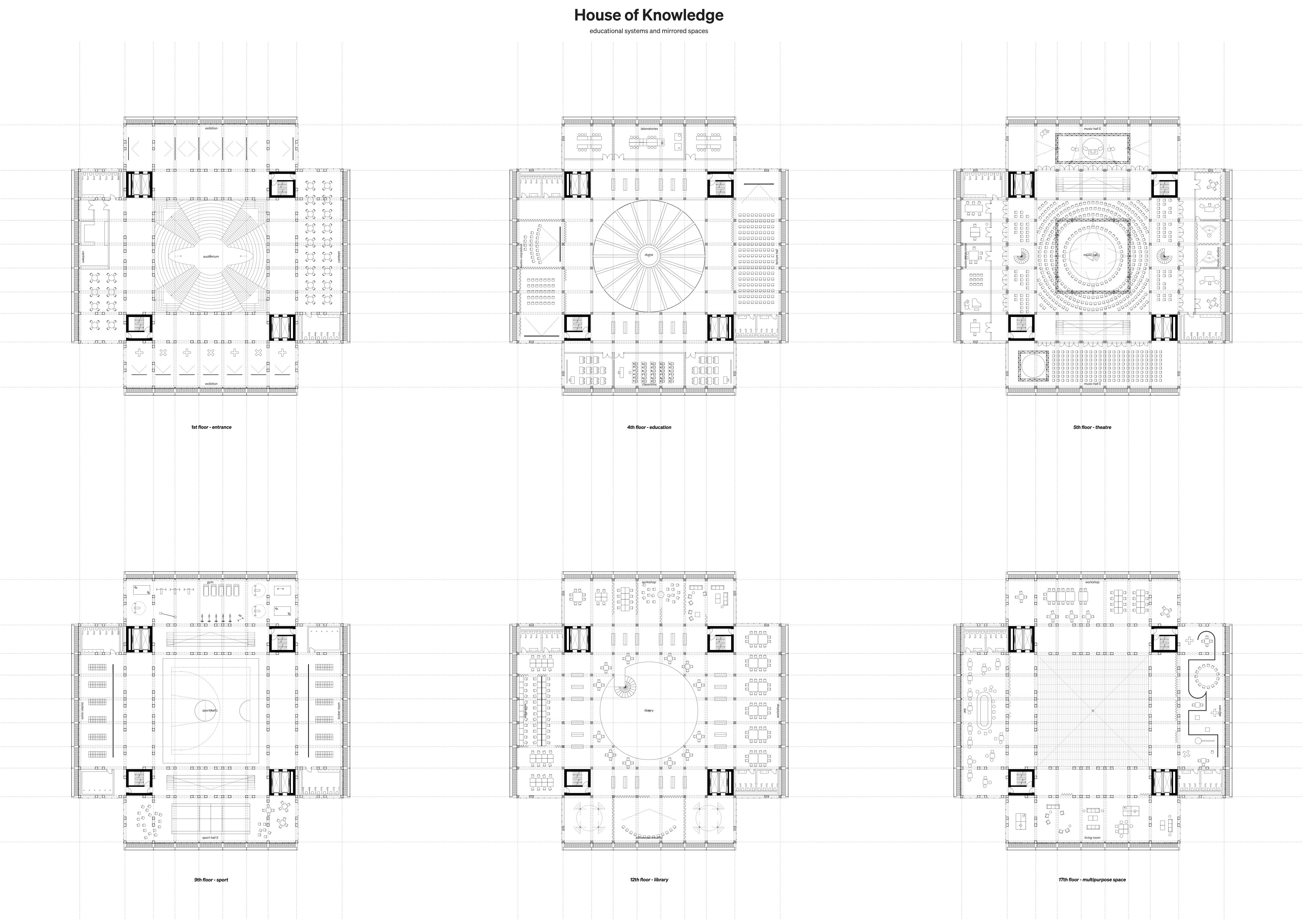
