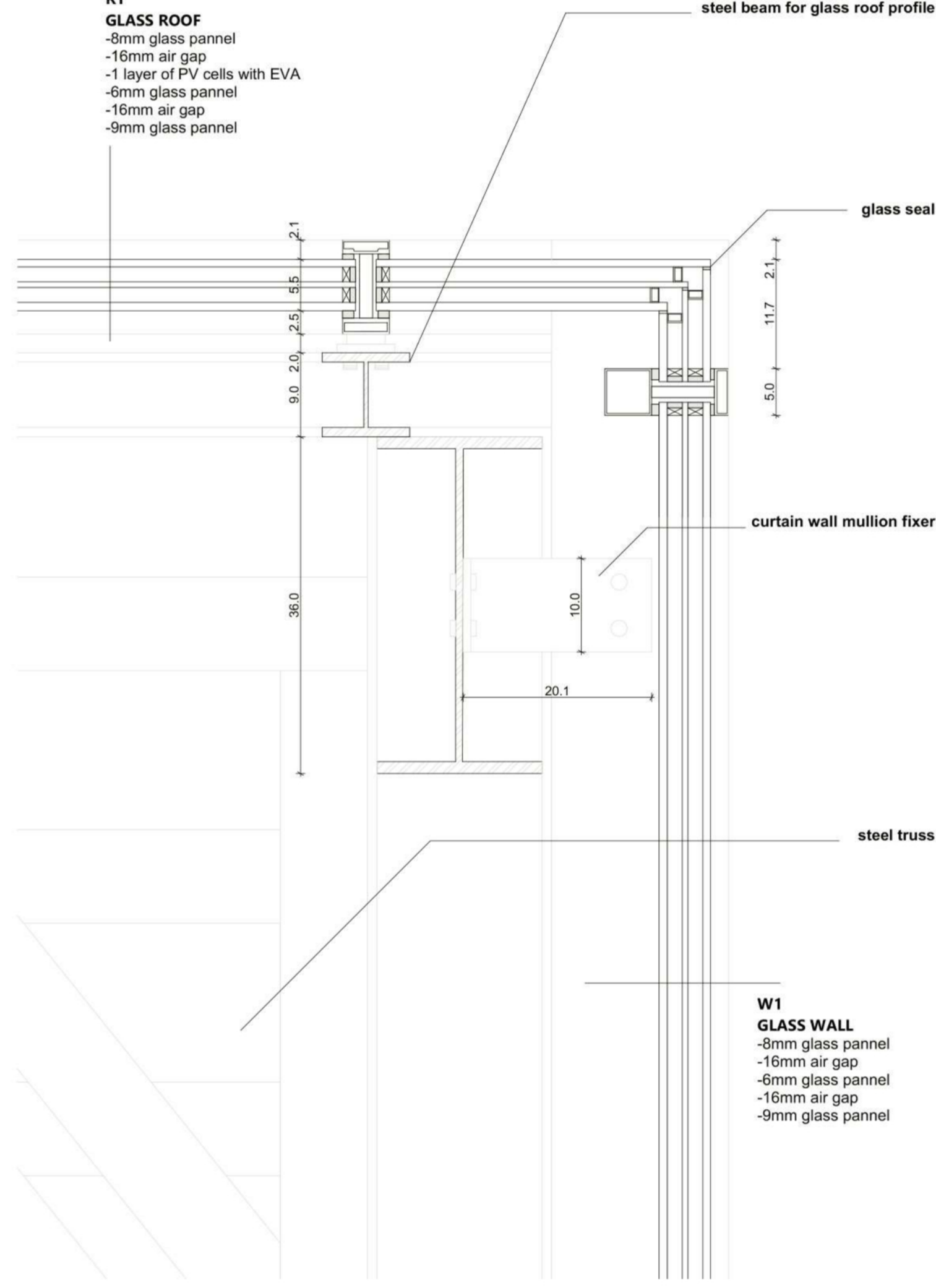




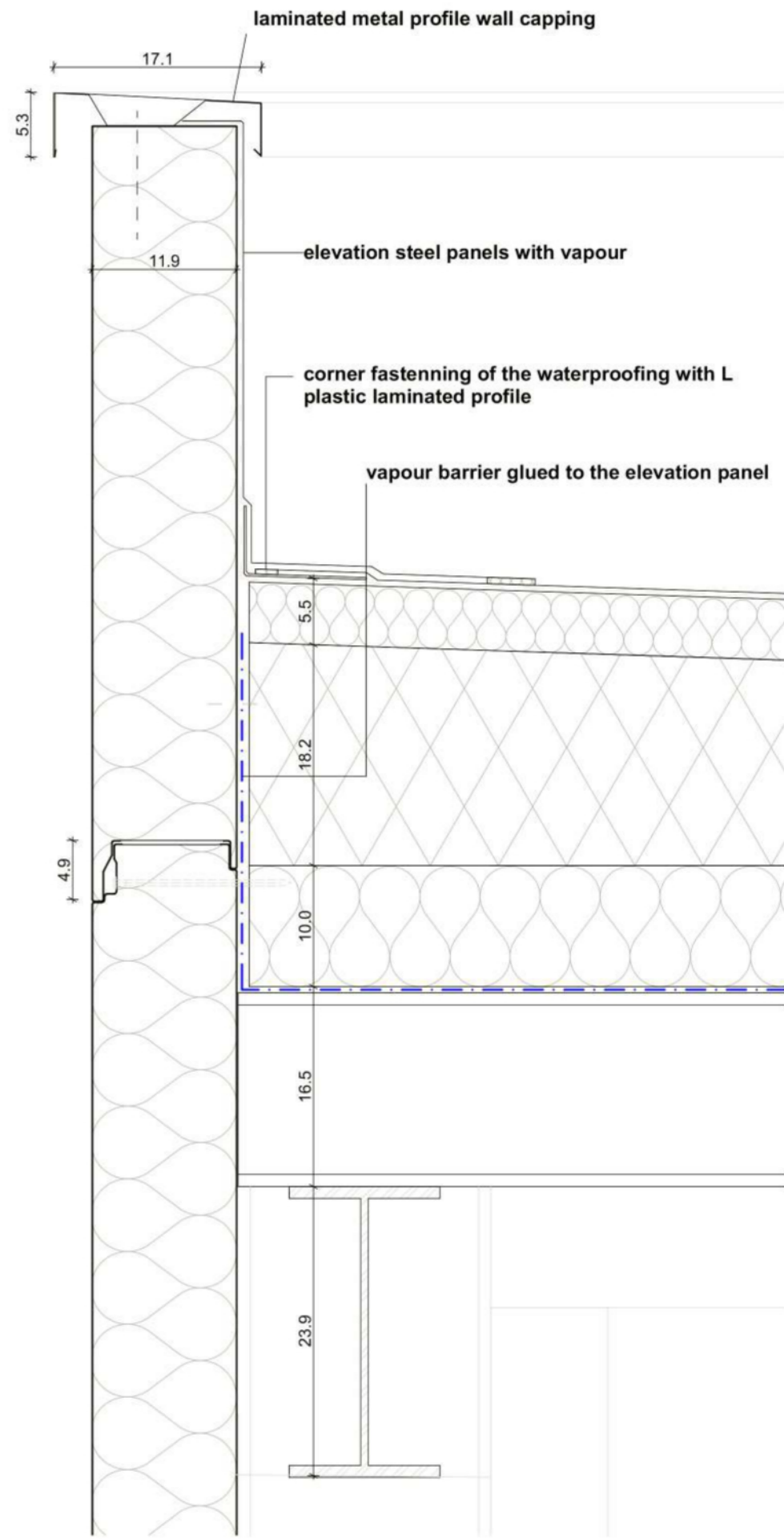
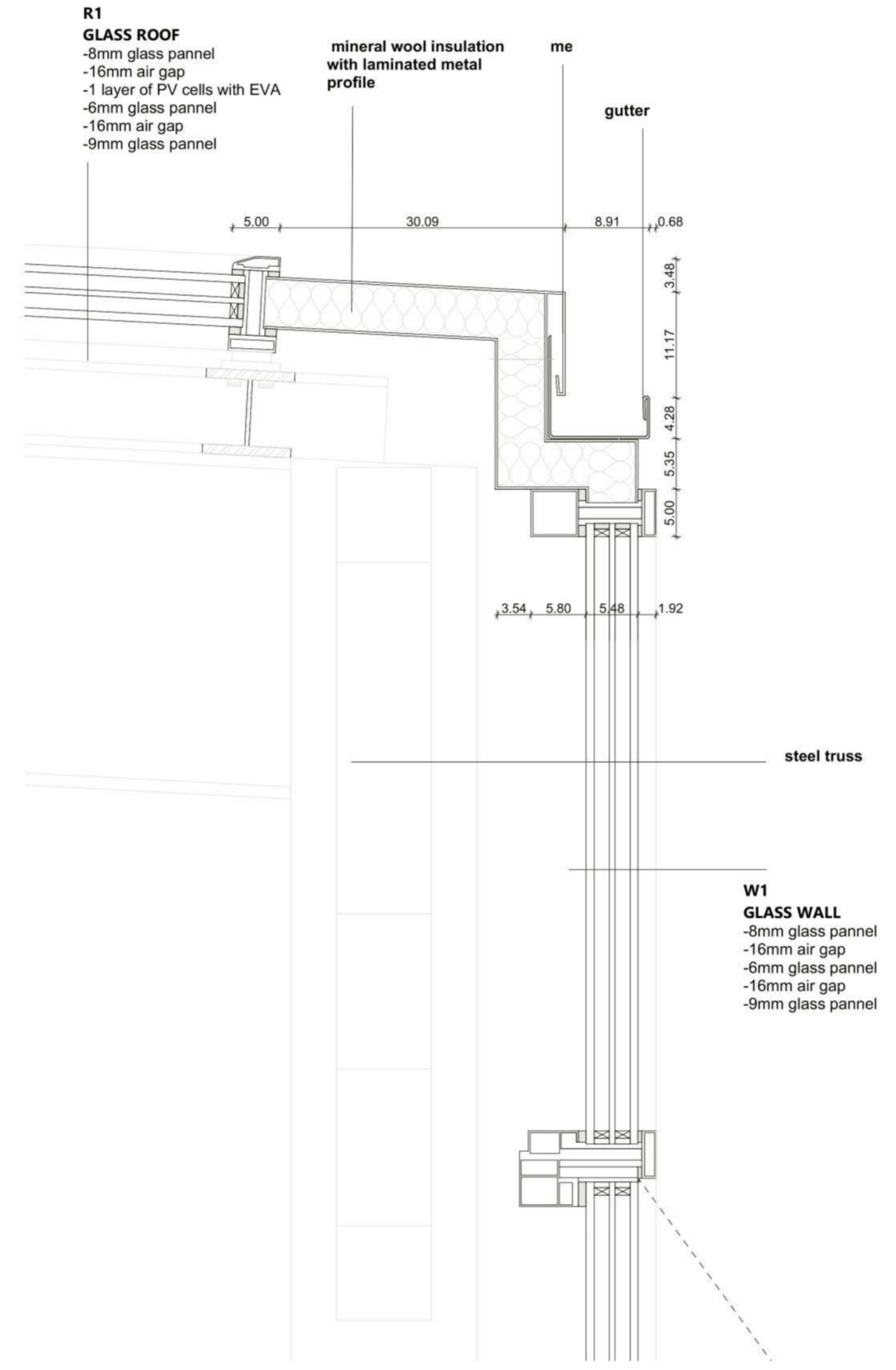
