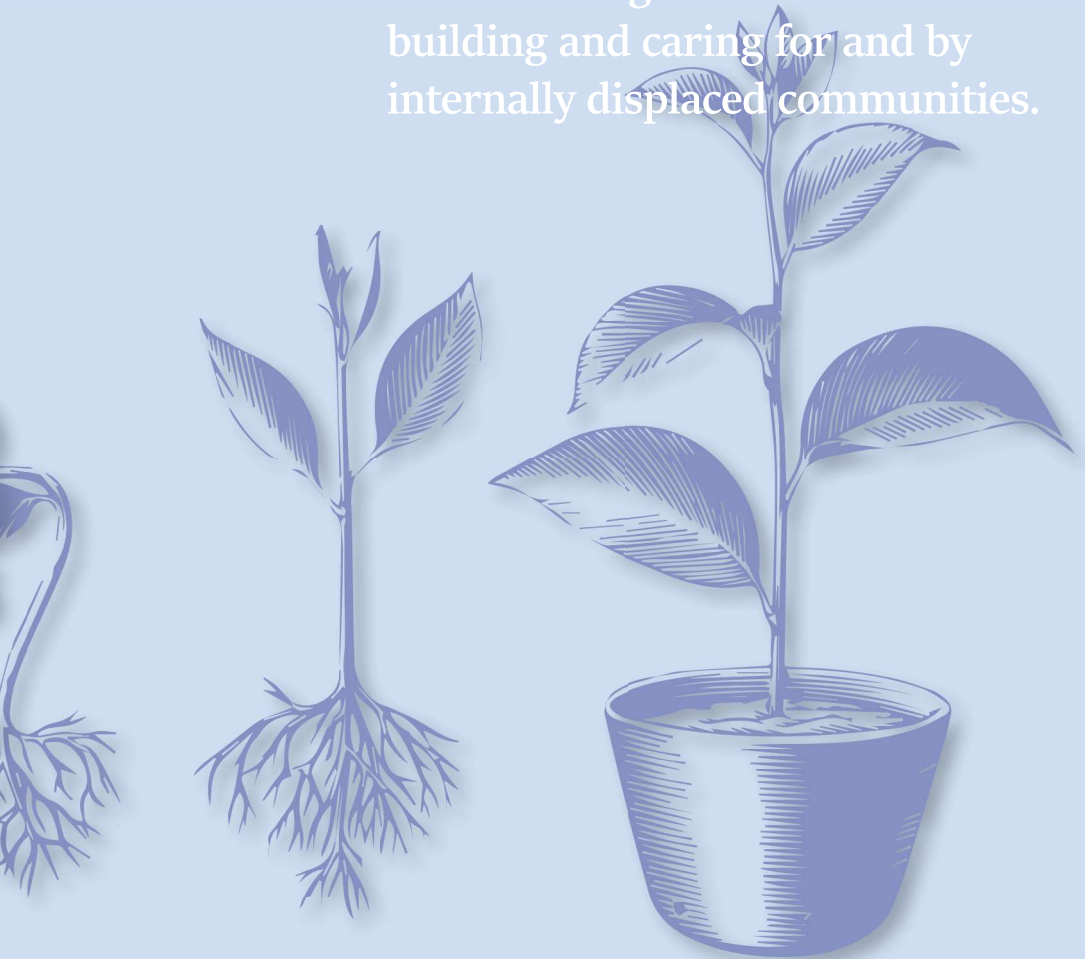


The HARVEST

A handbook guide manual to
building and caring for and by
internally displaced communities.



Map 1: Estimated de facto IDPs presence by oblast of displacement¹



[lon 35.11941 lat 47.83766 [nom. scale = 1 / 5000]

Transport Map - Zaporizhzhia City Centre - Ukraina Mall

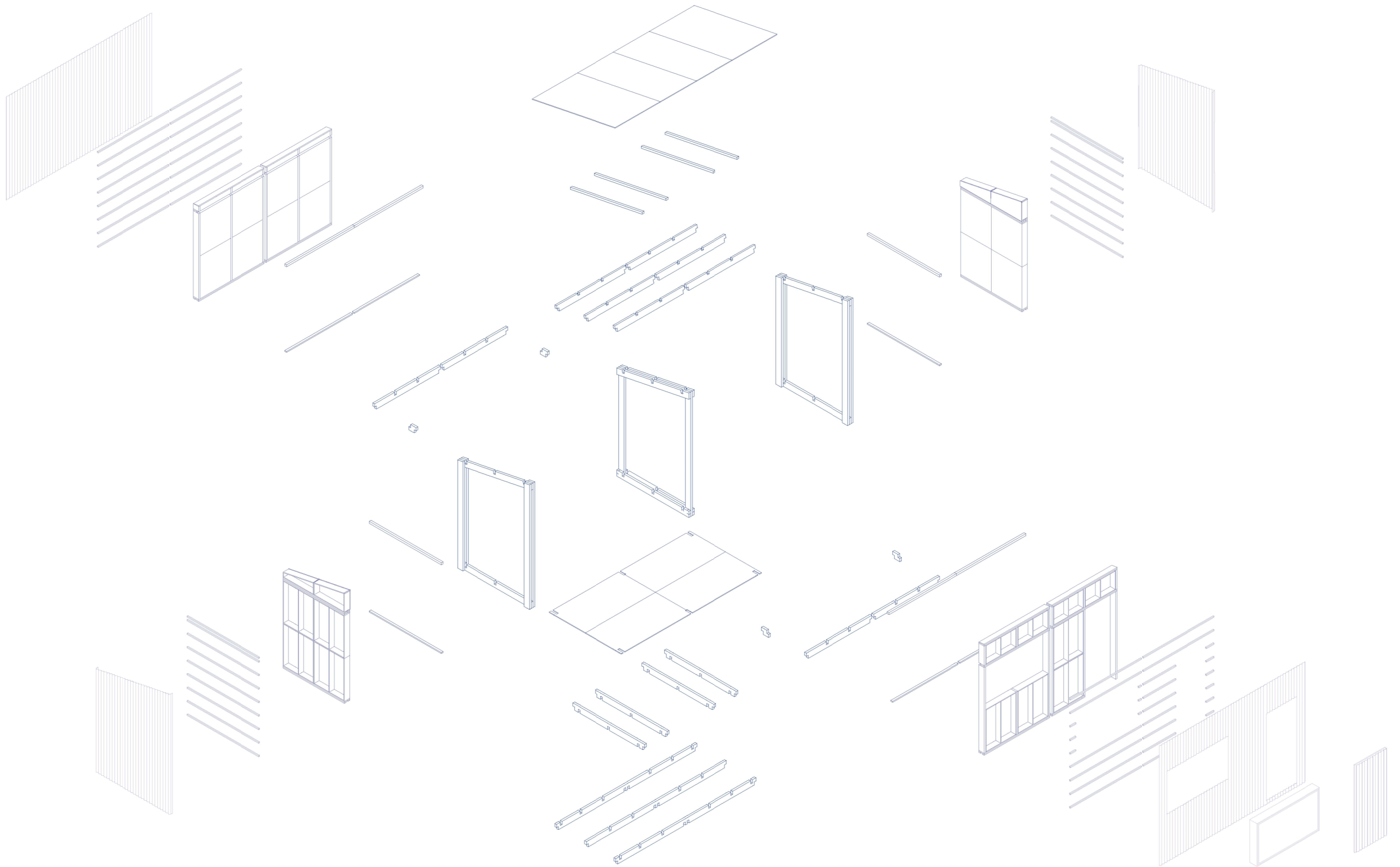


BUS & MicroBUS LINE

TRAM LINE







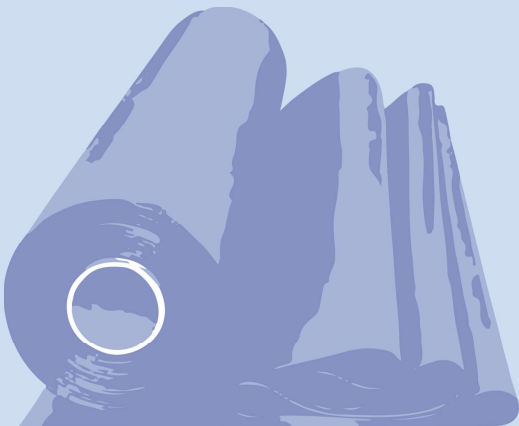
| Waterproofing

DEFINITION: thin layer (membran/sheet) of material that prevents water from getting into the building

importance: protection from leaks, mold and water damage, essential for outer walls and roofs or where water/moisture exposure is high

identify: impermeable and durable material, flexible to accommodate building movements, easy application

examples: rubber membrane, EPDM sheet, truck tarp, tent fabric



EPDM Roll

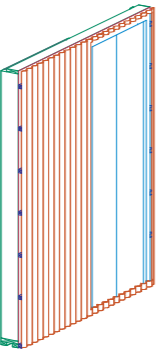
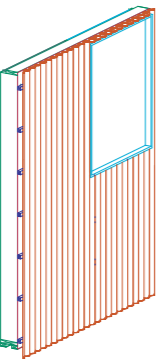
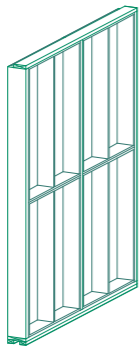
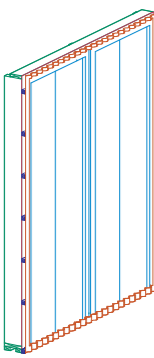
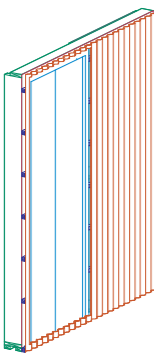
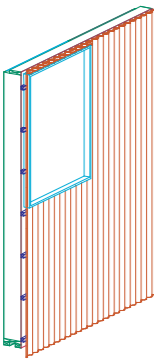
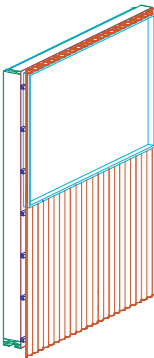
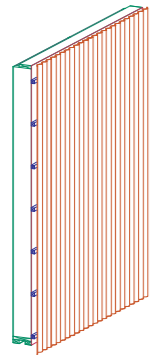


Tent Fabric

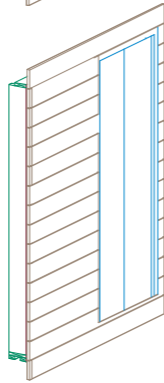
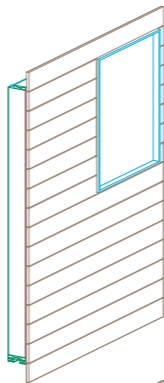
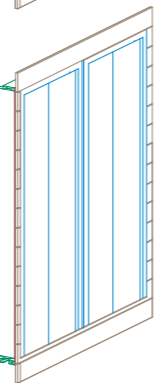
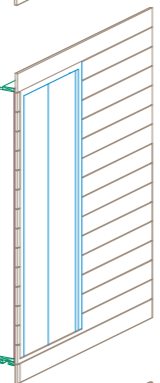
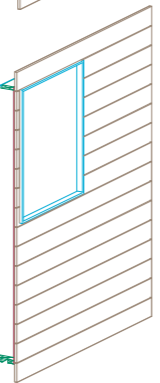
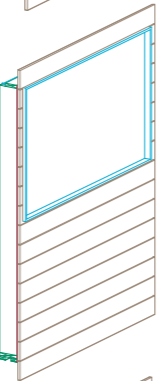
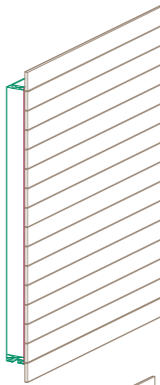


Truck Tarp

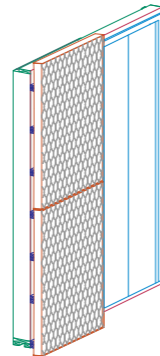
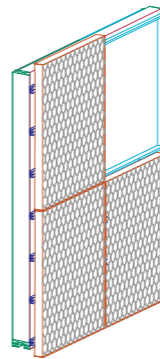
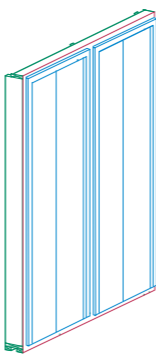
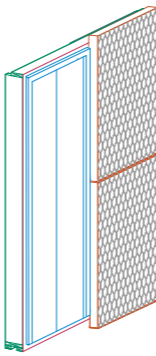
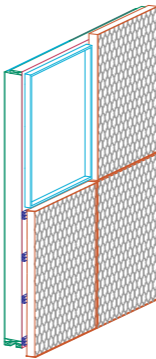
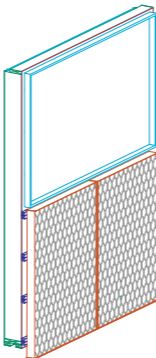
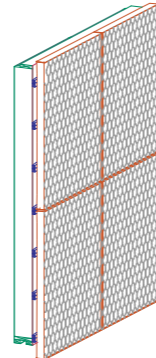
Steel Sheet Cladding



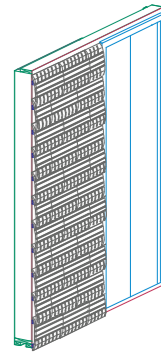
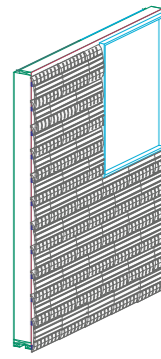
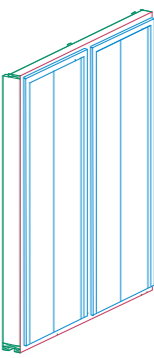
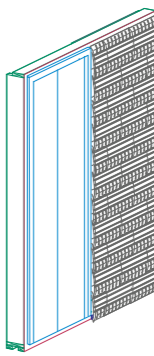
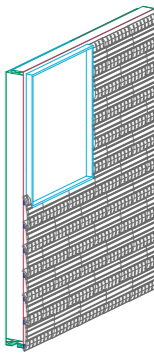
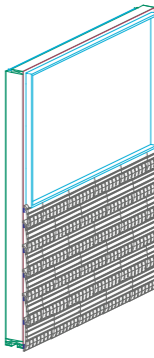
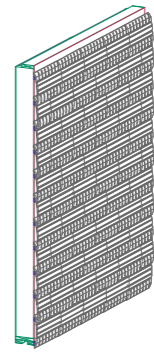
**(Reclaimed) Wood
Cladding - horizontal**

