

A M E M B E R O F



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ROBUST | EFFICIENT | SUSTAINABLE | SYSTEMS



SPT

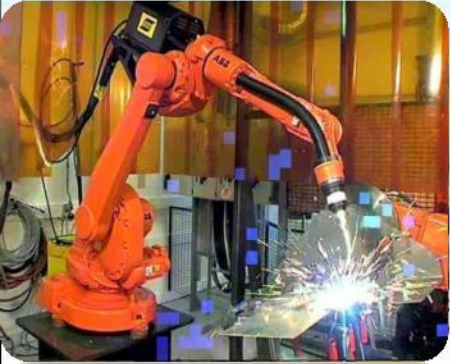
OILFIELD EQUIPMENT & VESSELS MANUFACTURERS L.L.C

... Engineers With Excellence

www.sptllc-ress.com

Al Ghail Industrial Park | Ras Al Khaimah | UAE | P.O Box 14638

+971 7 258 9131 | Info@sptllc-ress.com



GPS: 25.390833, 55.984722

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PRESENTATION

FLATPACK MODULAR HOUSING.



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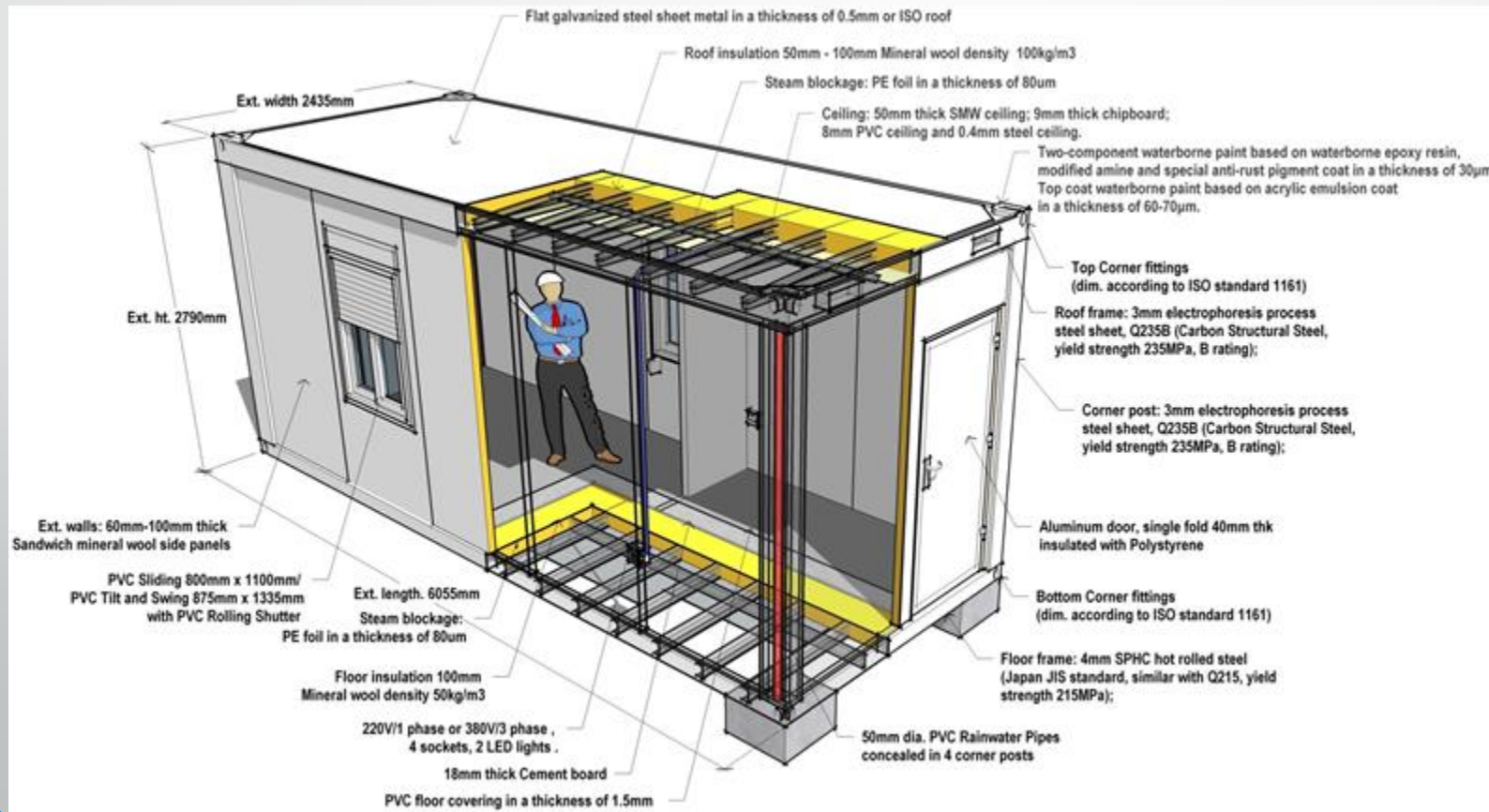
ROBUST | EFFICIENT | SUSTAINABLE | SYSTEM

Classic-type

The milestone of the modular accommodation industry: flat-packed, modular, versatile, stackable.

Flexible living space for temporary or permanent use. Flatpack modules have 20' dimensions (external dimensions: 6.055 x 2.435 x 2.79h mt).

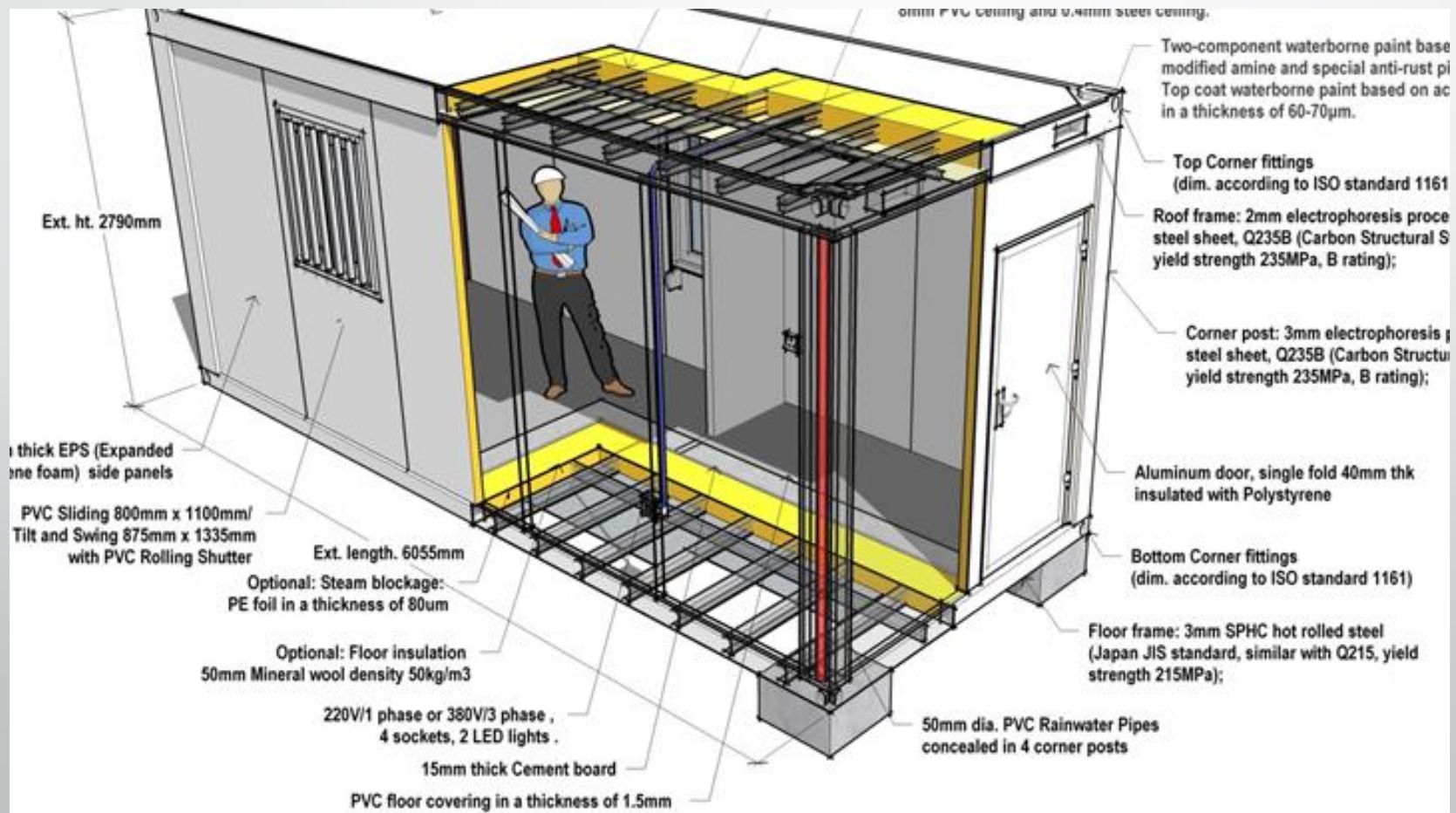
They are joinable without limit to create bigger areas. Stackable in buildings of up to 3 floors.



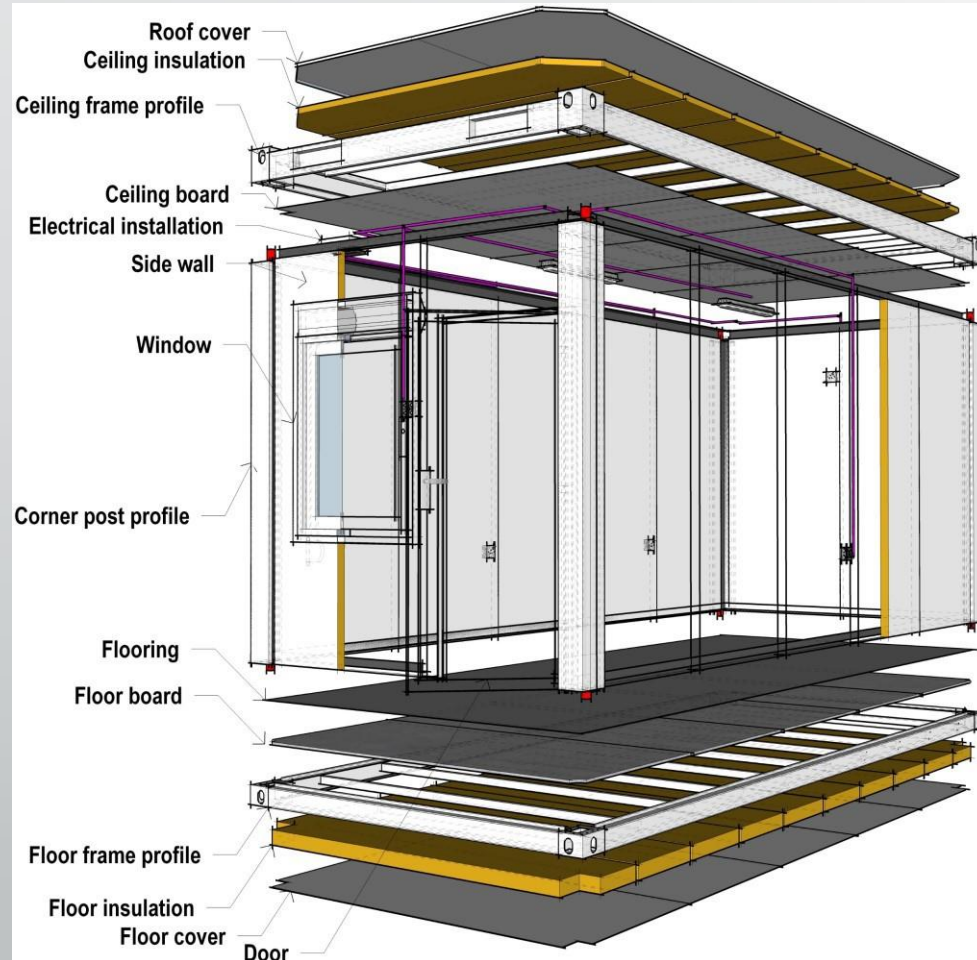
Essential-type

The **cost-effective version of the Multi House module**: great value for money. Even though built with cost effective materials it is engineered like our classic "multi house" flat pack.

It maintains all features of the flat pack: fully modular, joinable, stackable and shipped in bundles. That is the **"essence"** of Multi House.



INTRODUCTION: MODULAR FLAT PACK UNIT



The **Modular FLAT PACK unit** or container is designed as a light, solid construction Multi House system consisting of STEEL floor and roof frames and corner profiles.

The system enables compounding of individual containers in longitudinal and transverse directions without limits. It also enables compounding of containers in 2 floors in height (ground floor + first floor), or in 3 floors in height for warehousing of these containers (ground floor + 2 floor).

Wainscots of the container are made of light insulation panels and offer pleasant climate in the interior due to their building and physical properties.



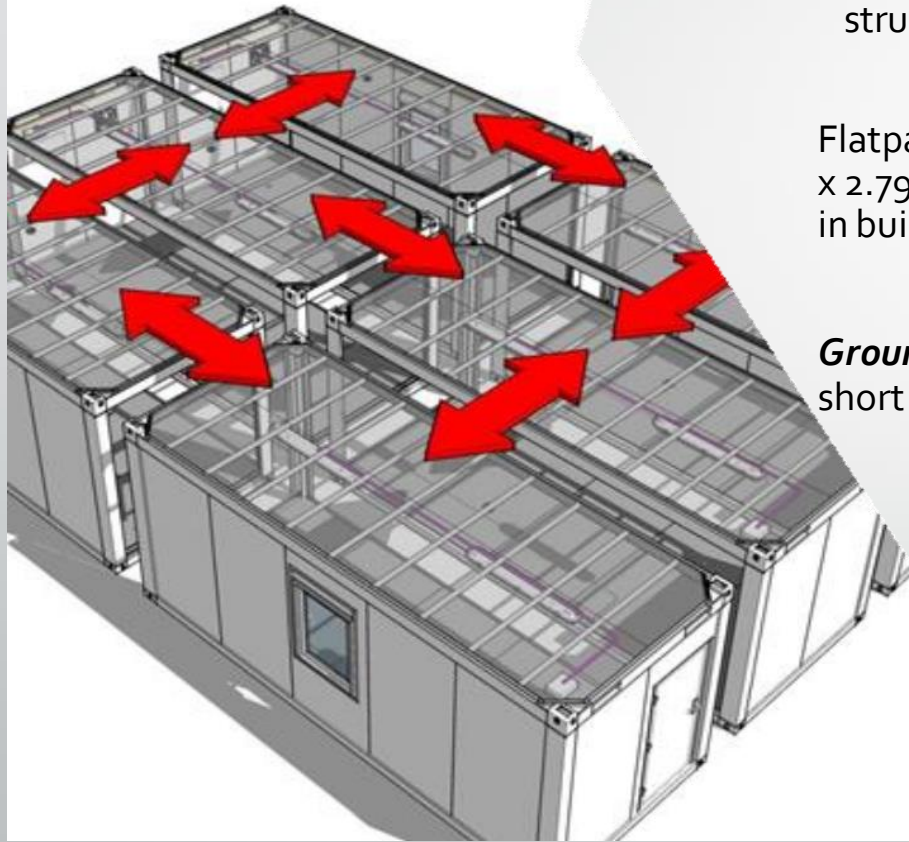
MODULAR 20' FLAT PACK CONTAINER UNITS

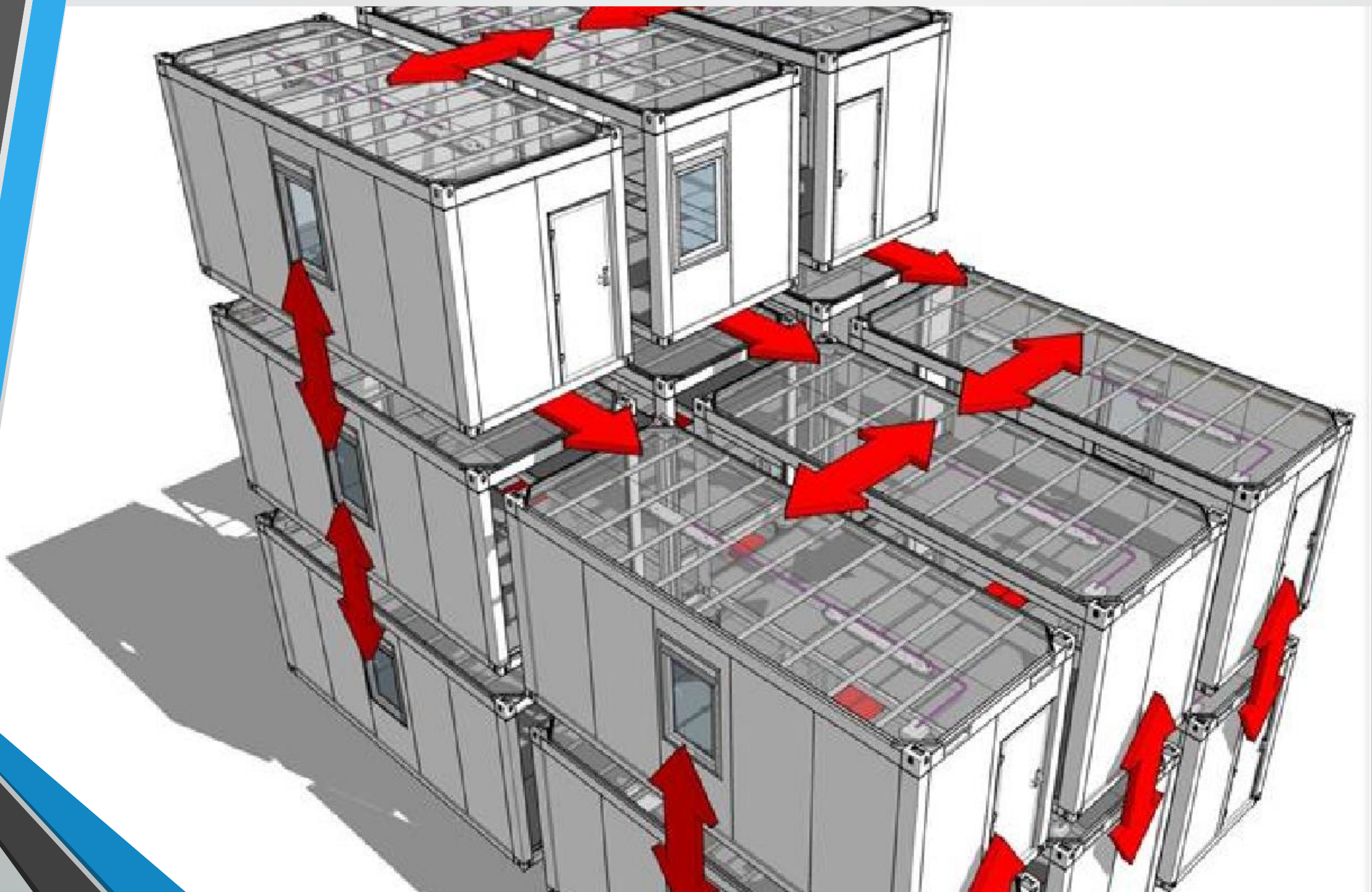
20' Flatpack container arrangements

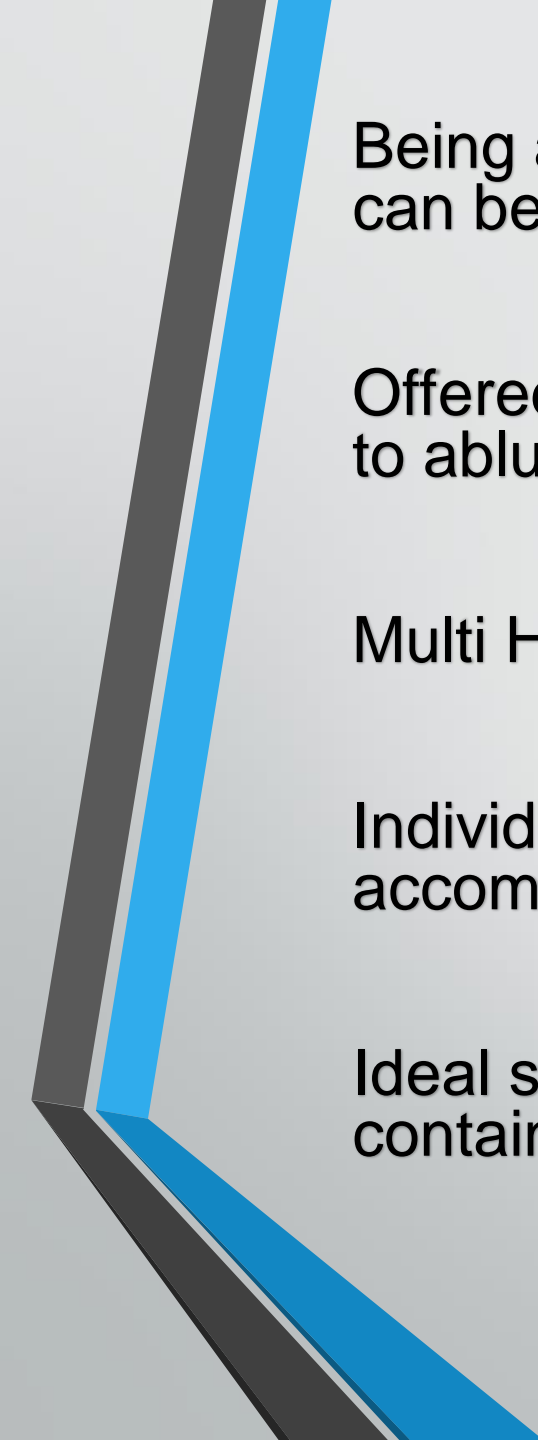
Flat pack containers can be joined to form much larger structures and compounds fit for long-term storage and housing purposes. The modularity of each individual container makes it possible to develop large structural designs of considerable complexity relatively easily.

Flatpack modules have 20' dimensions (external dimensions: 6.055 x 2.435 x 2.79h m); they are joinable without limit to create bigger areas. Stackable in buildings of up to 3 floors

Ground floor level -can be joined/linked horizontally on both long and short sides







Being a modular container, it can be joined to create larger spaces and can be stacked 3-high.

Offered layouts for a standard 20foot unit range from single or double room to ablution and sanitary containers.

Multi House is the flat-pack container renowned all over the world.

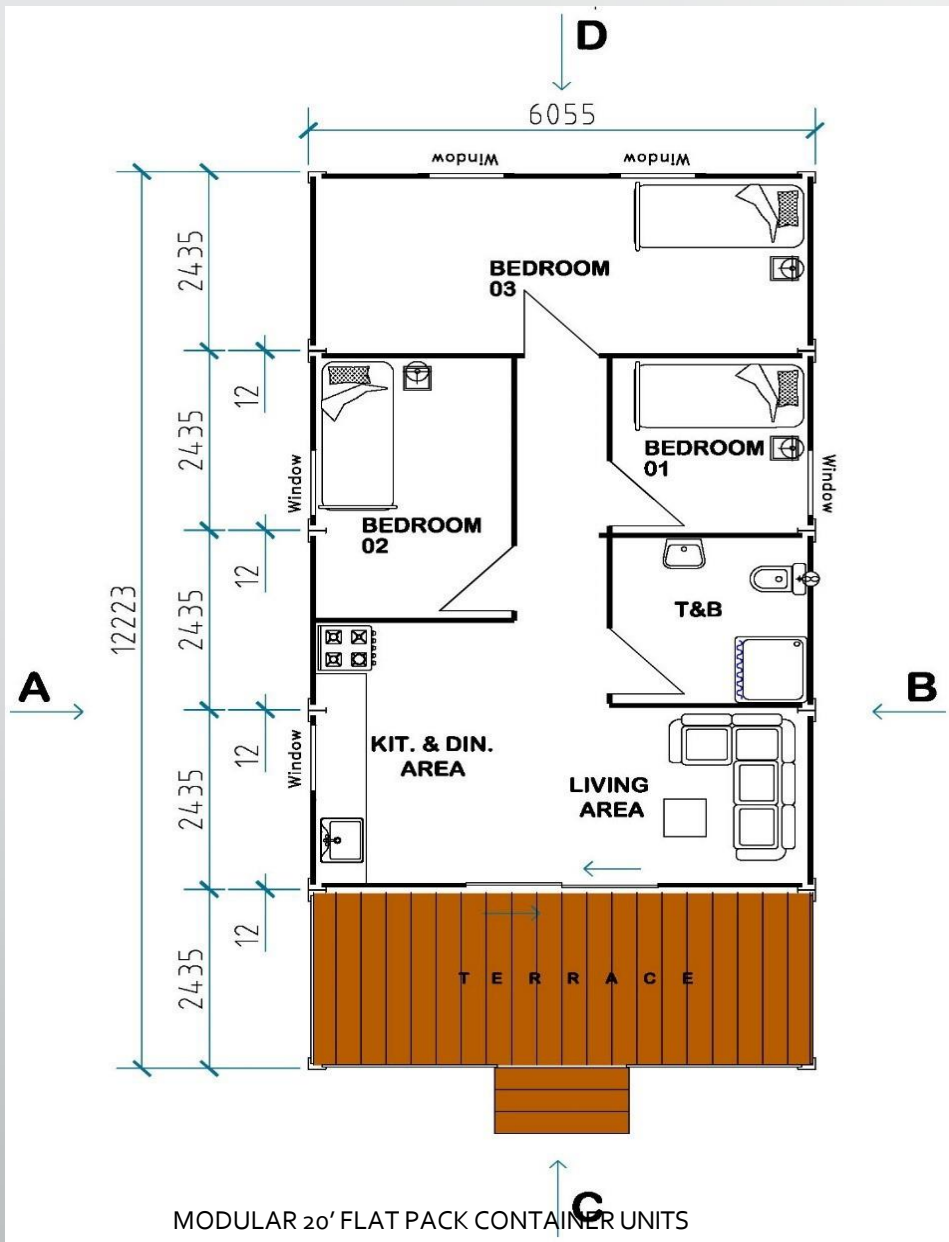
Individual units or composite and modular structures for all accommodation Solutions in hot and cold climates.

Ideal solution whenever you have a need for any “off the shelf” containerized space.