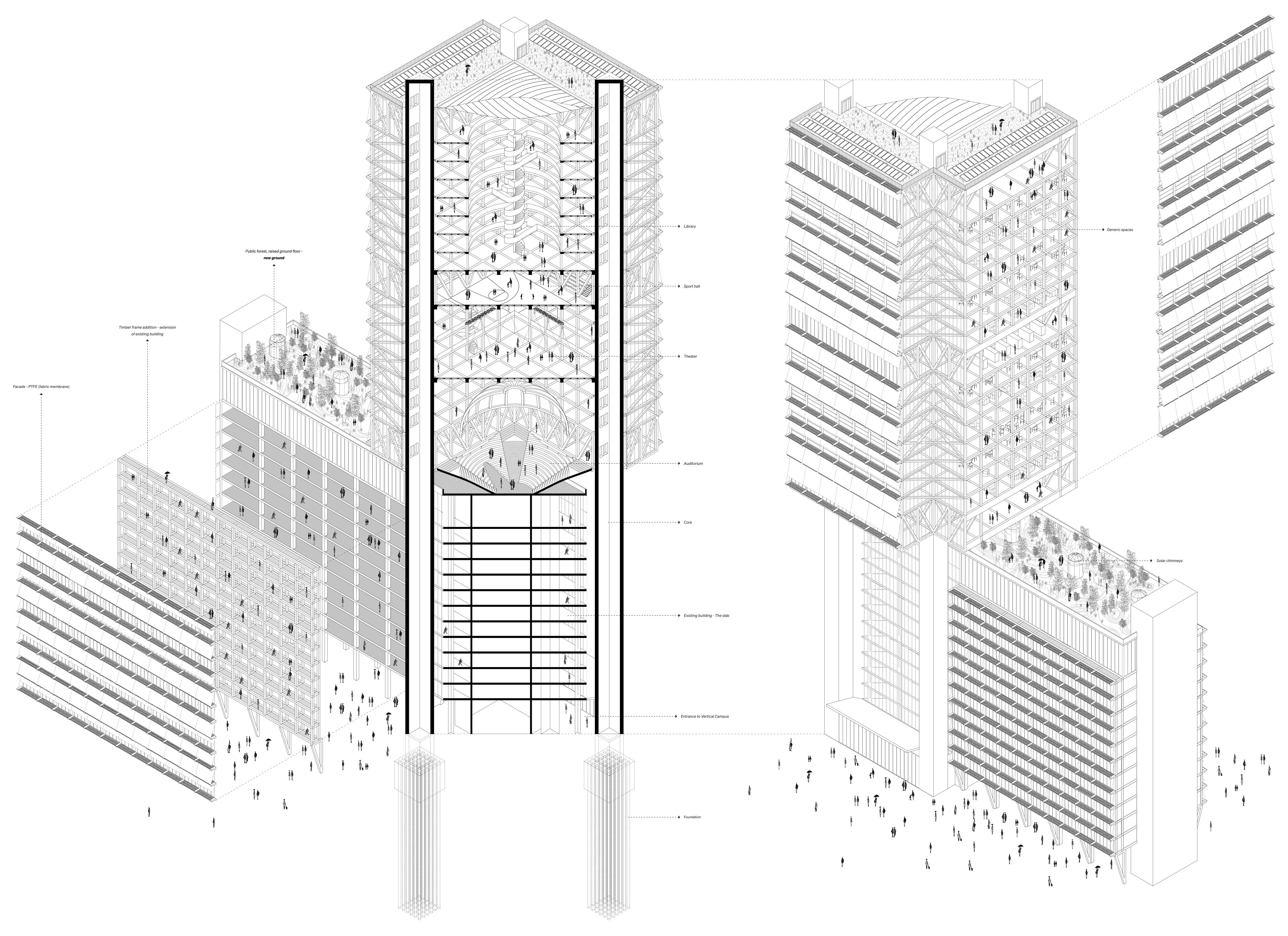