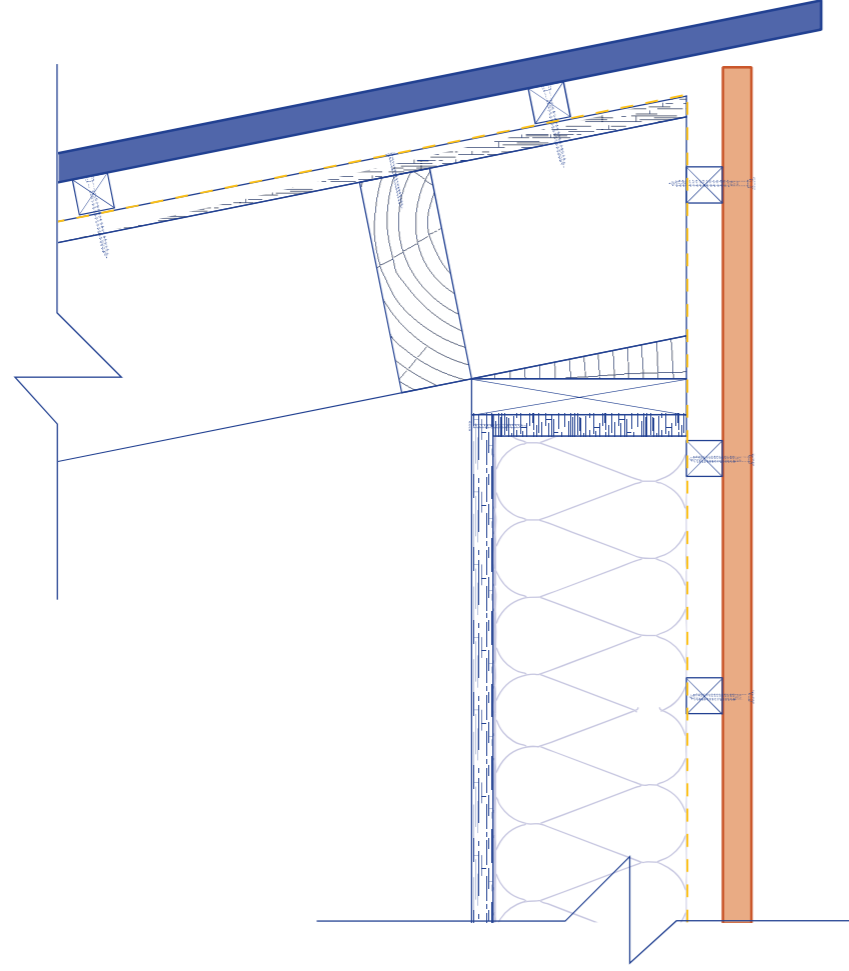


Rubble Gabion Cladding

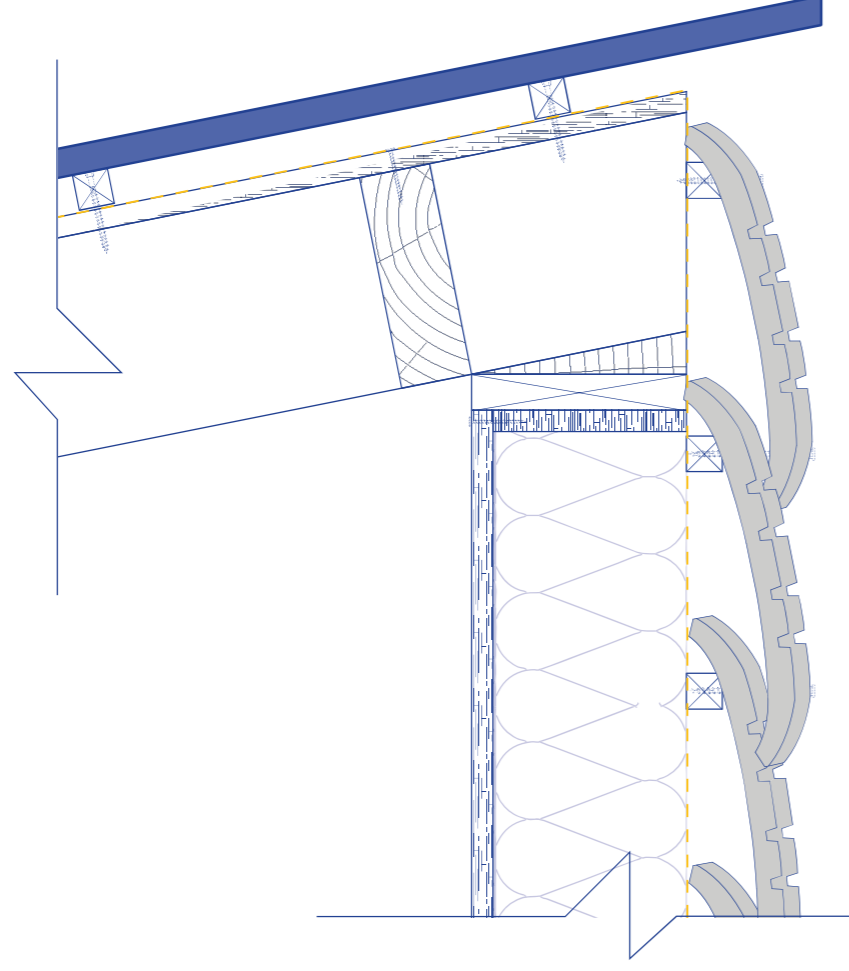


Rubber Tire Cladding

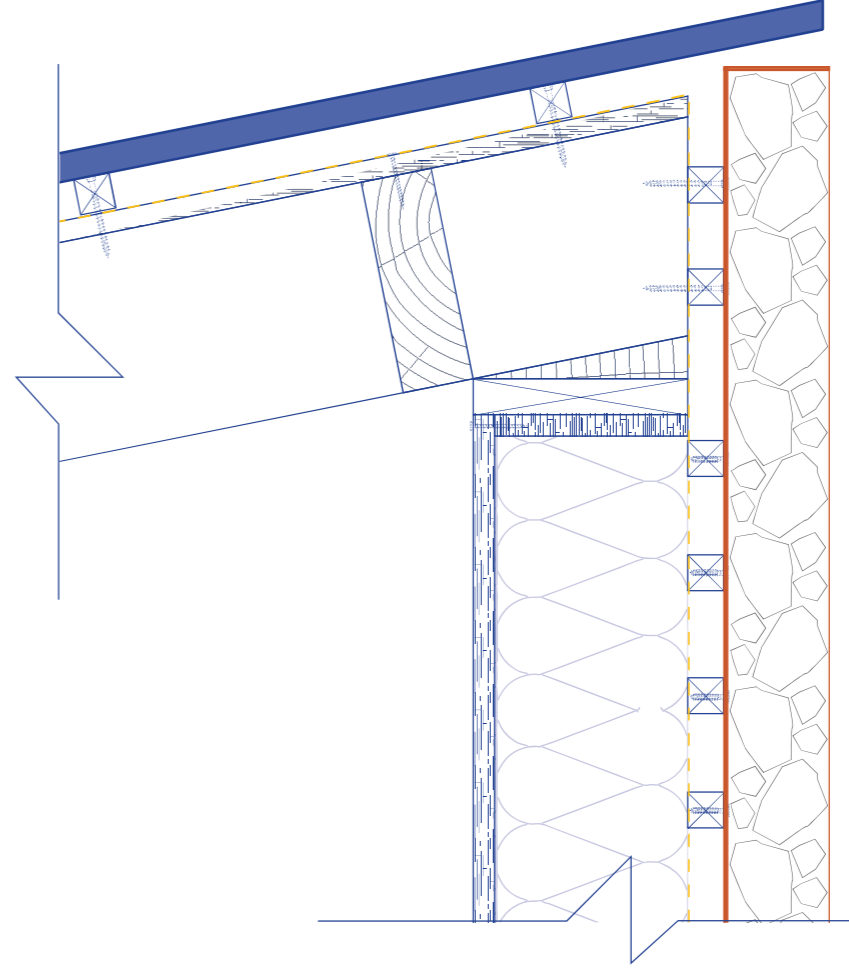




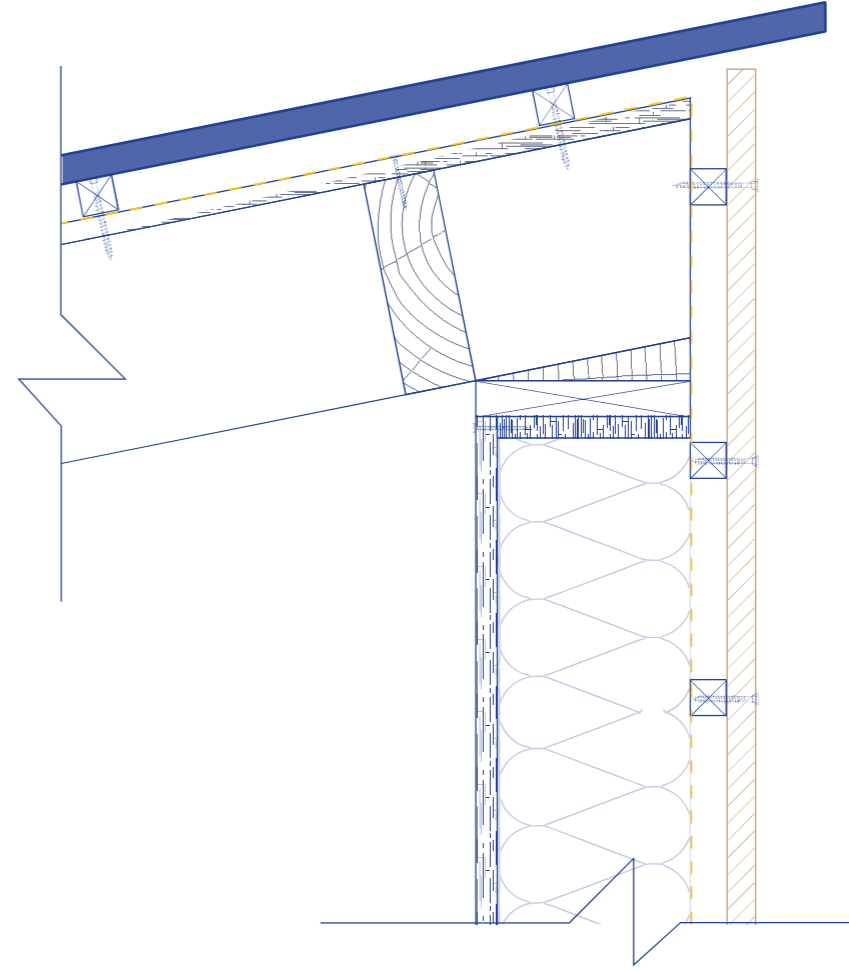
Recycled Metal Sheet Cladding



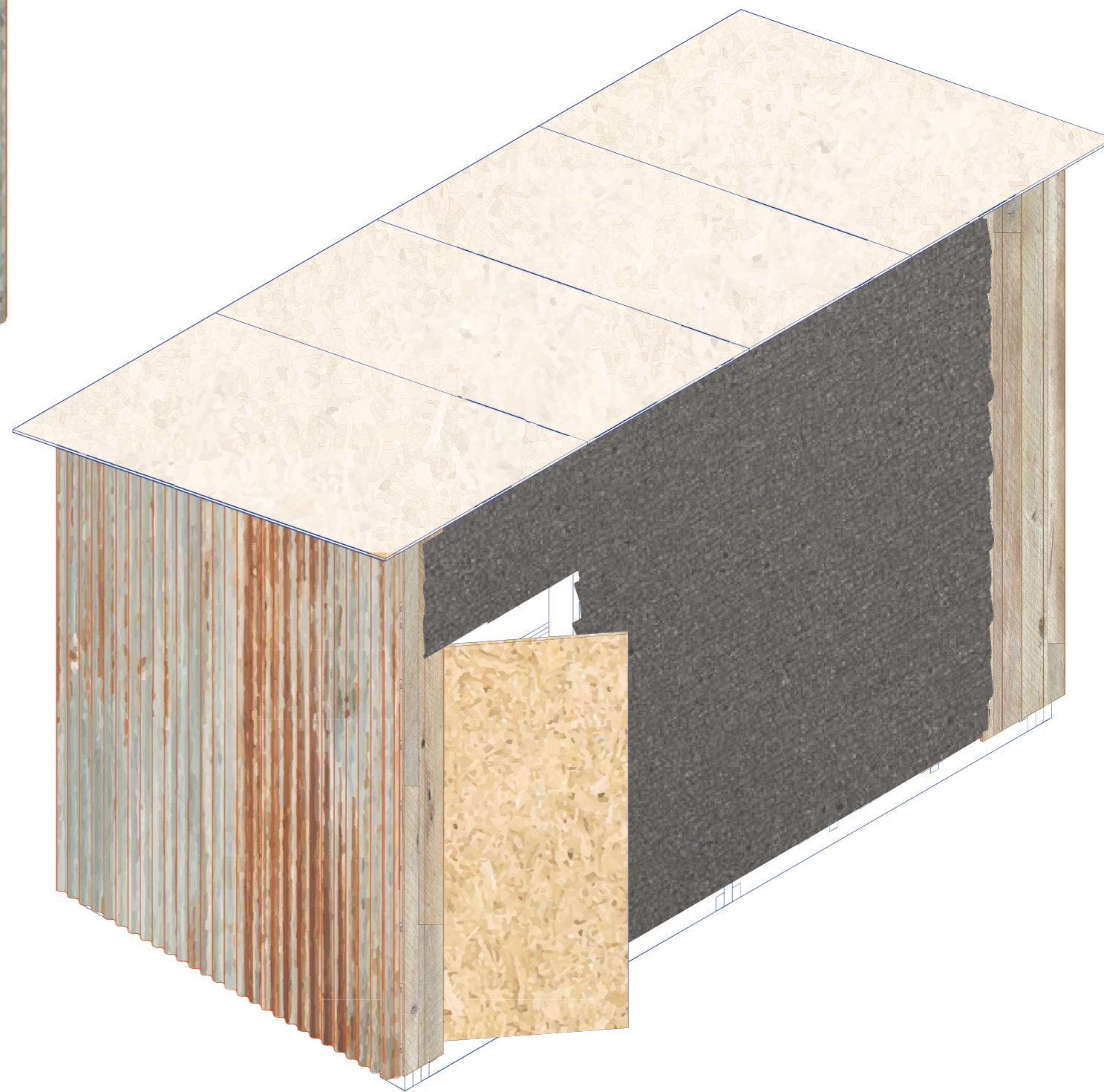
Car Wheel Rubber Tire Cladding

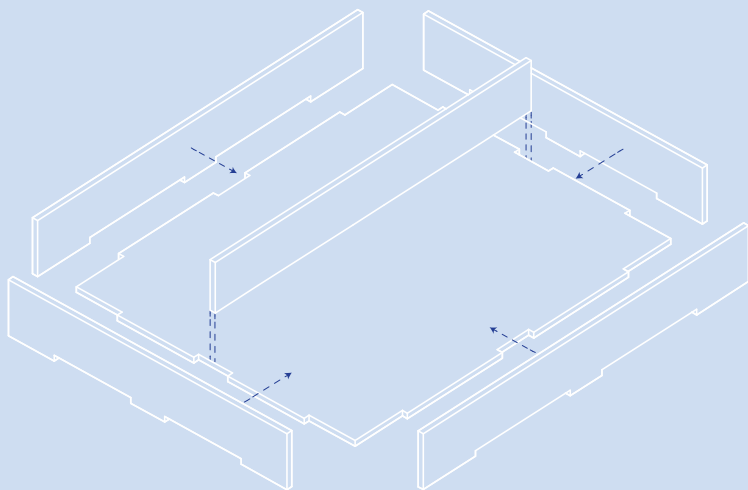


Debris Stones Gabion Cladding

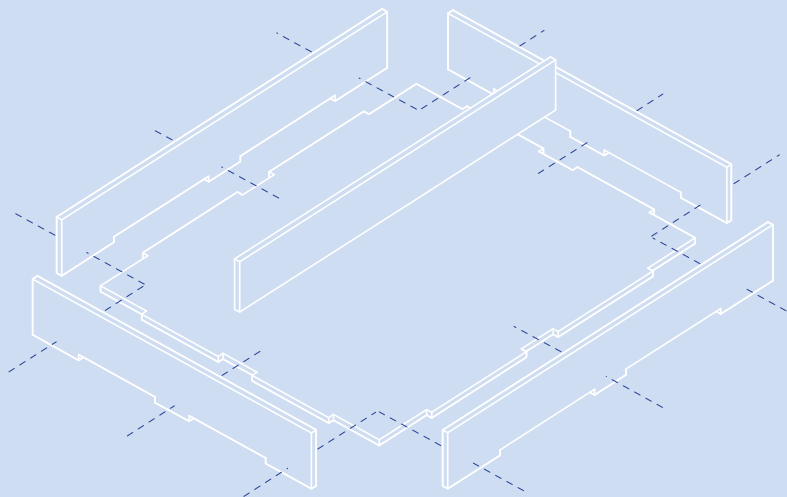


Reclaimed (vertical) Wood Cladding



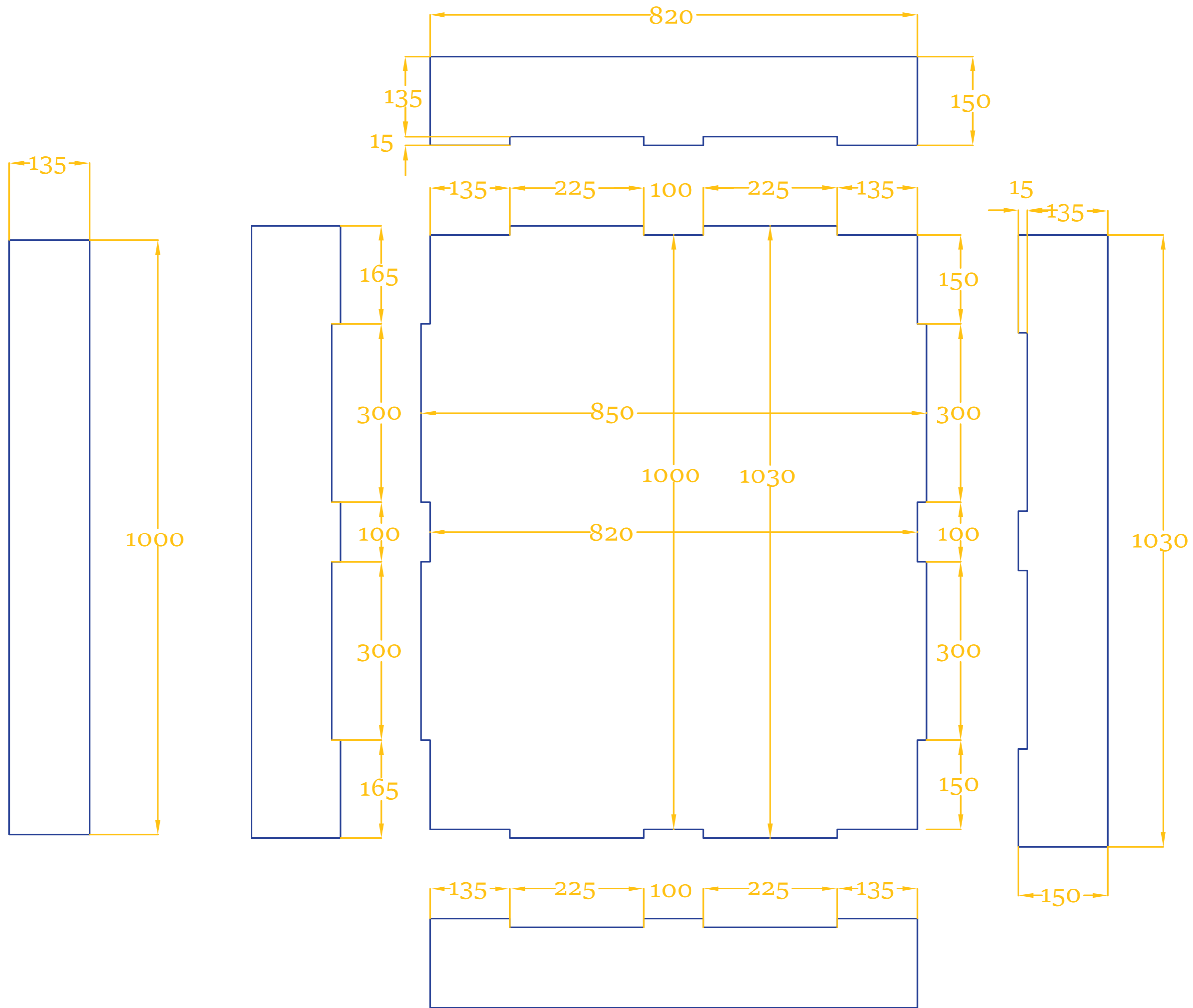


Connect Pieces