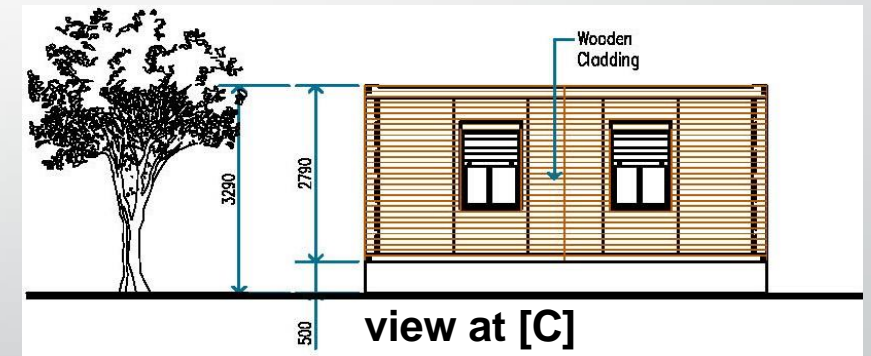
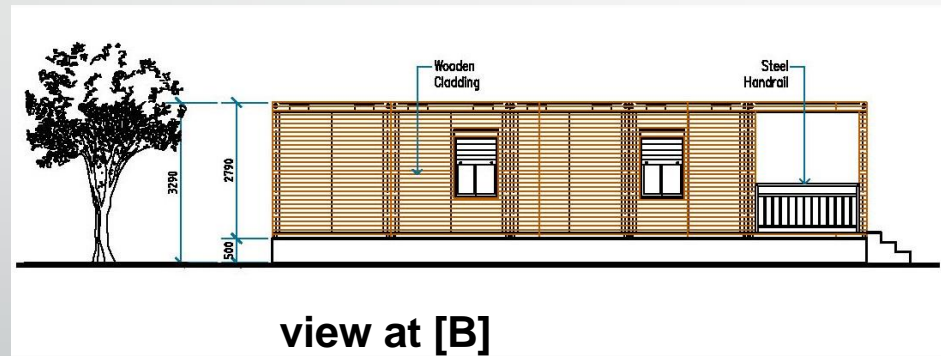
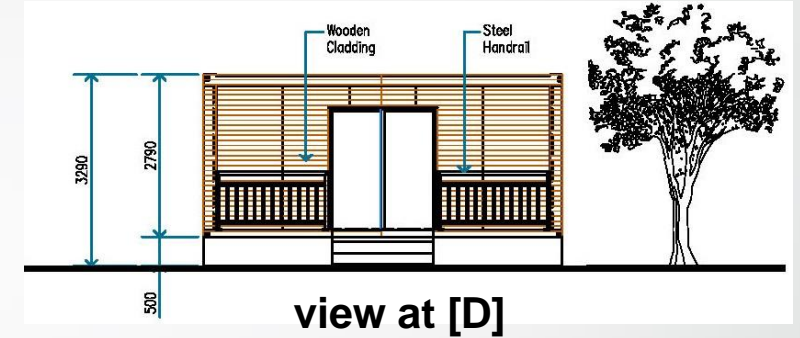
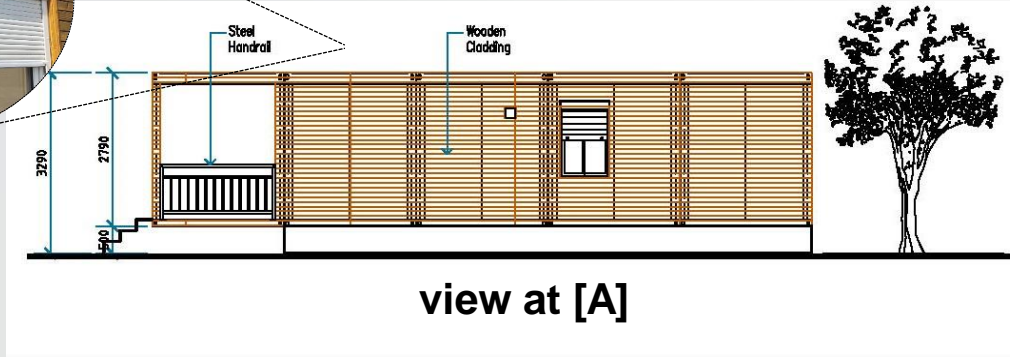
MODULAR [living units] with TERRACE

- AREA = 60 Sq Mtrs .
- ARCHITECTURAL drawings
- 2D FLOOR [plan] and 3D FLOOR [plan]
- 2D BUILDING [elevations] and 3D BUILDING [elevations]
- 3D BUILDING [sections]
- BLOW up 3Ds
- 3D [impressions]





FLOOR [plan]



2D BUILDING [elevations]

3D BUILDING [elevations]



view at [D]



view at [B]

3D BUILDING [elevations]



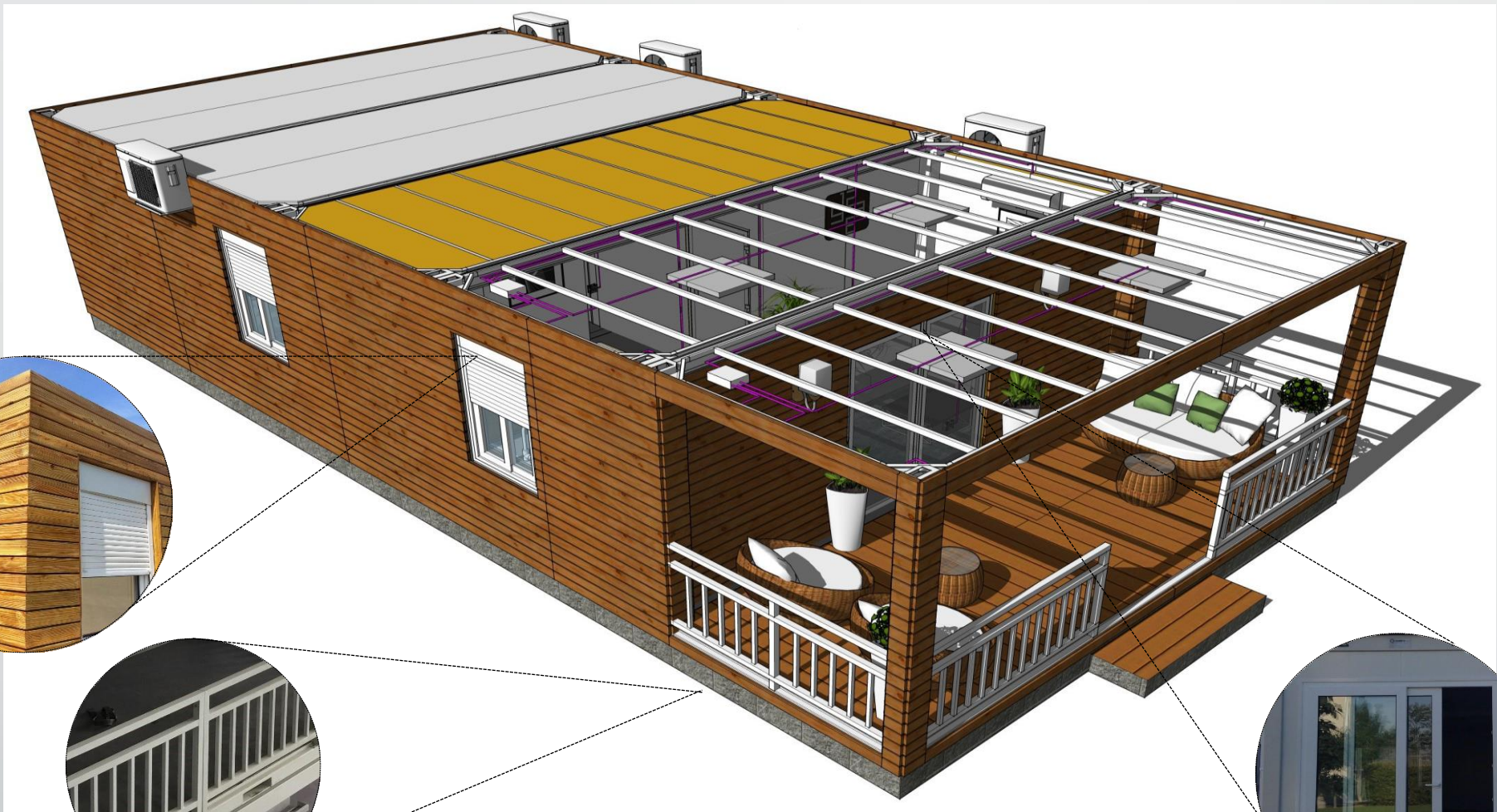
view at [D]



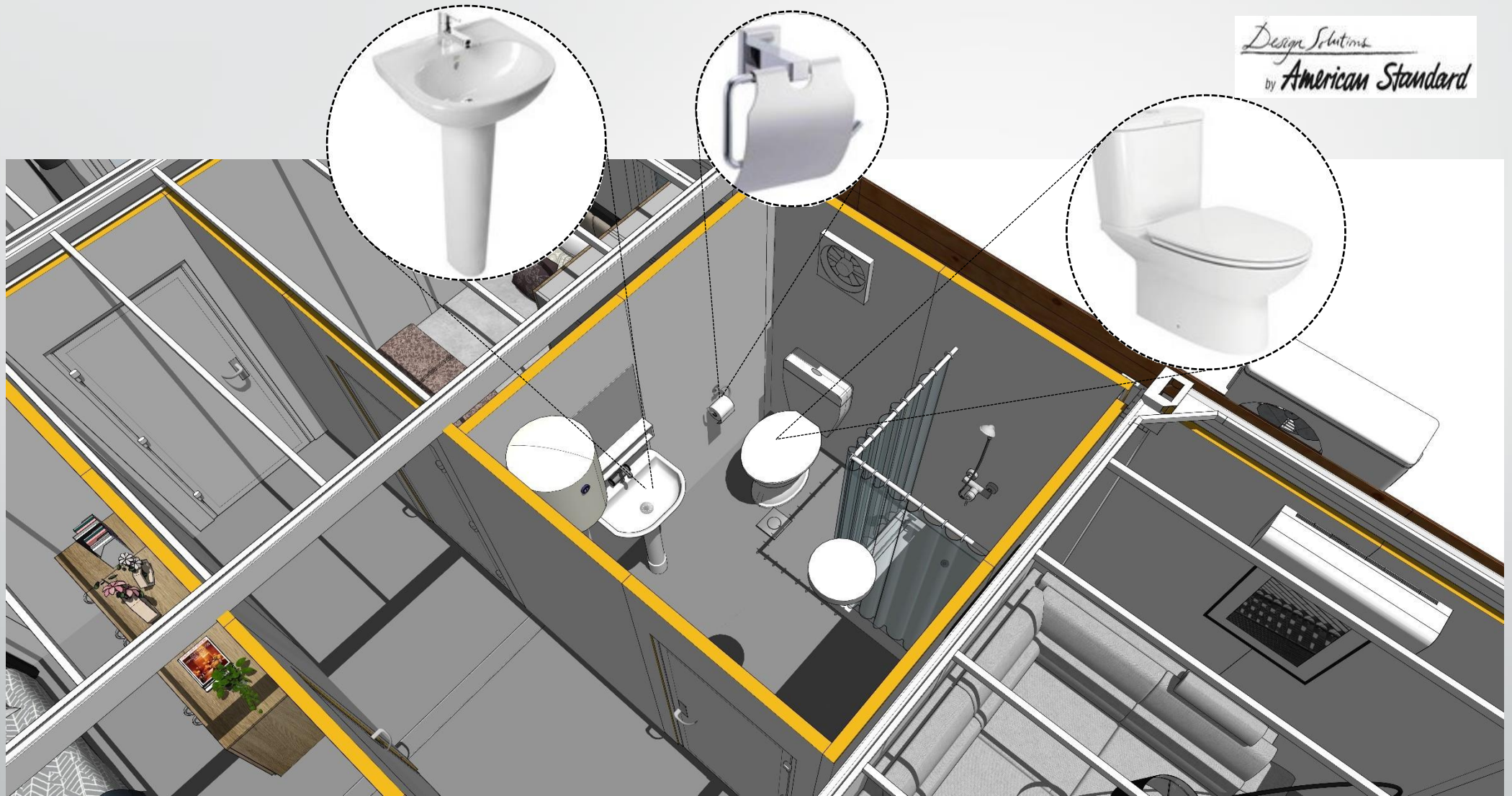
view at [B]



3D BUILDING [sections]



BLOW [up] 3D [view]



BLOW [up] 3D [view]



MODULAR 20' FLAT PACK CONTAINER UNITS



MODULAR 20' FLAT PACK CONTAINER UNITS

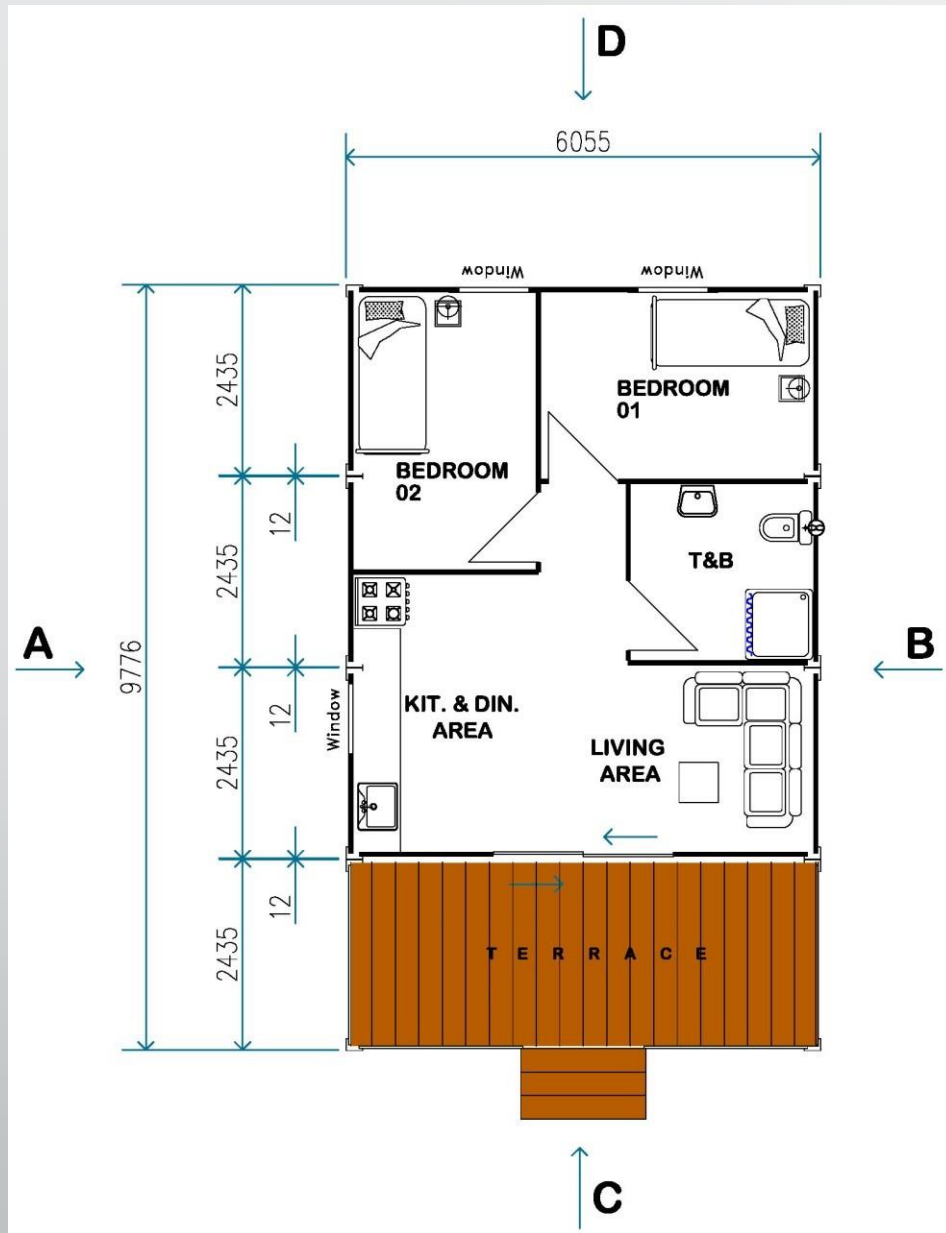


MODULAR 20' FLAT PACK CONTAINER UNITS

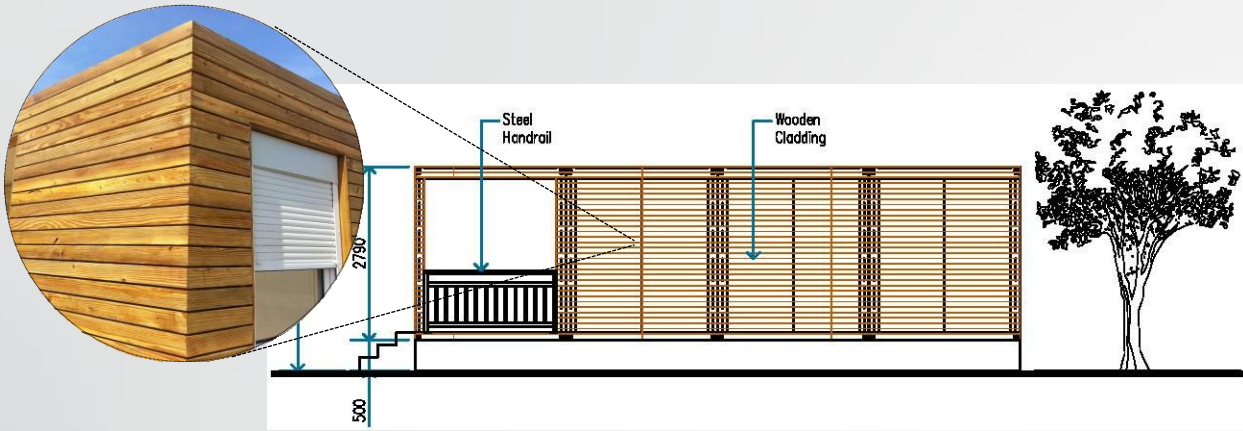
MODULAR [living units] with TERRACE

- AREA = 45 Sq Mtrs .
- ARCHITECTURAL drawings
- 2D FLOOR [plan] and 3D FLOOR [plan]
- 2D BUILDING [elevations] and 3D BUILDING [elevations]
- 3D BUILDING [sections]
- BLOW up 3Ds
- 3D [impressions]

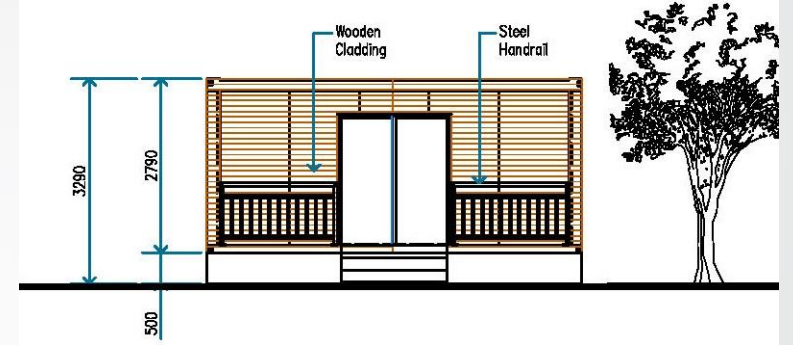




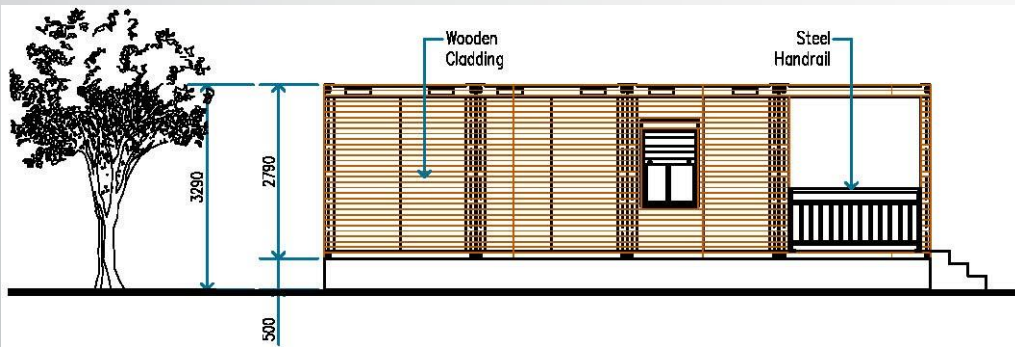
FLOOR [plan]



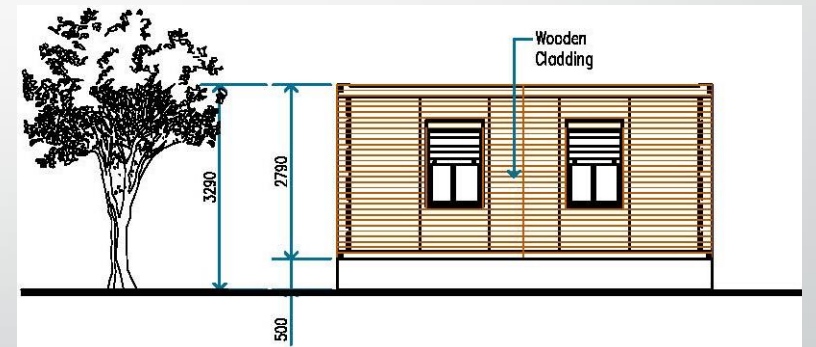
view at [A]



view at [D]



view at [B]



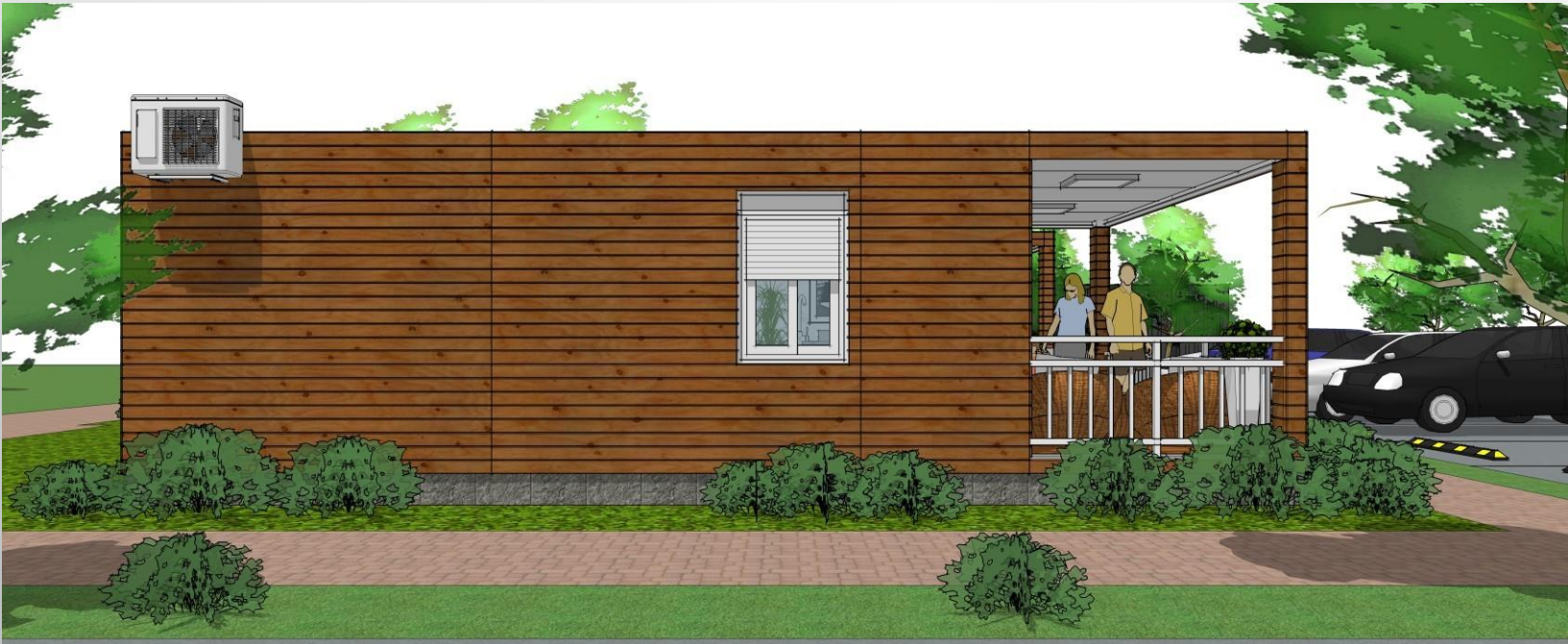
view at [C]

2D BUILDING [elevations]

3D BUILDING [elevations]



view at [D]



view at [B]

3D BUILDING [elevations]



view at [D]

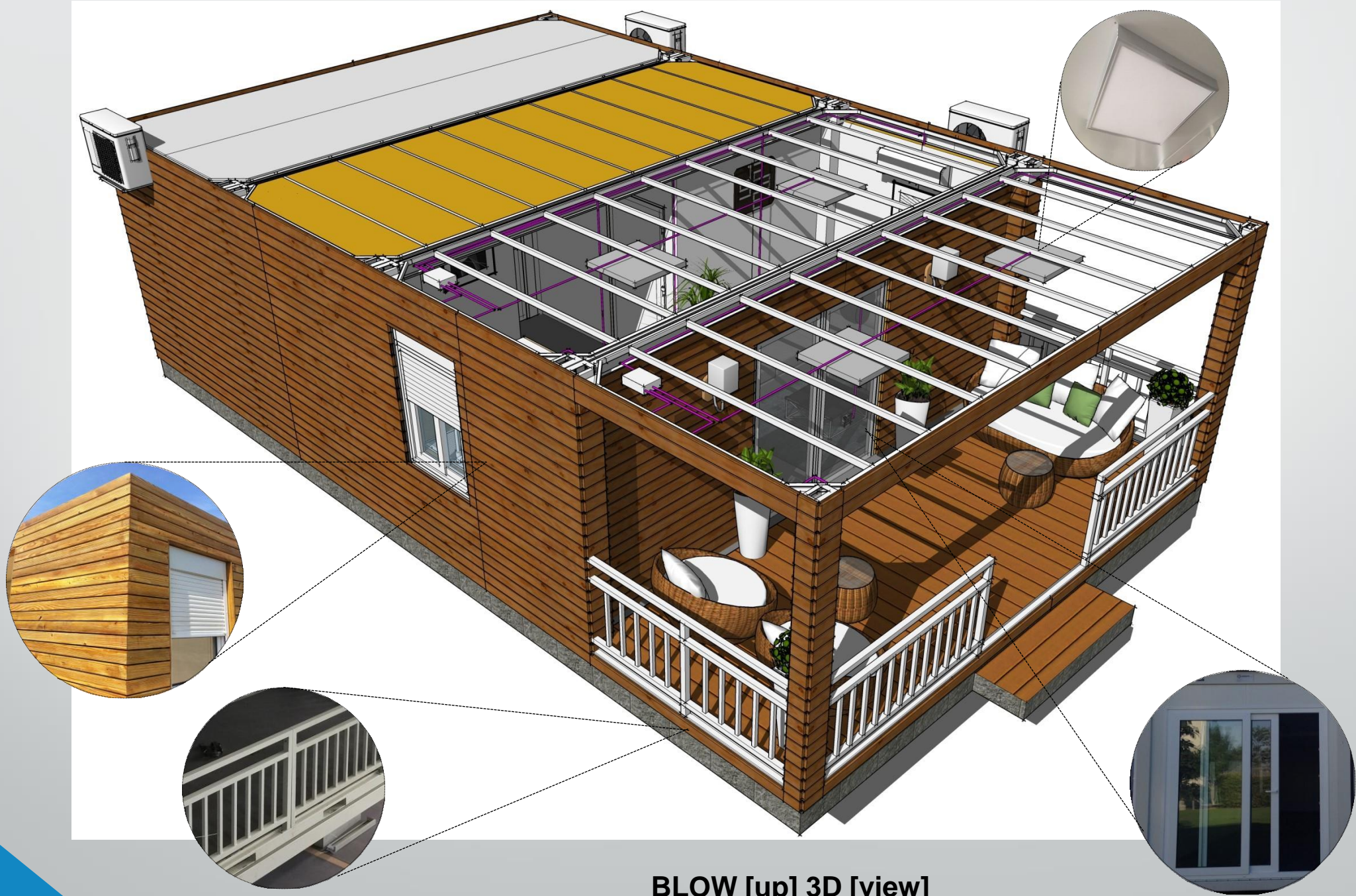


view at [B]

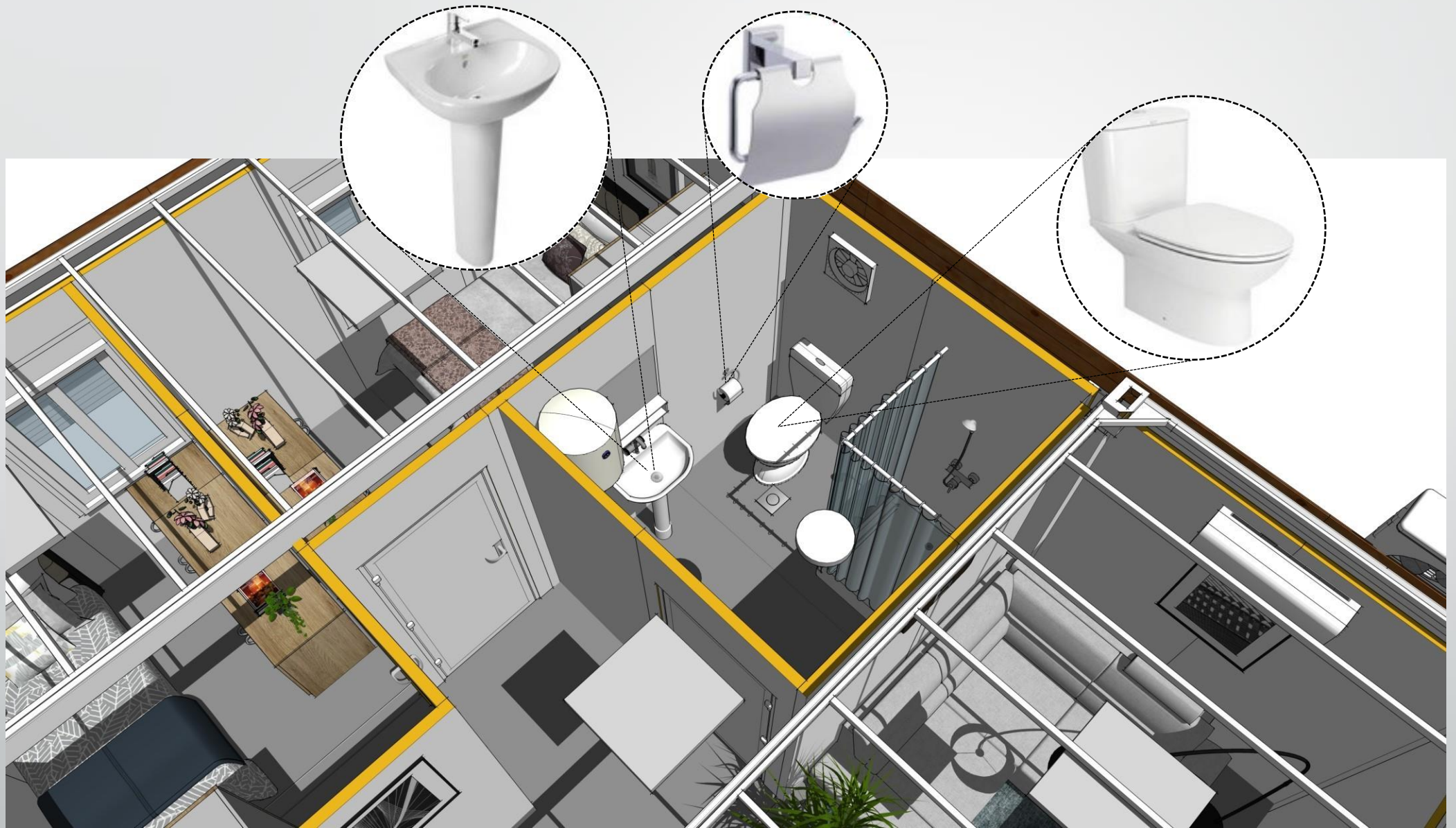


3D BUILDING [sections]

PROPOSED MODULAR LIVING UNITS with TERRACE



BLOW [up] 3D [view]

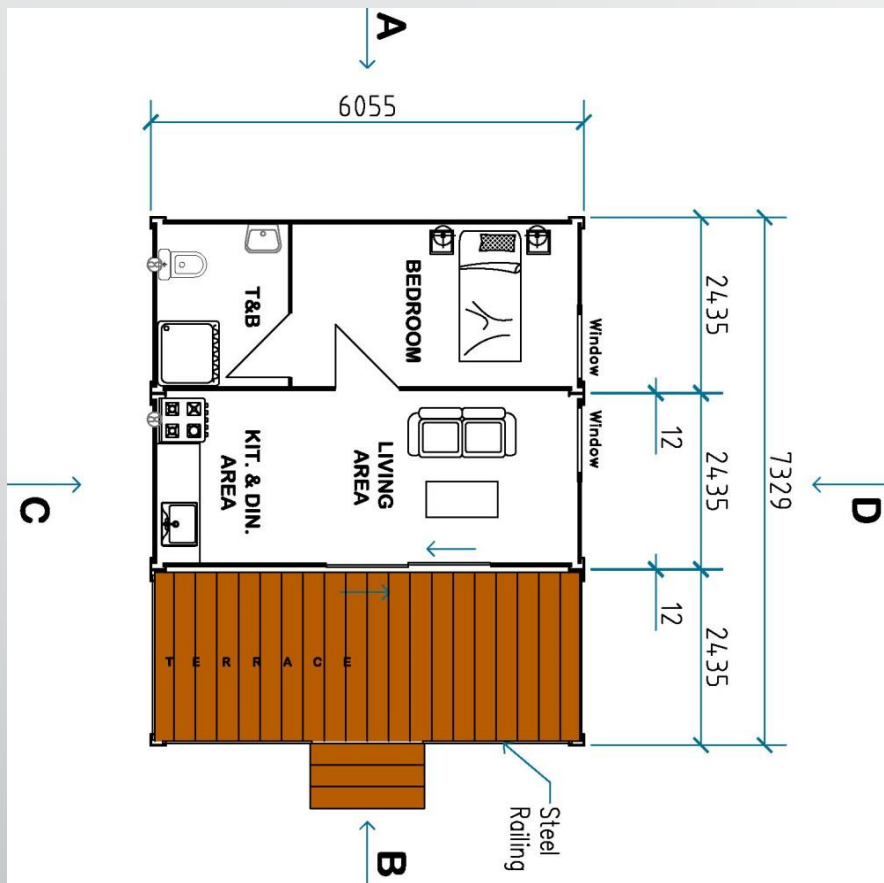


BLOW [up] 3D [view]