educational systems and mirrored spaces





Tonko Bonković

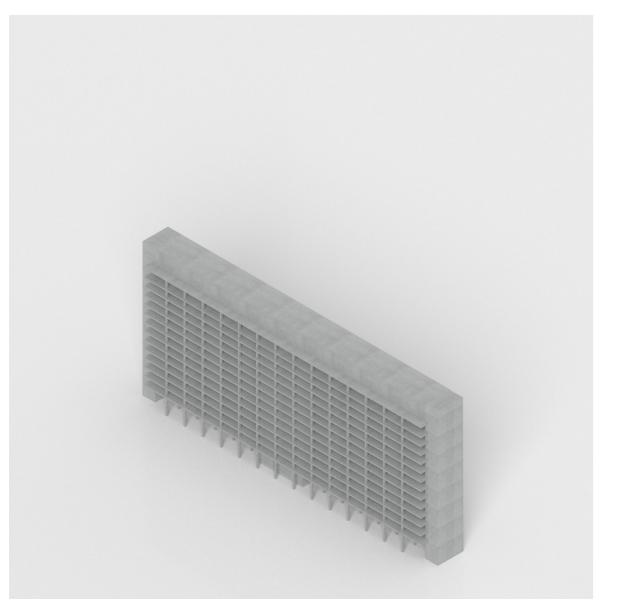


House of Knowledge

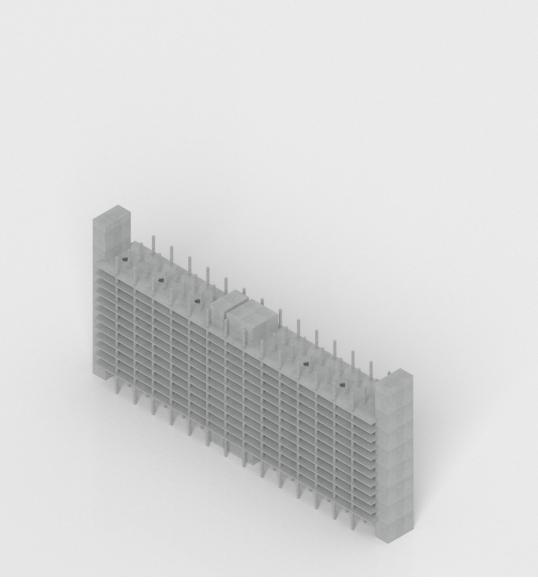
educational systems and mirrored spaces



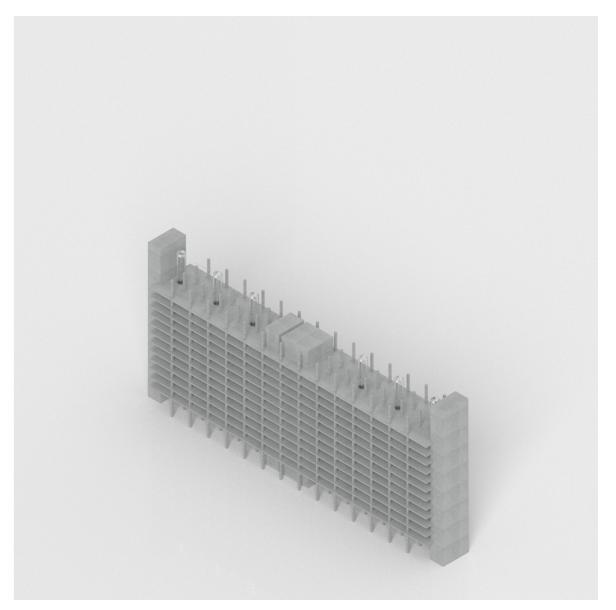
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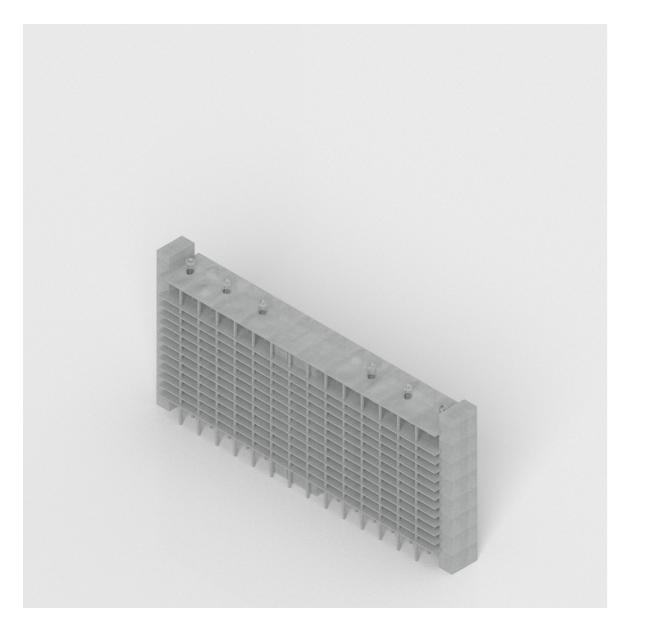
existing structure