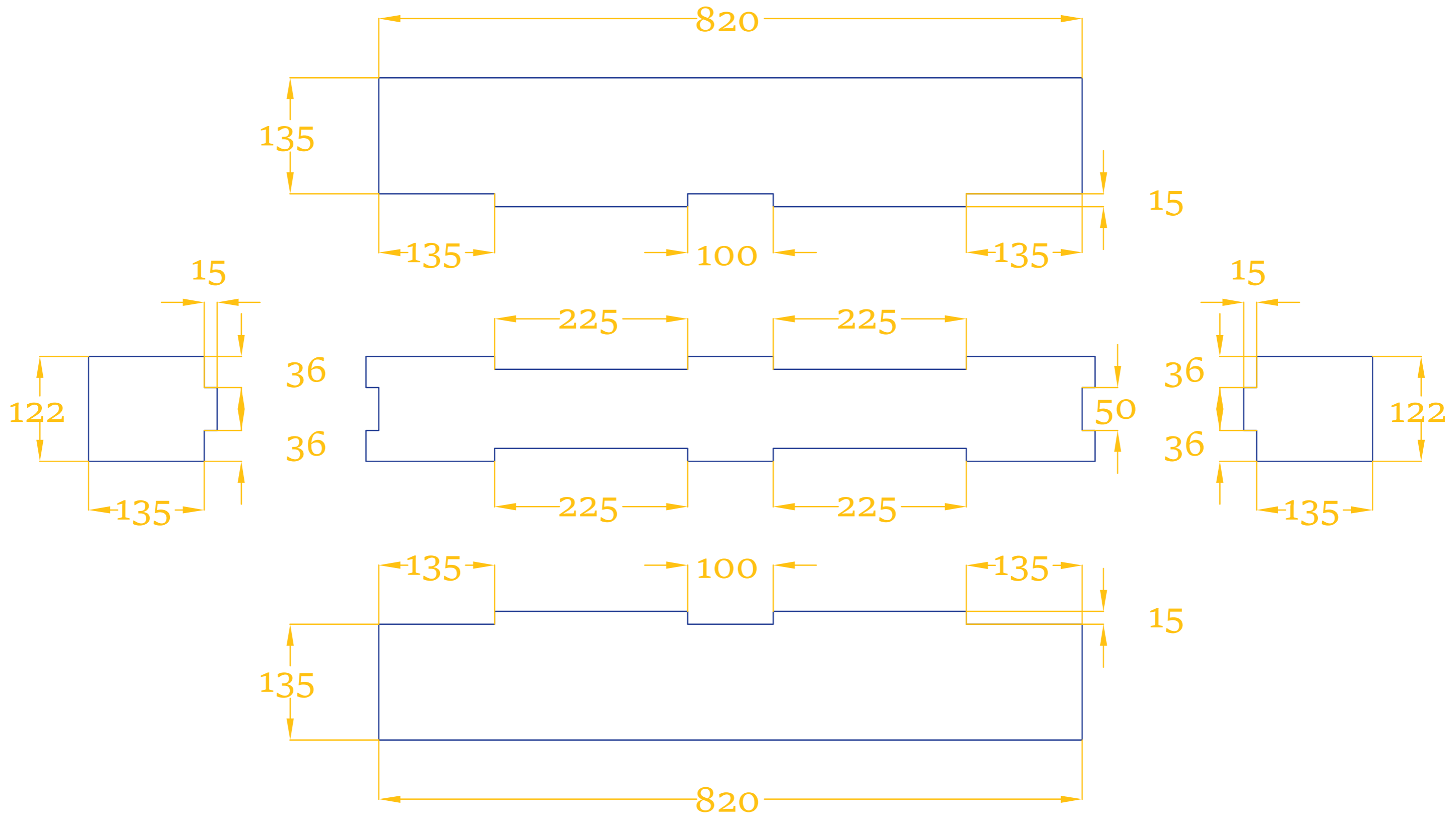


Screw/Nail Points

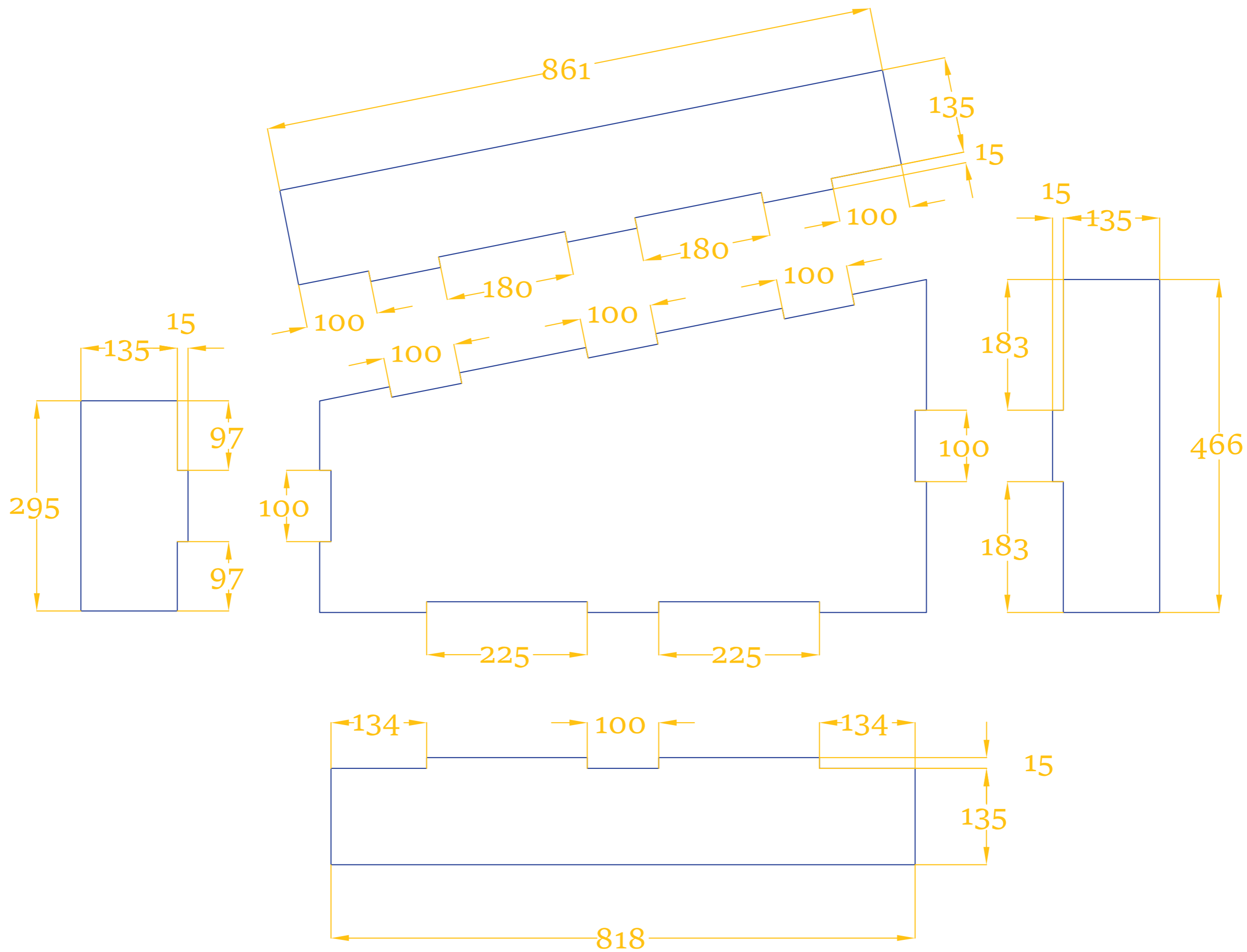
Large Rectangular Box - Dimensions - × 24 / Module Unit



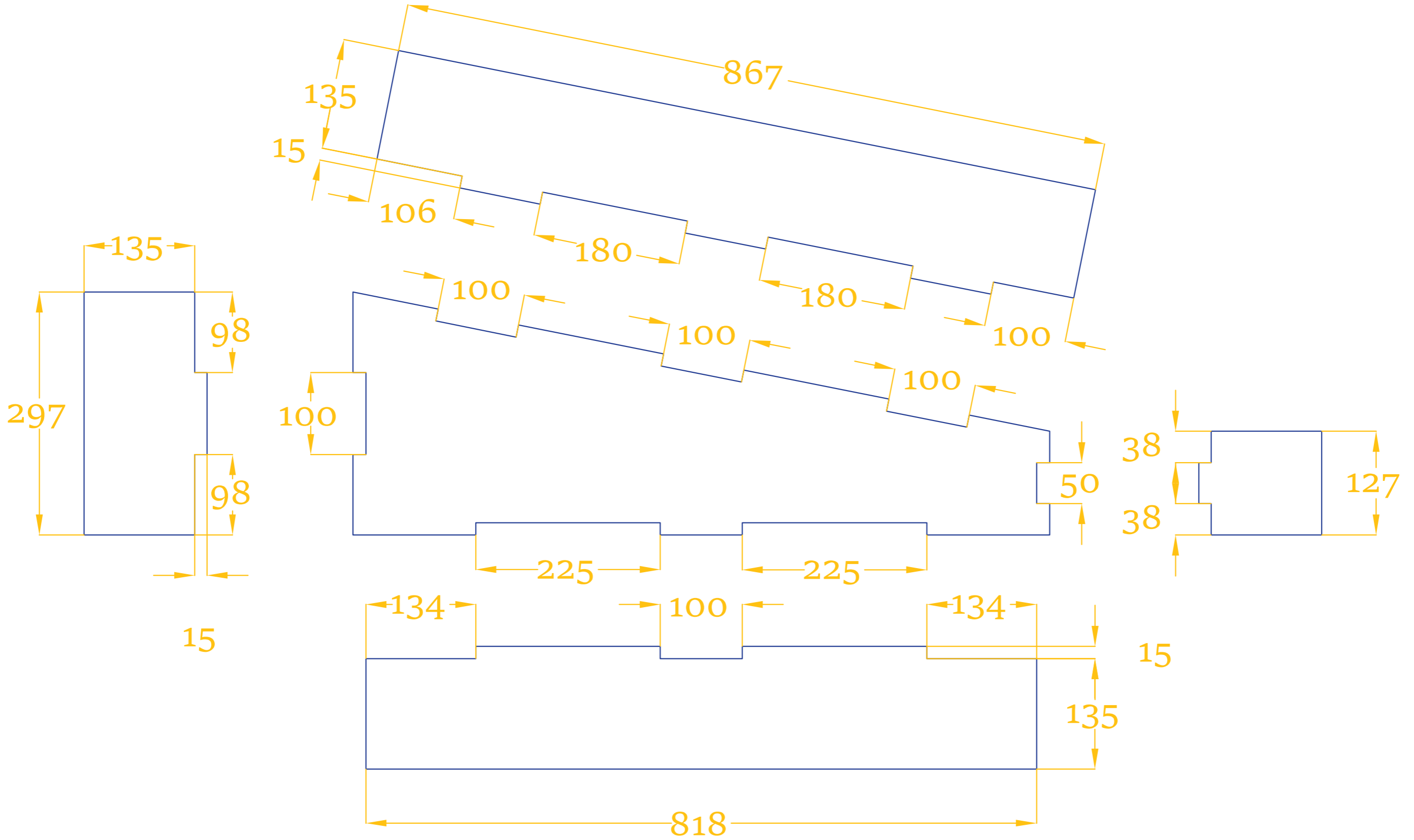
Small Rectangular Box - Dimensions - × 4 / Module Unit

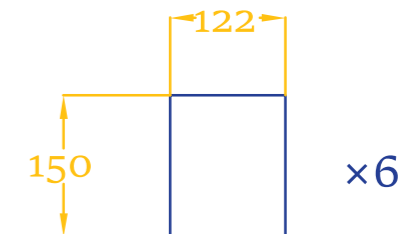
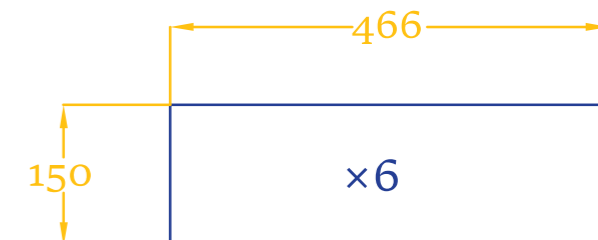
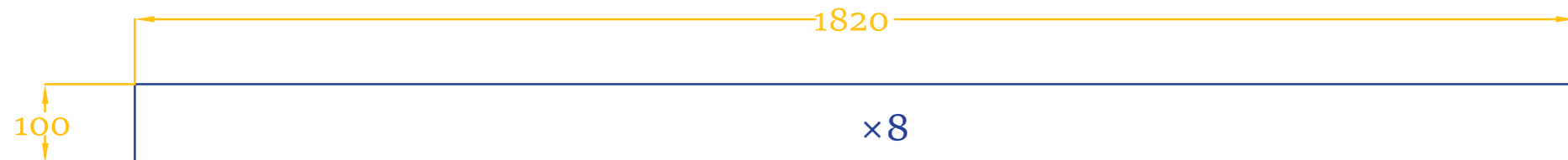
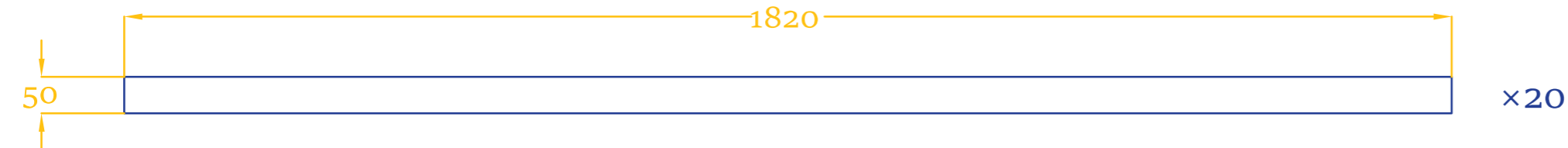
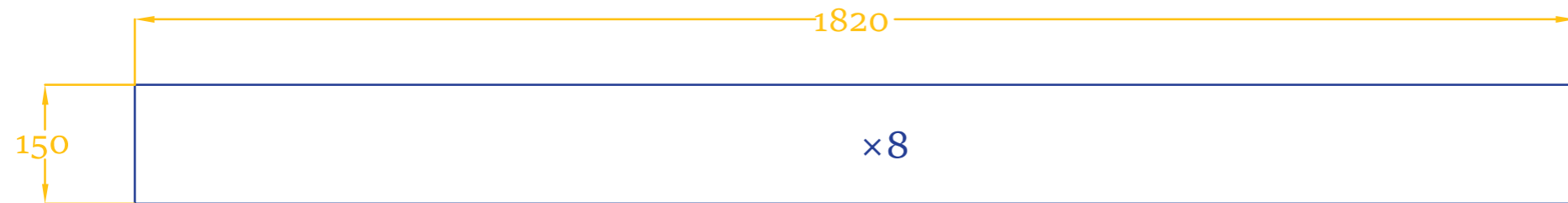
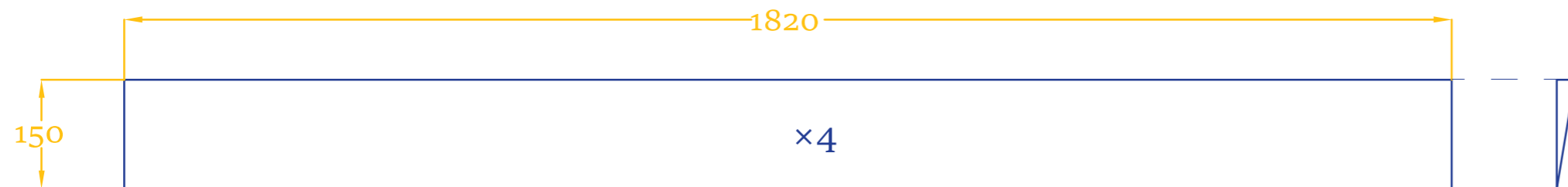
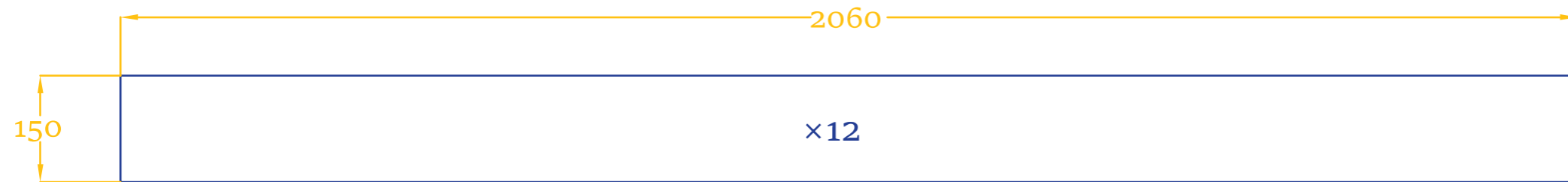


