

Ezy-isolate

The people around the world are now facing the deadliest Coronavirus. The virus that causes COVID-19 is mainly transmitted through the droplets generated when an infected person coughs, sneeze, or exhales. Now the virus is spreading all around the world. The solution to reducing the spread is to isolate the infected people from the uninfected person. Ezy-isolate is a portable isolation module to isolate the infected person. The design of the module is done in such a way that it can be easily mass-produced at low cost and can be contained the basic requirements for the isolated person. Since the module is portable it can be set up in any environment.

Ezy-isolate



Portable
Easy to fix
Easy to make

Features

The dimension of the module is a round 10ft X 5ft X 8ft. The module facilitates to contain the basic requirement for the isolated patient. It includes the special feature to access the patient from outside of the module. This will helps the doctor or the nurse to access the patient immediately without taking any safety precautions. The Facilities in the module can be altered or substituted by depending upon the availability and cost.

Pressure indicator

Indicate the pressure inside the room.
LED bulb is used.
Glow green when it is normal.
Glow red when pressure varies.

Light source

LED bulb is used.

Portable Frame

Drip Stand

Ventilator

Provide mechanical ventilation to the patient.

Commode

Portable commode.

Power source

Rechargeable battery source.

Exhaust fan

To create negative pressure.
HEPA filters are used to make germ free.