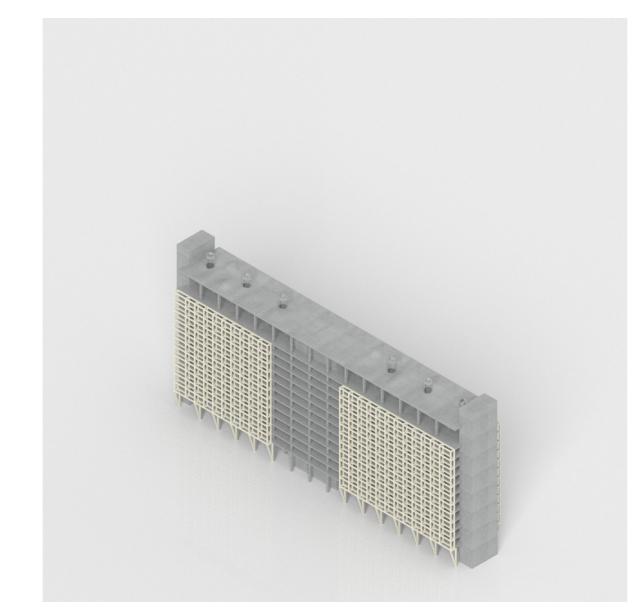


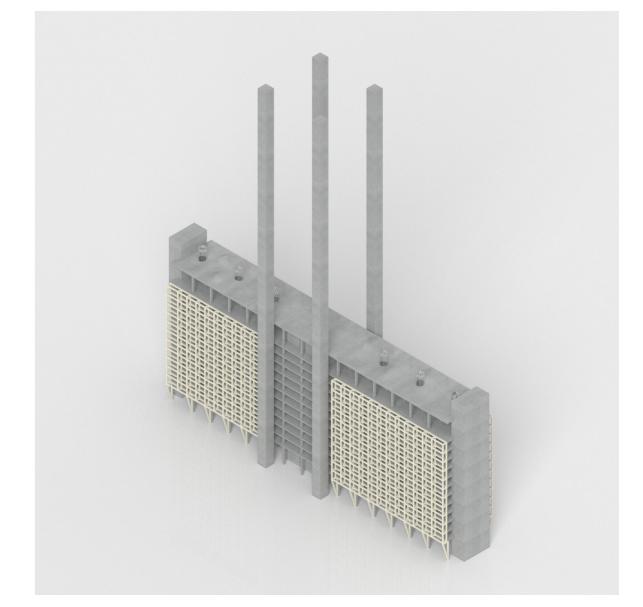
removal of two last floors + drilling holes