Large Triangular Box - Dimensions - $\times 2$ / Module Unit

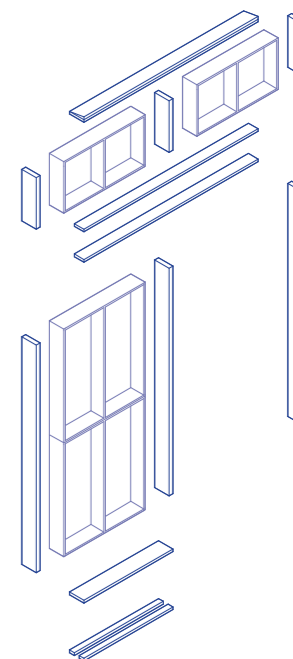
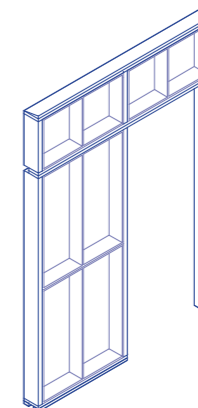
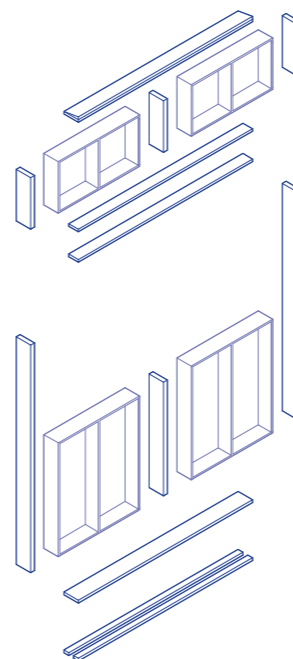
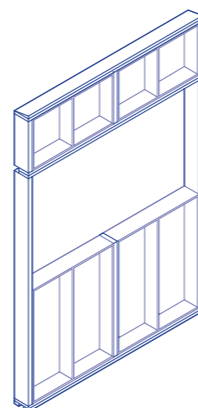
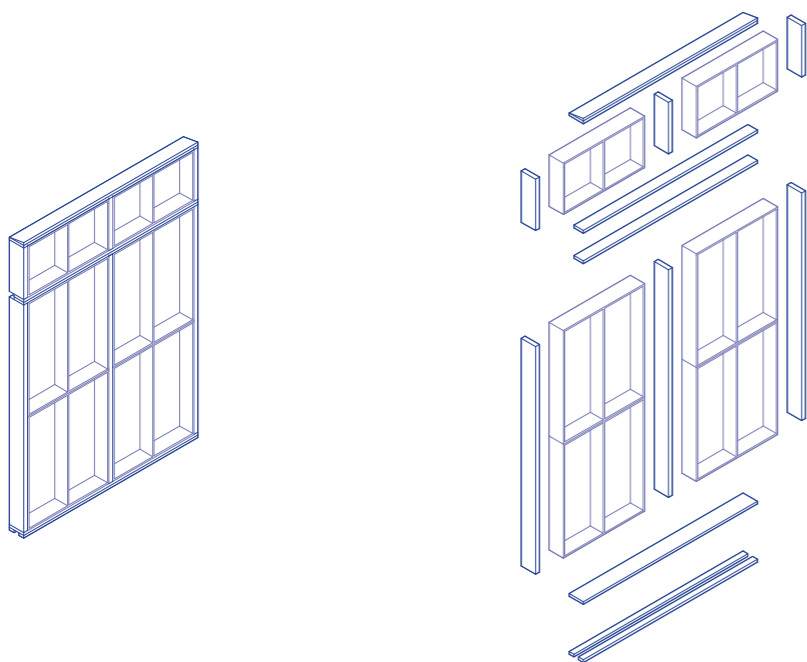
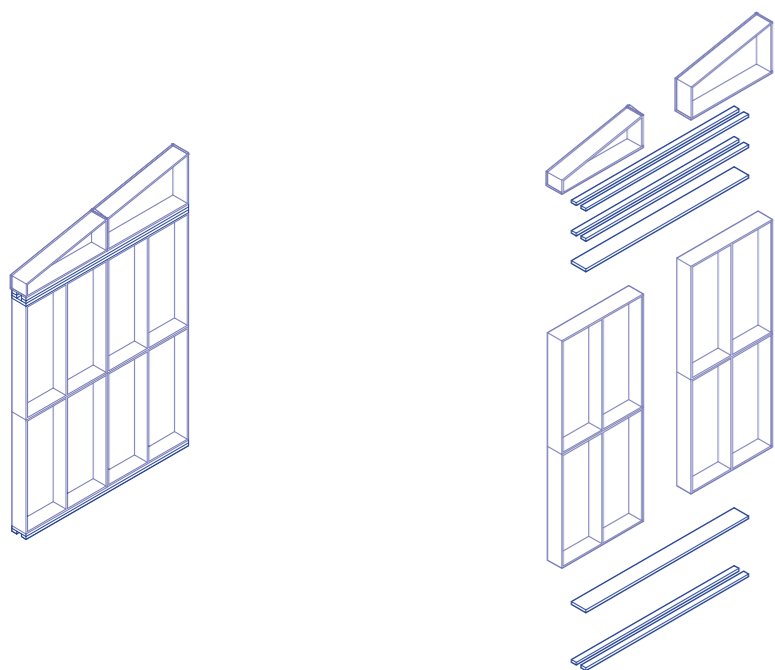
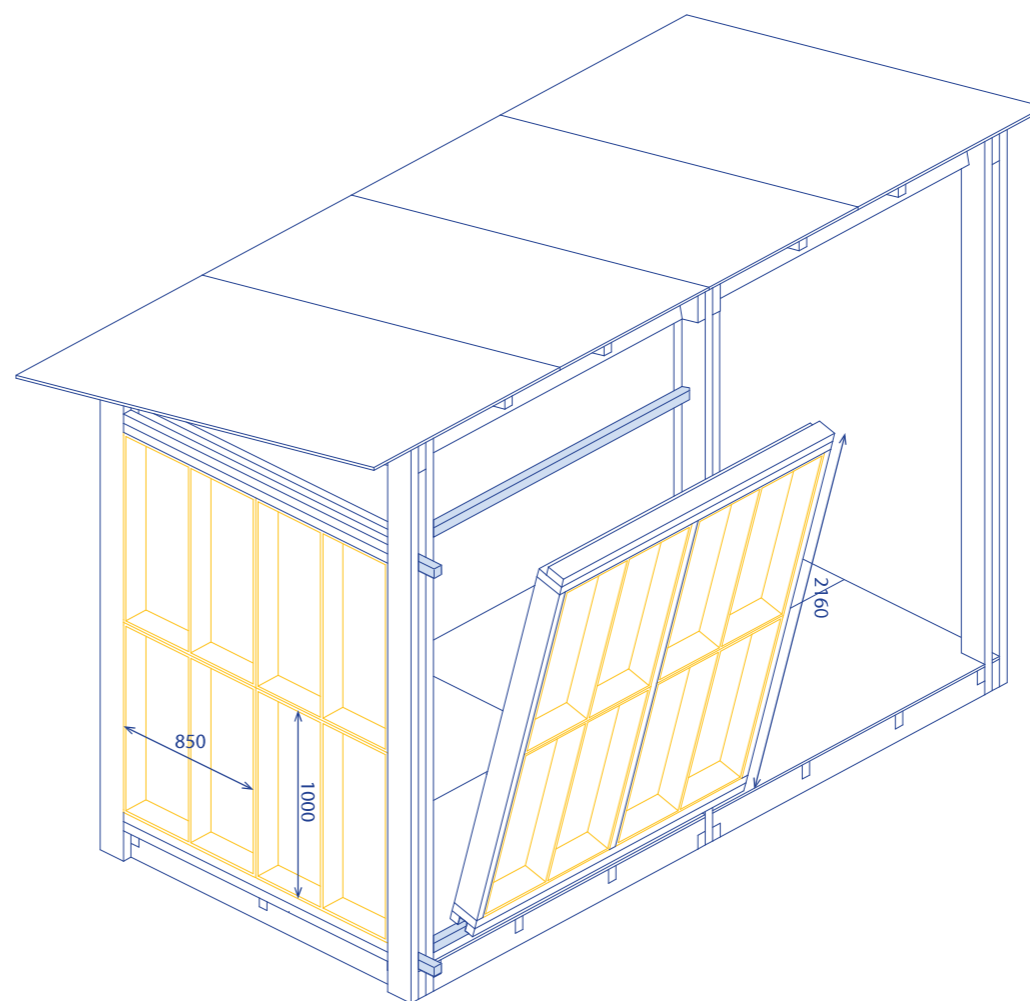
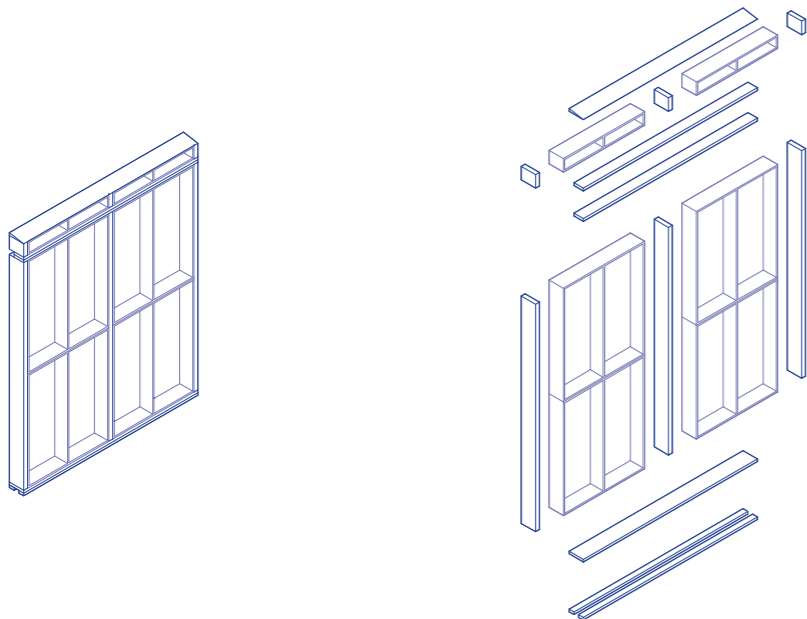


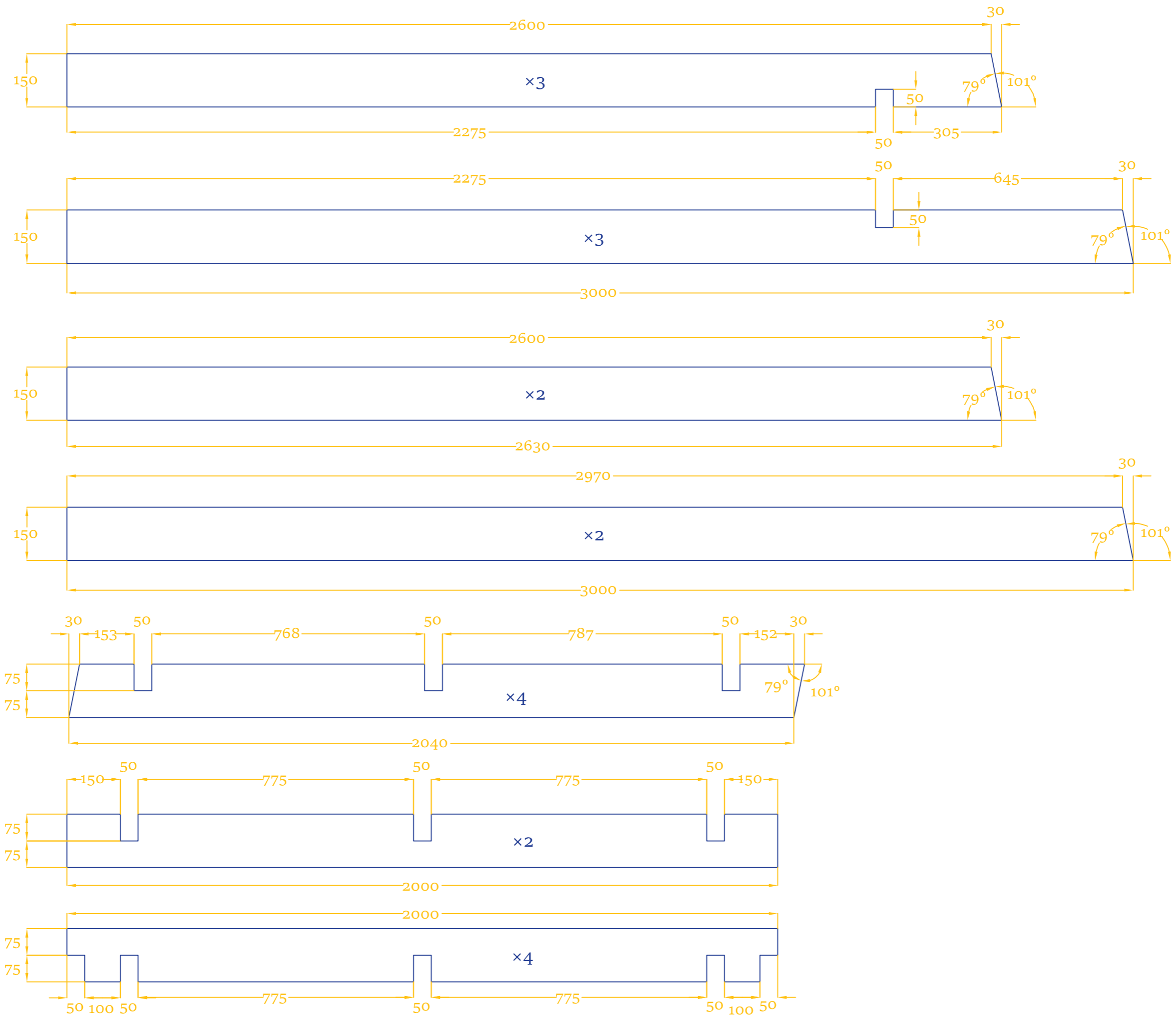
Small Triangular Box - Dimensions - $\times 2$ / Module Unit