GLASS ROOF PROFILE
1:1



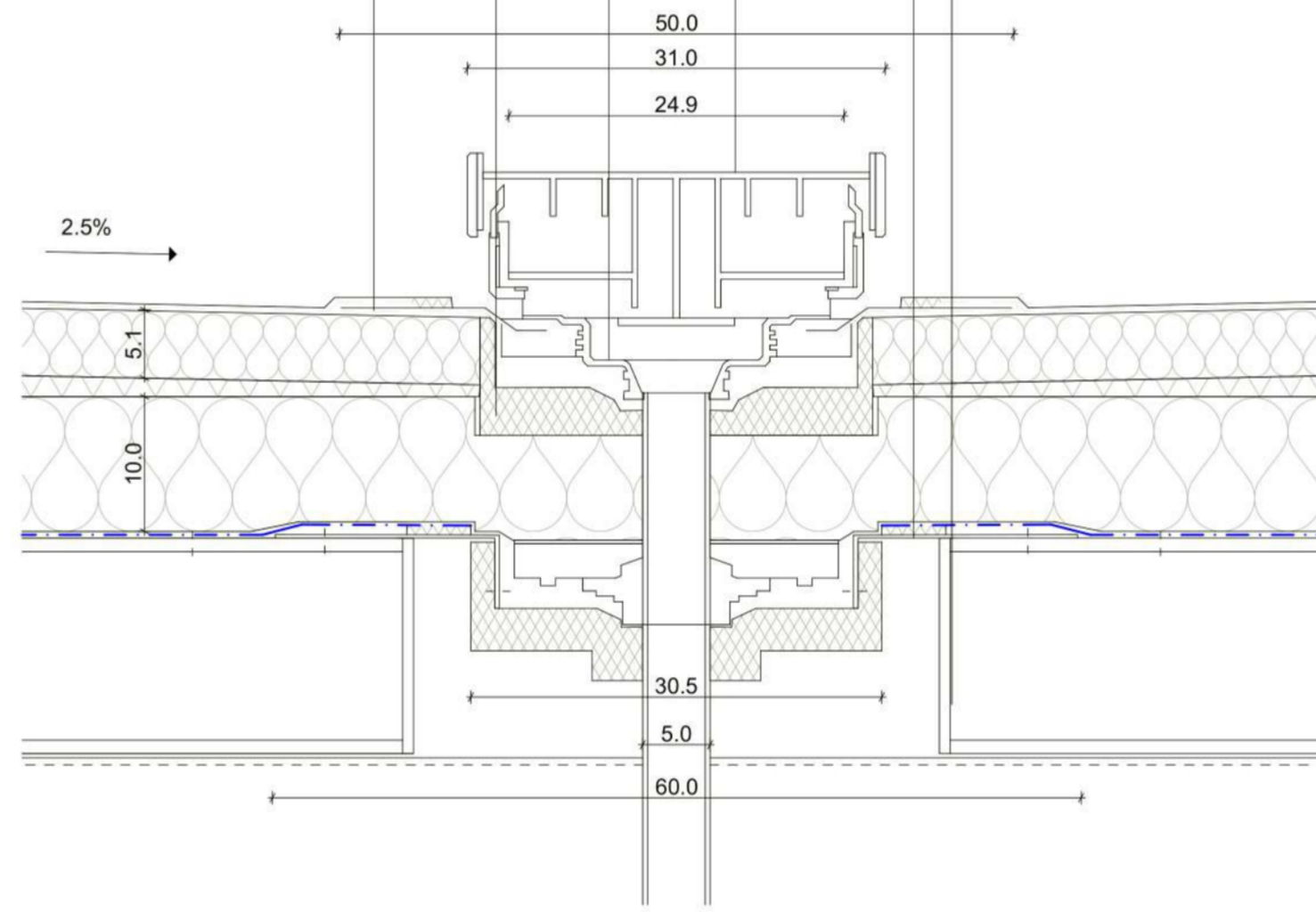