addition of passive ventilation - chimneys



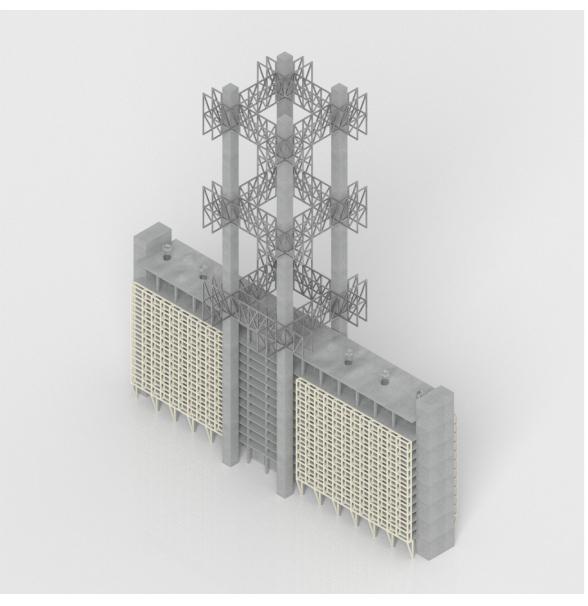


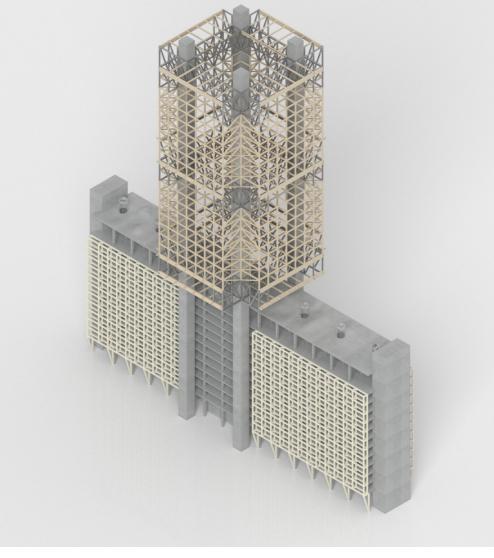


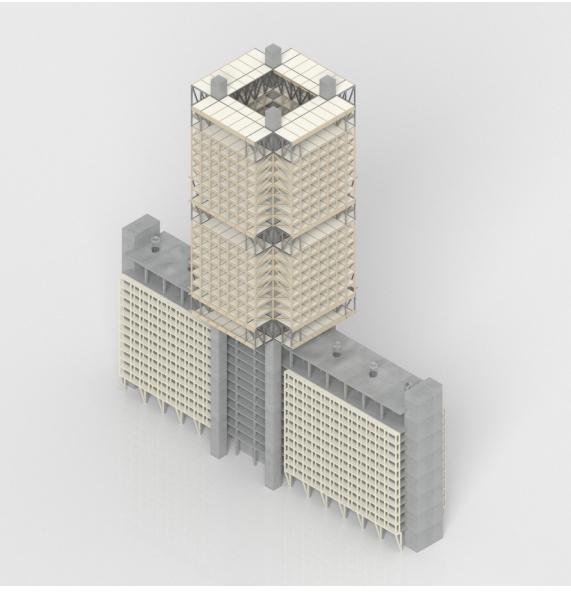
adding top floor - new ground

facade extension

new cores for superstructure







timber flooring

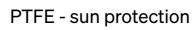
steel trusses

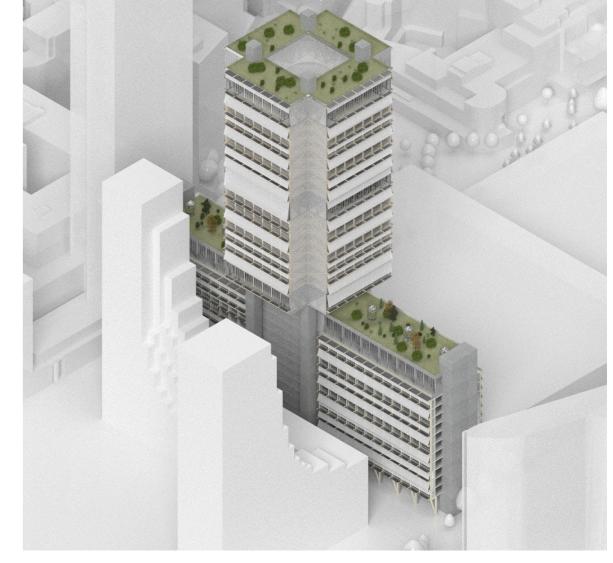
timber frame structure



glass glazing

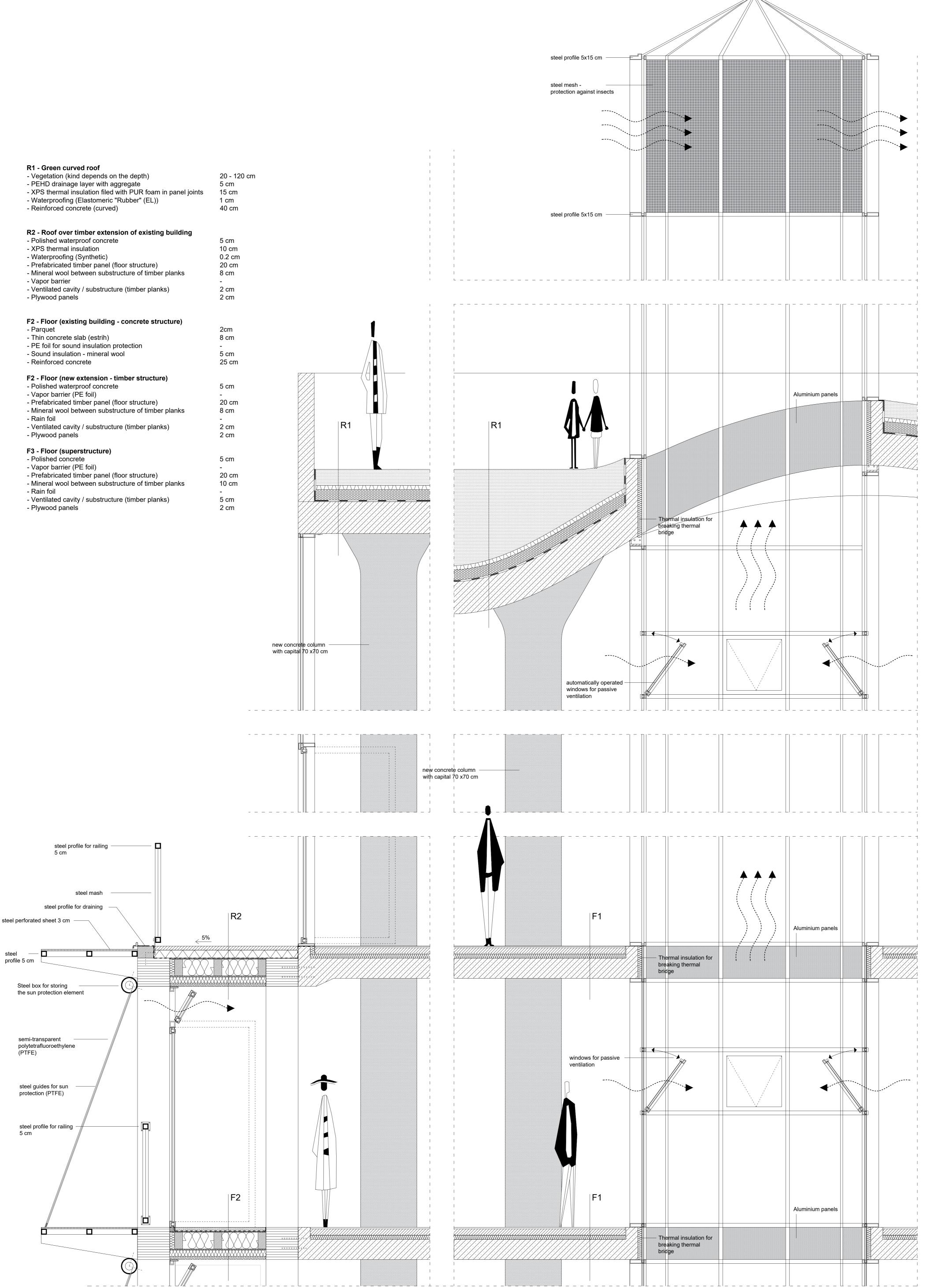






urban context

educational systems and mirrored spaces



<ul> <li>Vegetation (kind depends on the depth)</li> </ul>	20 - 120 cm
- PEHD drainage layer with aggregate	5 cm
- XPS thermal insulation filed with PUR foam in panel joints	15 cm
- Waterproofing (Elastomeric "Rubber" (EL))	1 cm
- Reinforced concrete (curved)	40 cm

<ul> <li>Polished waterproof concrete</li> </ul>	5 cn
- XPS thermal insulation	10 c
- Waterproofing (Synthetic)	0.2
- Prefabricated timber panel (floor structure)	20 c
- Mineral wool between substructure of timber planks	8 cn
- Vapor barrier	-
<ul> <li>Ventilated cavity / substructure (timber planks)</li> </ul>	2 cr
- Plywood panels	2 cr

- Parquet	2cm
- Thin concrete slab (estrih)	8 cm
<ul> <li>PE foil for sound insulation protection</li> </ul>	-
- Sound insulation - mineral wool	5 cm
- Reinforced concrete	25 cm