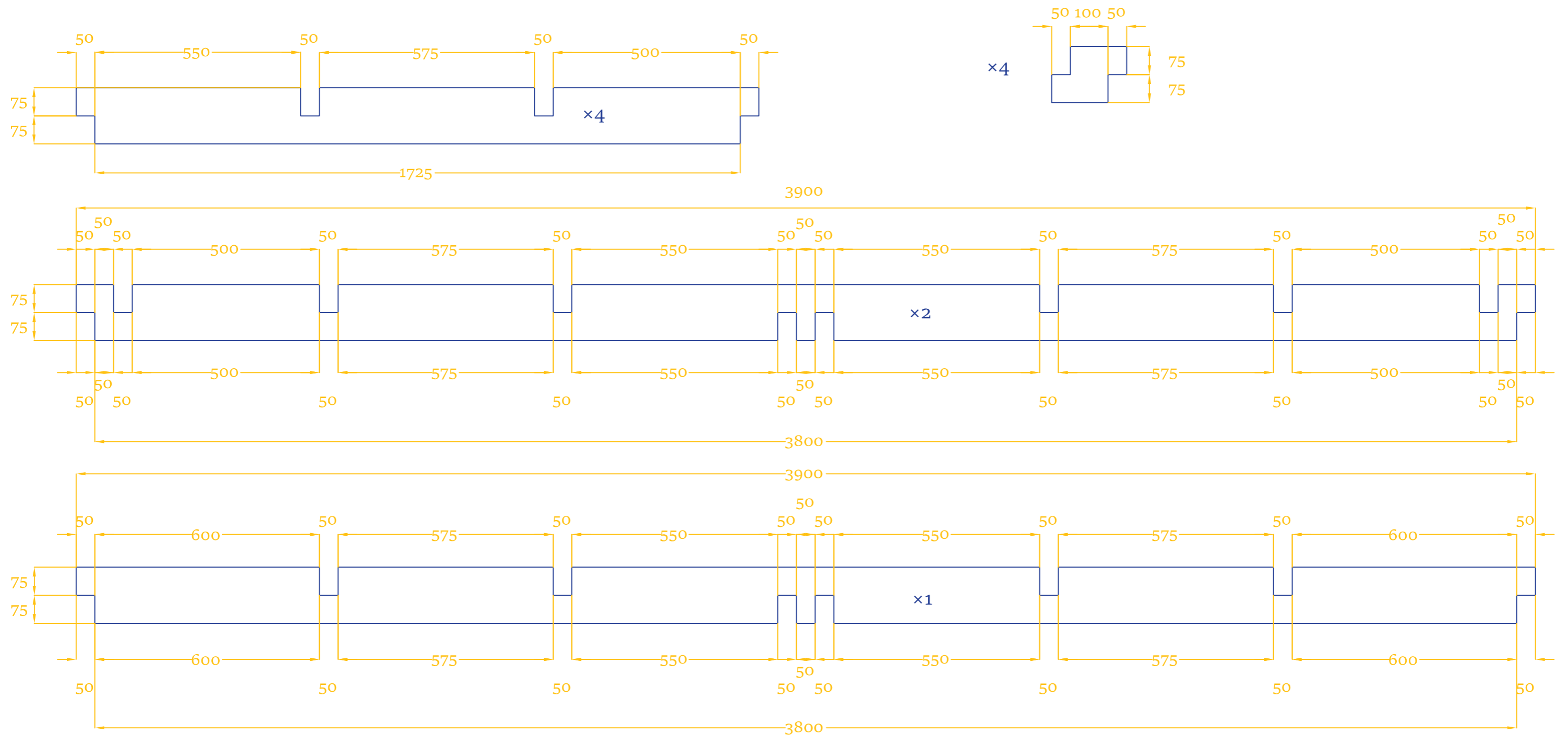


Wall Structure - Dimensions - per Module Unit

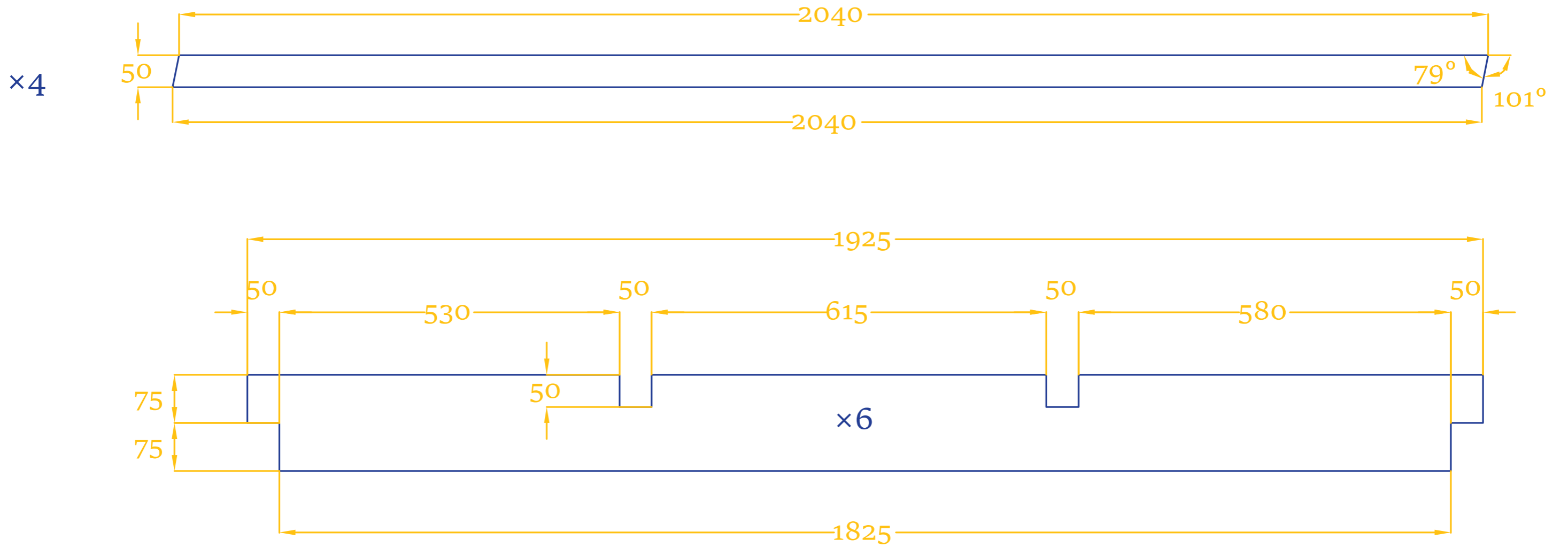




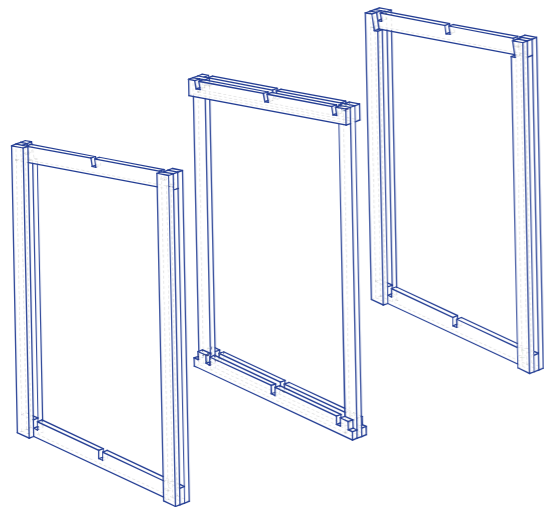
Portal Frame Structure - Dimensions - per Module Unit



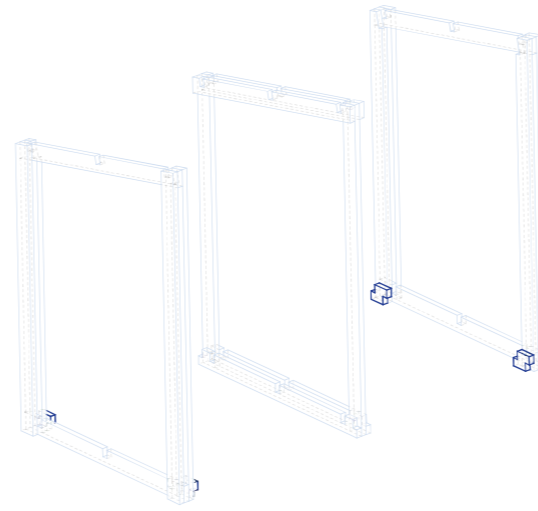
Floor Structure - Dimensions - per Module Unit



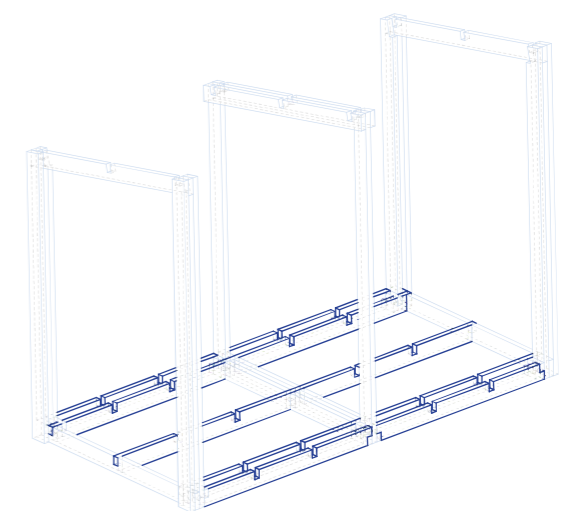
Roof Structure - Dimensions - per Module Unit