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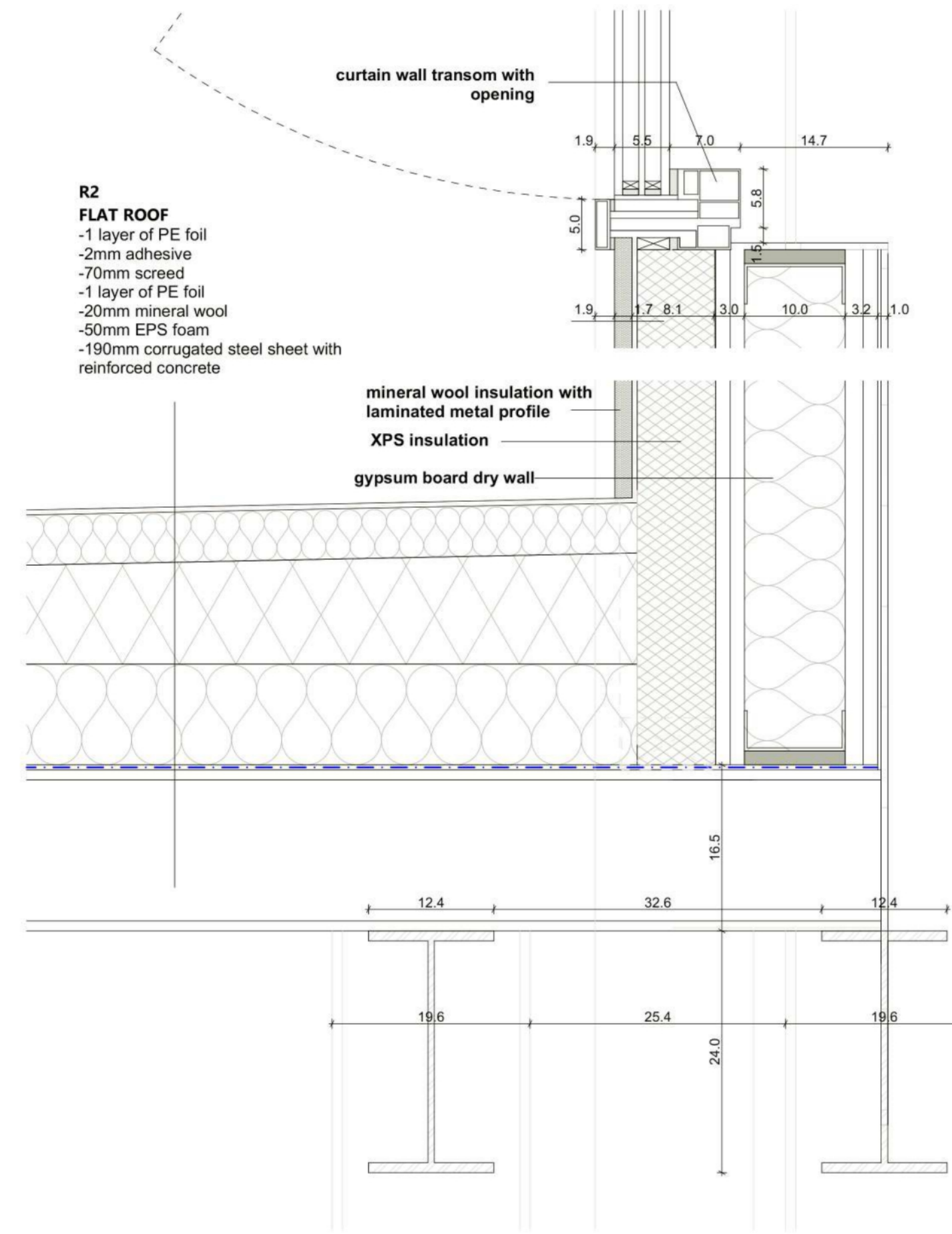
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