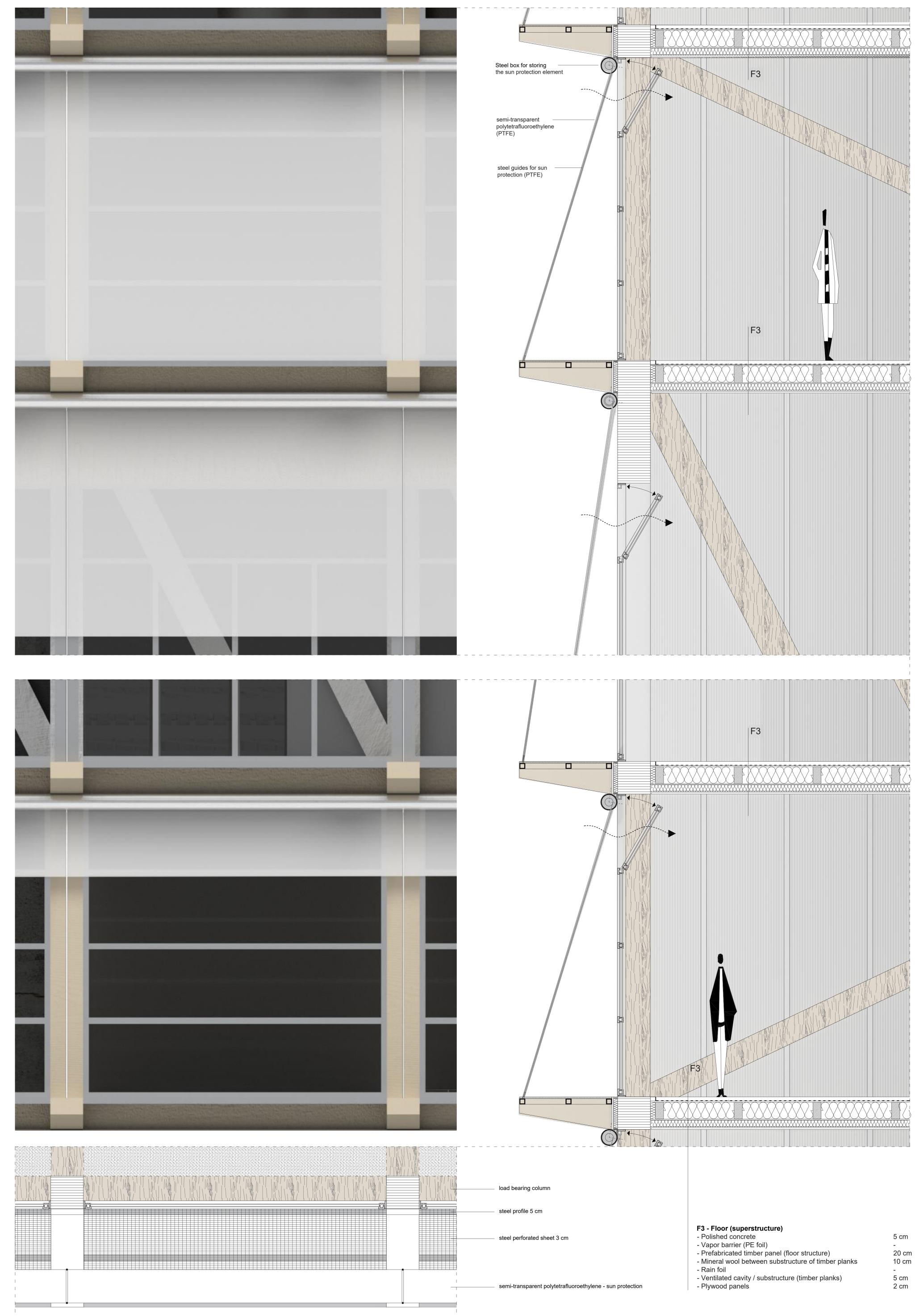
- Polished waterproof concrete
- Vapor barrier (PE foil)
- Prefabricated timber panel (floor structure)
- Mineral wool between substructure of timber planks
- Rain foil
<ul> <li>Ventilated cavity / substructure (timber planks)</li> </ul>
- Plywood panels

- Polished concrete	5 cm
- Vapor barrier (PE foil)	-
- Prefabricated timber panel (floor structure)	20 cm
- Mineral wool between substructure of timber planks	10 cm
- Rain foil	-
- Ventilated cavity / substructure (timber planks)	5 cm
- Plywood panels	2 cm





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**AR3AP100** 

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