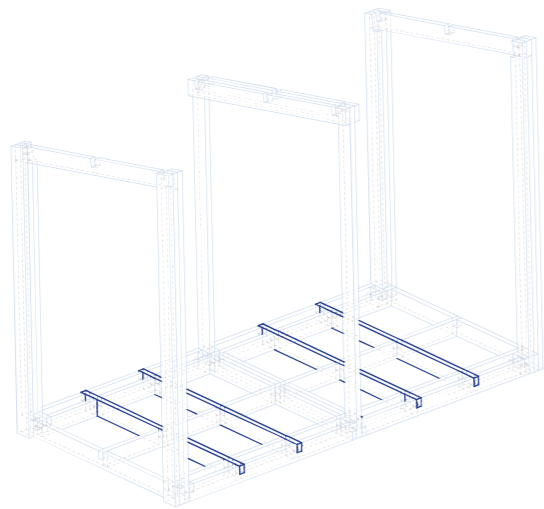
Step 1 - Portal Frames



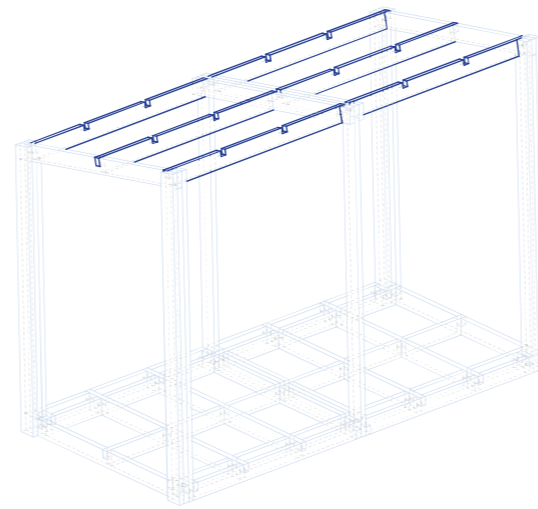
Step 2 - Inter-connectors



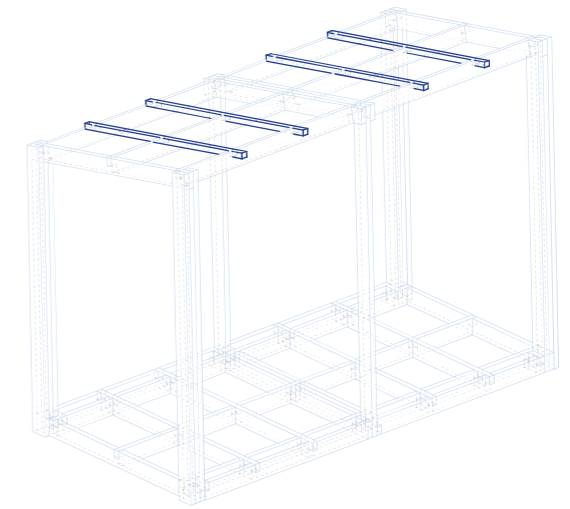
Step 3 - Floor Long Beams



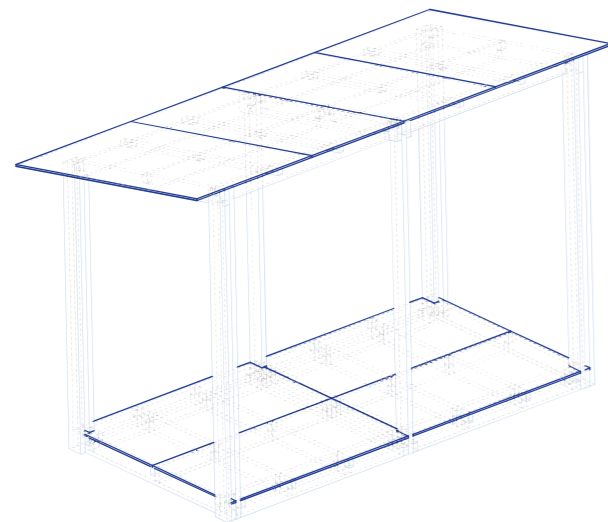
Step 4 - Floor Cross-Beams



Step 5 - Roof Long Beams

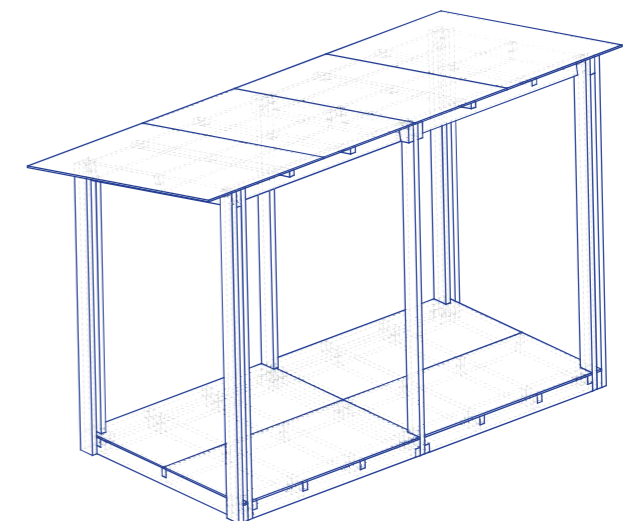


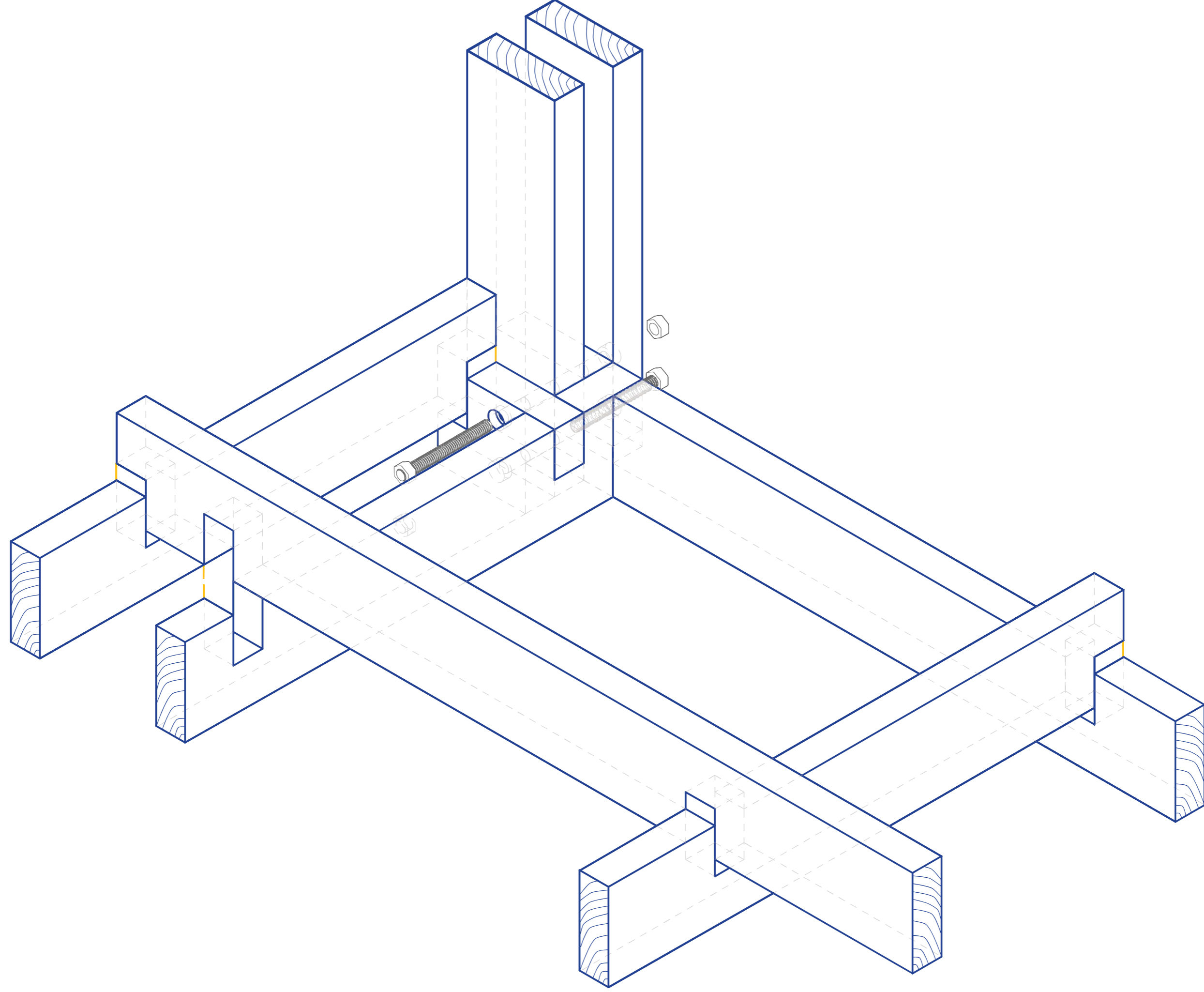
Step 6 - Roof Cross-Beams



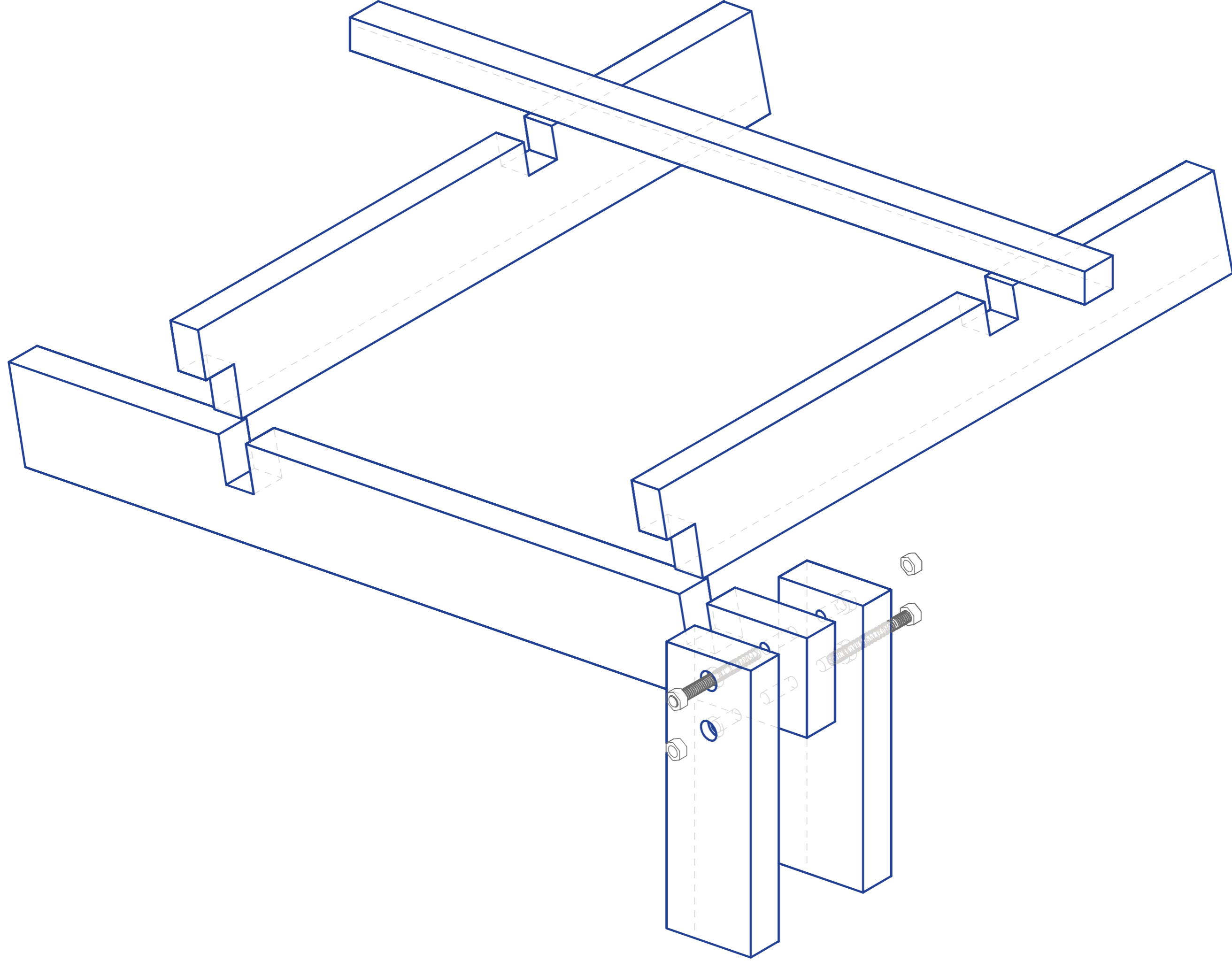
Step 7 - Floor & Roof Boards

***Module
Structure
Construction
Step-by-Step***

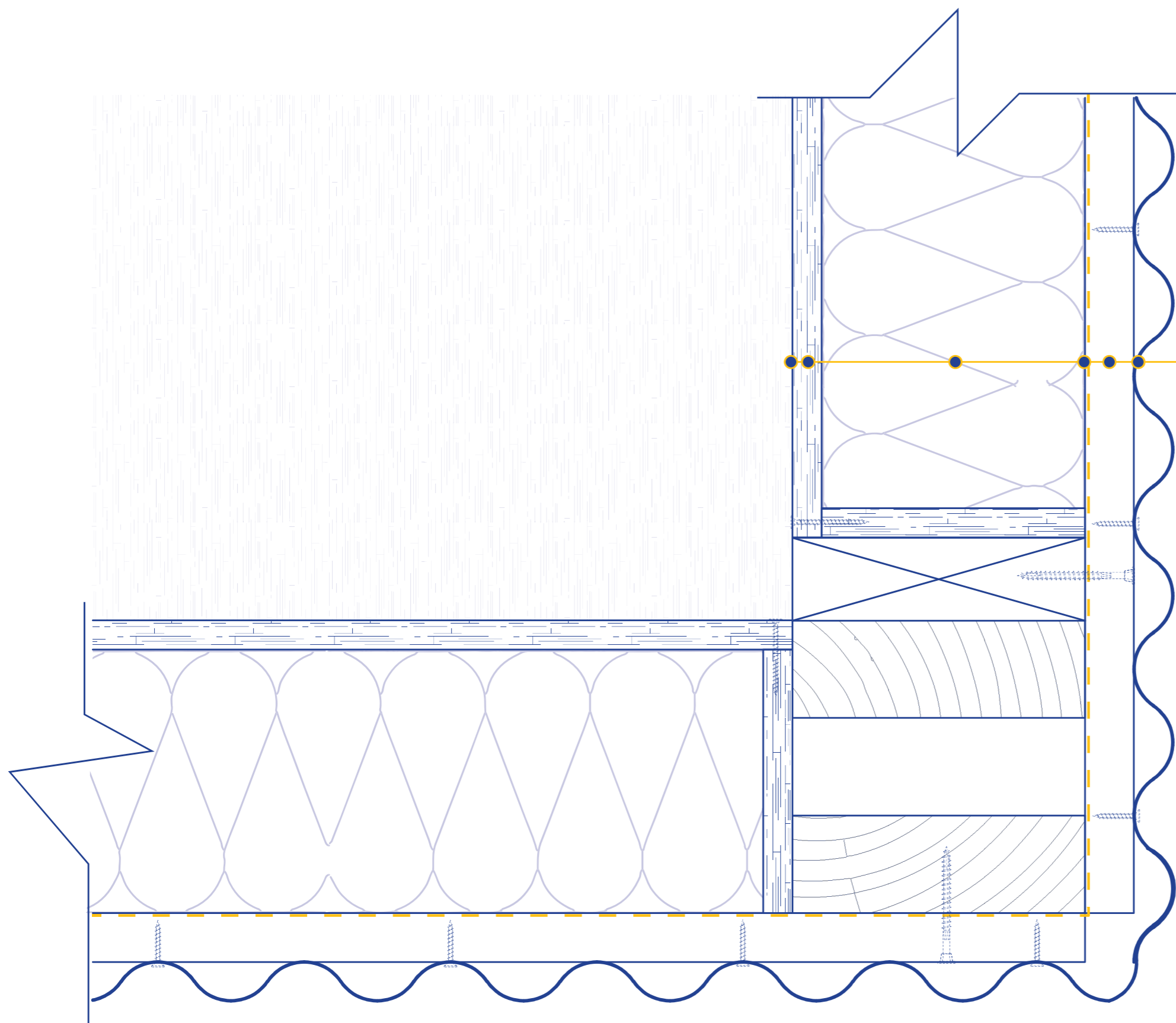




Floor - Bottom Corner - Structure Detail - Connection

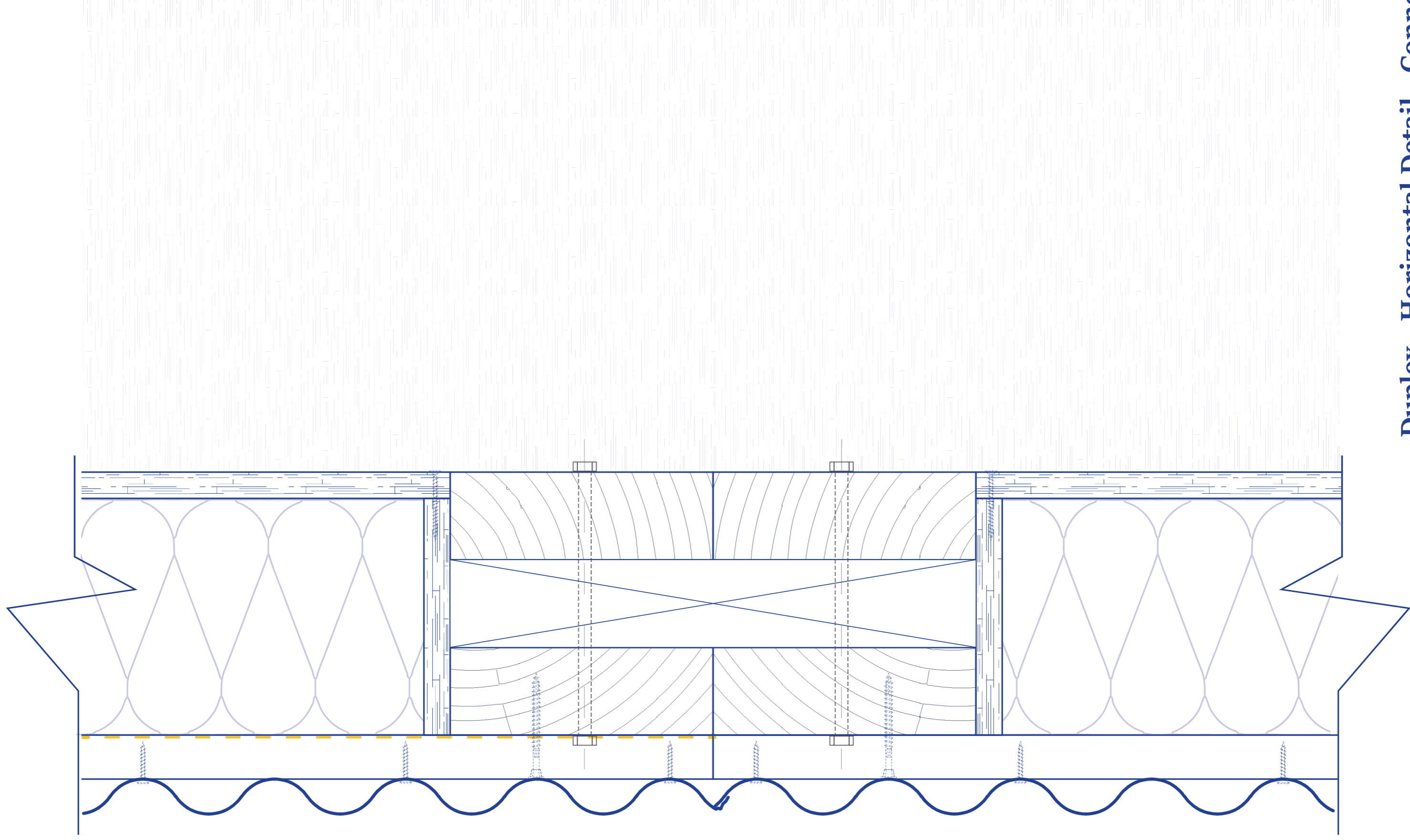


Roof - Top Corner - Structure Detail - Connection



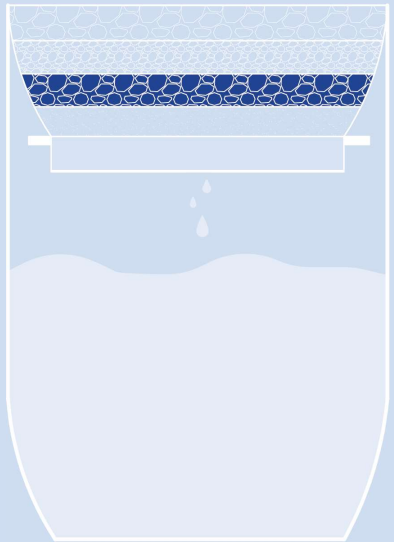
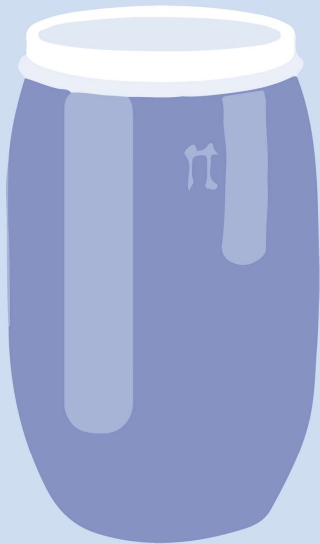
LEFT to RIGHT

- Inside Paint Finishing (Optional)
- OSB Wall Box (15mm)
- Insulation (135mm)
- Waterproof Membrane
- Exterior Horizontal Battens (25mm)
- Corrugated Metal Cladding (Recycled)



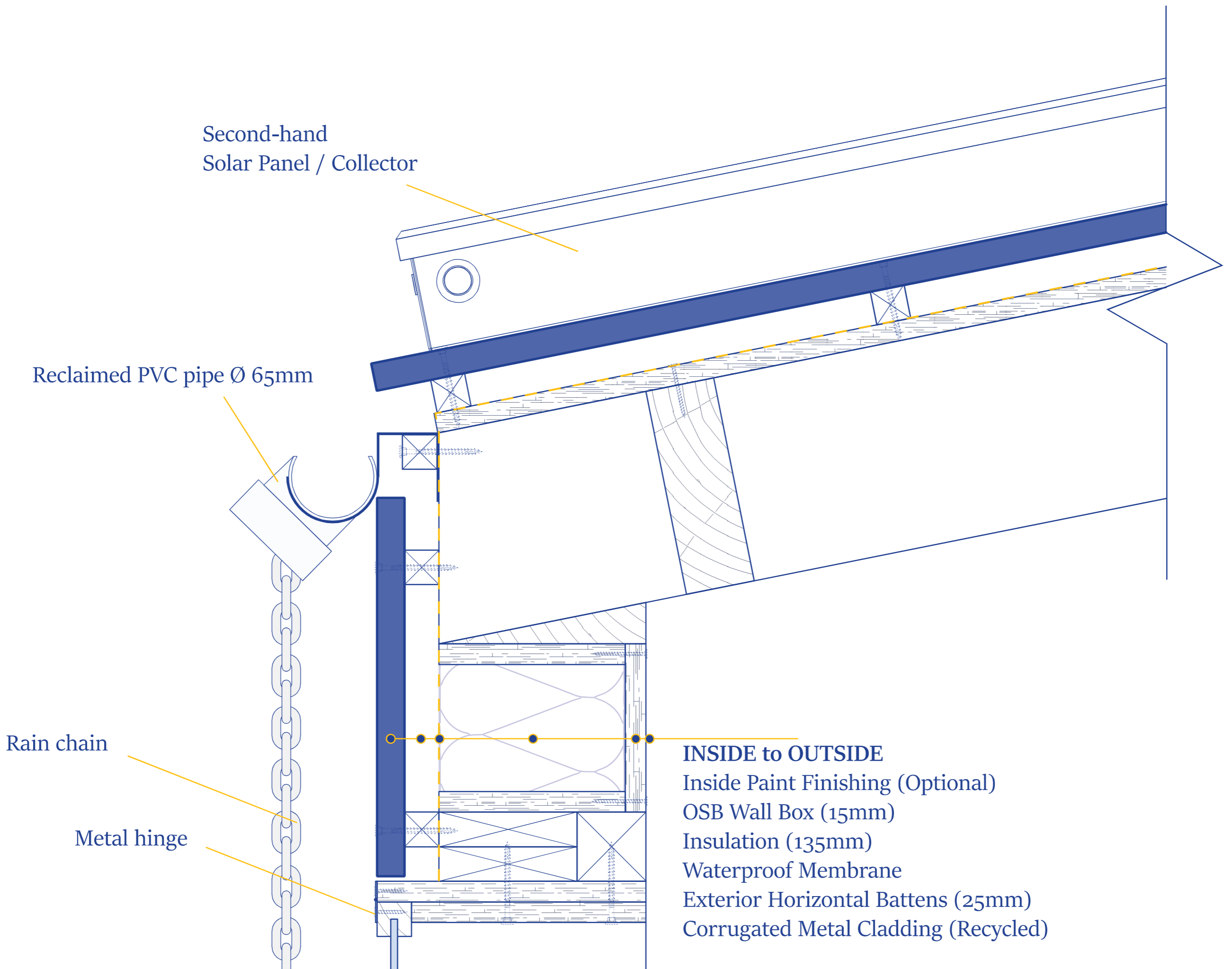
Duplex - Horizontal Detail - Connection

WATER FILTER:

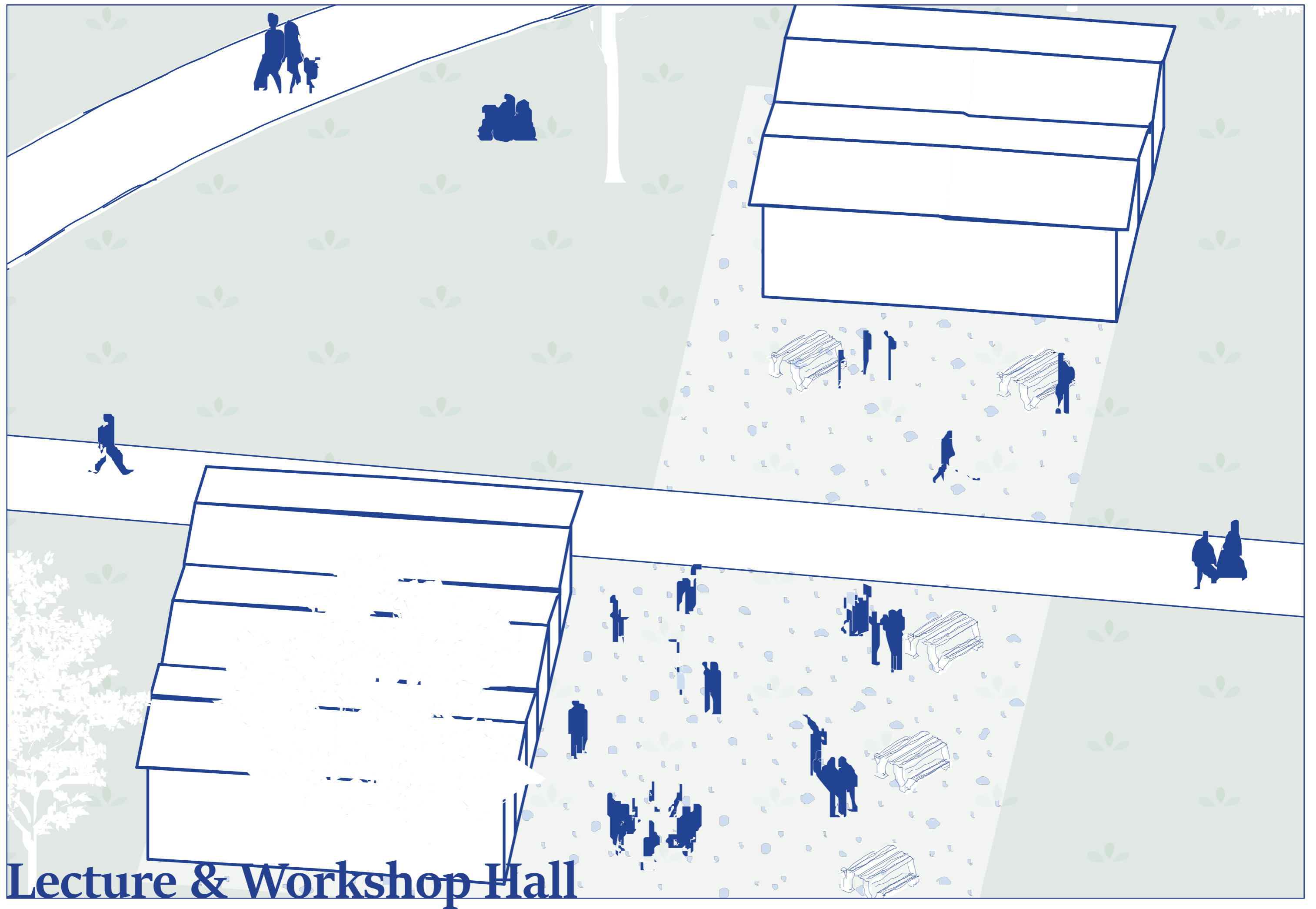


Plastic Barrel
(transformed into rain water filter*)

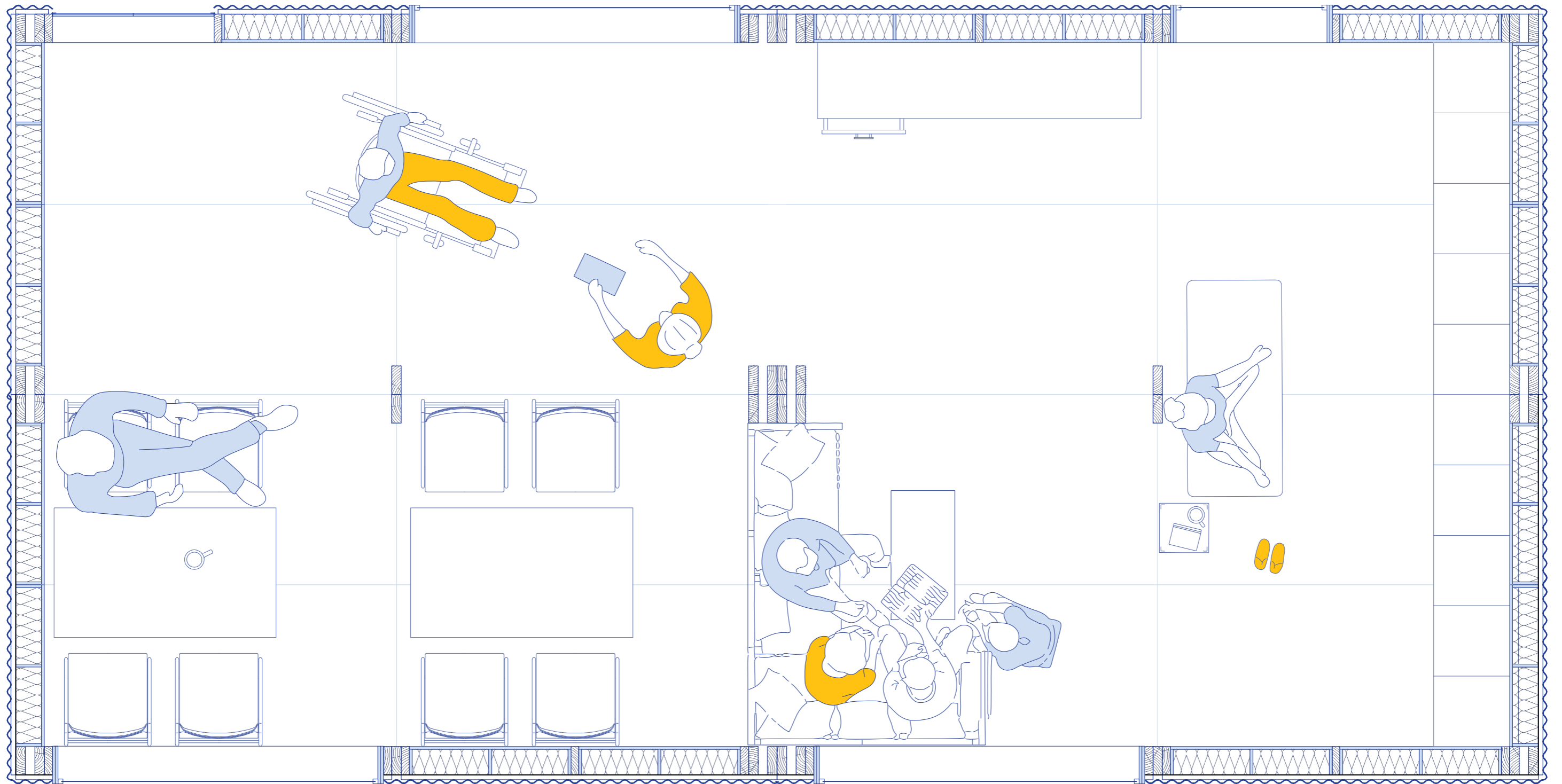
*this filtered water is NOT drinkable, it should only be used for washing clothes, gardening and non-food/drinks activities (NO dish washing)



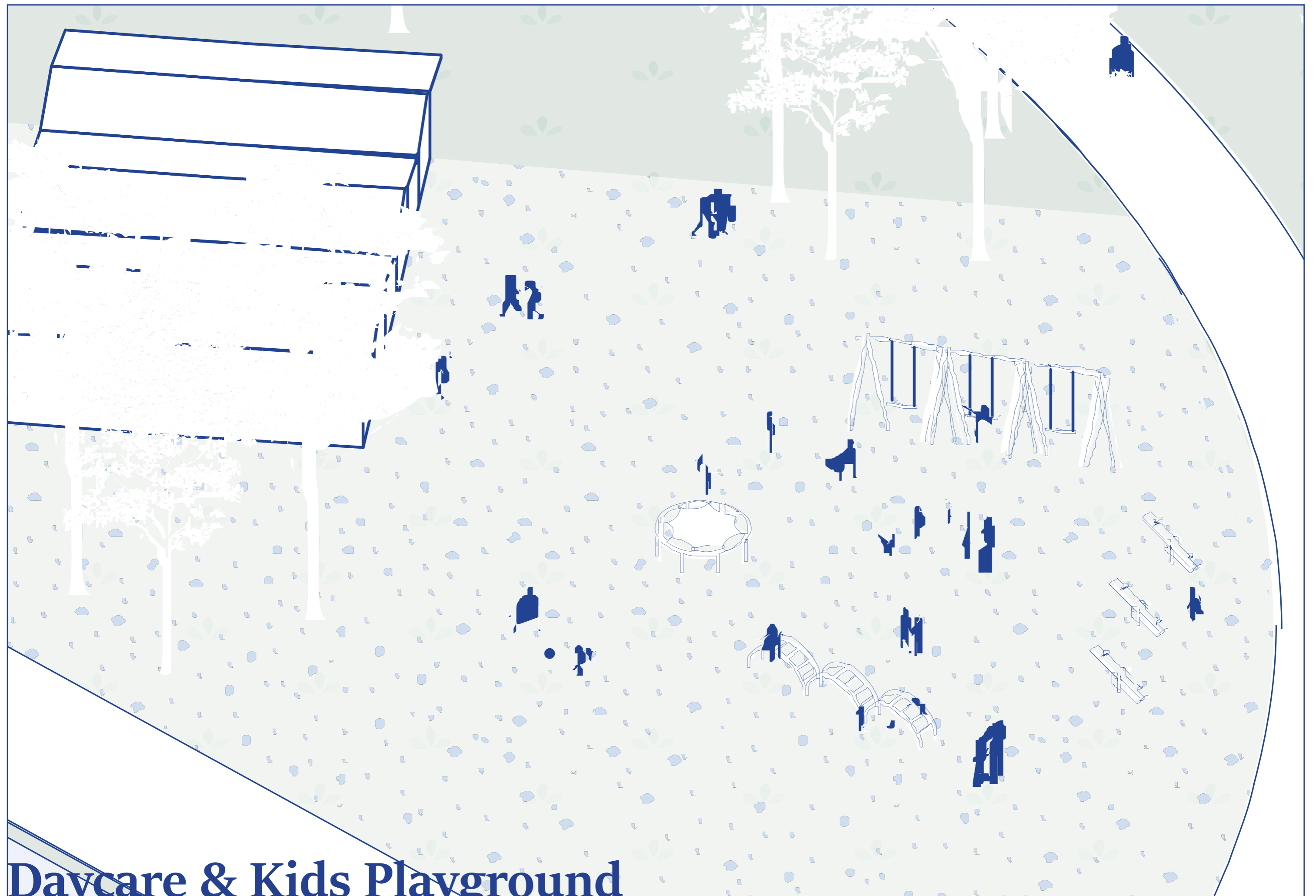
Corner - Vertical Detail - Wall Layers & Window



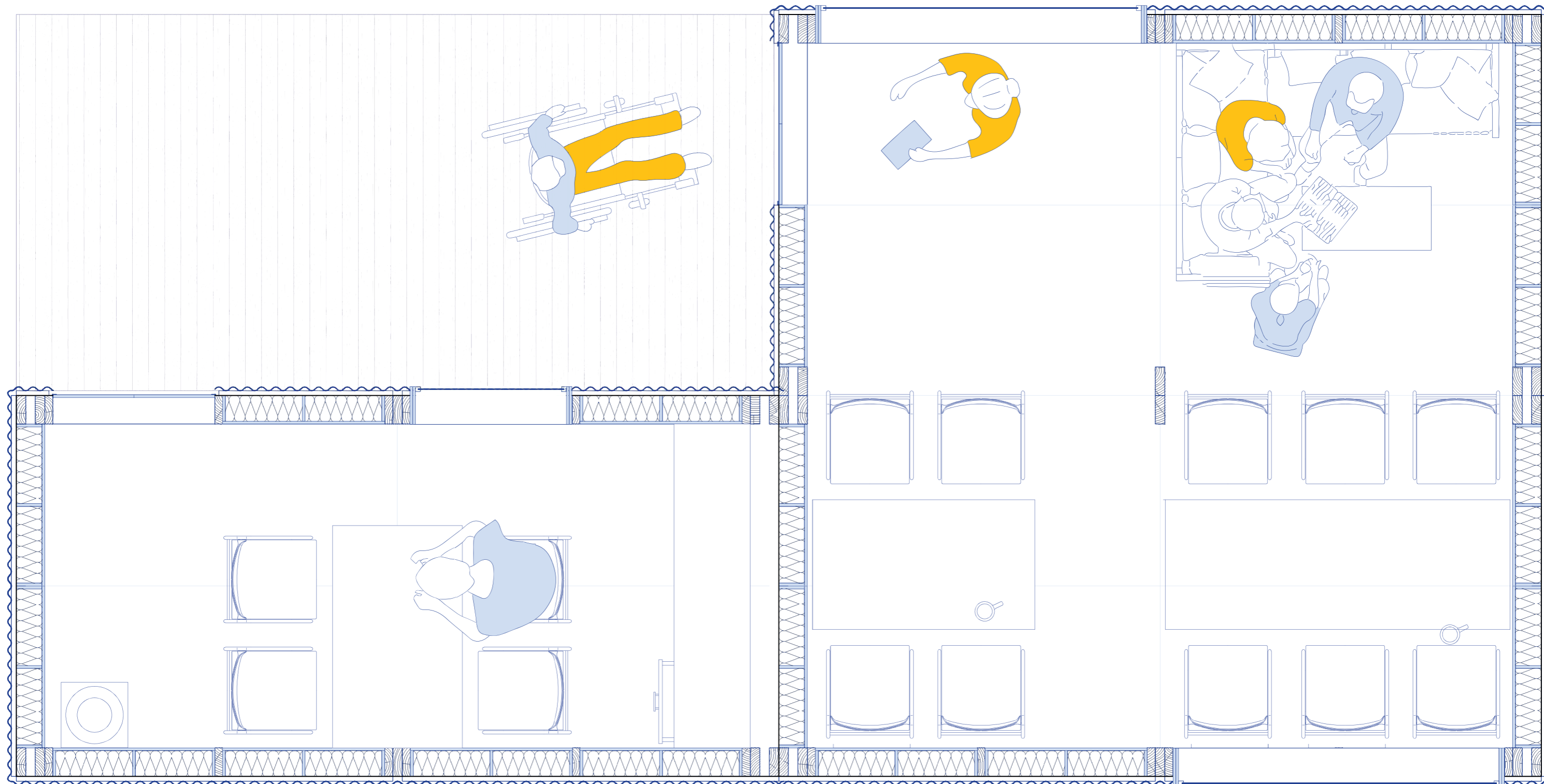
Lecture & Workshop Hall



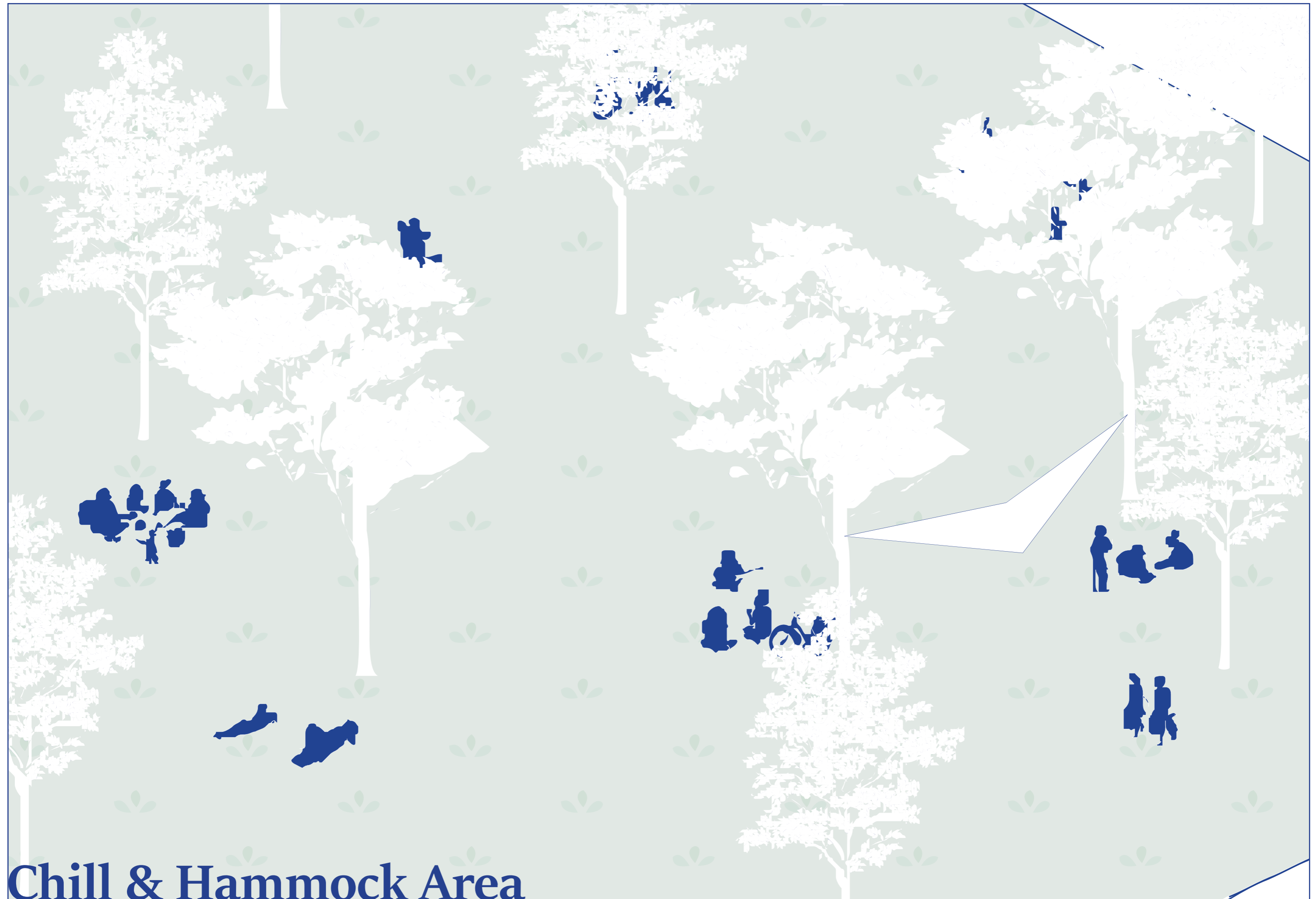
Workshop Space - Quadruplex - Example Floorplan