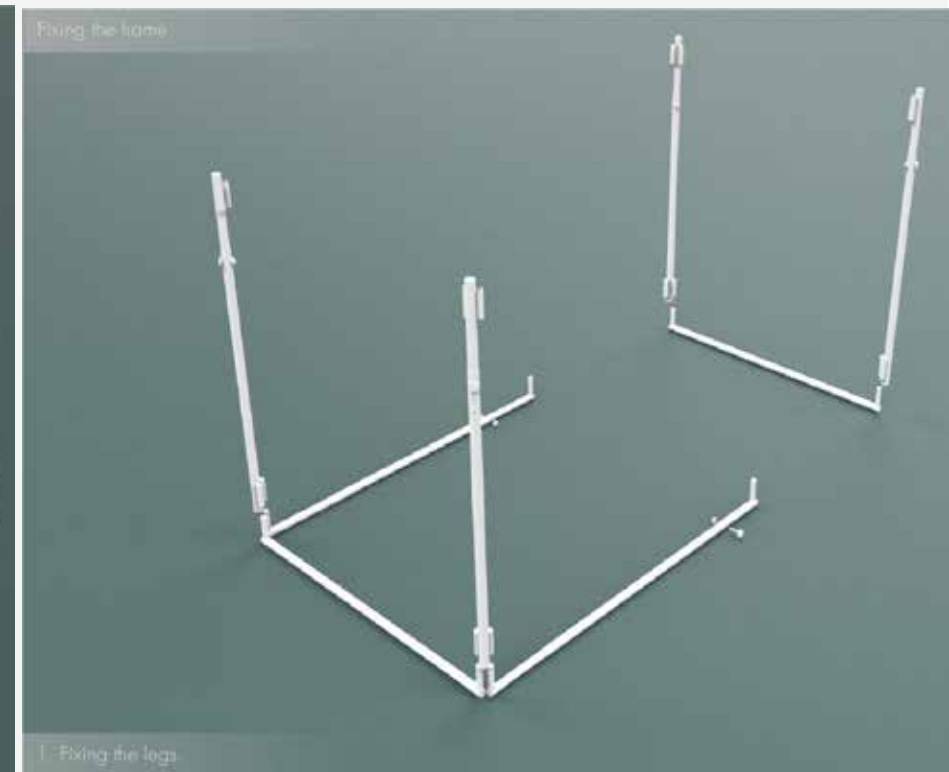
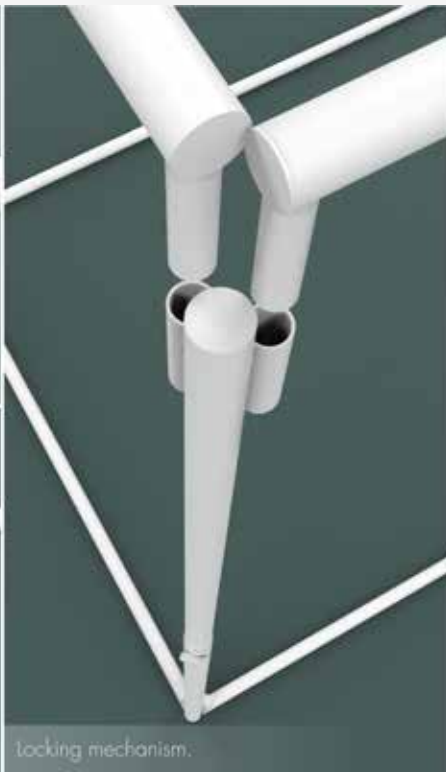