MODULAR [living units] with TERRACE

- AREA = 30 Sq Mtrs .
- ARCHITECTURAL drawings
- 2D FLOOR [plan] and 3D FLOOR [plan]
- 2D BUILDING [elevations] and 3D BUILDING [elevations]
- 3D BUILDING [sections]
- BLOW up 3Ds
- 3D [impressions]





FLOOR [plan]



MODULAR 20' FLAT PACK CONTAINER UNITS

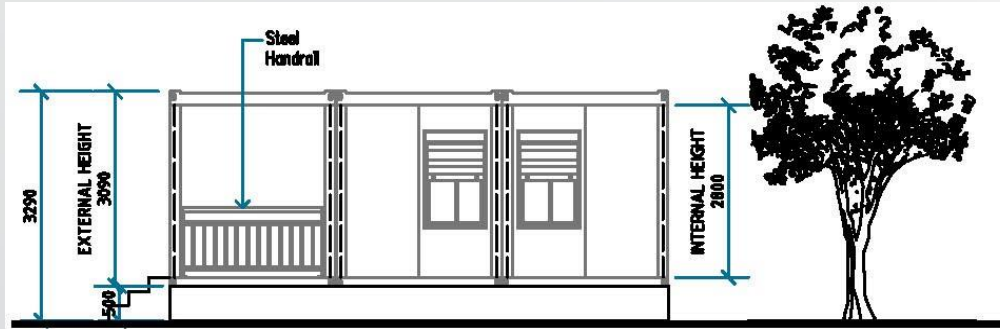
Modular Flatpack container dimensions:

Length: 6.055 meters

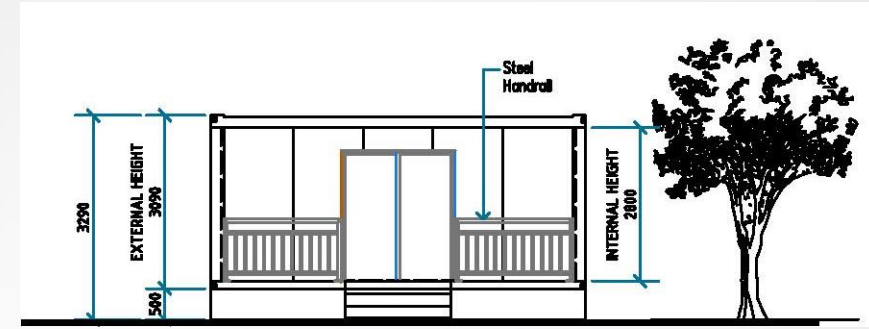
Width: 2.435 meters

External height: 2.790 meters

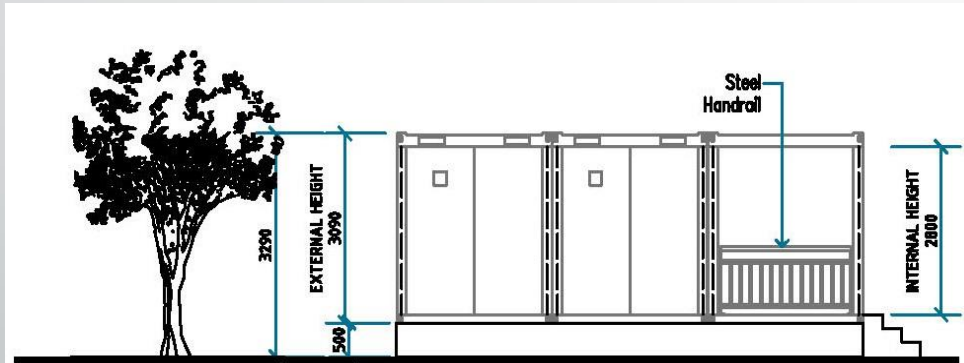
Internal height: 2.50 meters



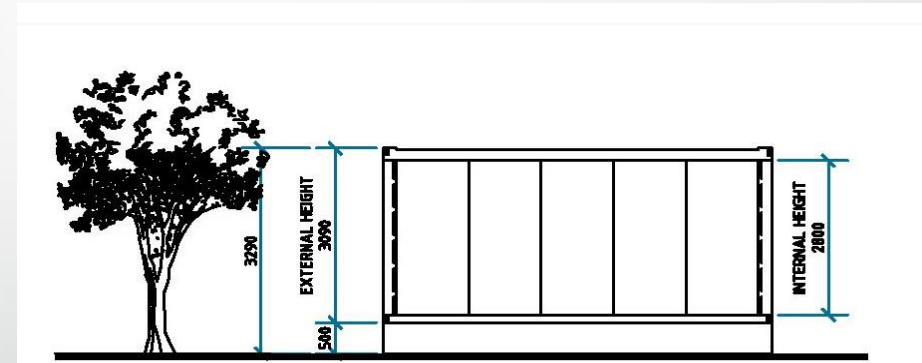
view at [A]



view at [D]



view at [B]



view at [C]

2D BUILDING [elevations]

3D BUILDING [elevations]



view at [D]



view at [B]



3D BUILDING [sections]

Mod 104 vip Single room with en-suite bathroom

Mod 114a

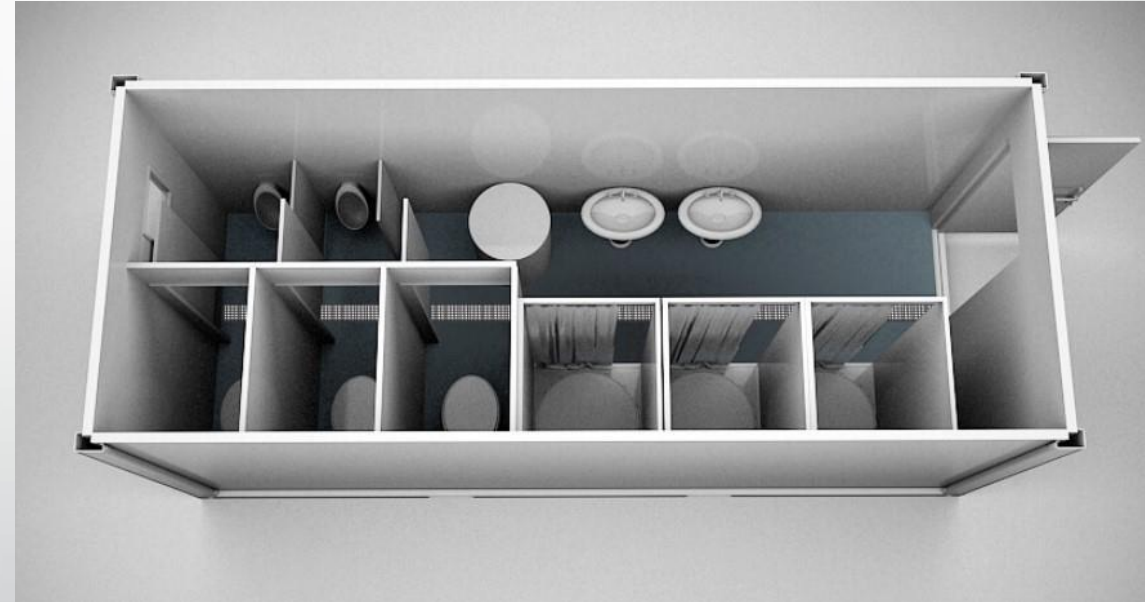
2 rooms with shared central bathroom



Mod 104 Double room

Mod ablution

Equipped according to customer's need with a mix of sanitary components





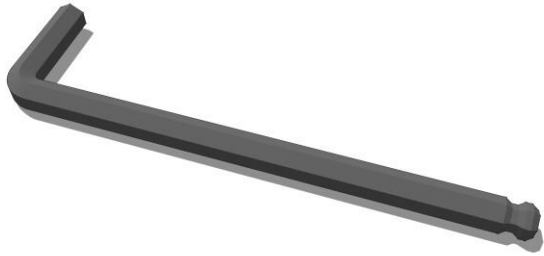
Assembly Procedure

Pre-Fabricated

Modular Container
Living

Tools Needed.

To unpack bundle

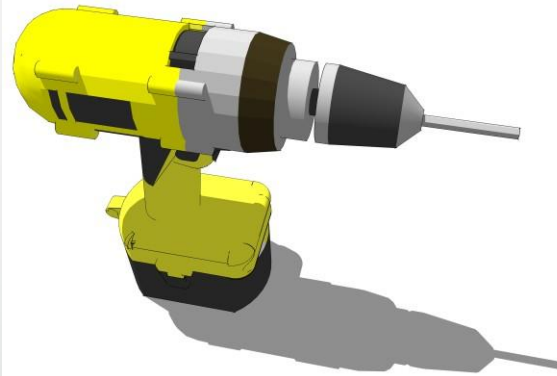


14mm allen key



30mm spanner key

To assemble posts



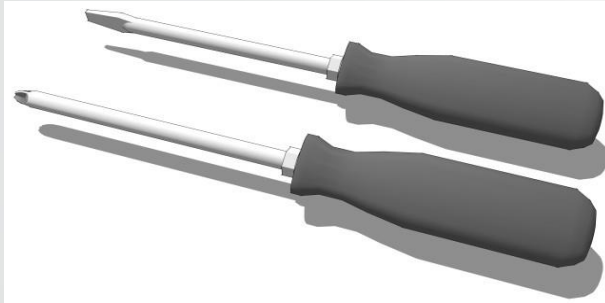
***High speed drill
with 12mm allen
key***

To fit panels

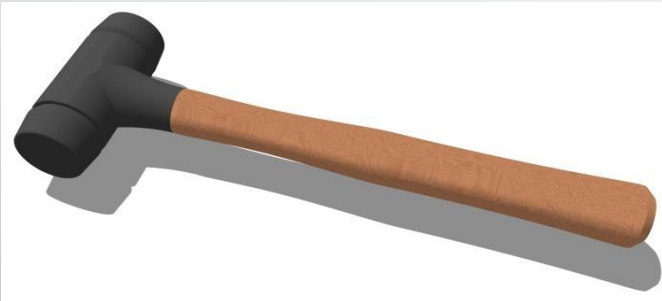


***14mm and 17mm
spanner keys***

For finishing



***Screw drivers for
slotted and cross
head screws***



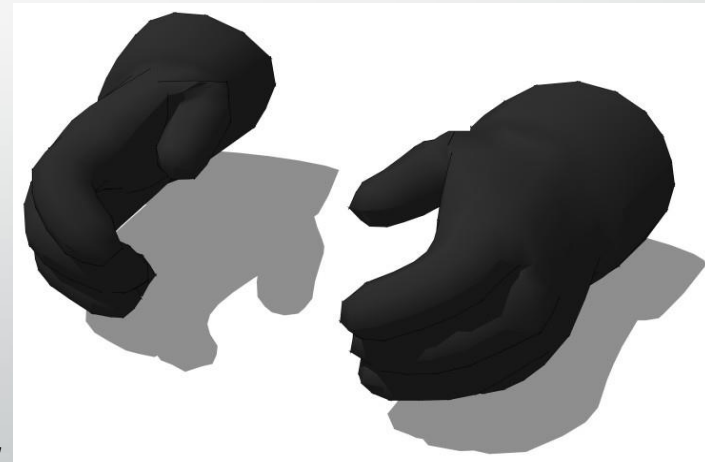
Hammer



Crowbar



Silicon putty



Rubber gloves

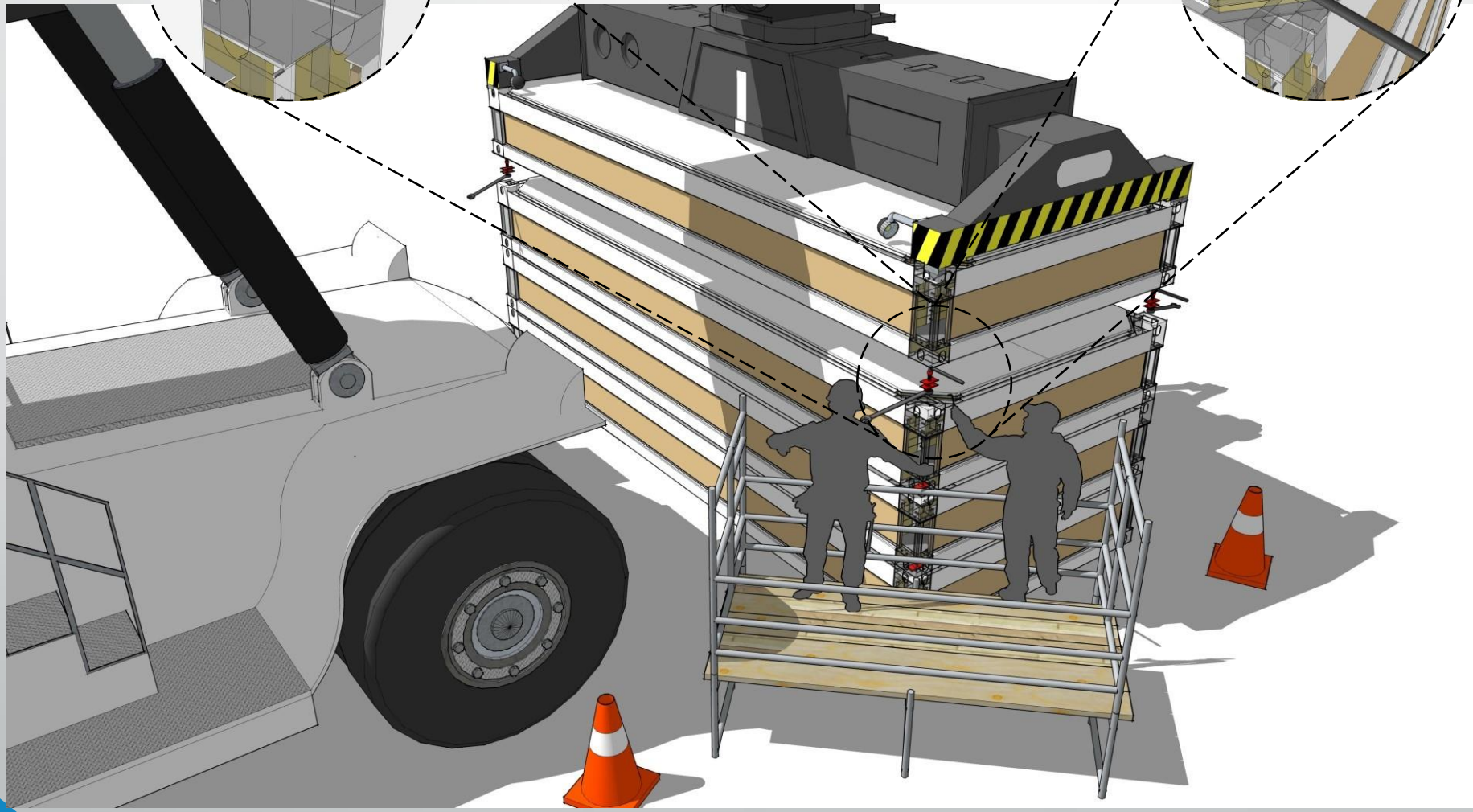
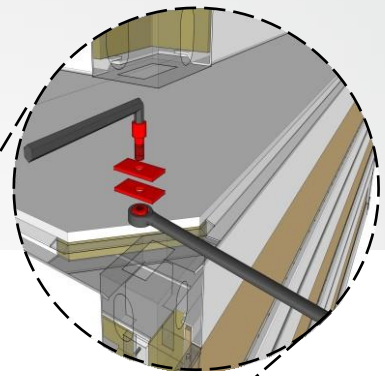
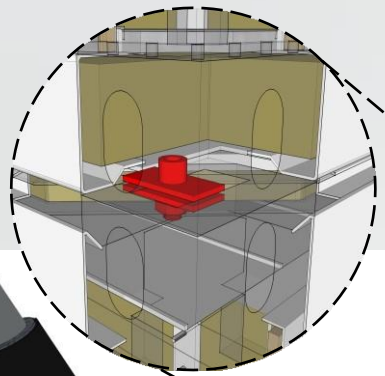


WARNING:

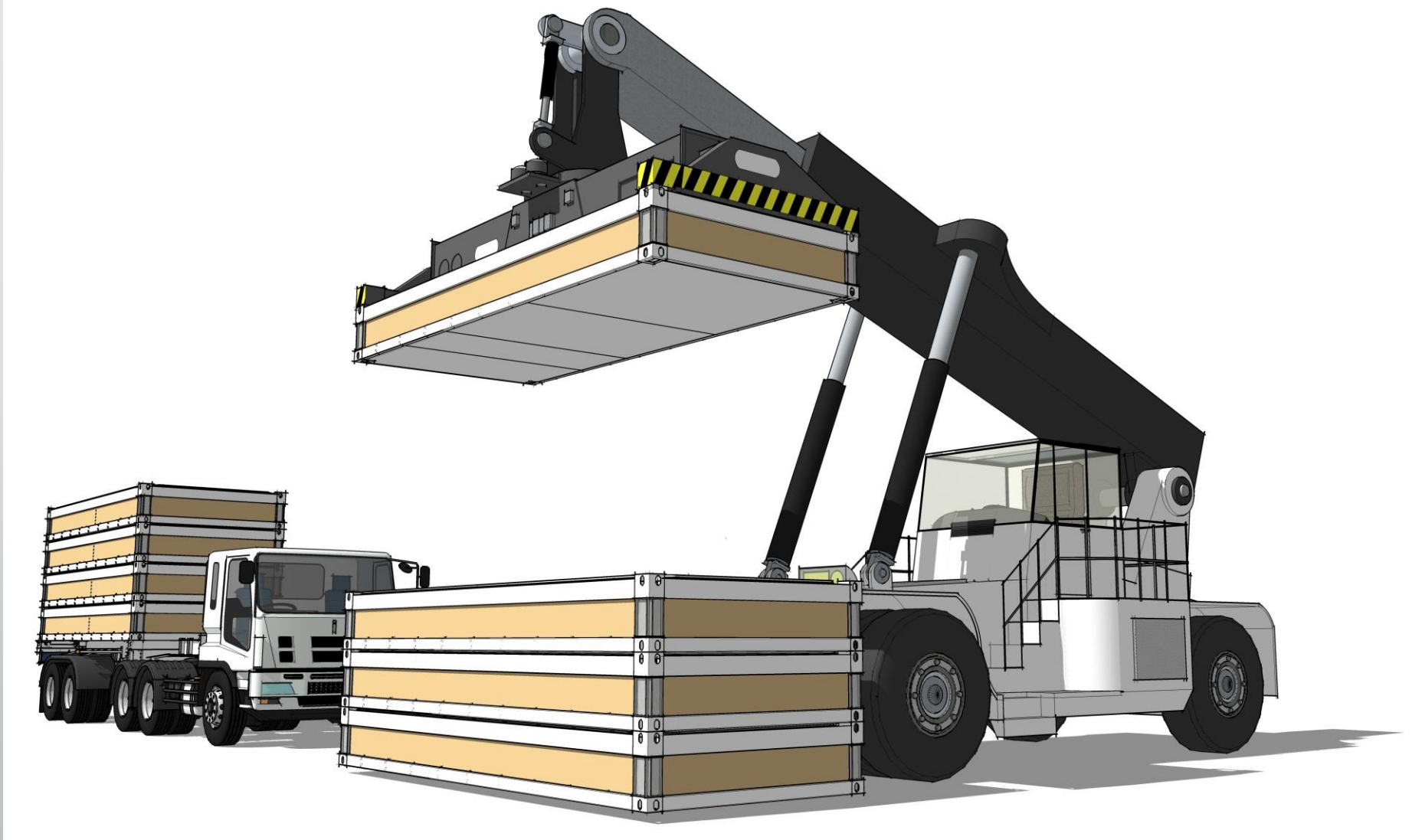
Do not handle the bundle with forklift truck or side **stacker**



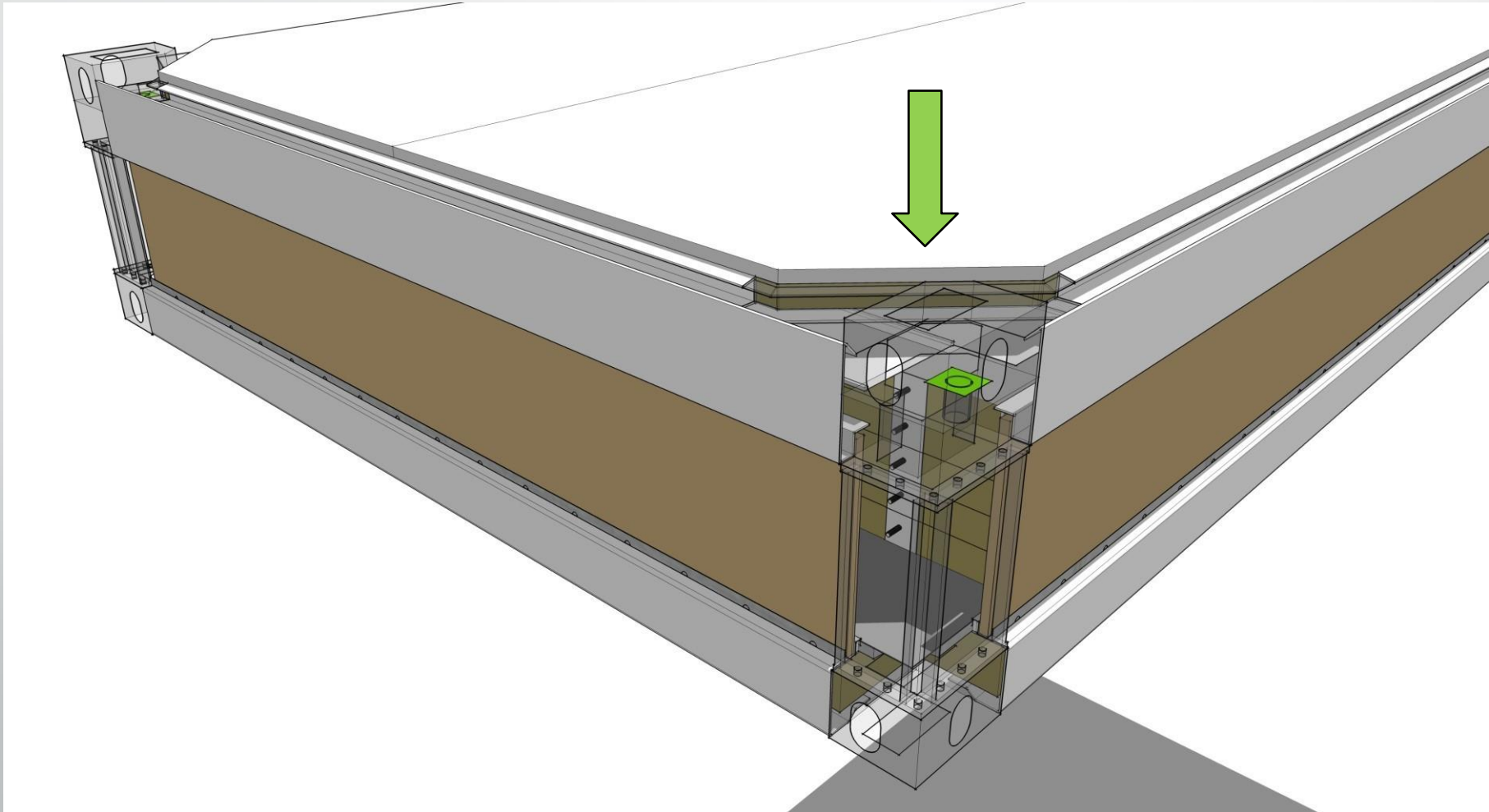
Remove all the screws locking the corner castings of the kit



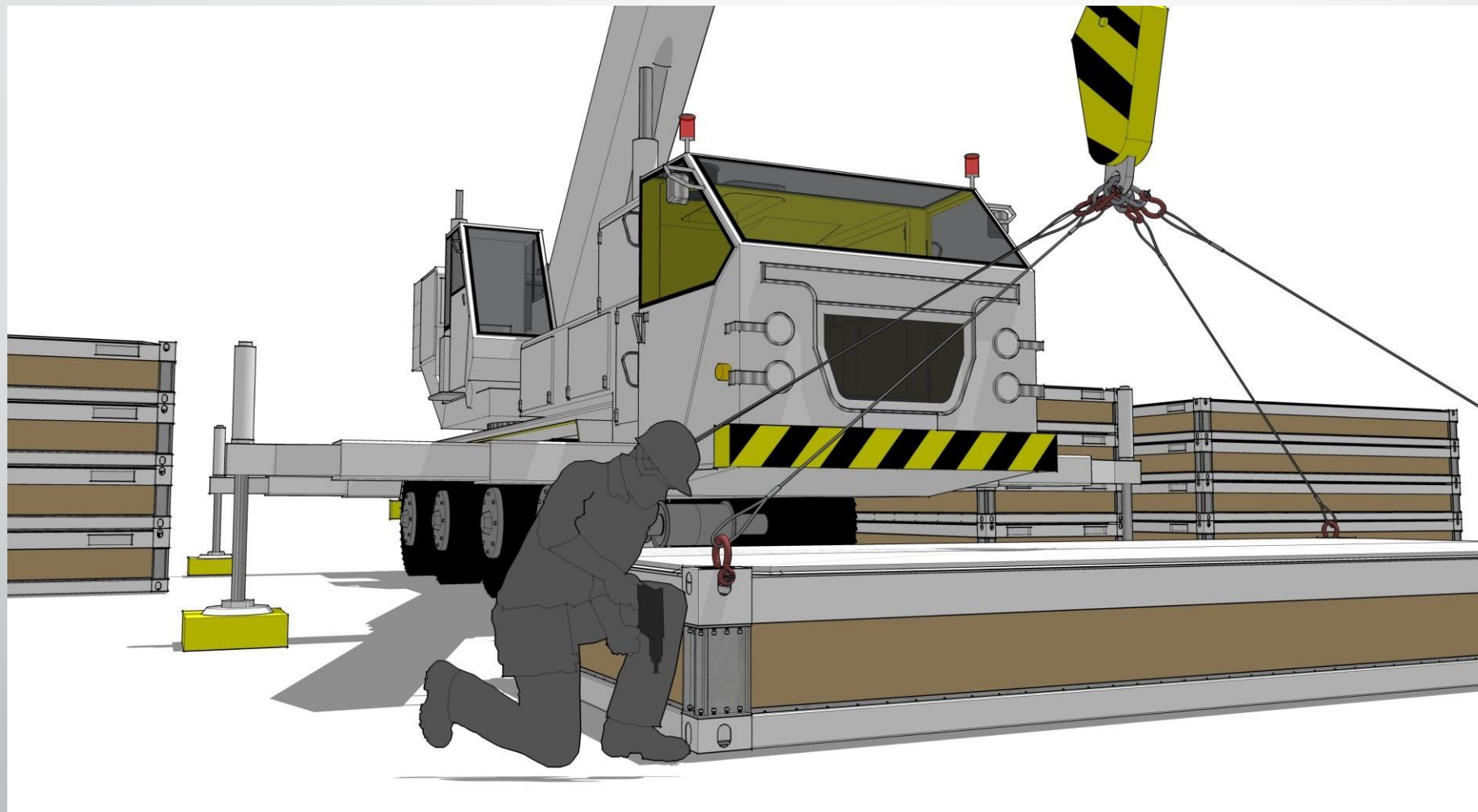
Do not lift more than 1 kit at a time



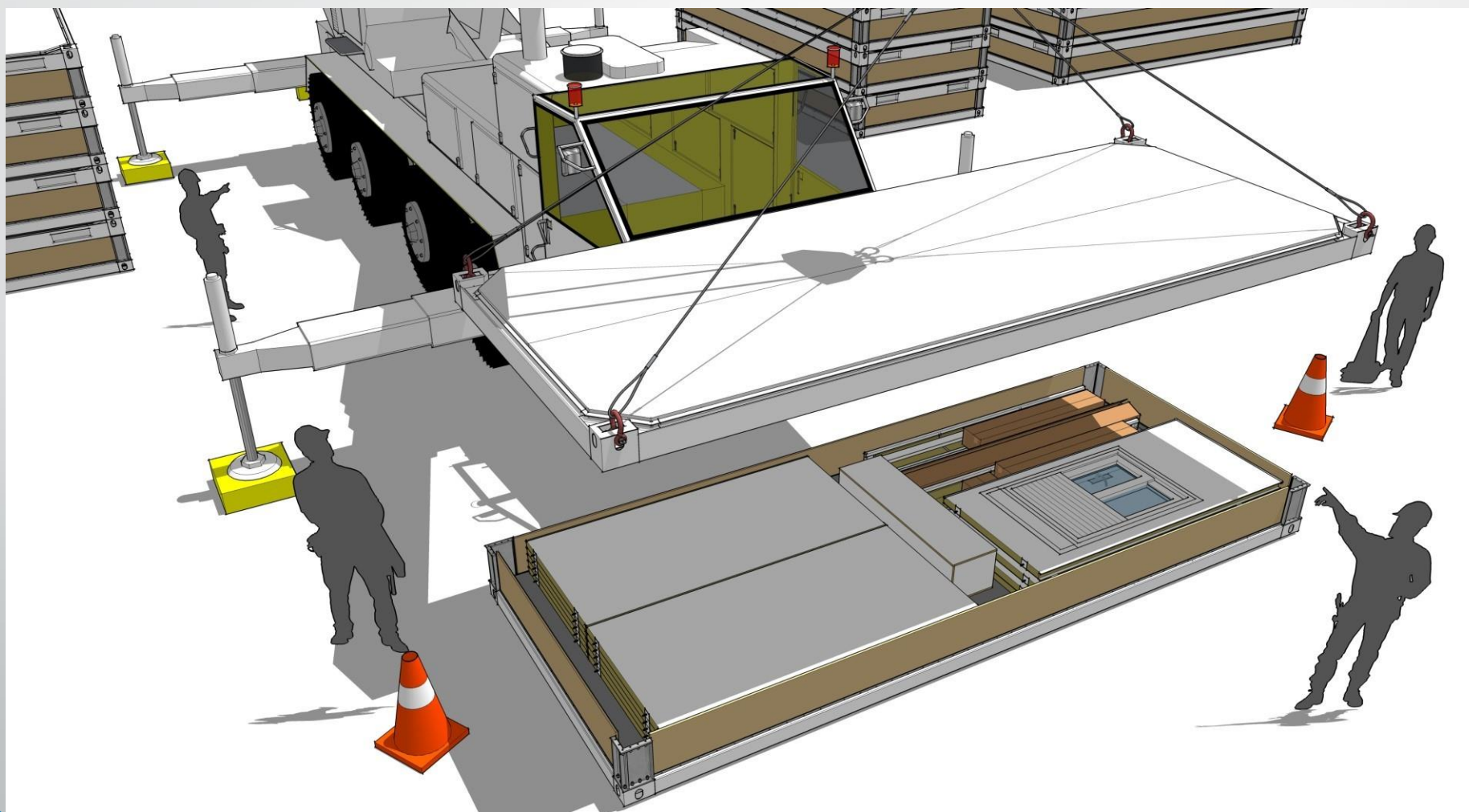
***Remove the caps sealing the
hole of the roof drain pipes***