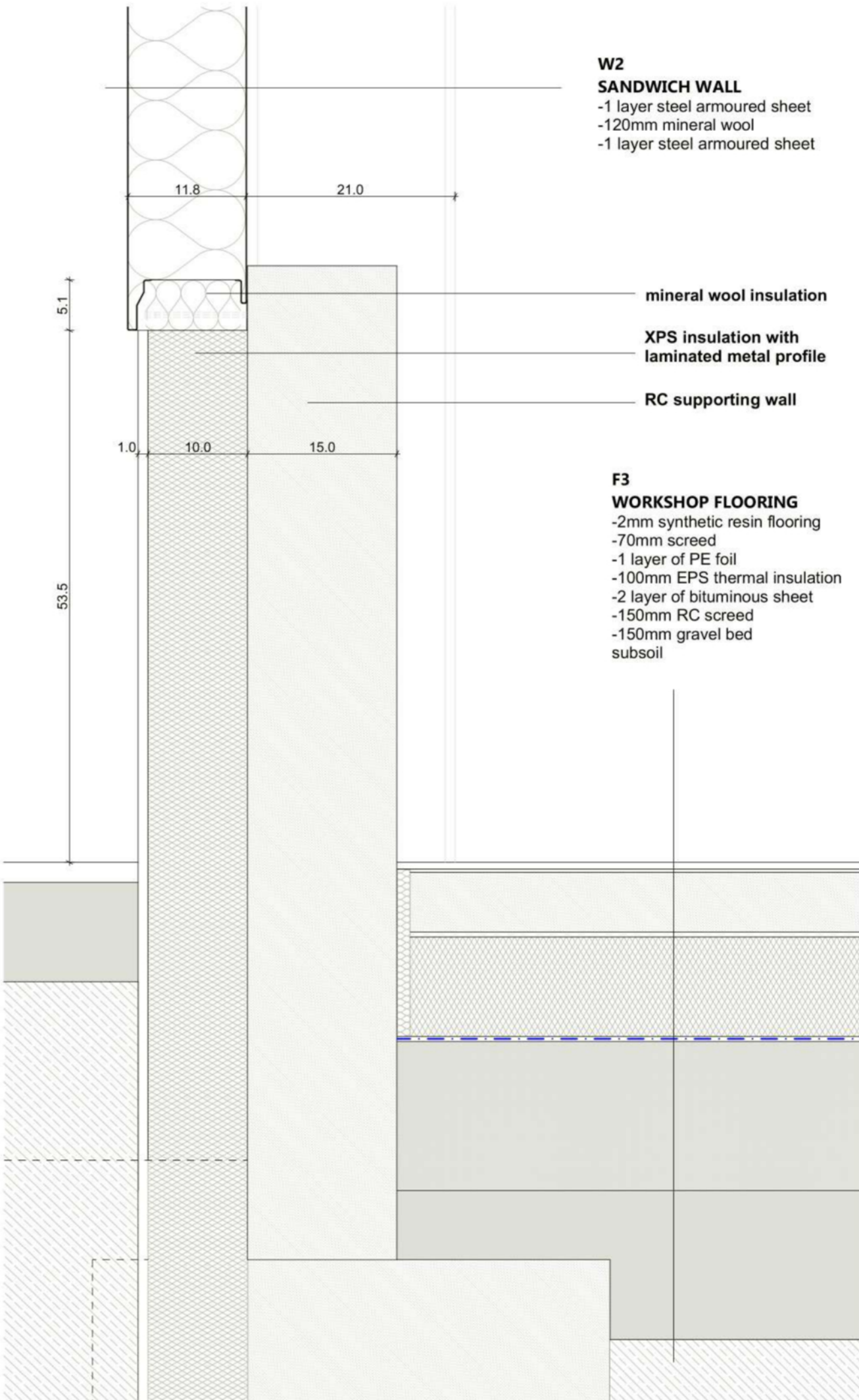
galvanised steel profile strengthening fastened to the corrugated sheet with rivets
galvanised steel plate
plastic leaf trap
gully with PVC membrane flange
polystyrene foam thermal insulation
PVC flange of roof outlet



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