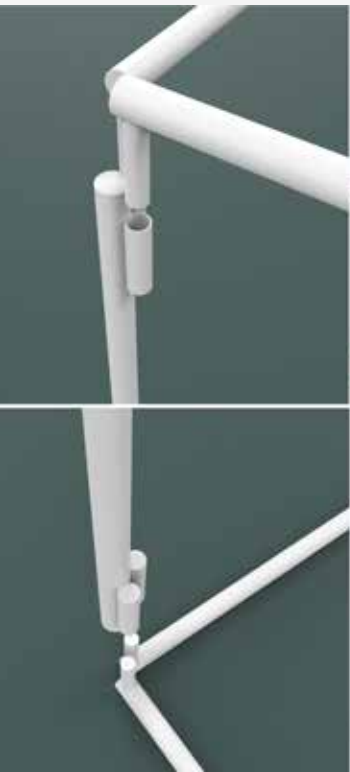
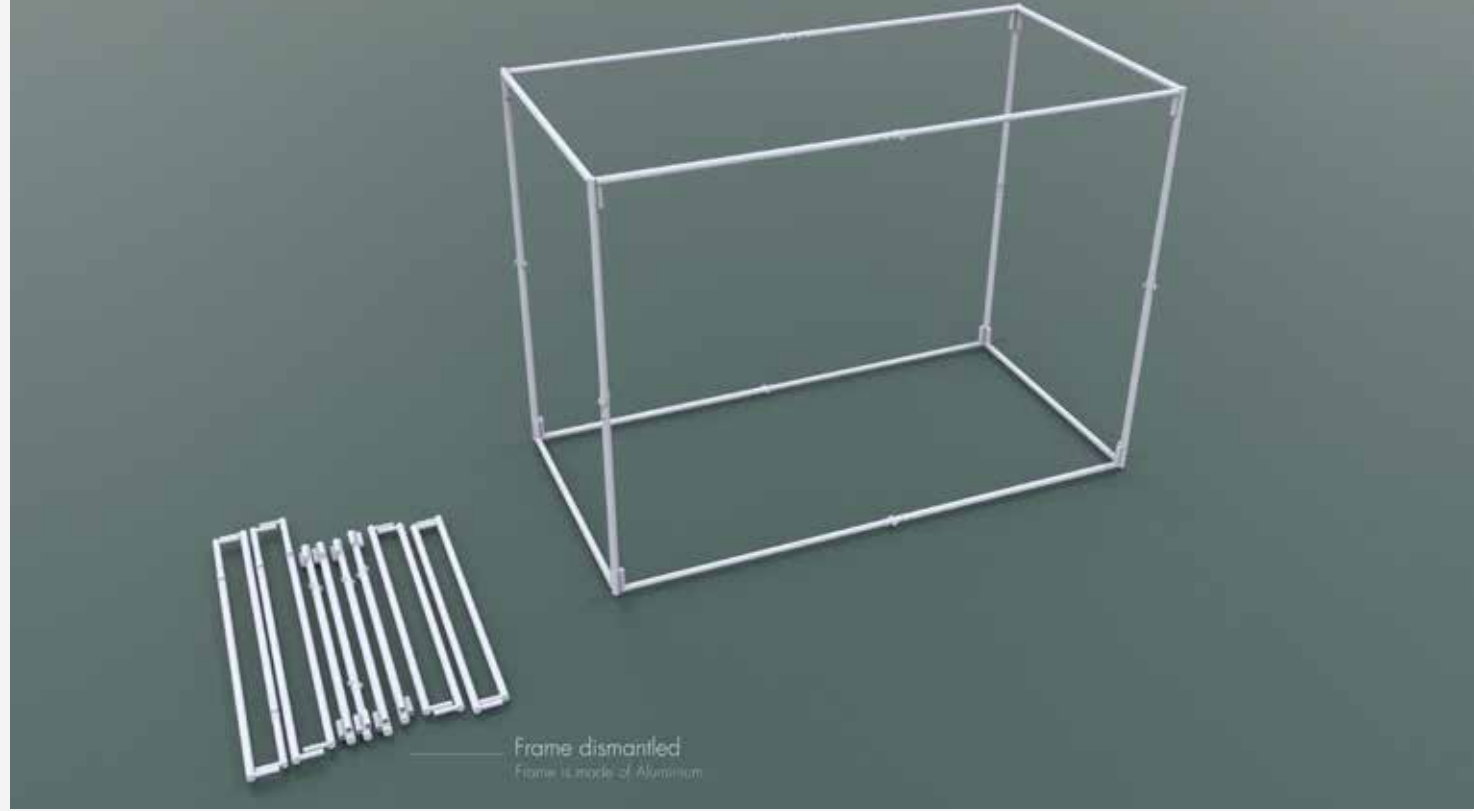