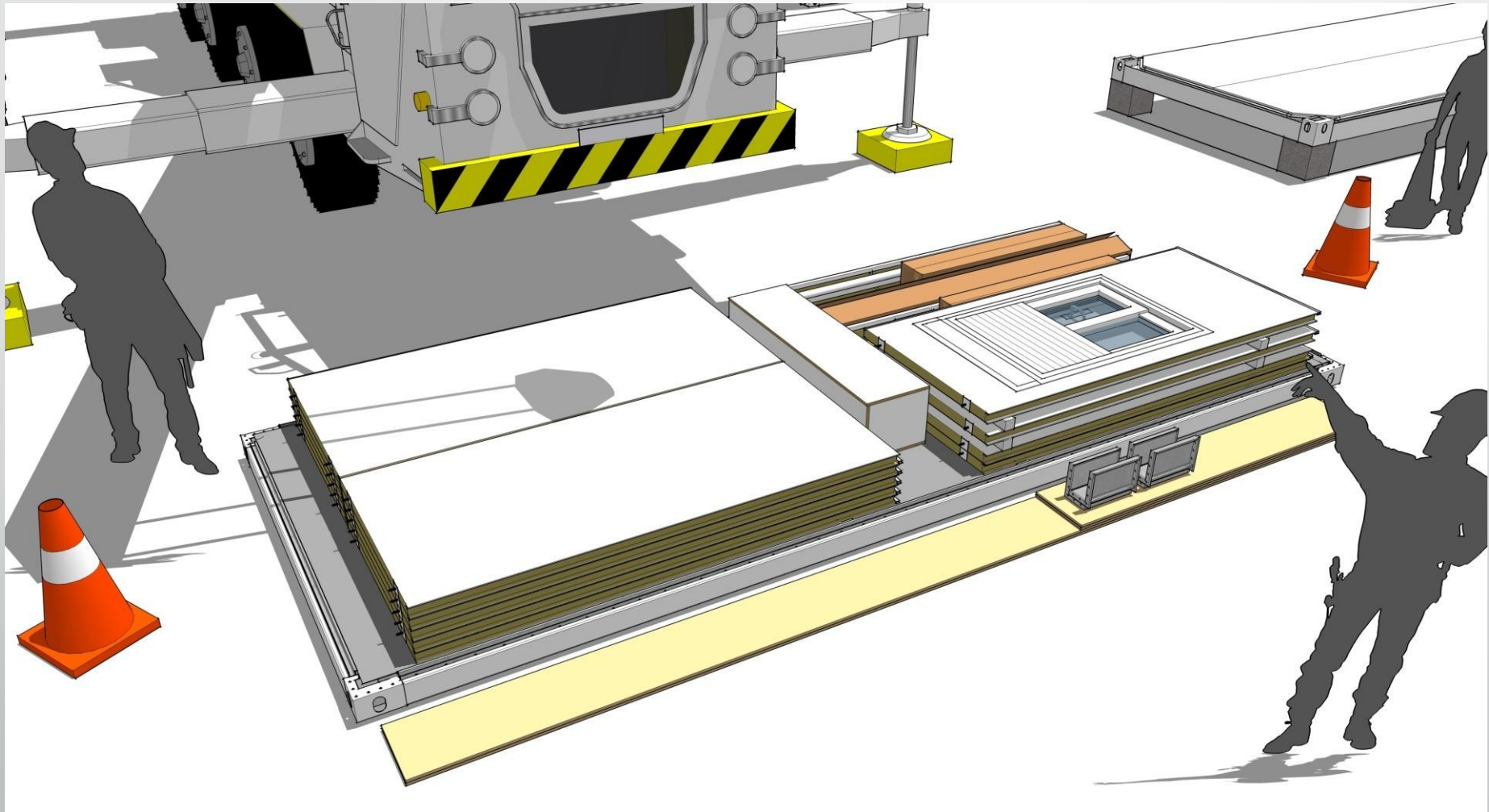
Remove the screws locking the bundling columns



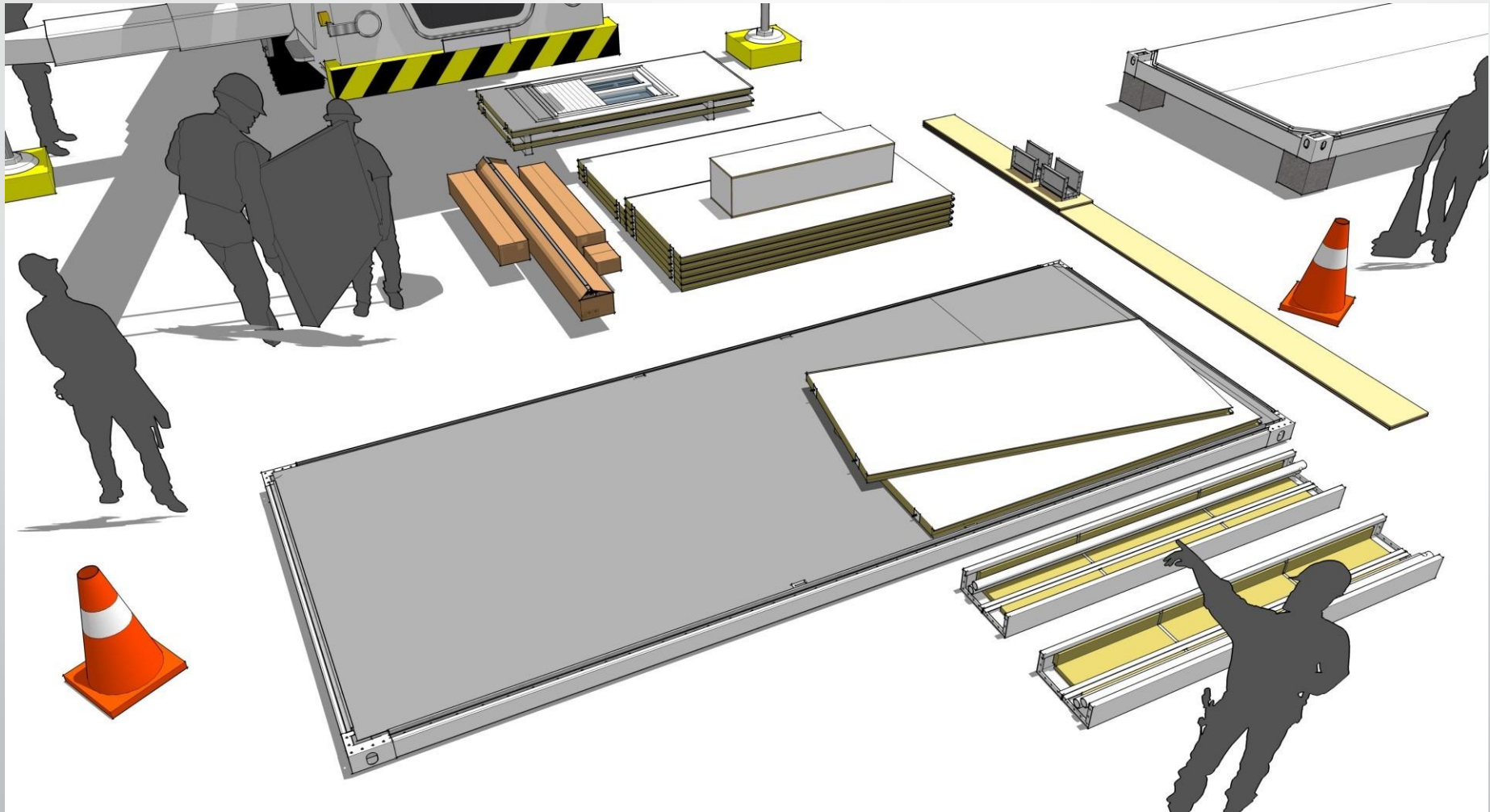
***Lift the roof through the holes
of the corner castings***



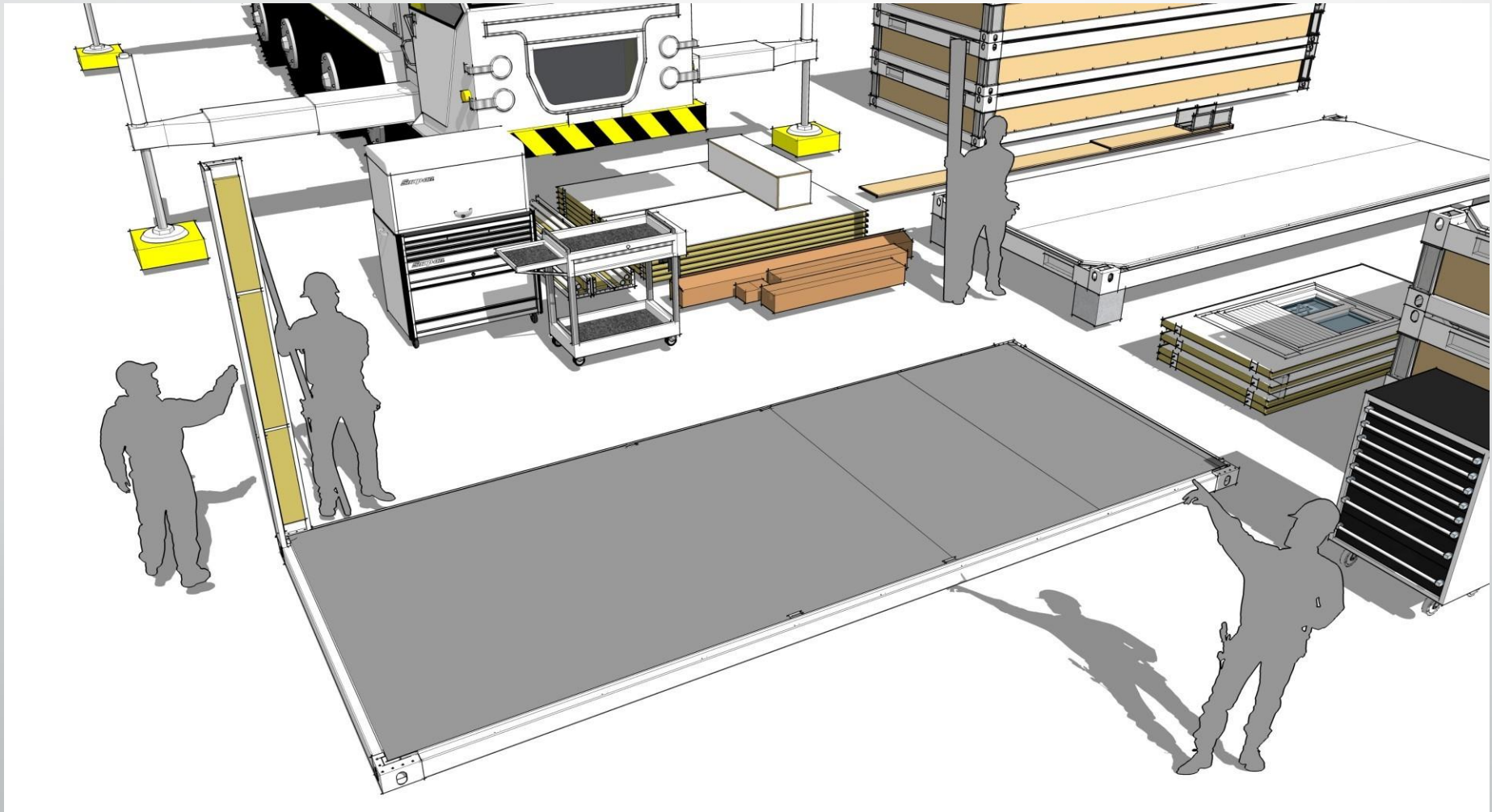
The kit contains all necessary components for a proper assembly



***Remove all the components
from the base***



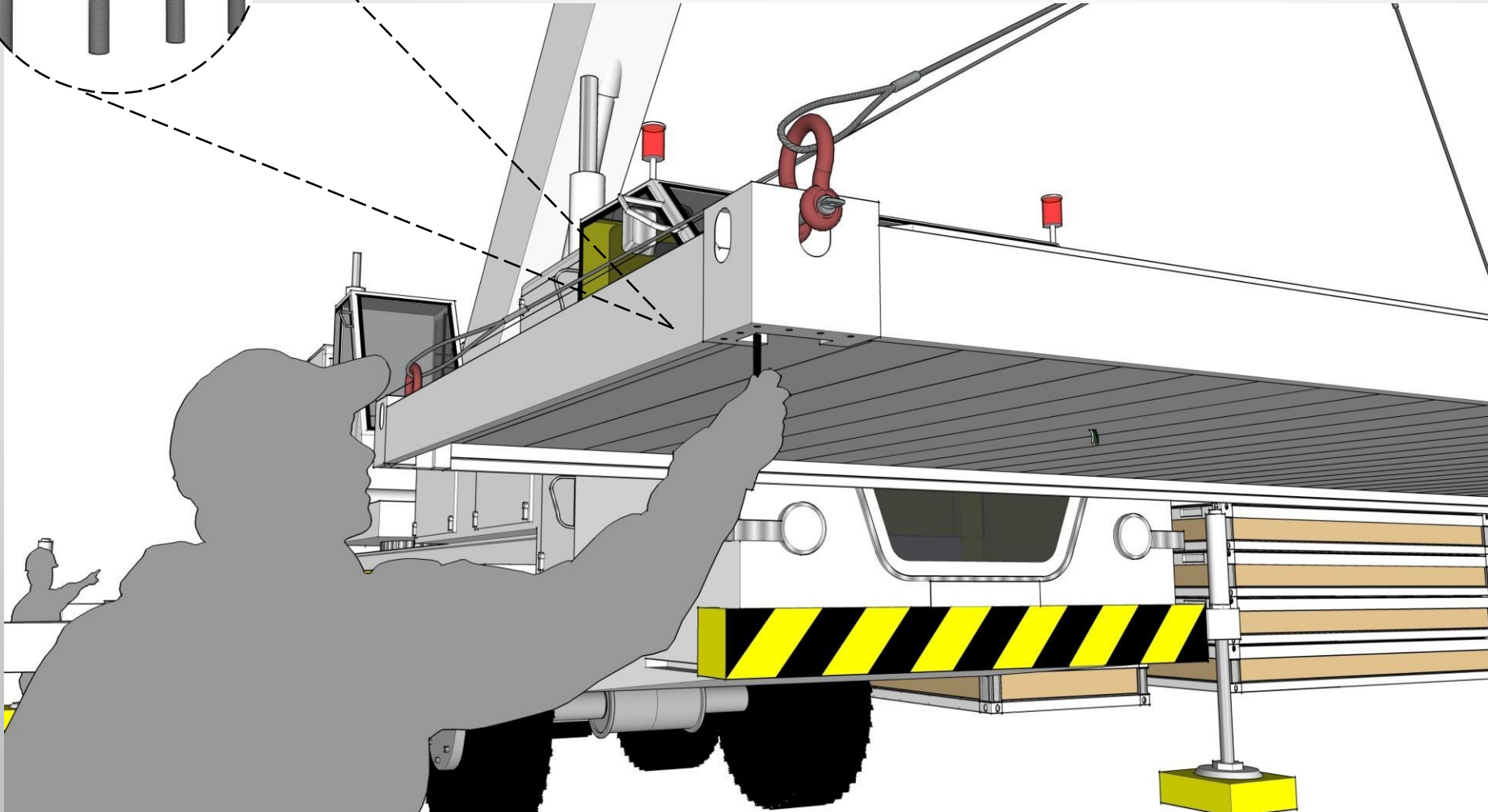
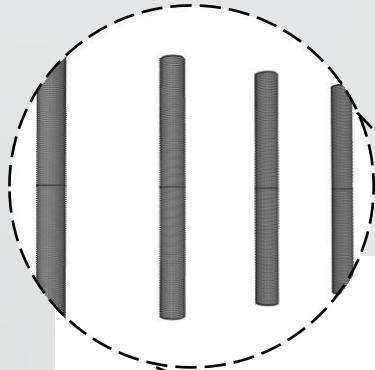
Position the corner posts



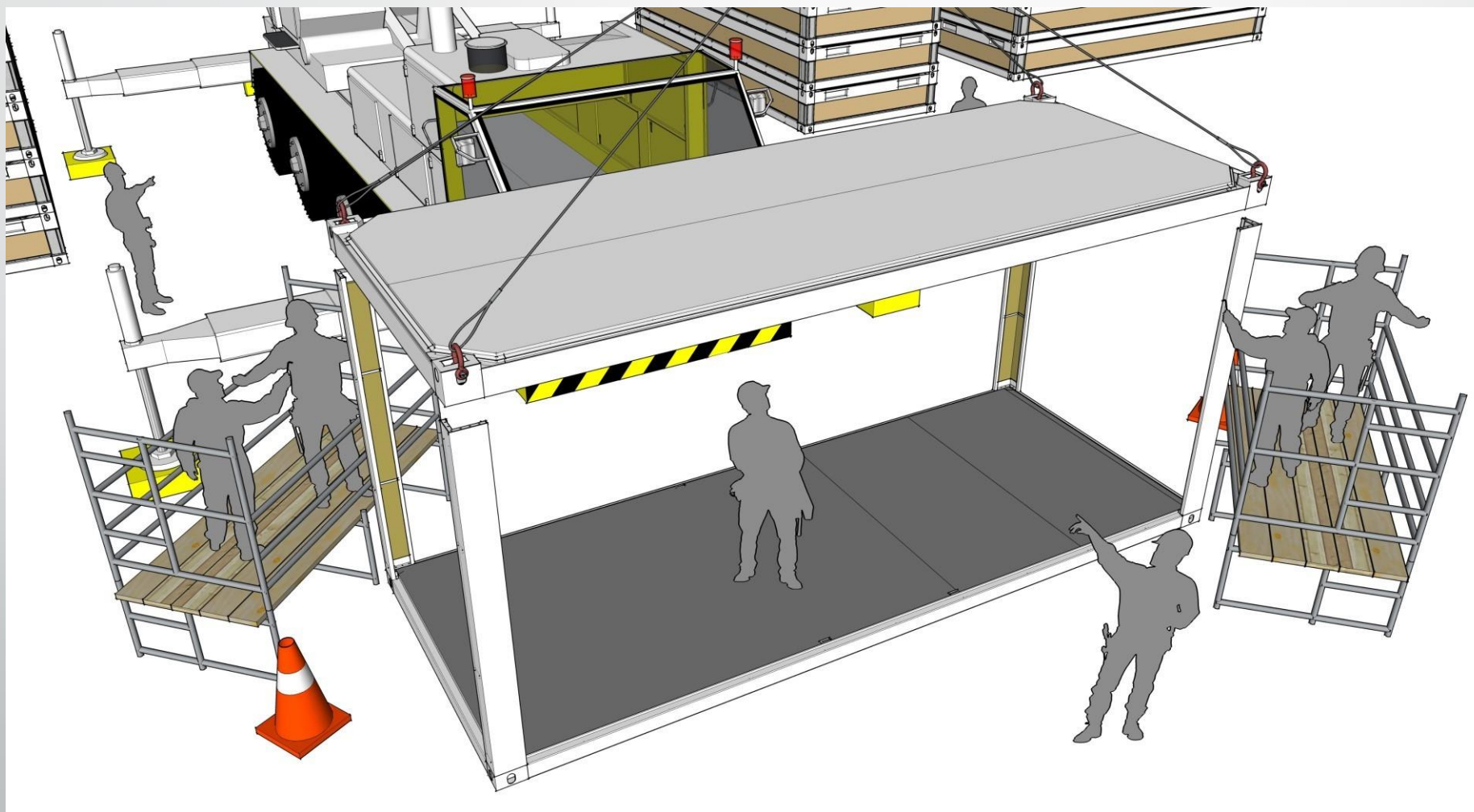
Fix the corner post by using M12 x 40 screws. Keep it loose to allow adjustment when installing the roof



Insert 4 threaded pins, one on each corner of roof frame – this is for easy corner posts to roof frame installation



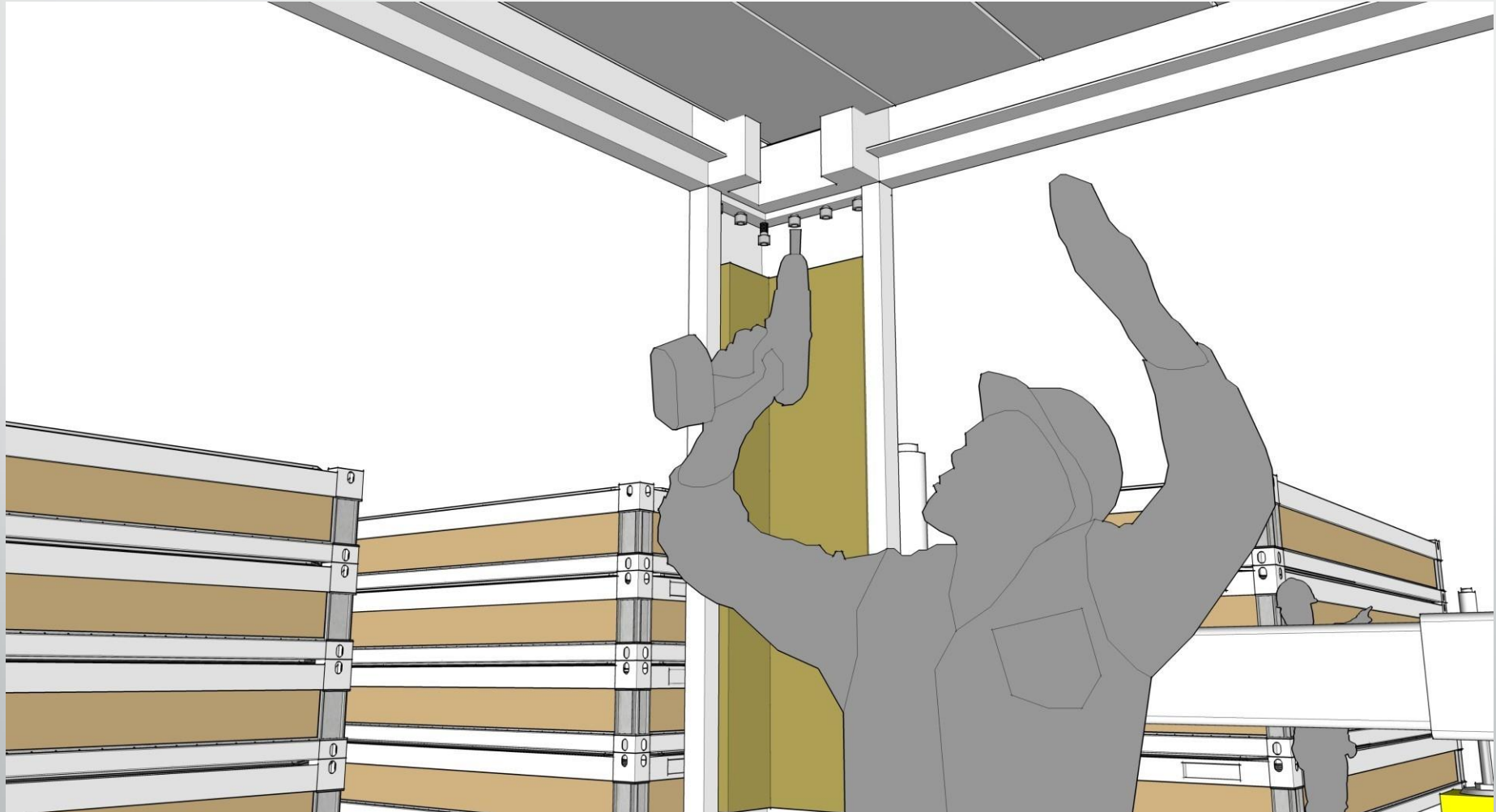
Position the roof frame



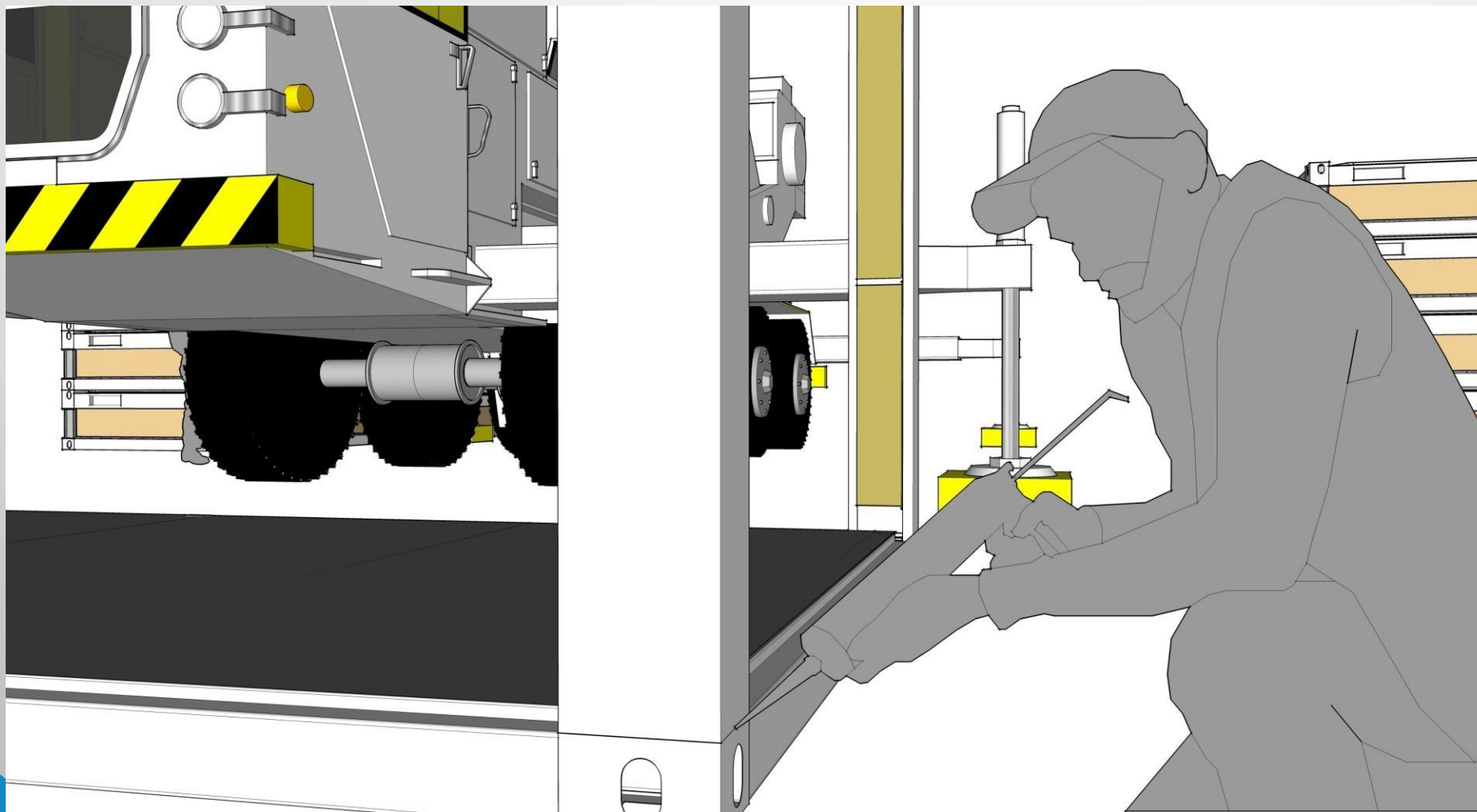
***Once the roof frame is set, tighten
the nut of the threaded pins***