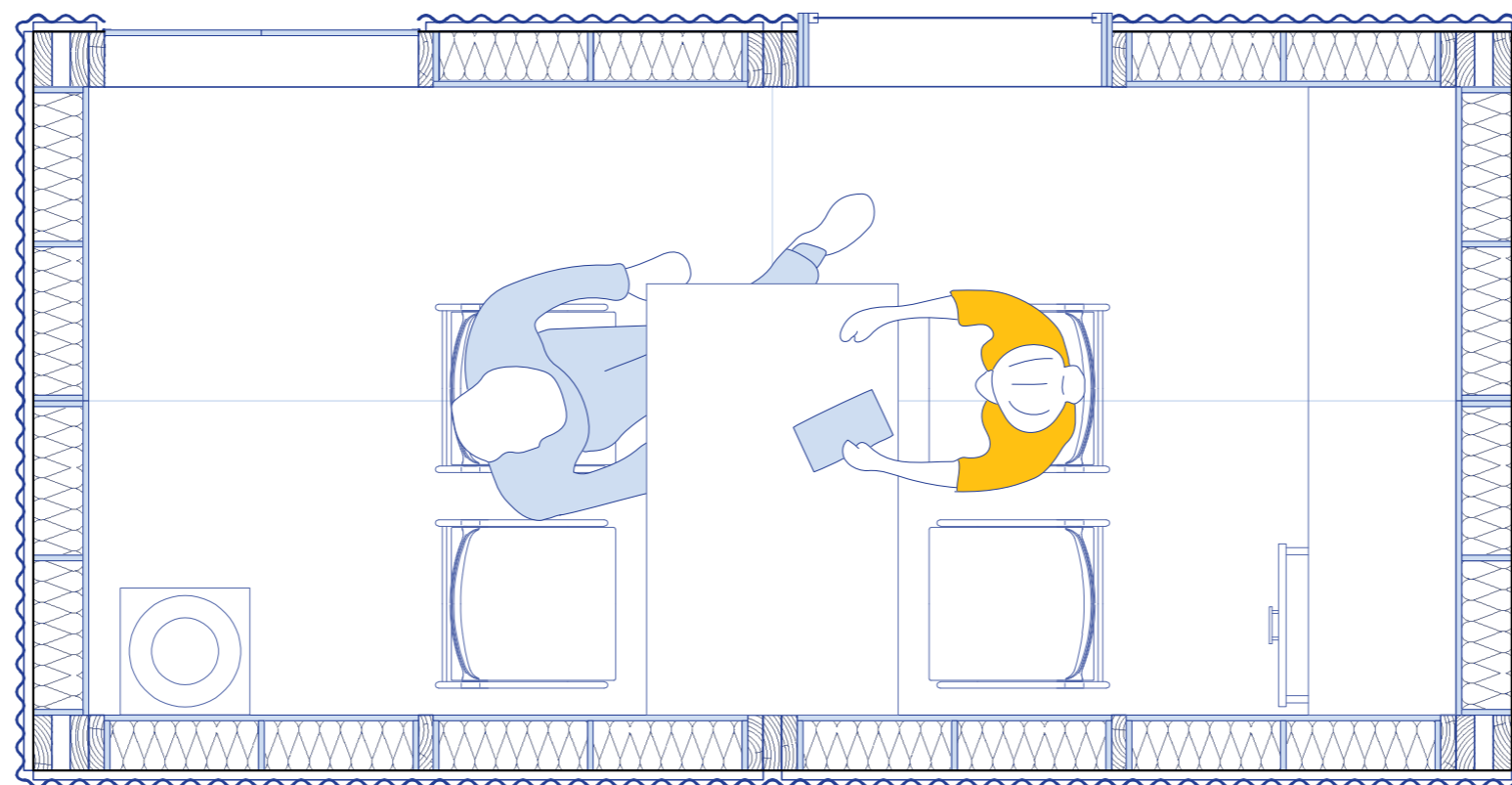
Daycare & Kids Playground



Daycare & Office Desk - Triplex - Example Floorplan



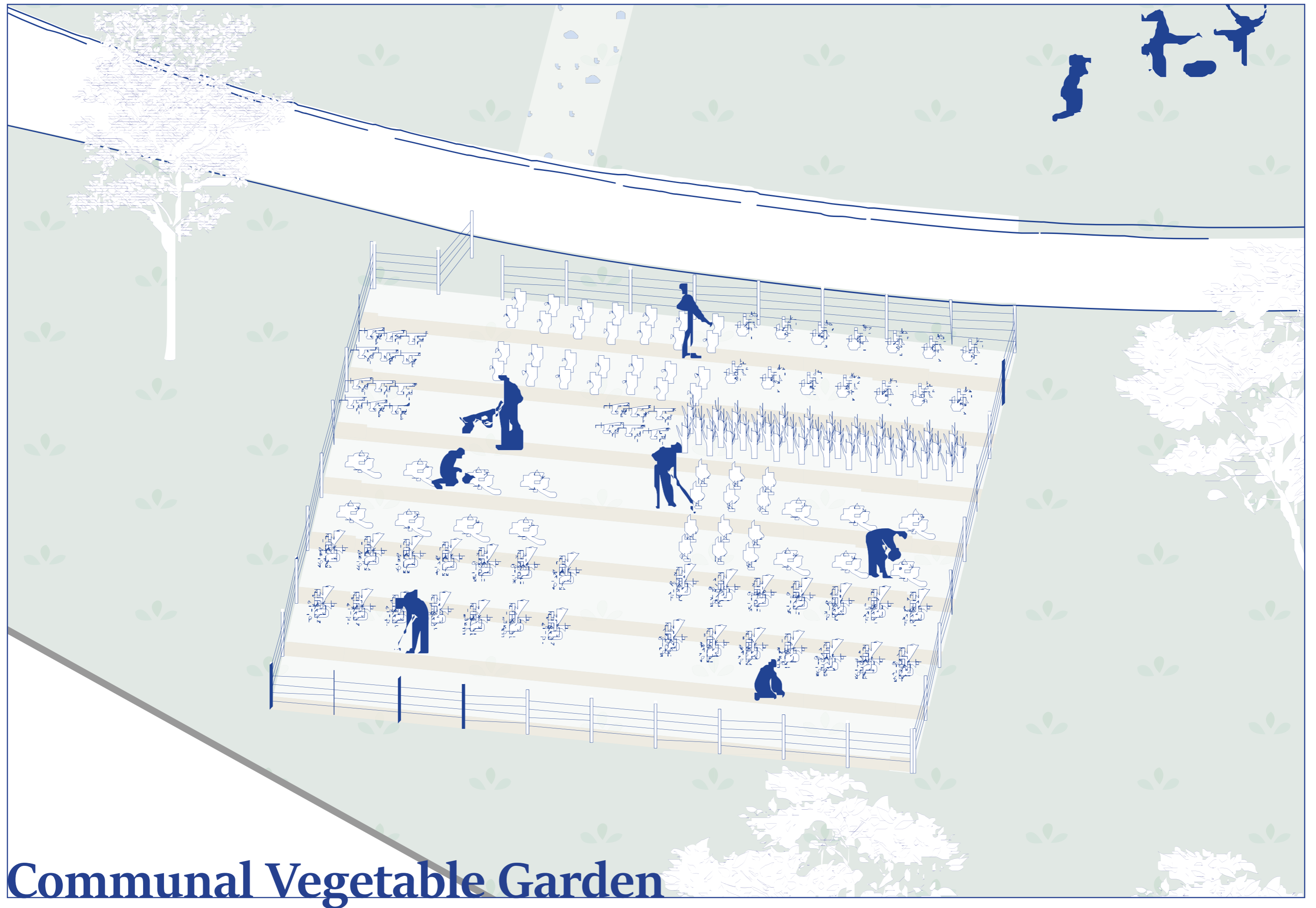
Chill & Hammock Area



Information Desk - Single Unit - Example Floorplan



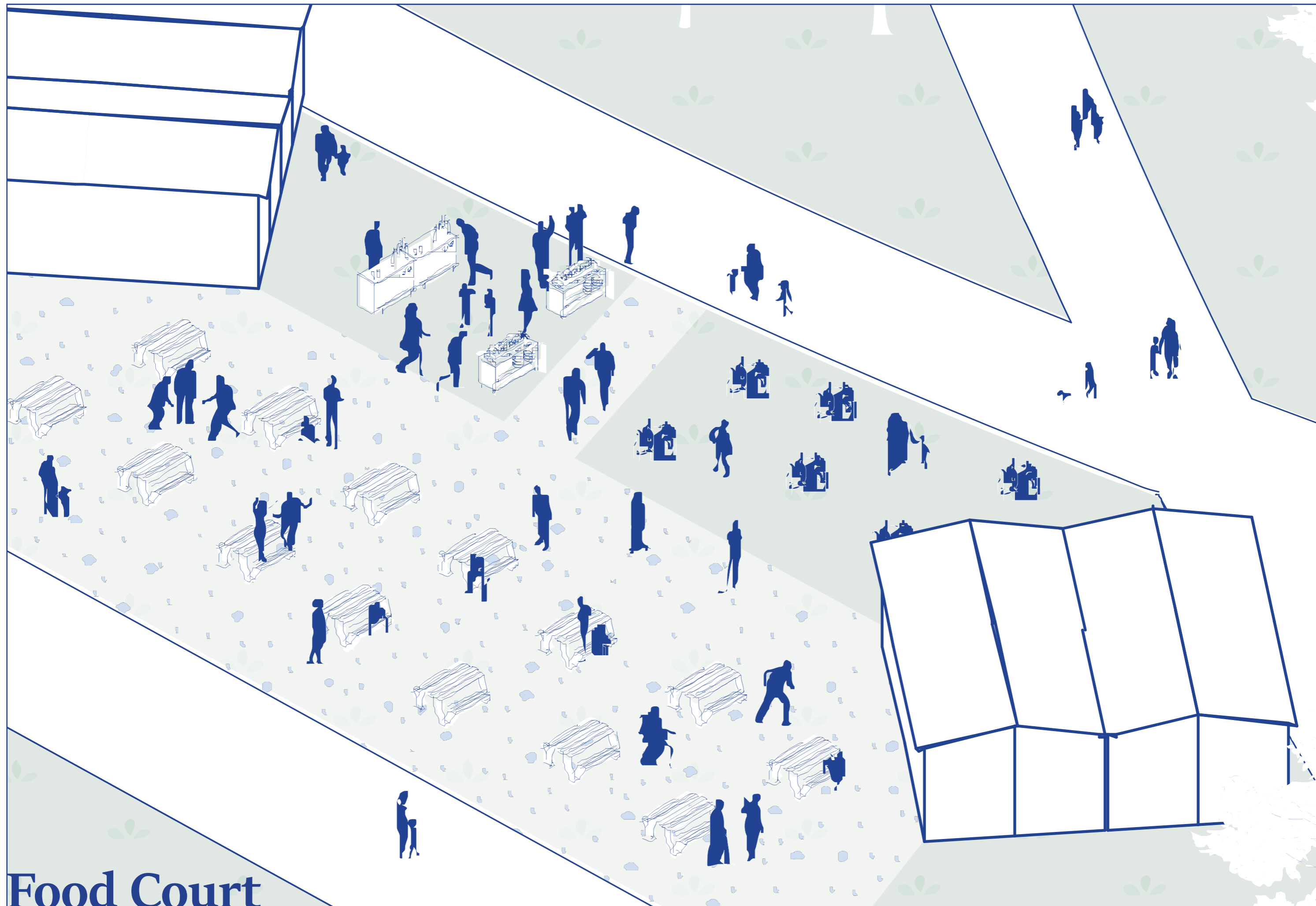
Basketball Court & Outdoor Gym



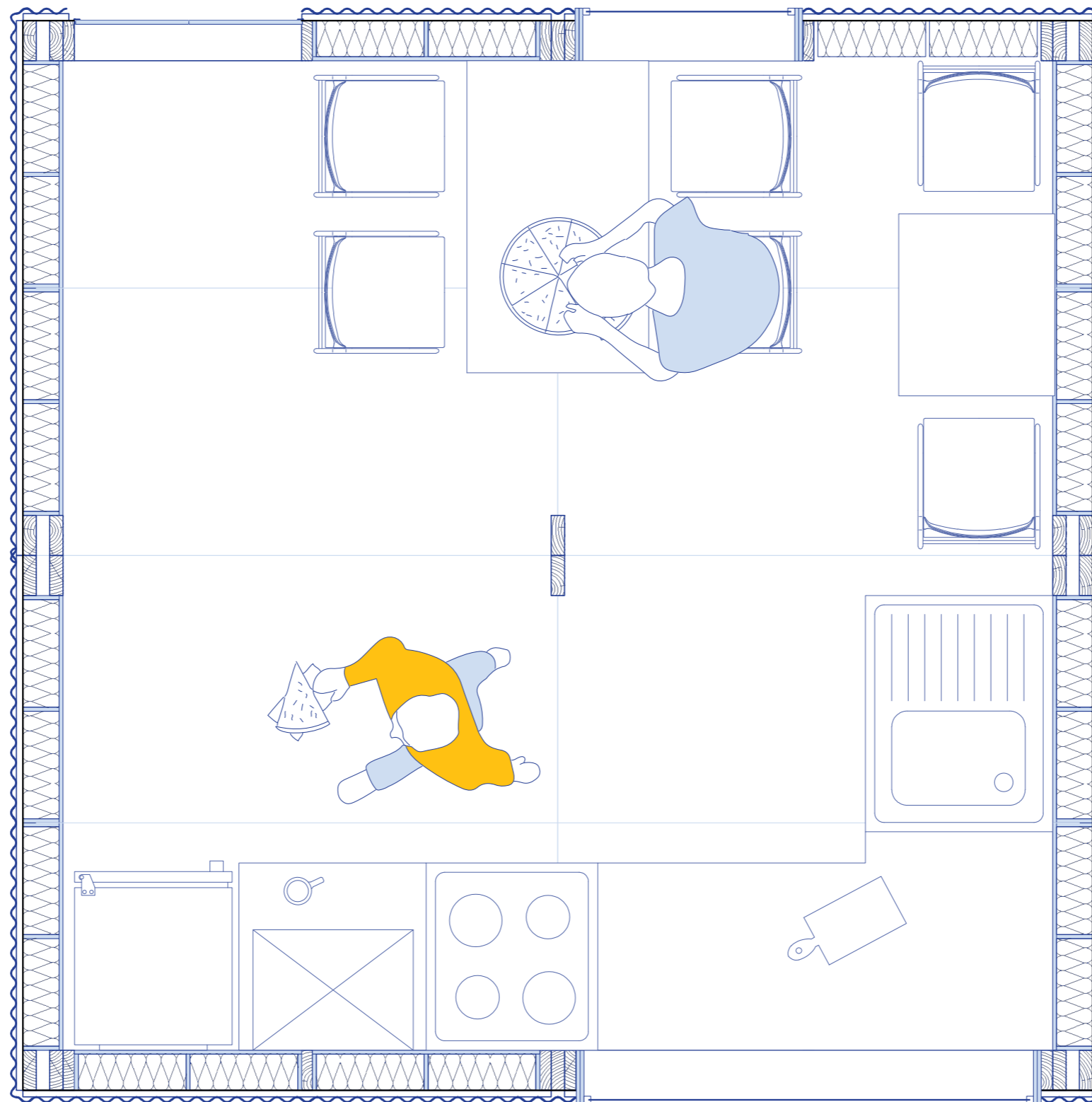
Communal Vegetable Garden



Saturday Morning Trade Market



Food Court



Shared Kitchen - Duplex - Example Floorplan

[lon 35.11941 lat 47.83766 | nom. scale = 1 / 5000]

Shelter Map -Zaporizhzhia City Centre - Ukraina Mall