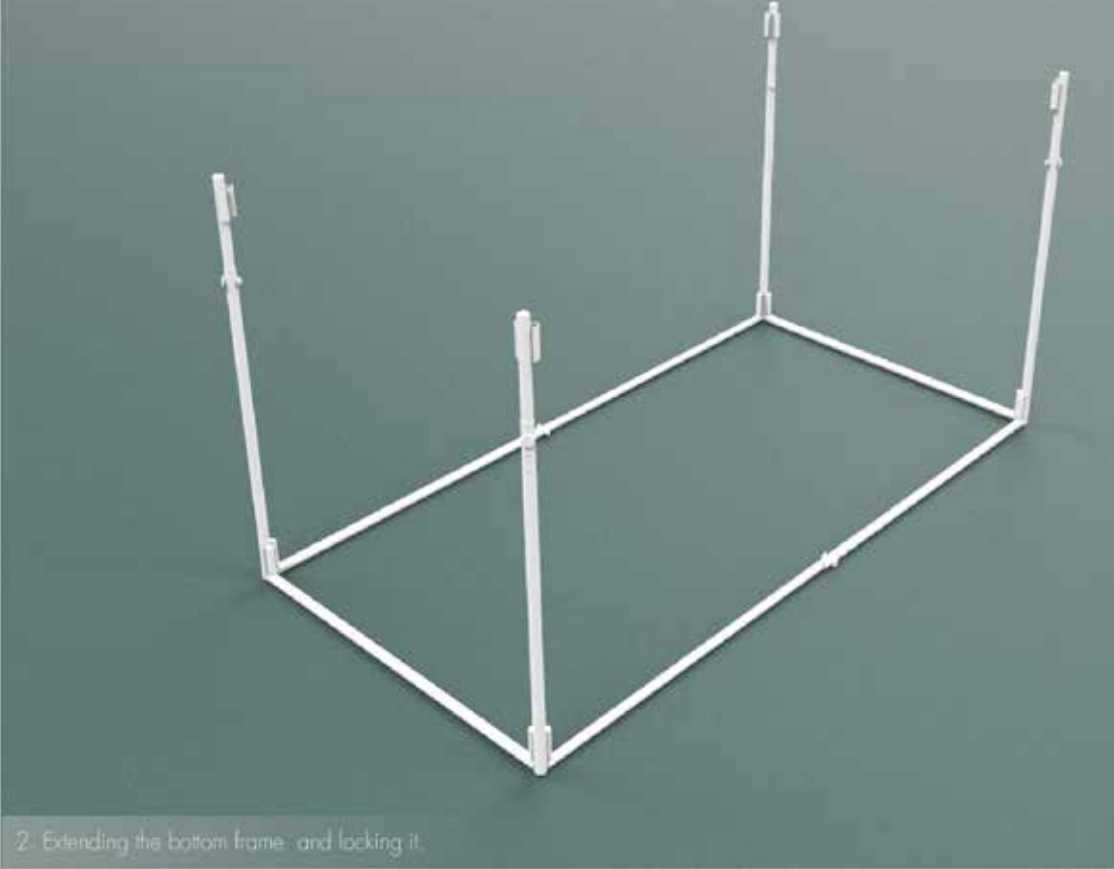




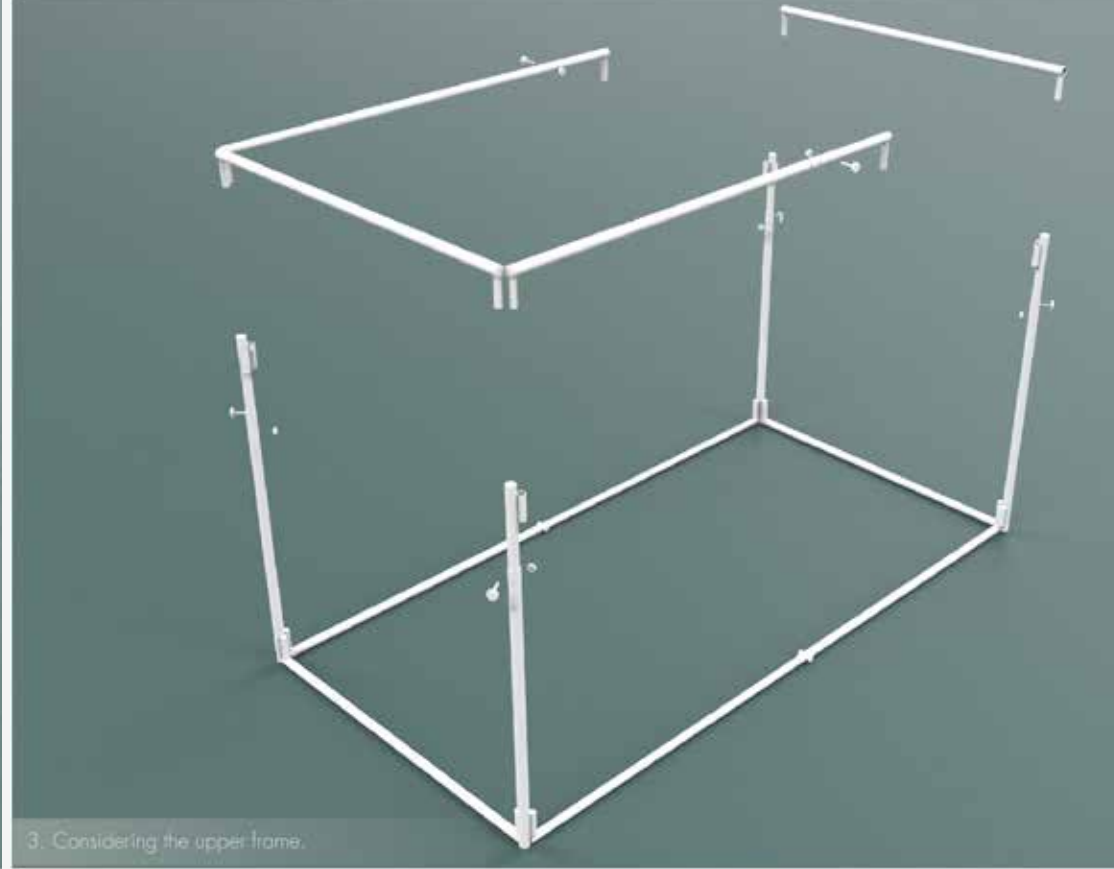
Module

The module consist of three parts the frame part, the bed part and the cover part. The frame dimension is around 10ftx5ftx8ft. It can be dismantled and carried to any place. The frame is made up of aluminum which is light and strong.