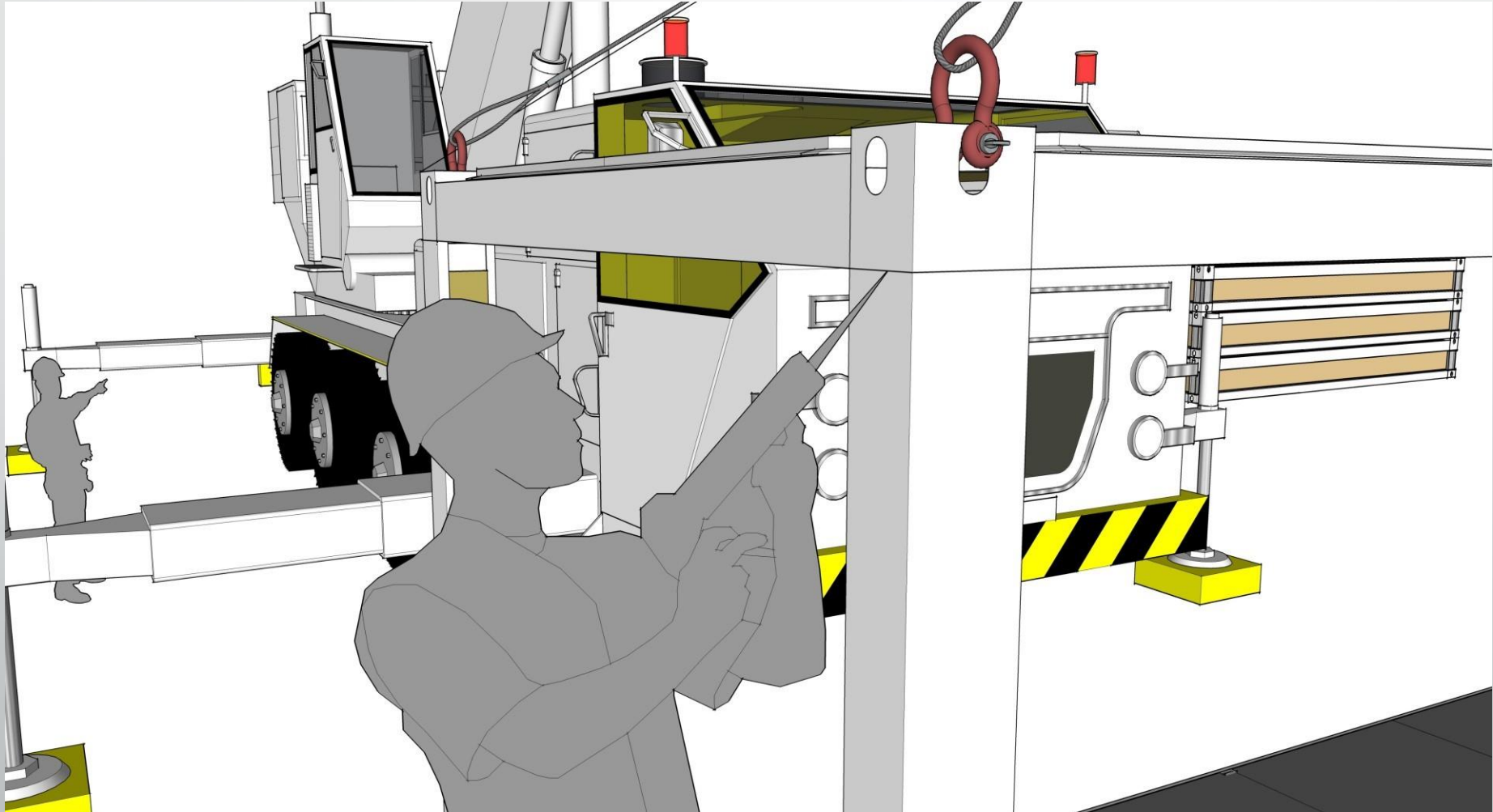
***Tighten all screws on all 4
corner posts***



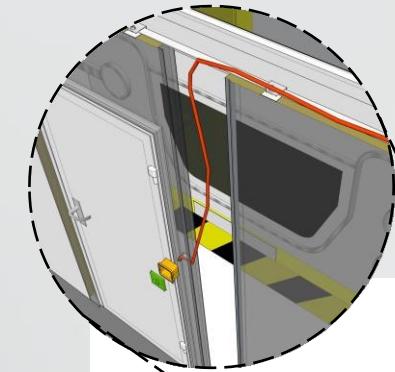
***Seal the bottom joints between
the floor frame and corner
posts with silicon***



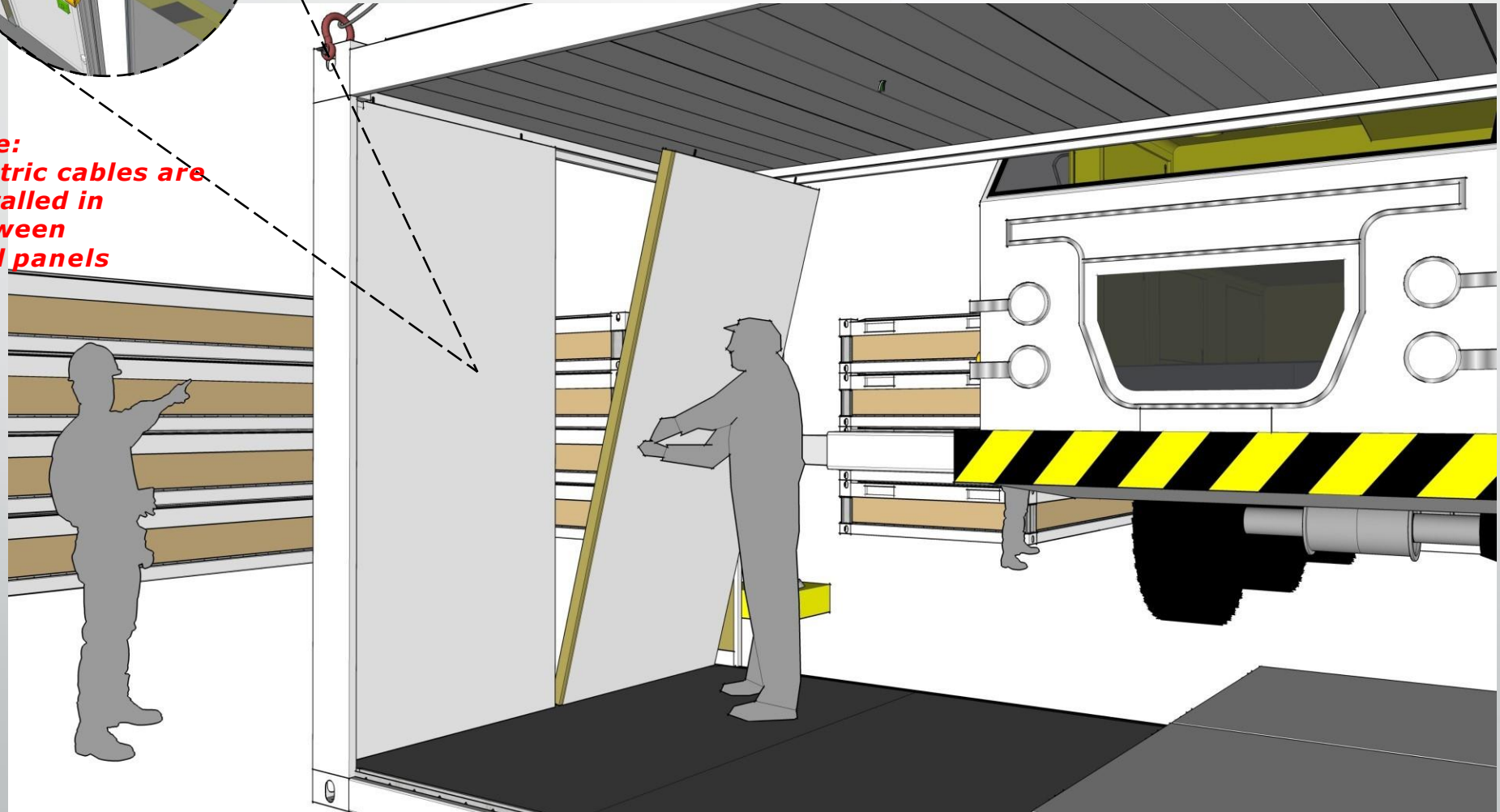
Seal the top joints between the roof frame and corner posts with silicon



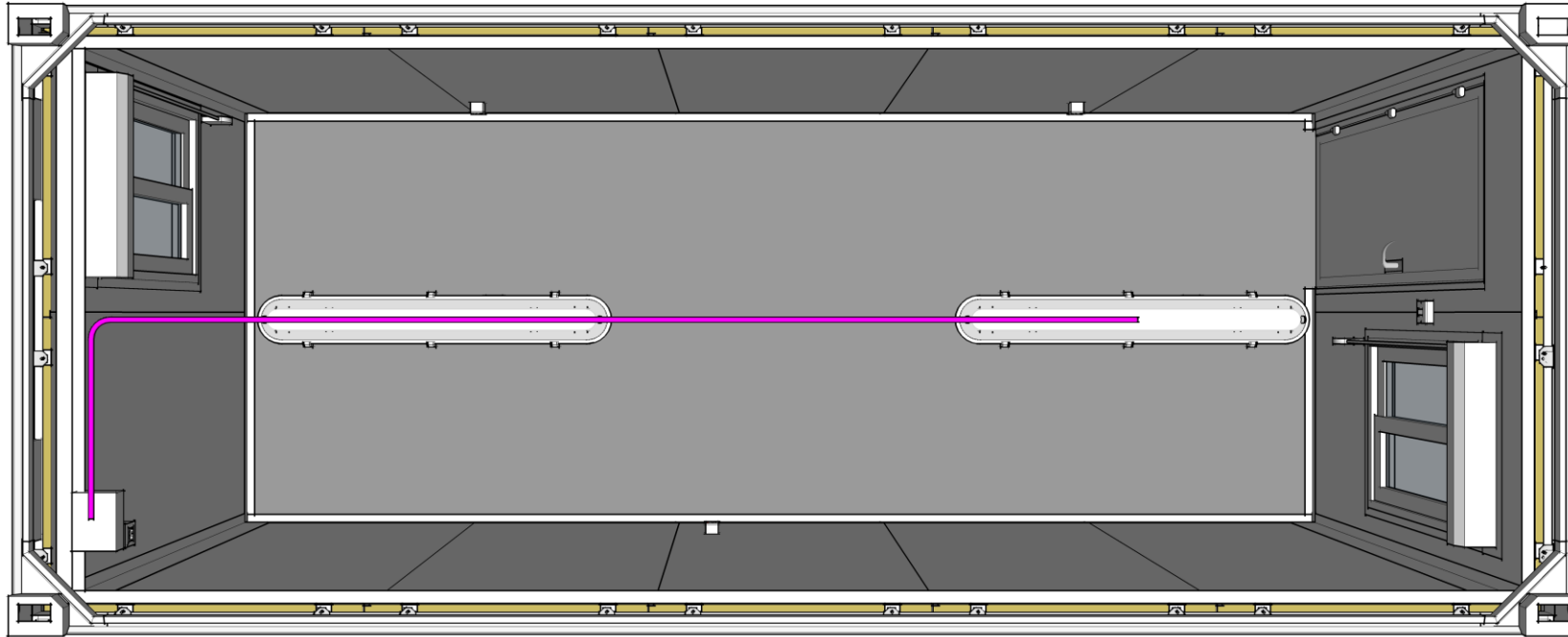
Install panels, door/s and window/s
as per approved drawings



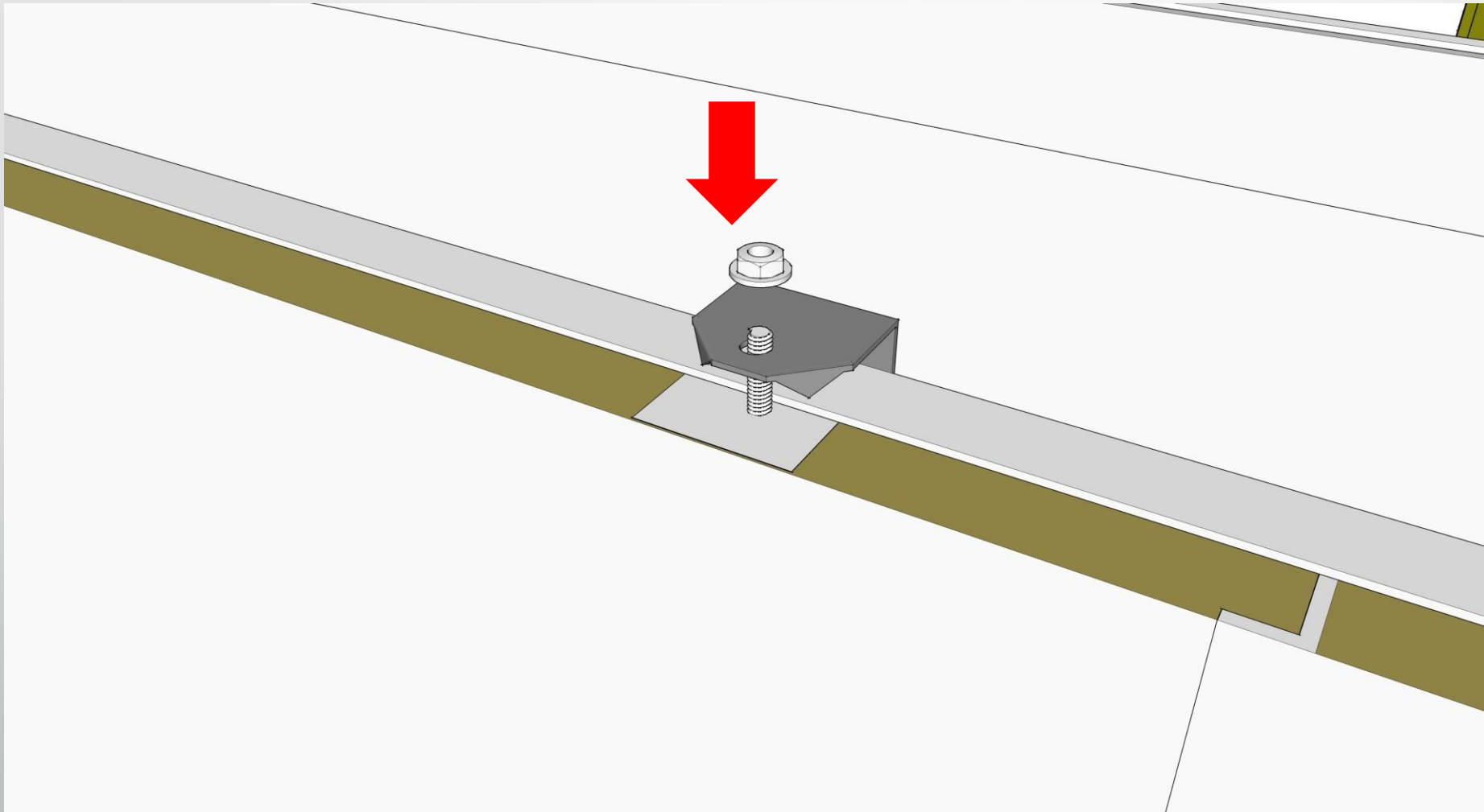
Note:
Electric cables are
Installed in
between
Wall panels



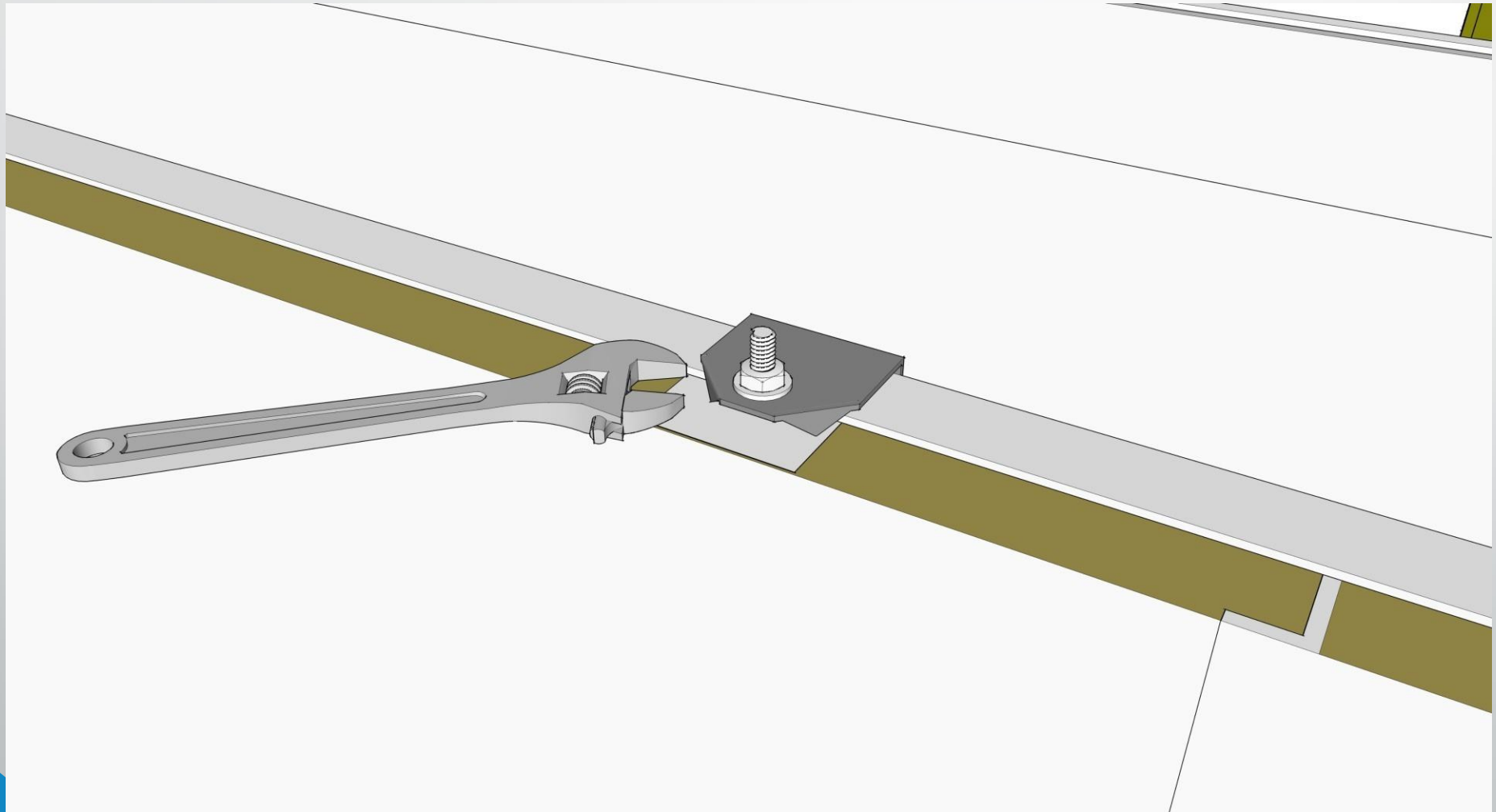
Approved layout



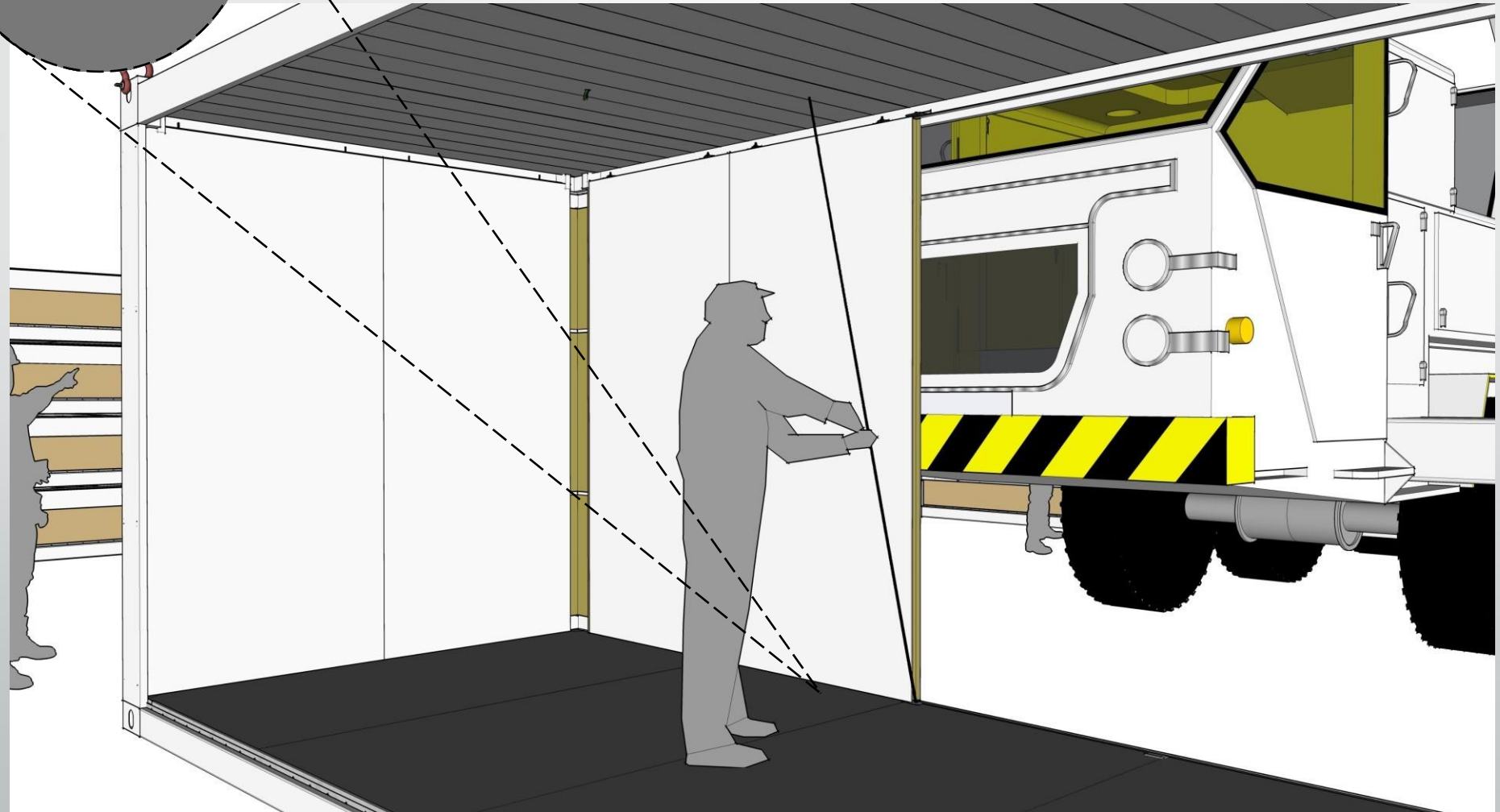
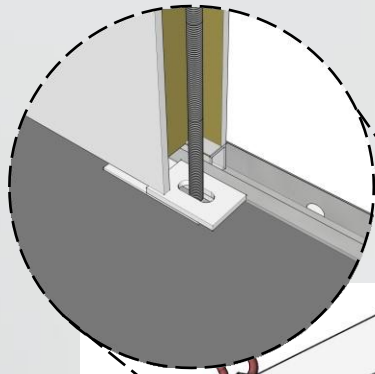
Insert the locking plates on the panel top threaded rods



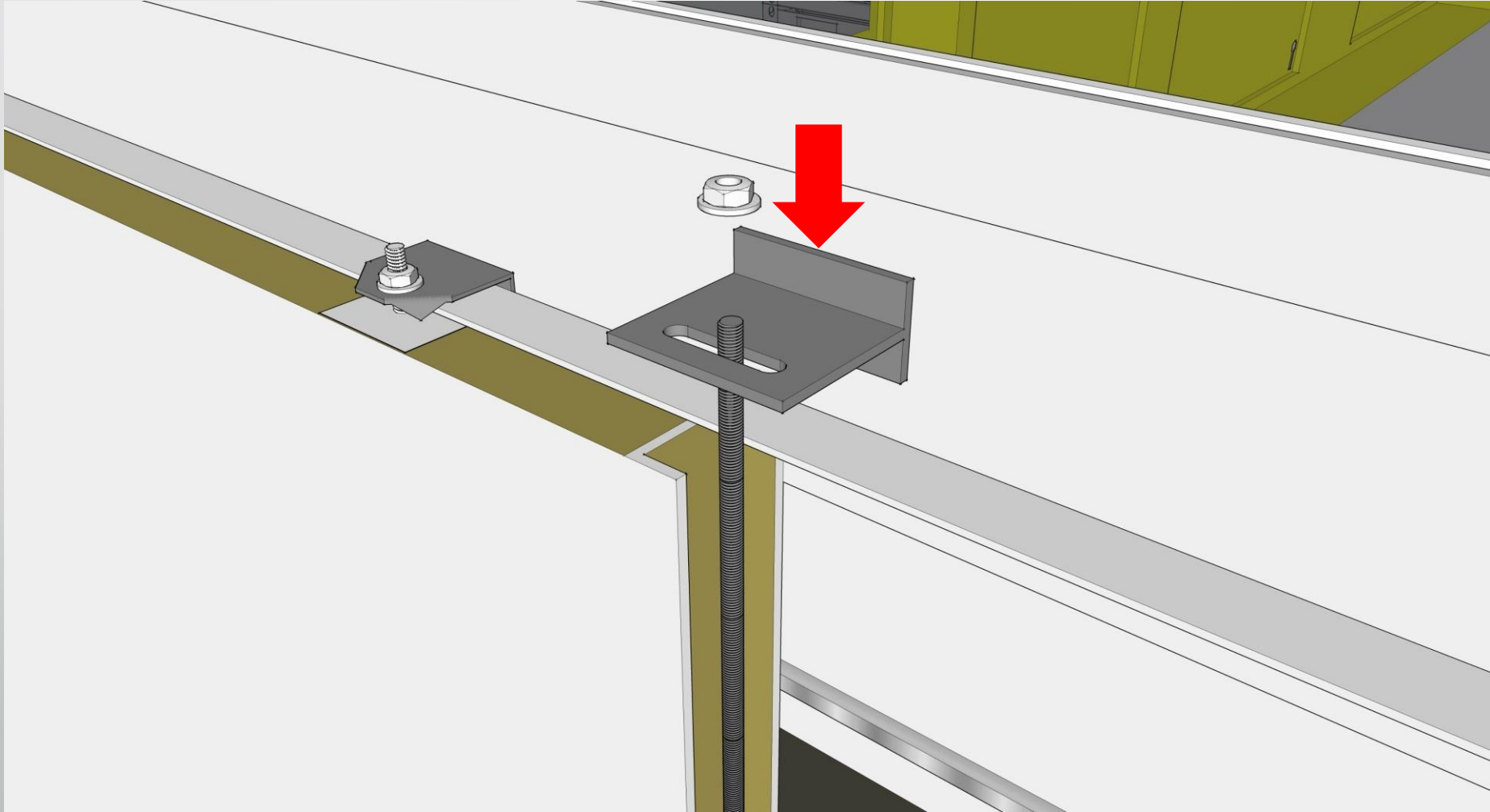
***Tighten the locking plates with
M8 bolt and washer***



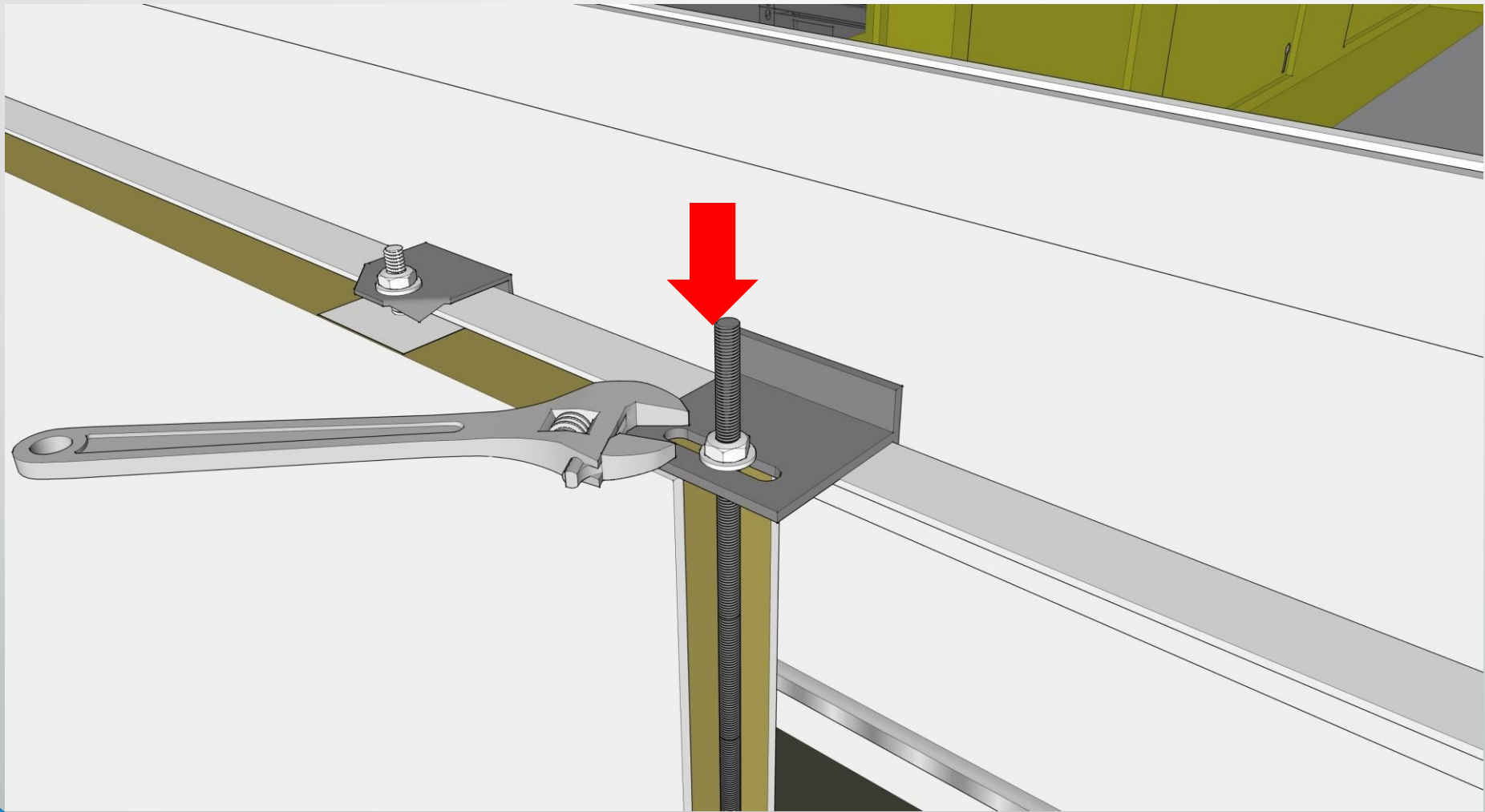
Install the M10 full threaded iron rod on the middle of the long side (location is after the 2nd and after the 3rd wall panel)



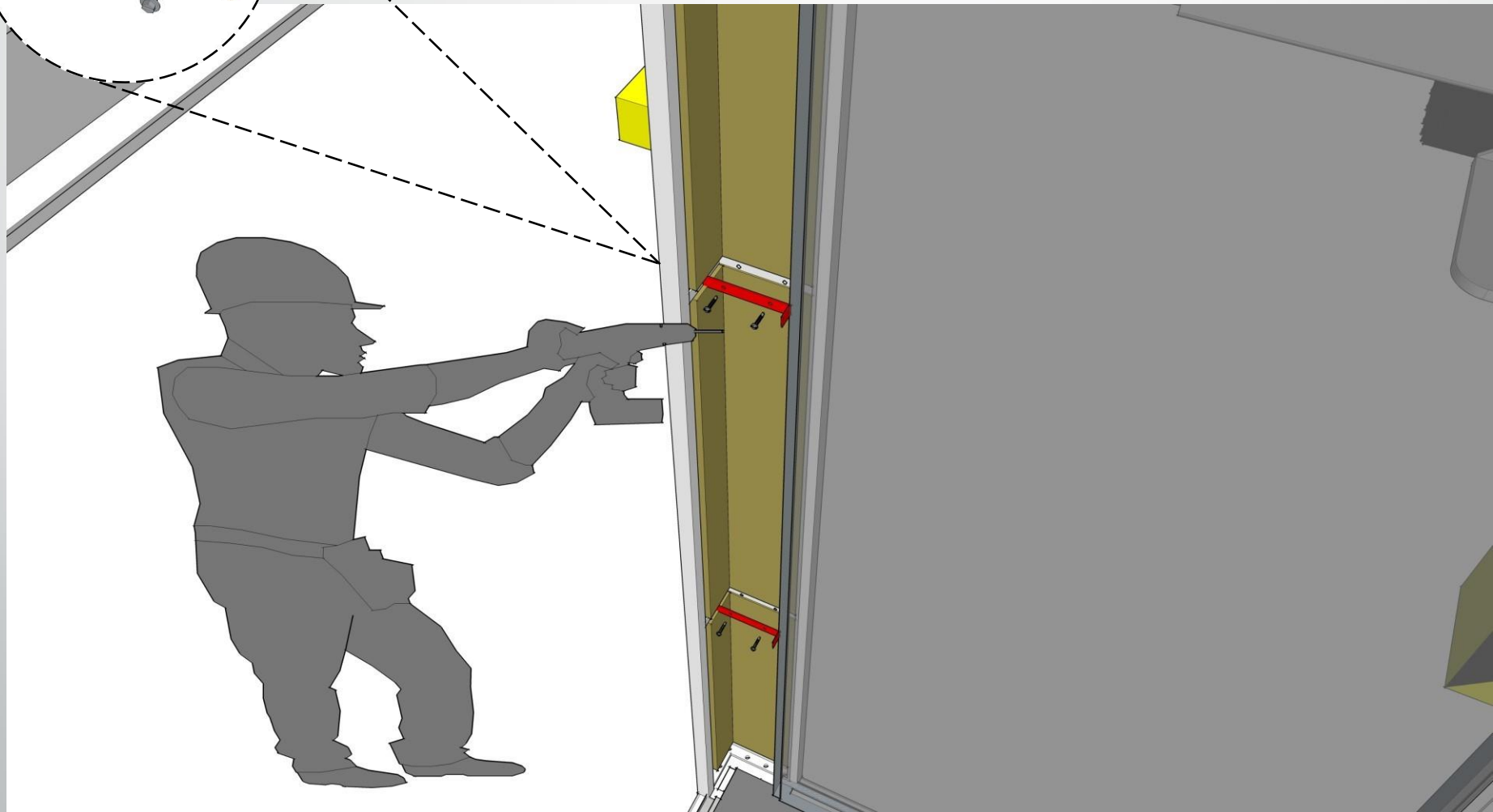
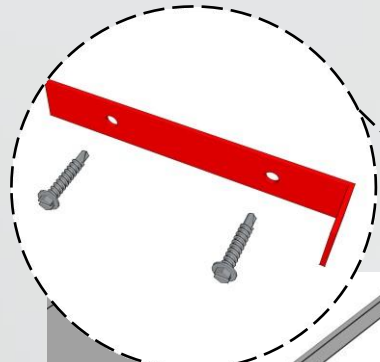
***Insert the threaded iron rod
locking plate***



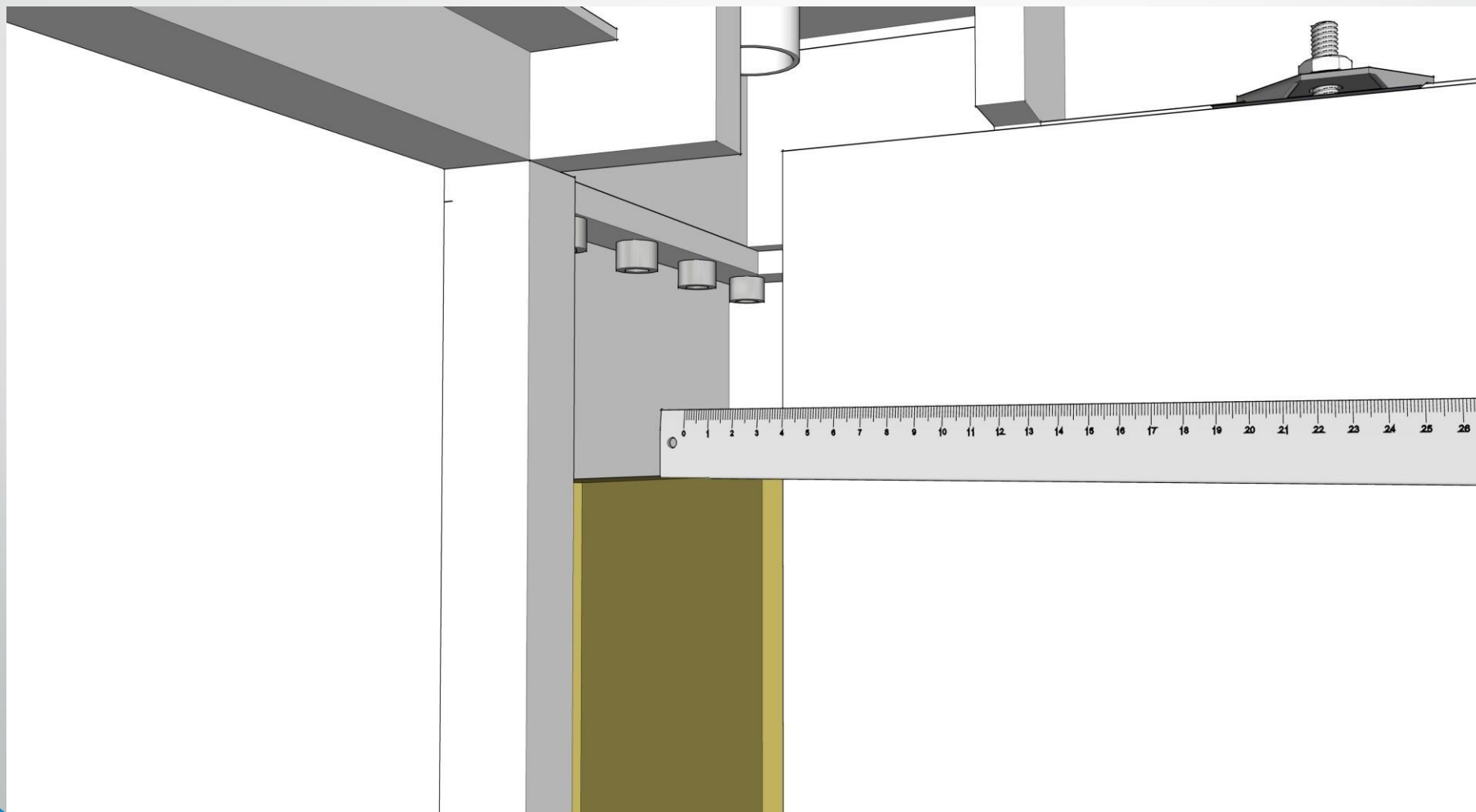
***Tighten it with M10 bolt and
washer***



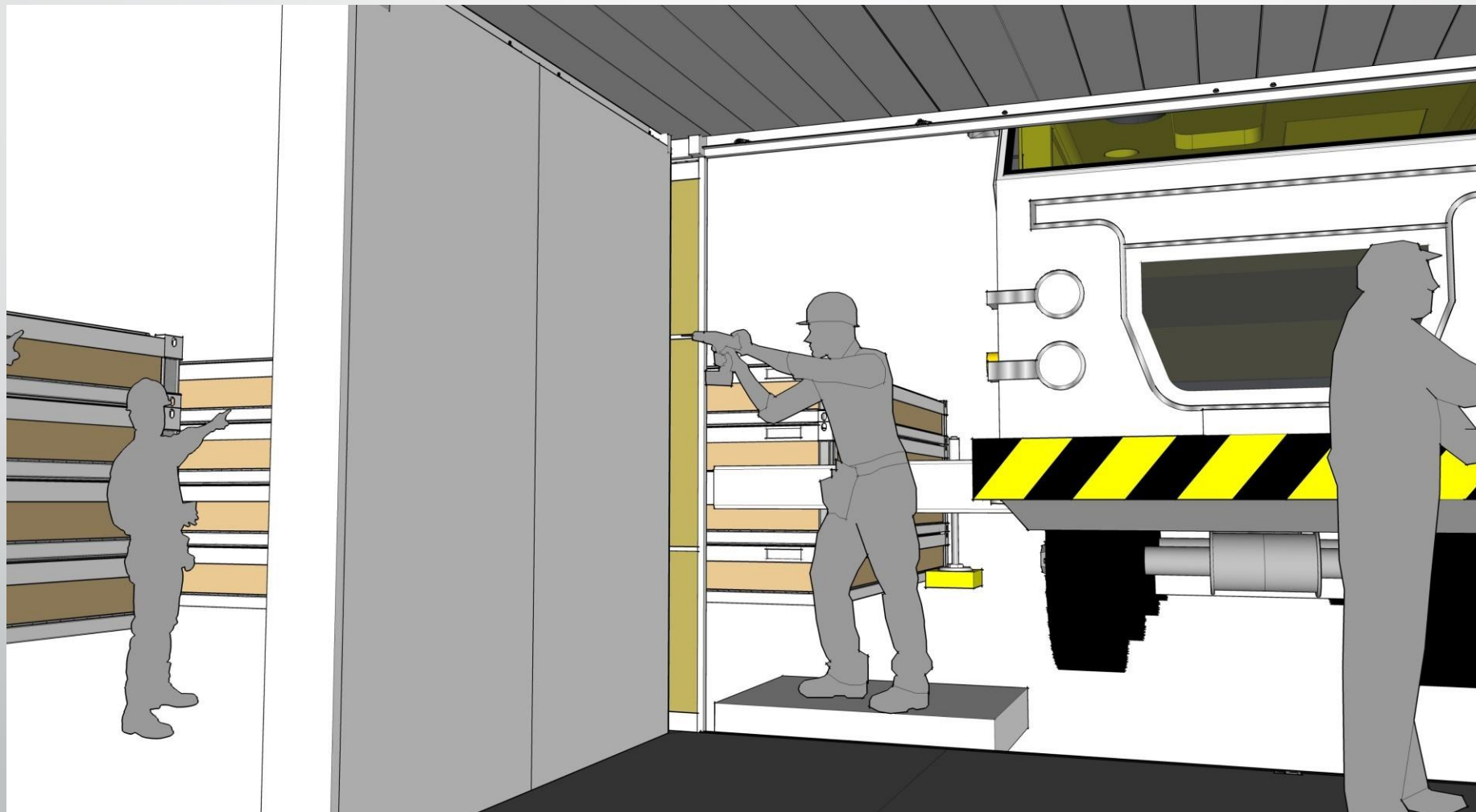
In the **long side**, fix the (L-shape) metal spacer with M4x20 screws to the corner post reinforcements to position the panel.
Distance is approx. 130 mm



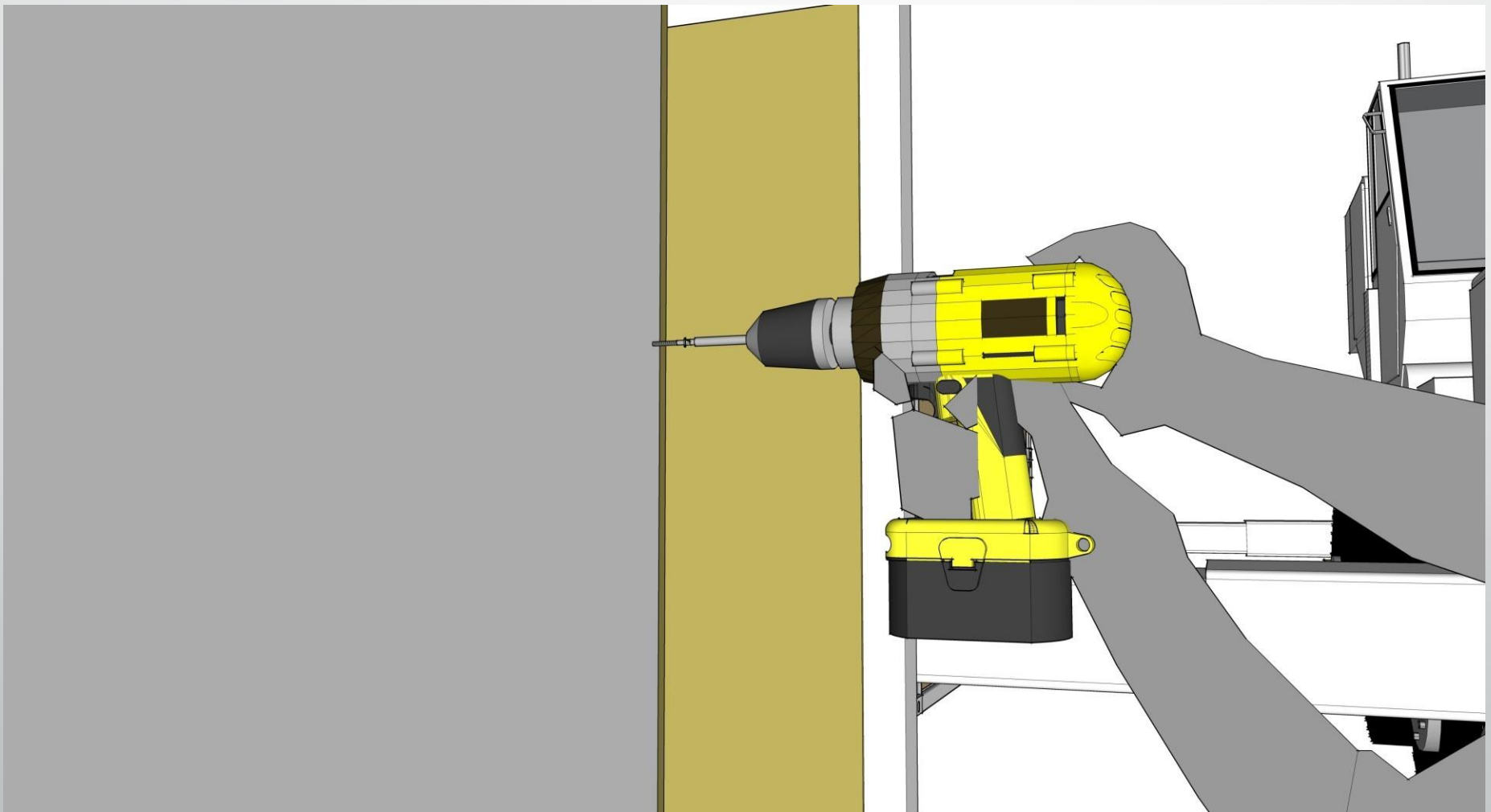
**In *short side*, position the panel
40 mm from the corner post**



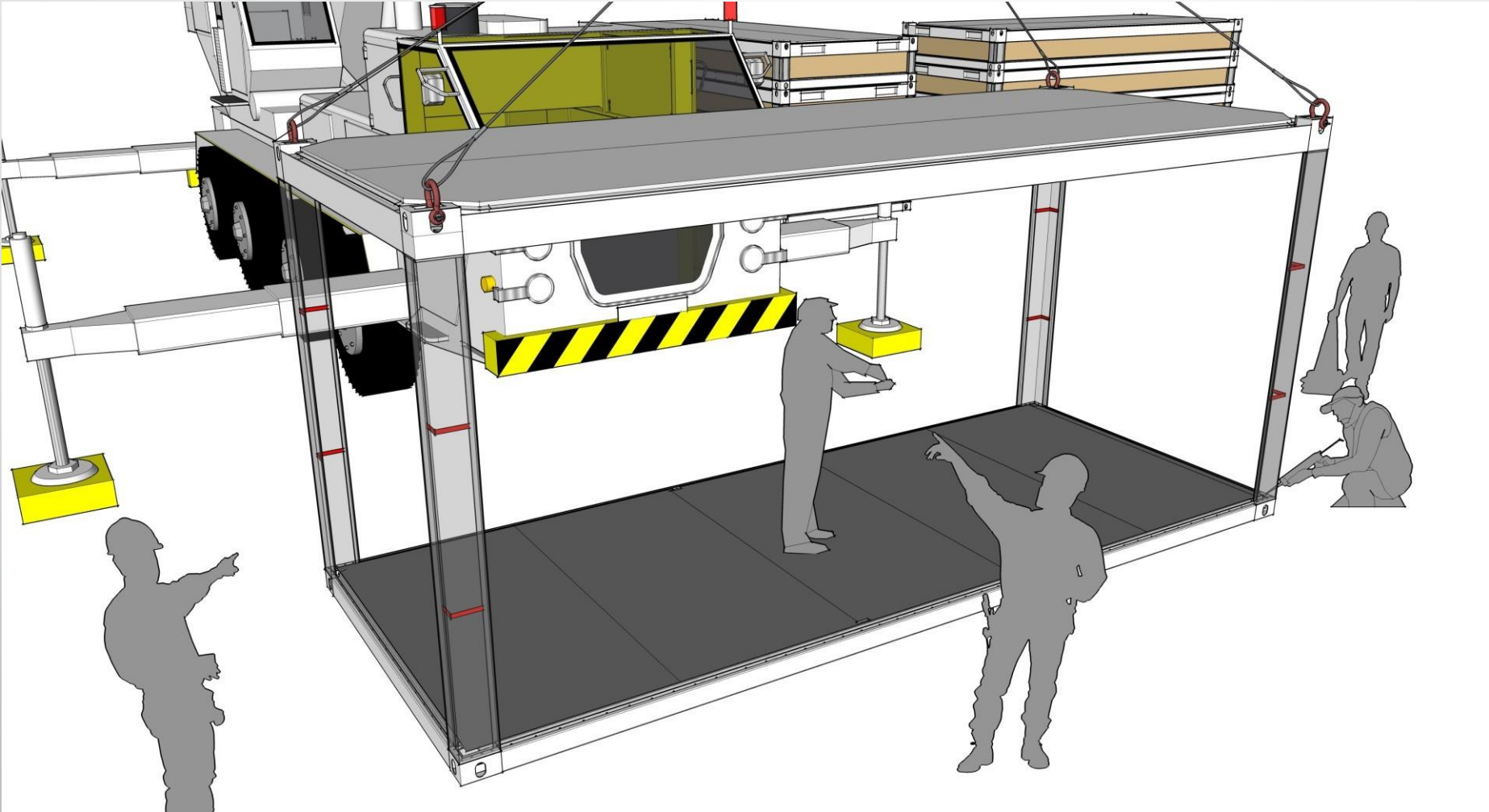
***Drill a 5cm hole in the corner
post reinforcements***



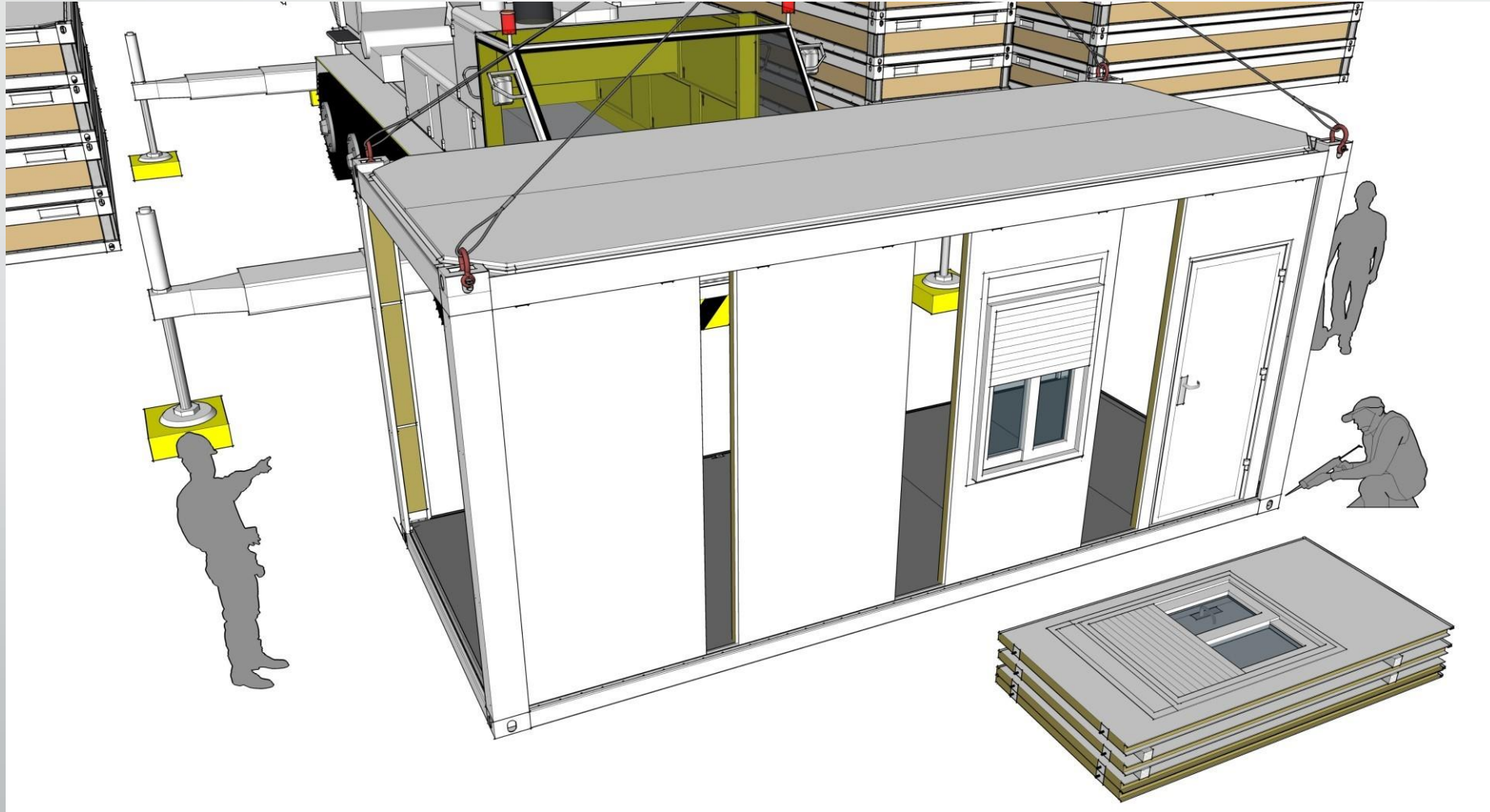
***Fix the end panels with 90mm
long screws***



**Location of corner post
reinforcements**



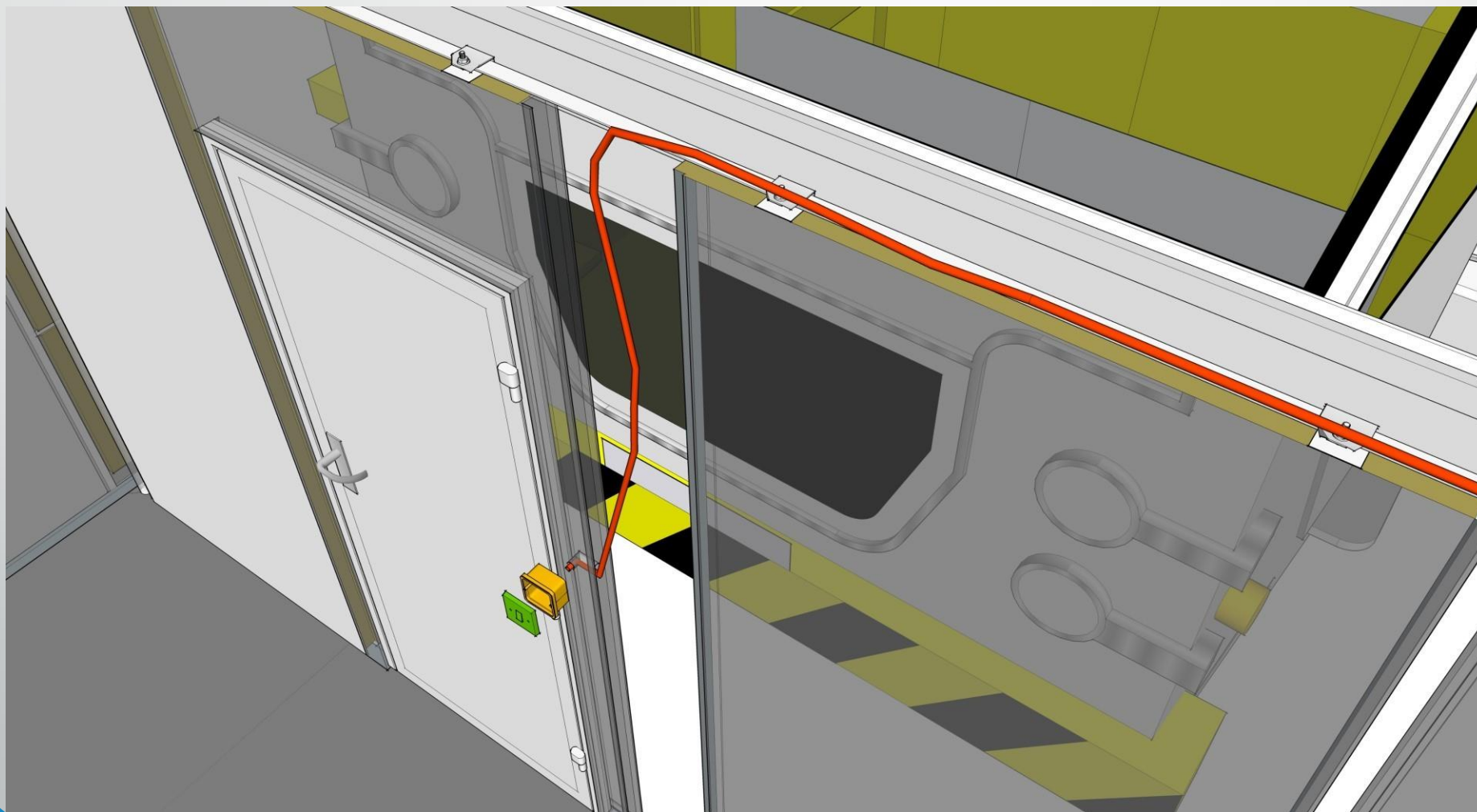
***Wall panels are interchangeable,
however, this will affect the
position of sockets and switches
and length of electric cables***



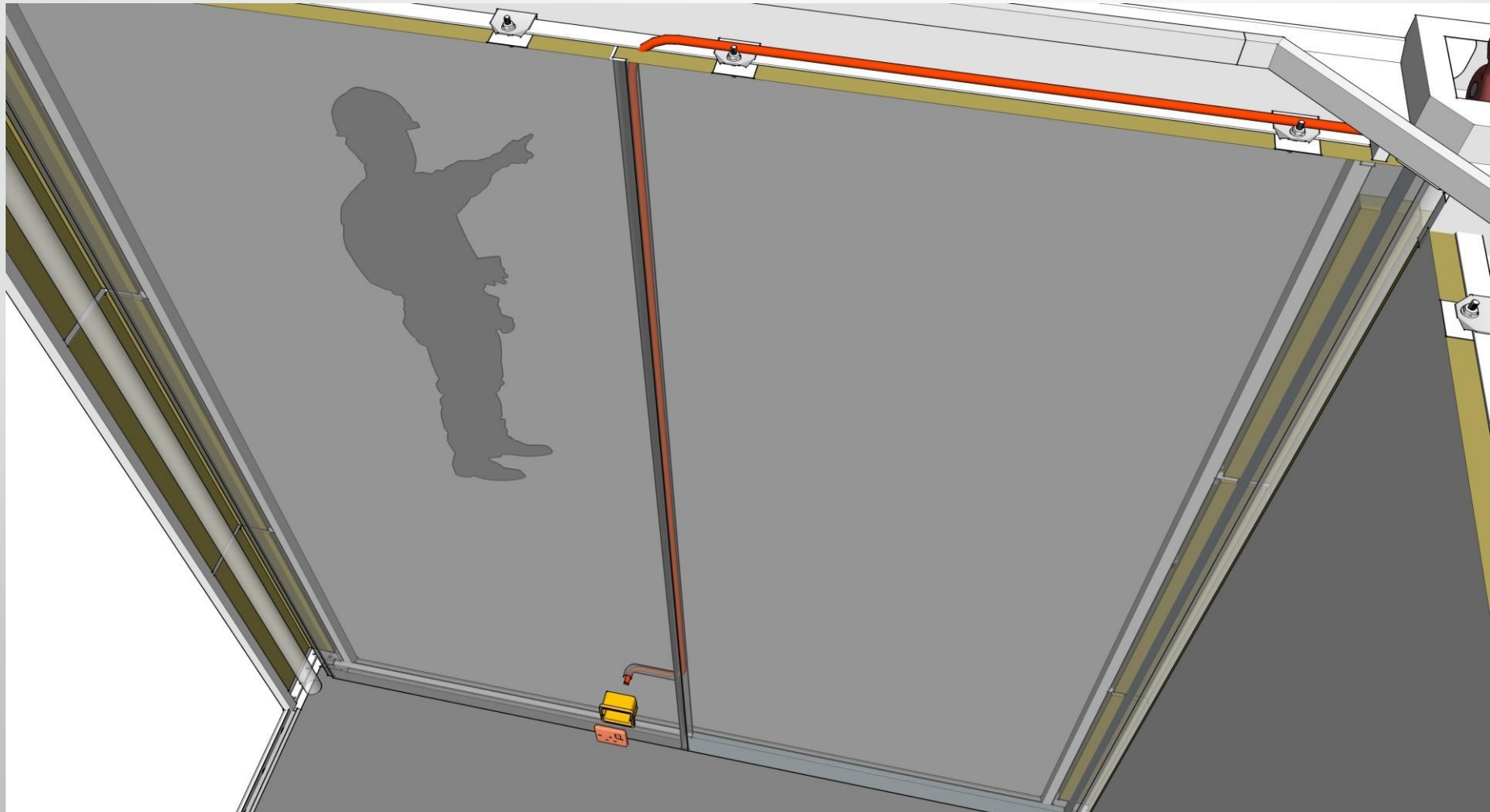
***Fit the PVC drain pipes on 4 corners –
Insert the bottom part, then bend it
a little and push top end to upper
corner***



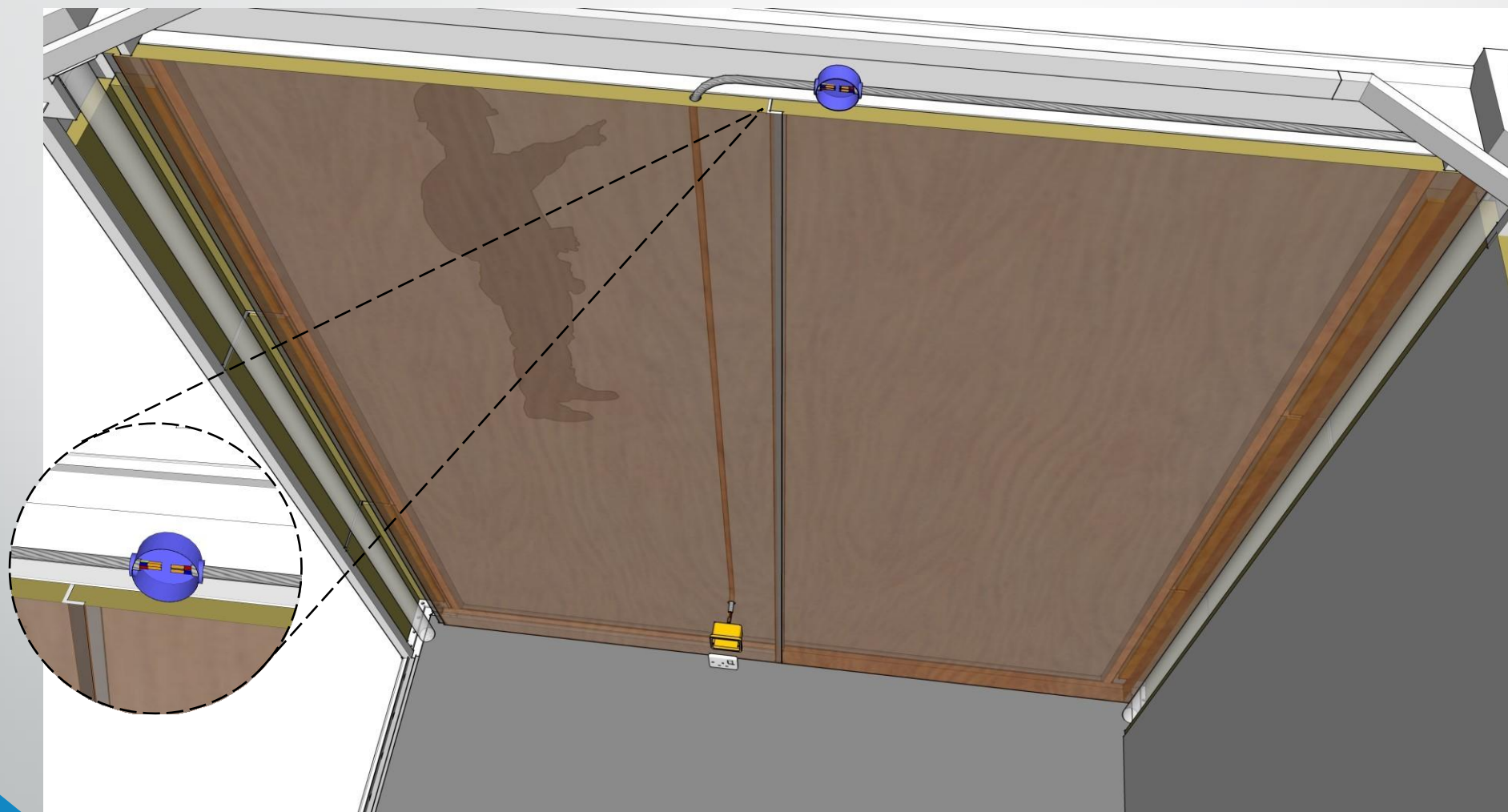
**Wiring system for units with
Sandwich mineral wool panels
Cables installed in between panels**



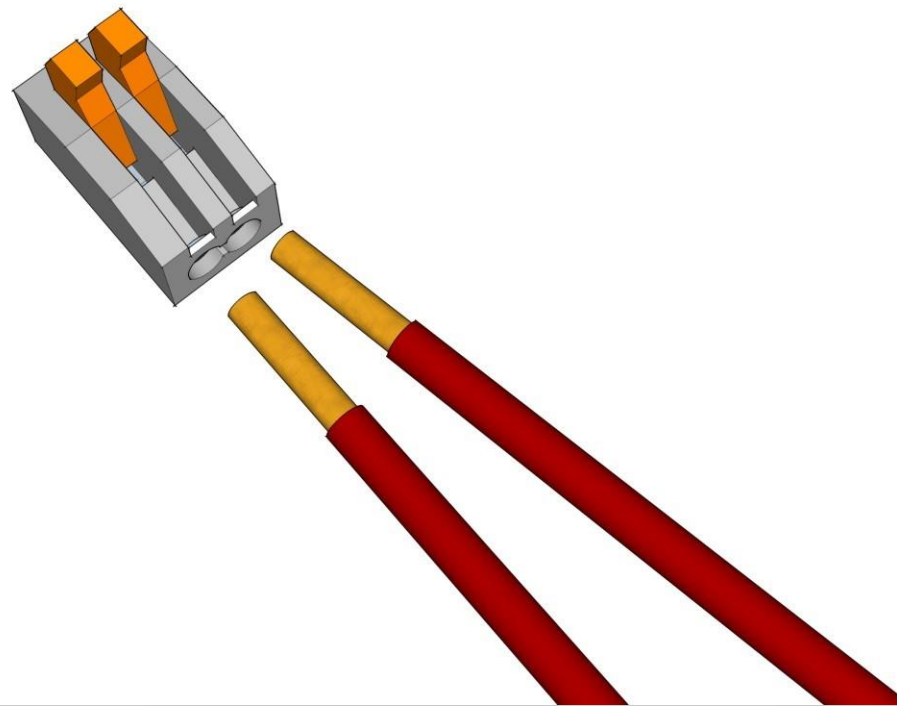
**Wiring system for units with
Sandwich mineral wool panels
Cables installed in between panels**



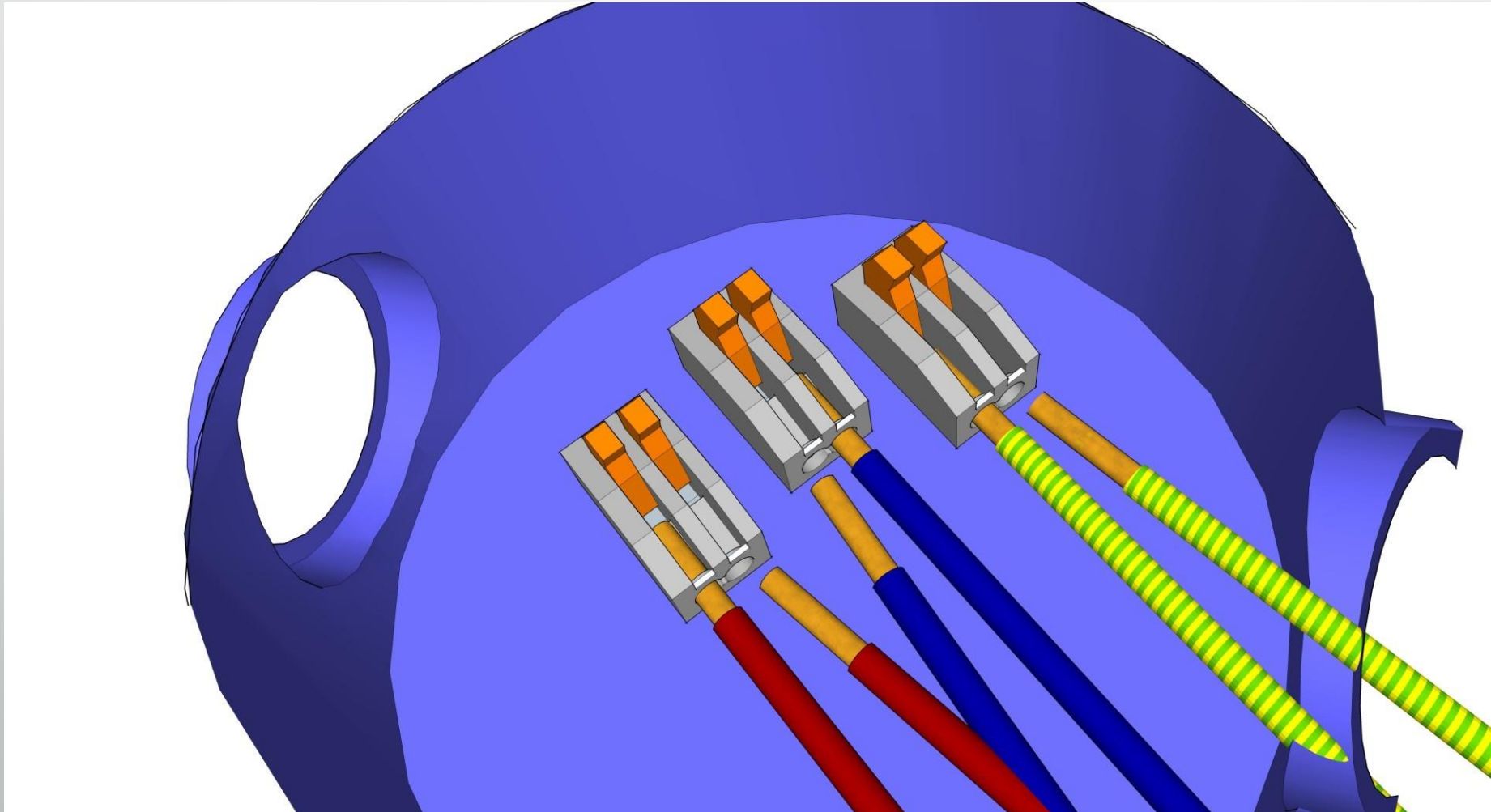
**Wiring system for units with
Chipboard panels**
Insert pre-wired conduits into junction box



**Wiring system for units with
Chipboard panels
Plug cables in the connector**



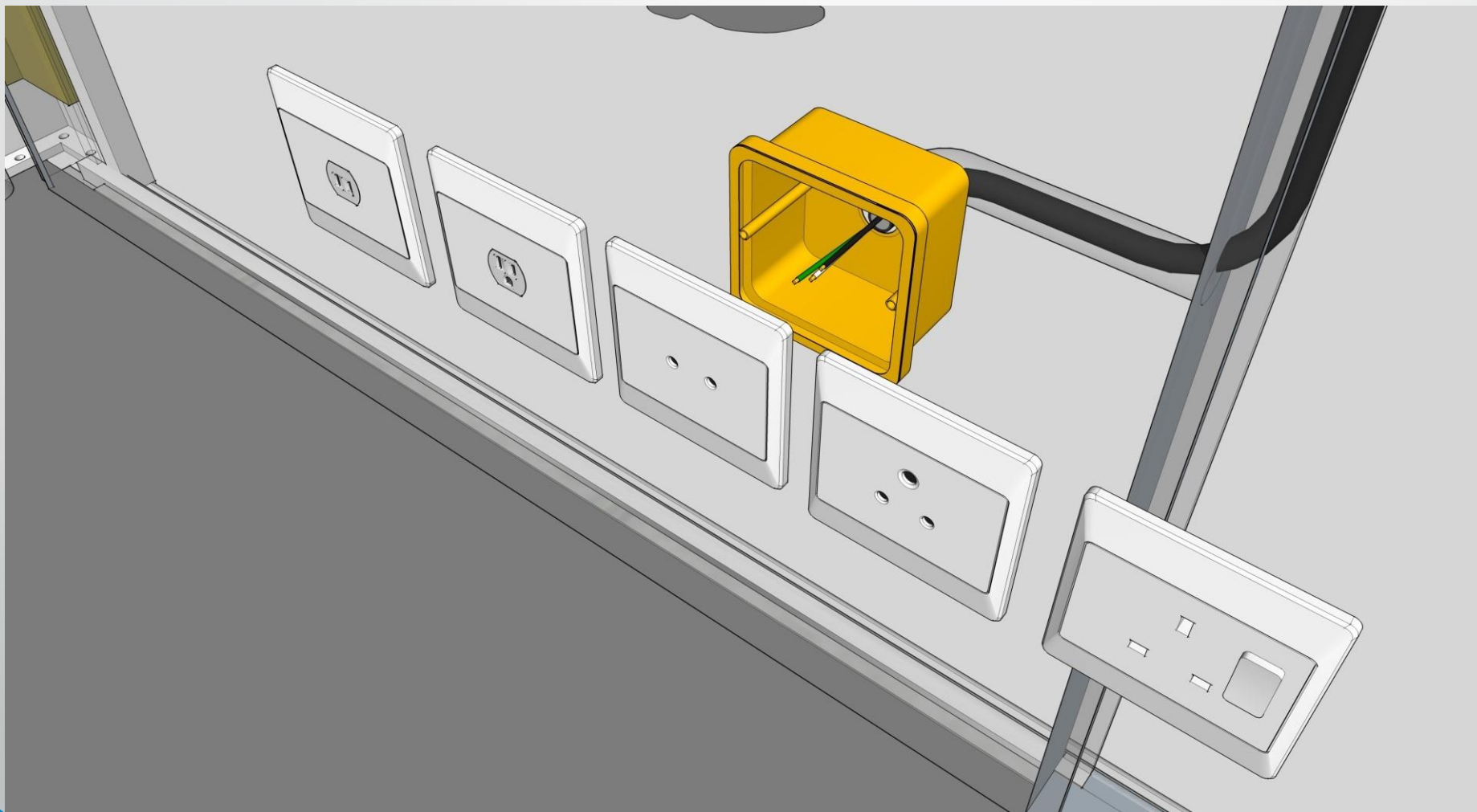
**Wiring system for units with
Chipboard panels
Connect all poles (match cable colors)**



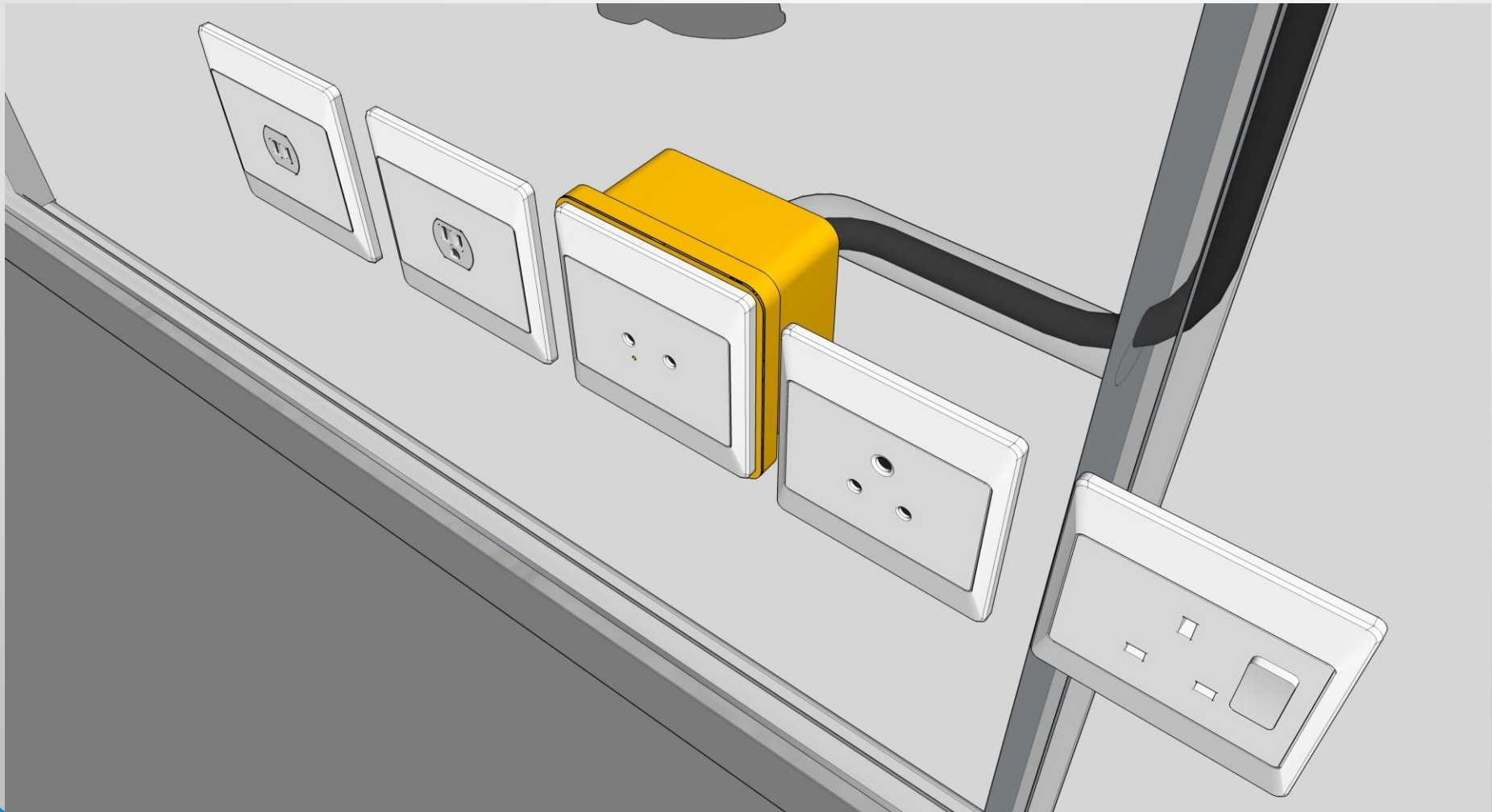
Install lighting fixtures on ceiling



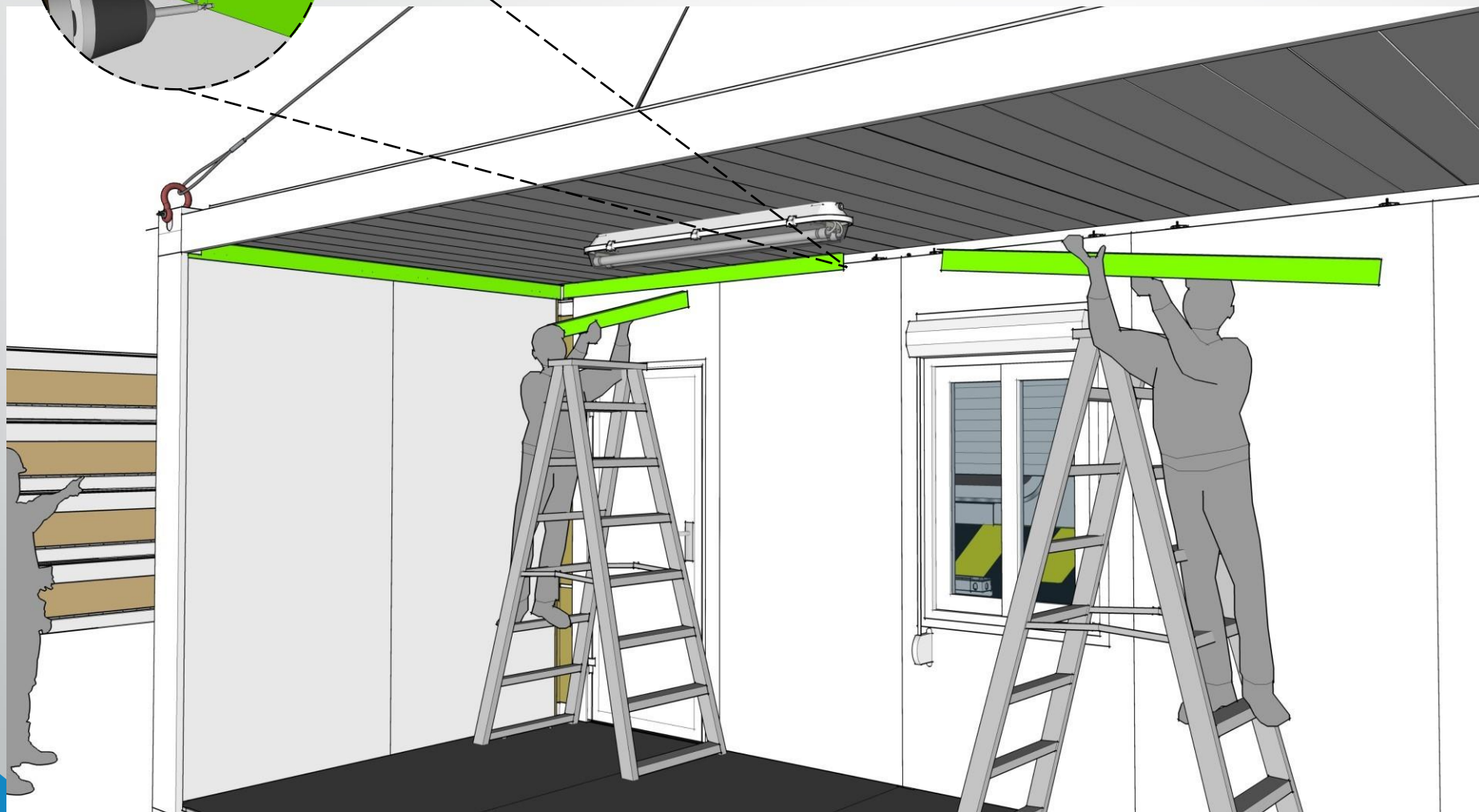
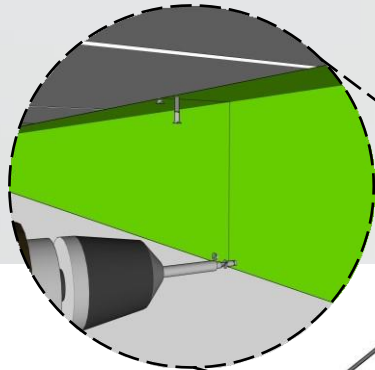
Pull the cables through the panel pre-drilled holes



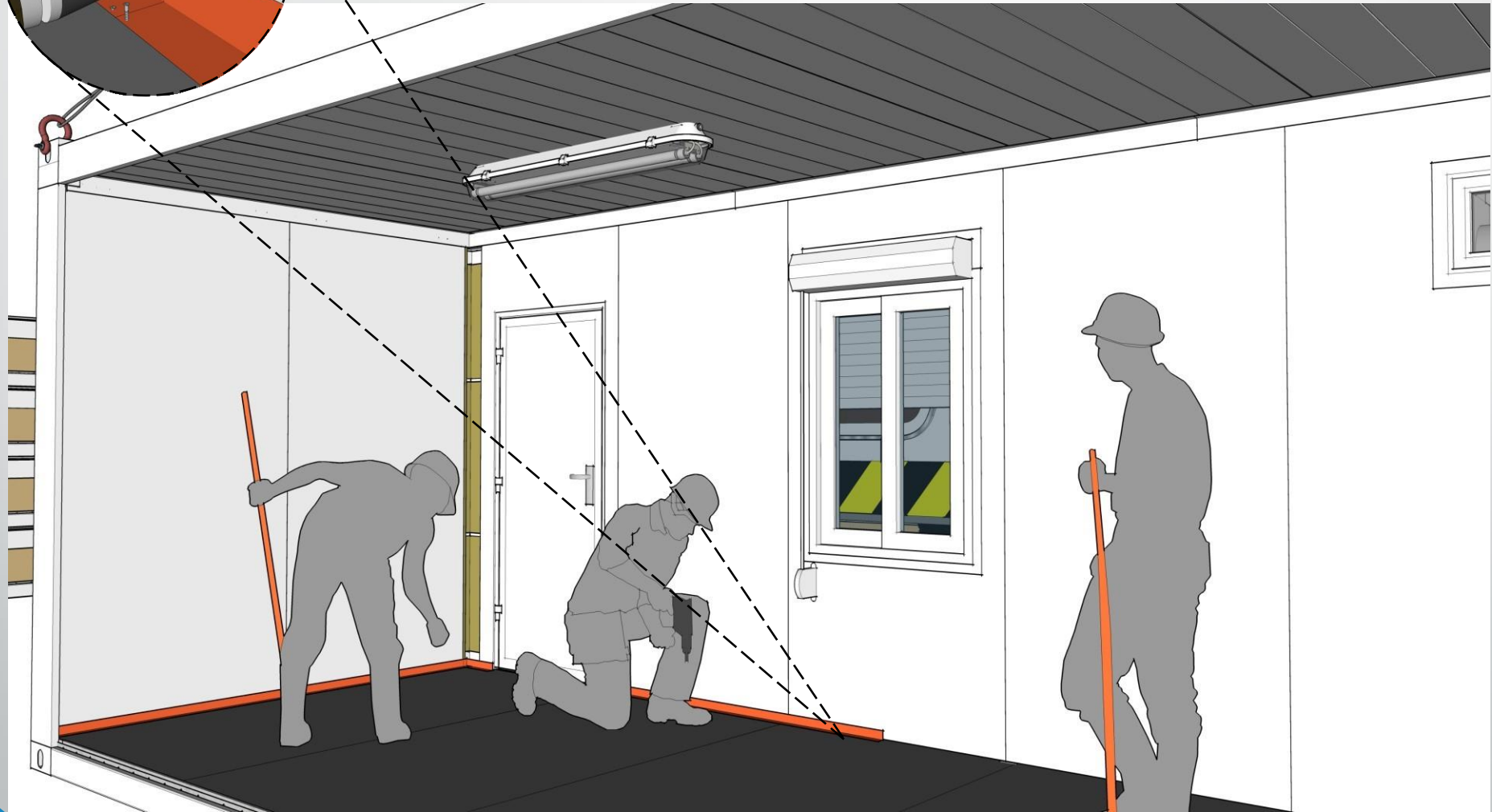
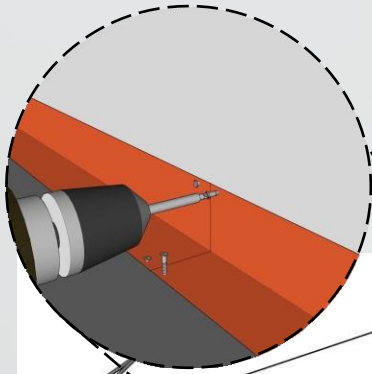
***Install the cables to the
socket/switch and the cover plate***



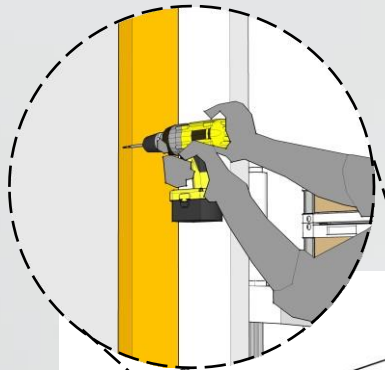
**Install the ceiling flashings. Use
M5 x 35 and M5 x 90 screws**



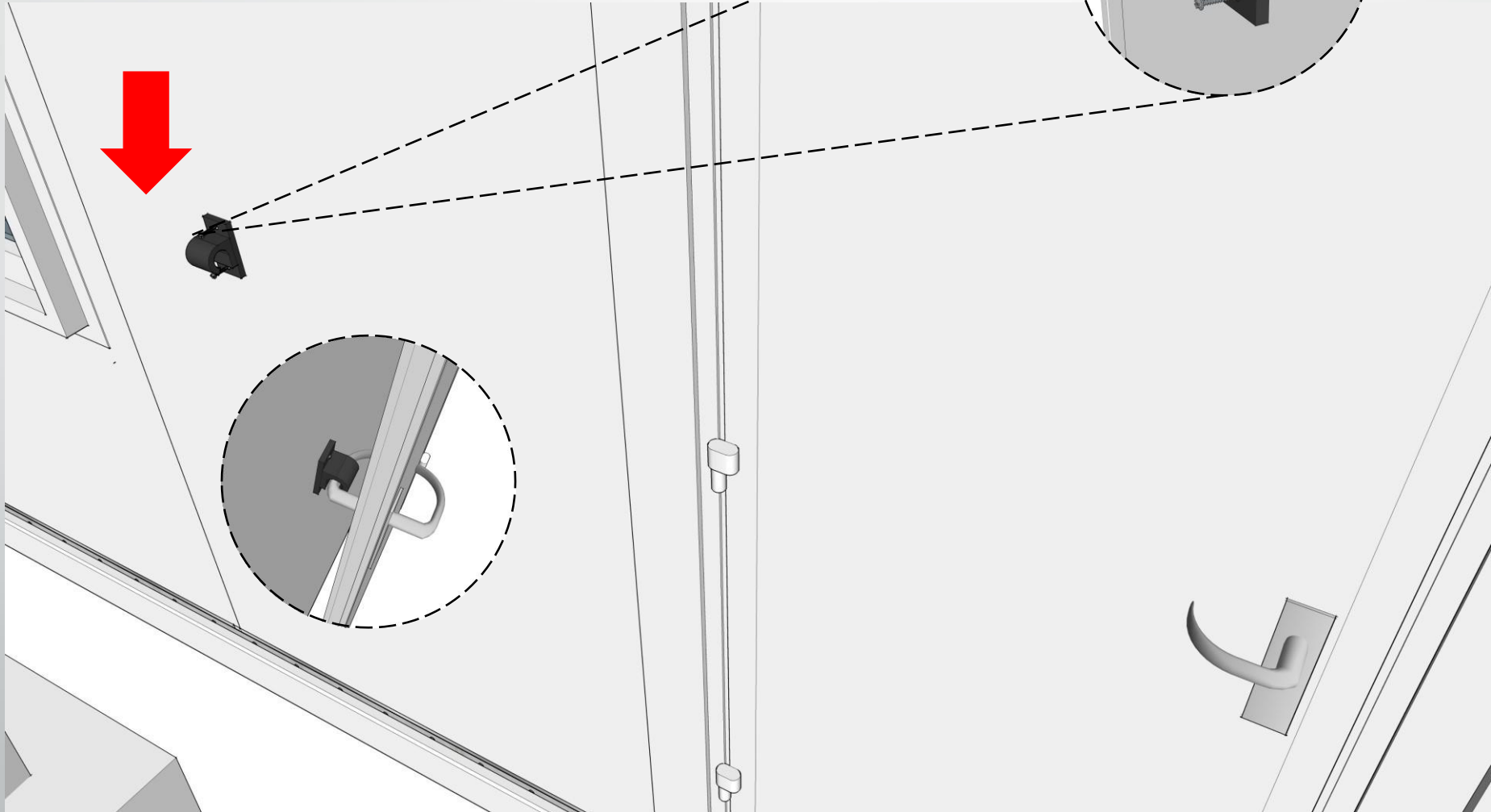
***Install the steel skirtings.
Use M4 x 20 screws***



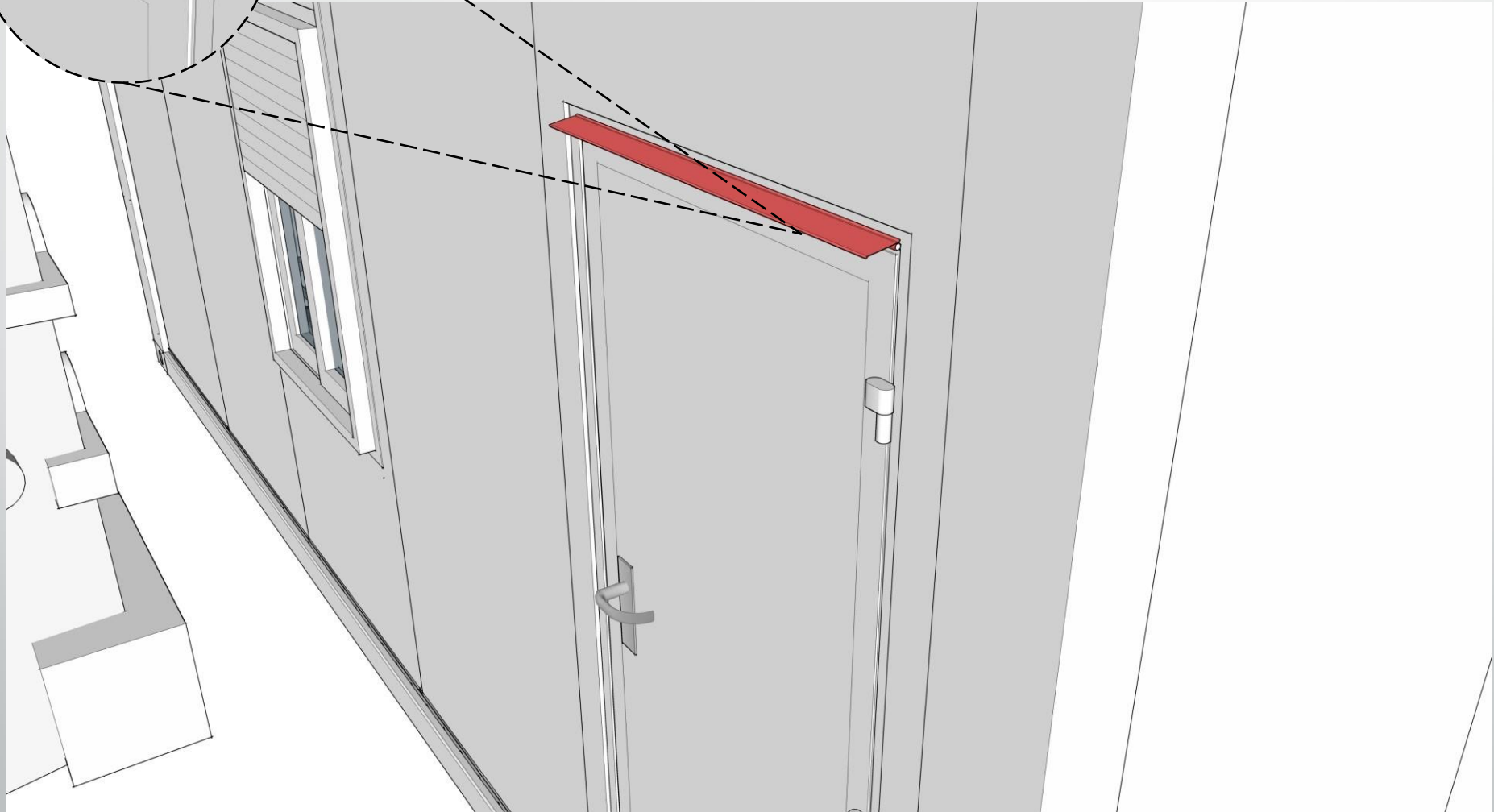
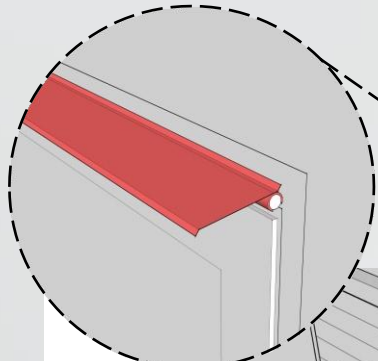
***Install corner flashings in 4 corners.
Use M5 x 35 screws***

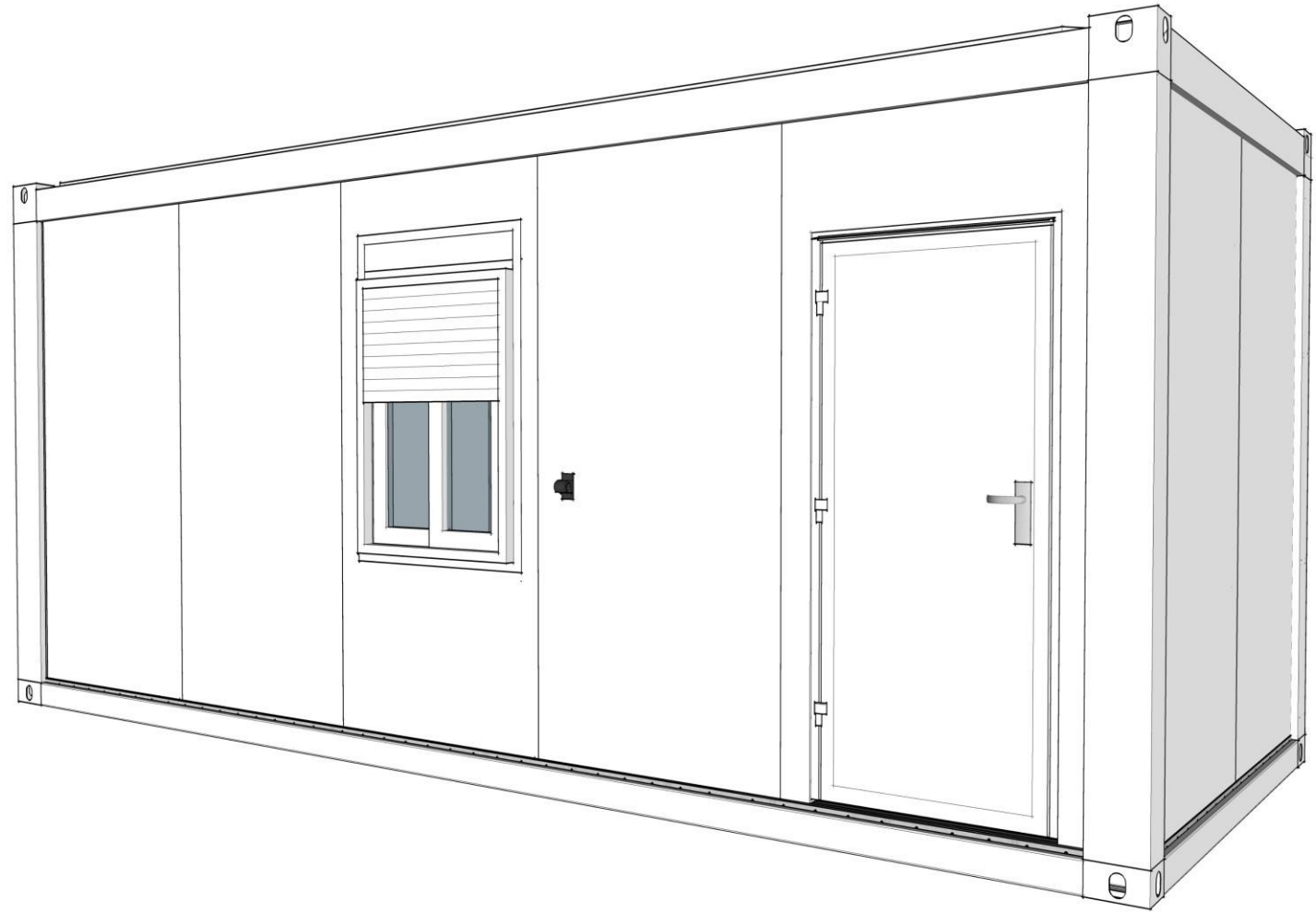


Install the external rubber door stopper

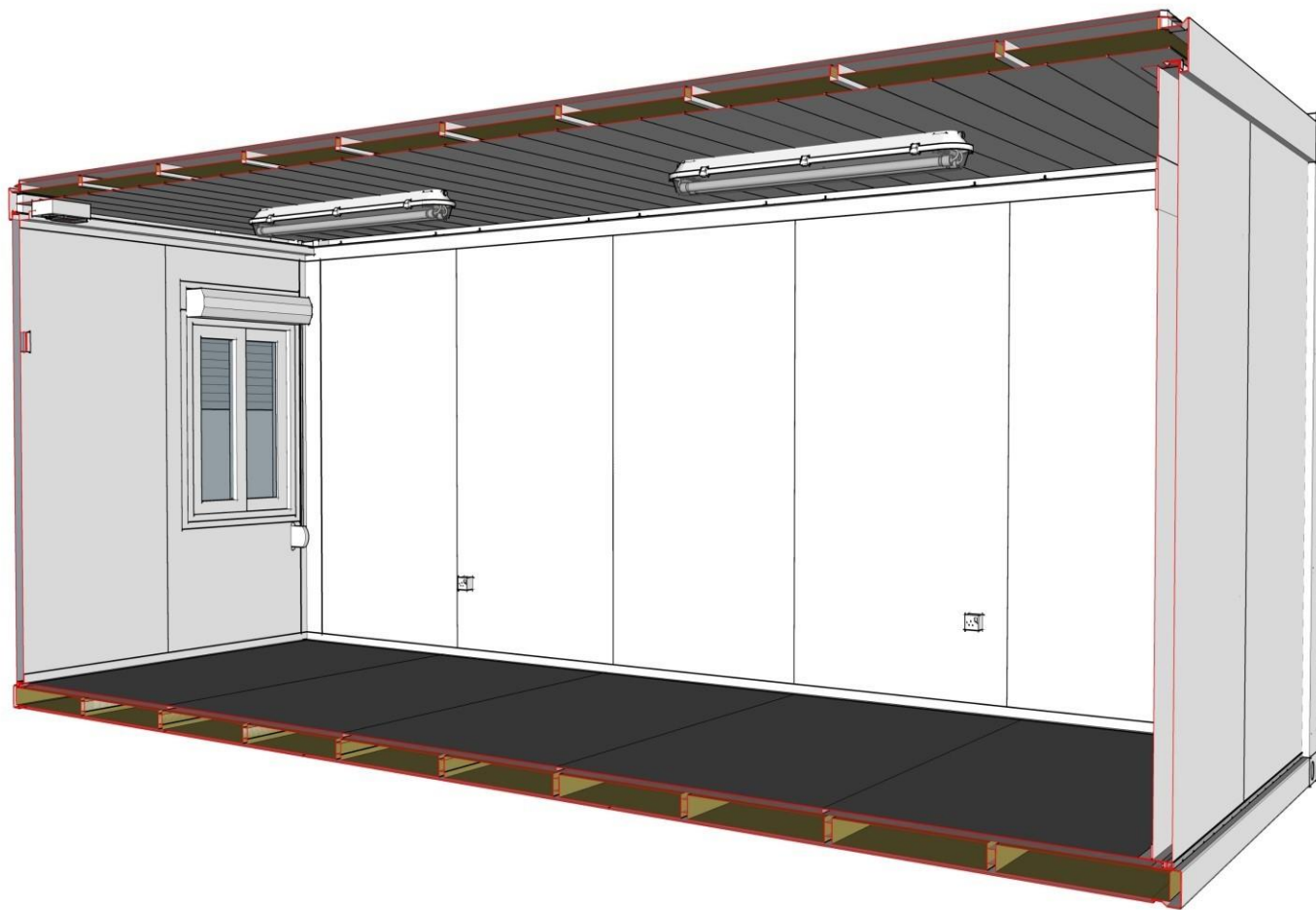


Install the door rain gutter







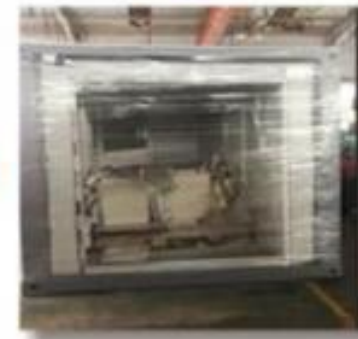


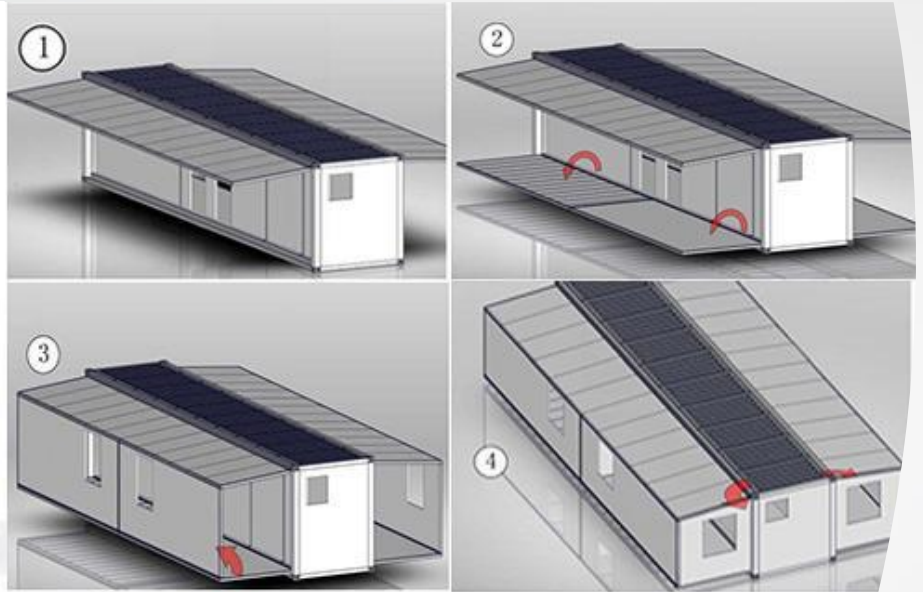
Folding Type Housing .

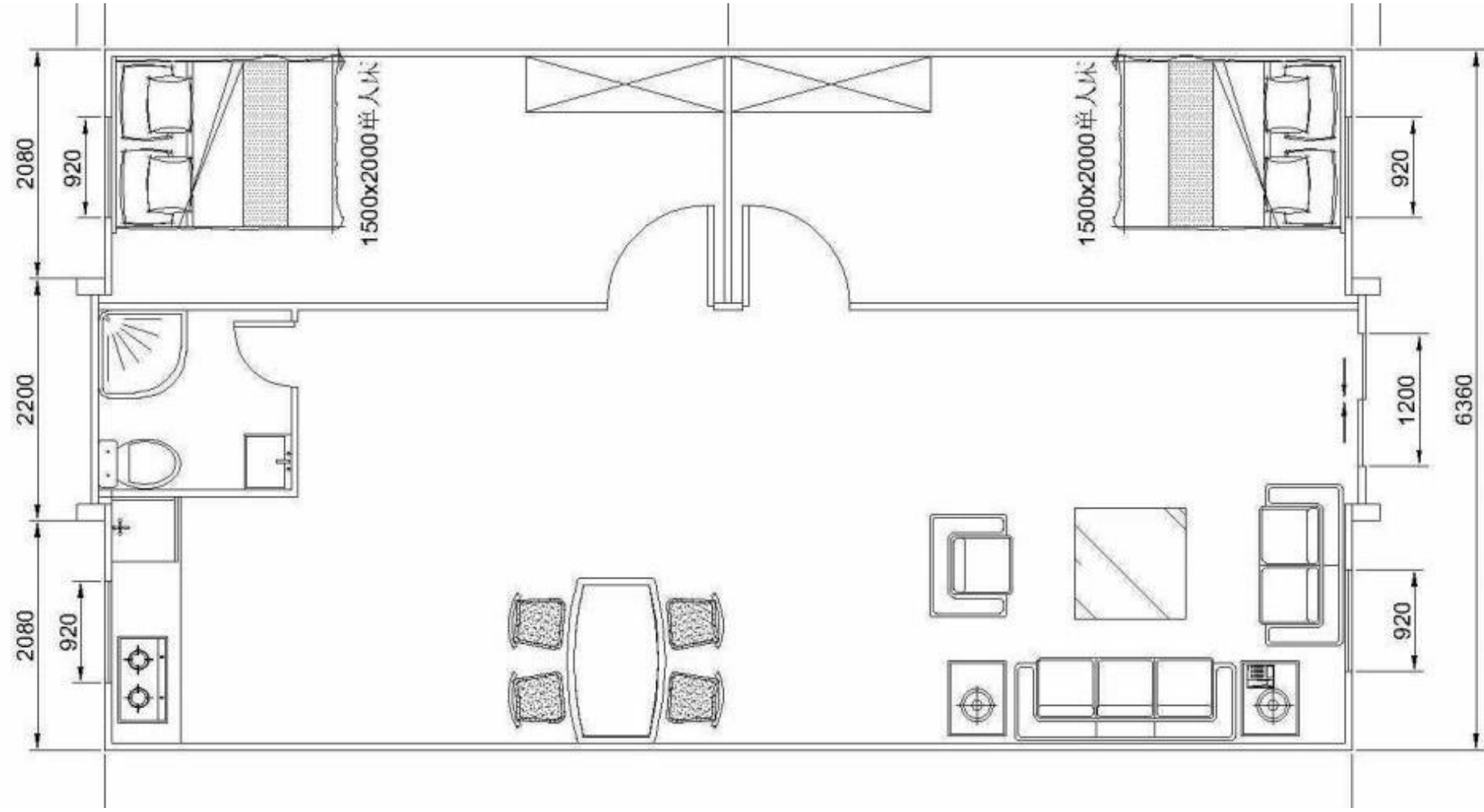




Easy installation: 4 workers + 10 mins=1 house

















Open Event Ground Built Using Flat Packs.







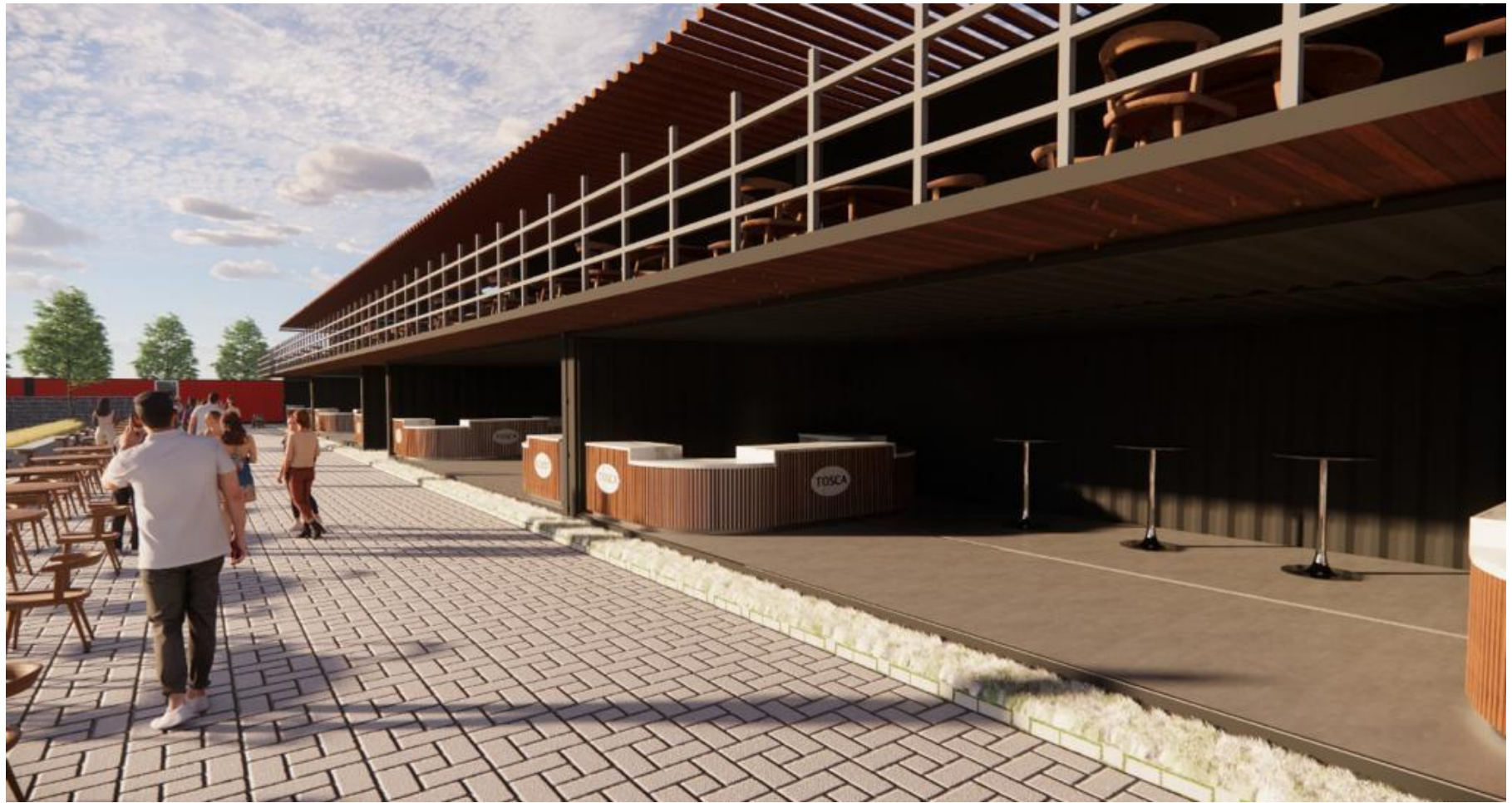


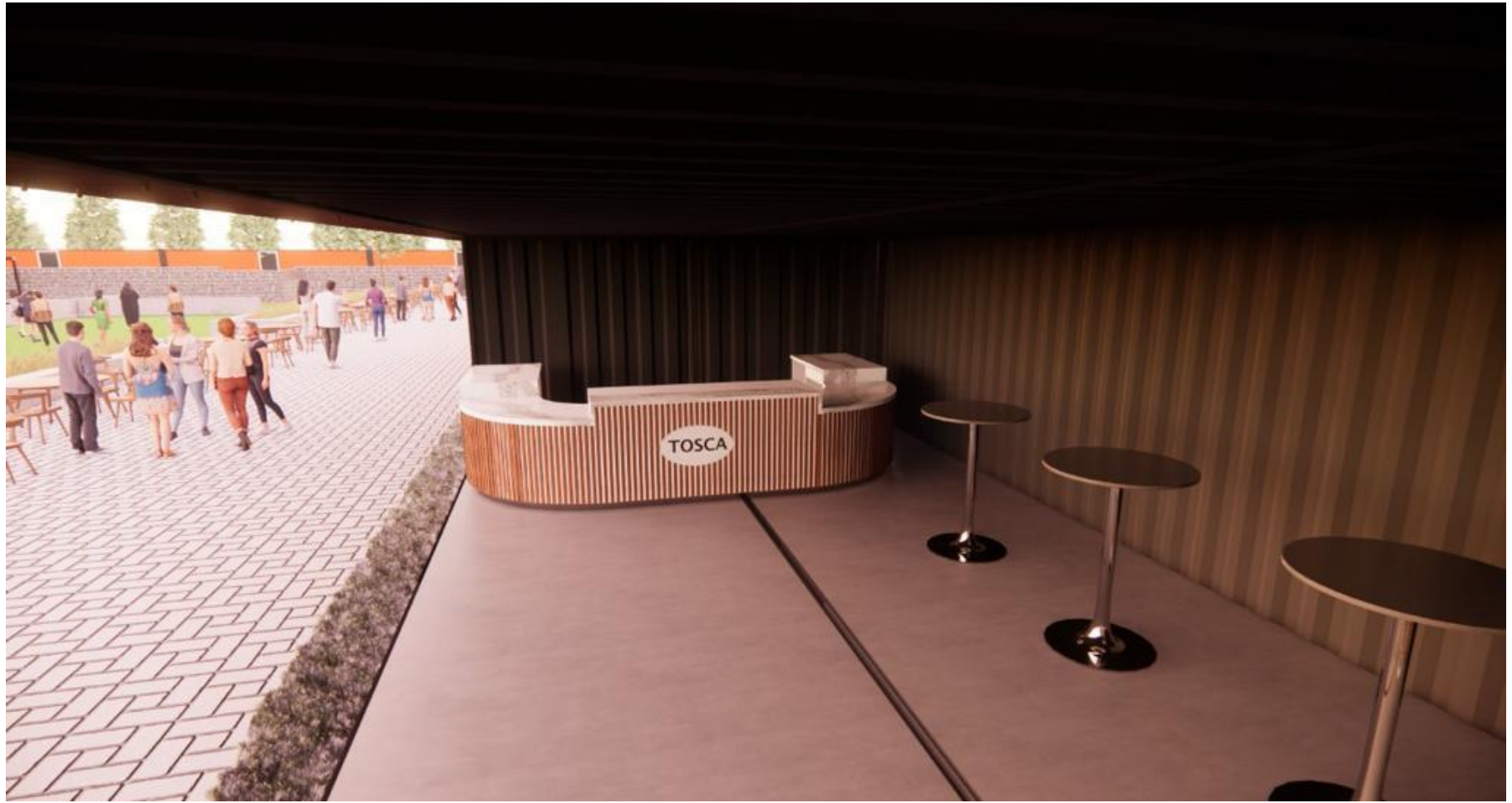
















Packing /Loading / Logistics Handling .



20' Flatpack container

Types of packing



20' Flatpack container

Types of packing

20' bundles (3 to 4 complete units and up to 6 units of frames and columns only per bundle)
Trans pack – loose components of 6 complete units packed inside 40' high cube iso shipping container







20' Flatpack container

Types of packing









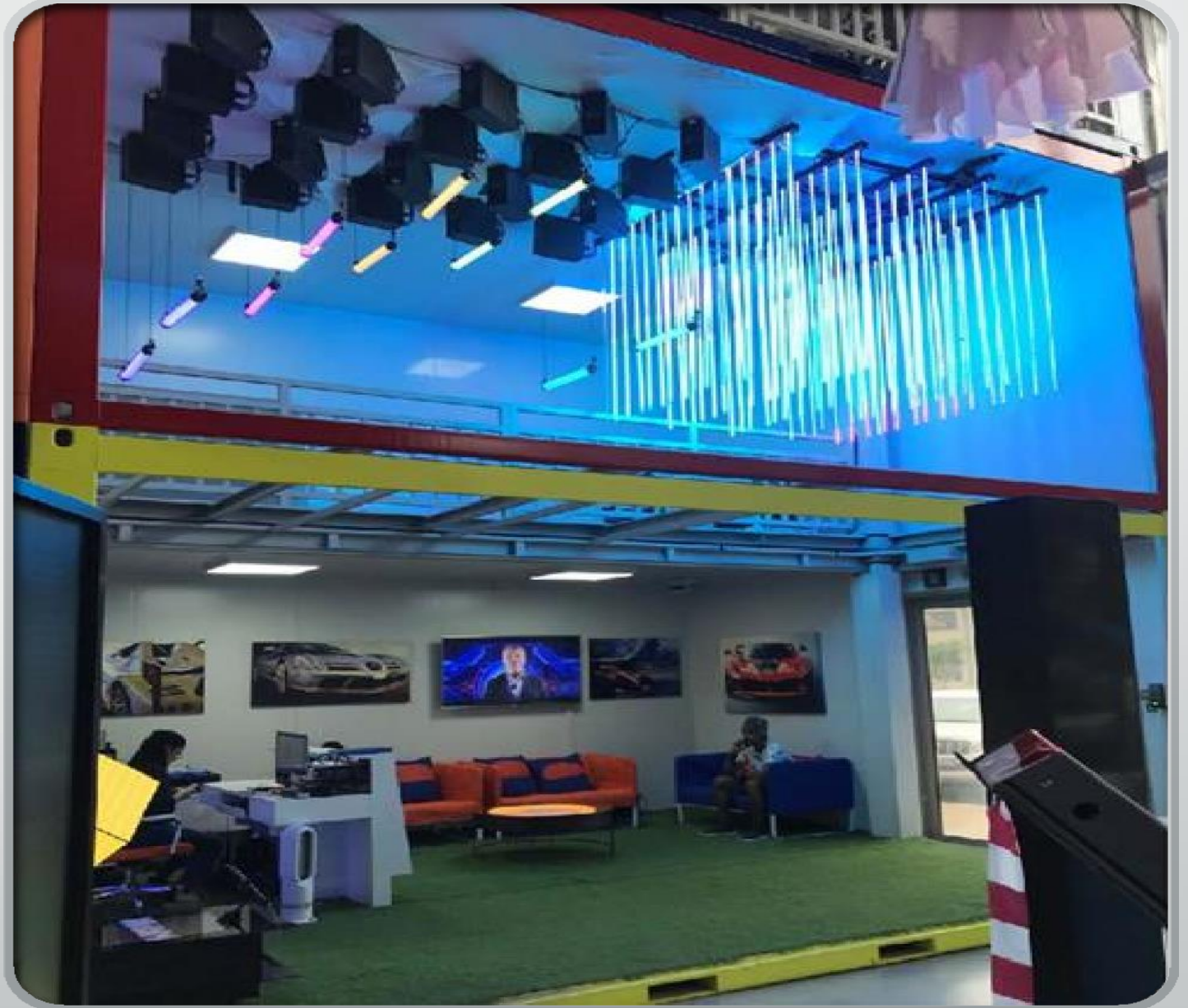
Project Views.





Second floor level -
can be joined/linked
vertically on G+2 level
maximum

Second floor level -can be
joined/linked vertically on G+2 level
maximum



Interior Views





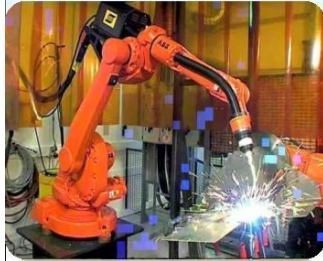
20' FLATPACK CONTAINER ACCESSORIES



Step 1: Before installing the container house, make sure the foundation is flat
It's better to have cement foundation.



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