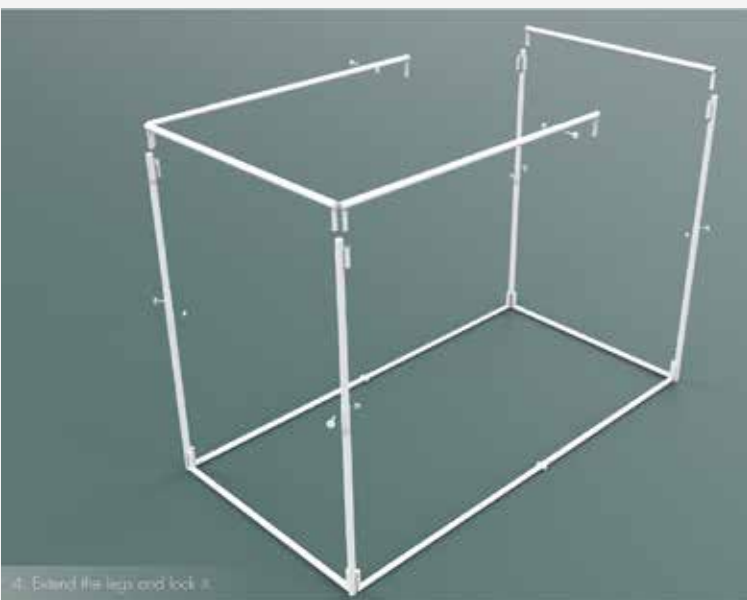




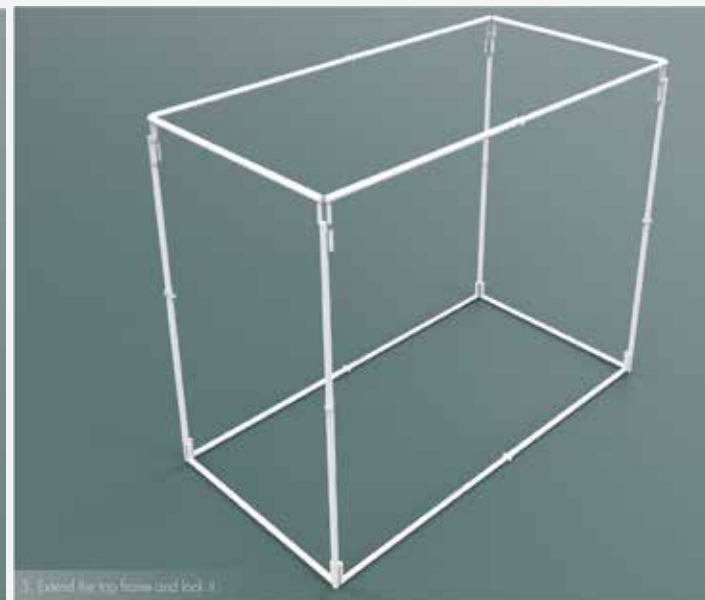
2. Extending the bottom frame and locking it.



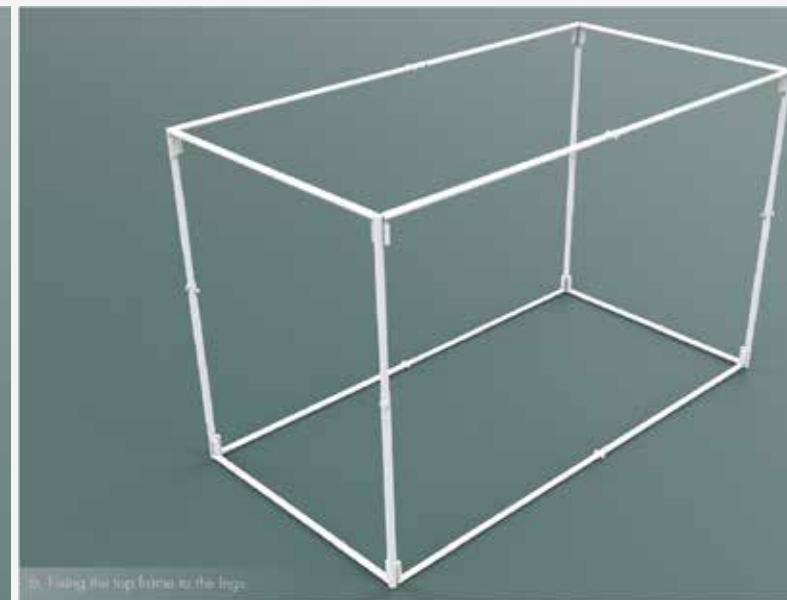
3. Considering the upper frame.



4. Extend the legs and lock it.

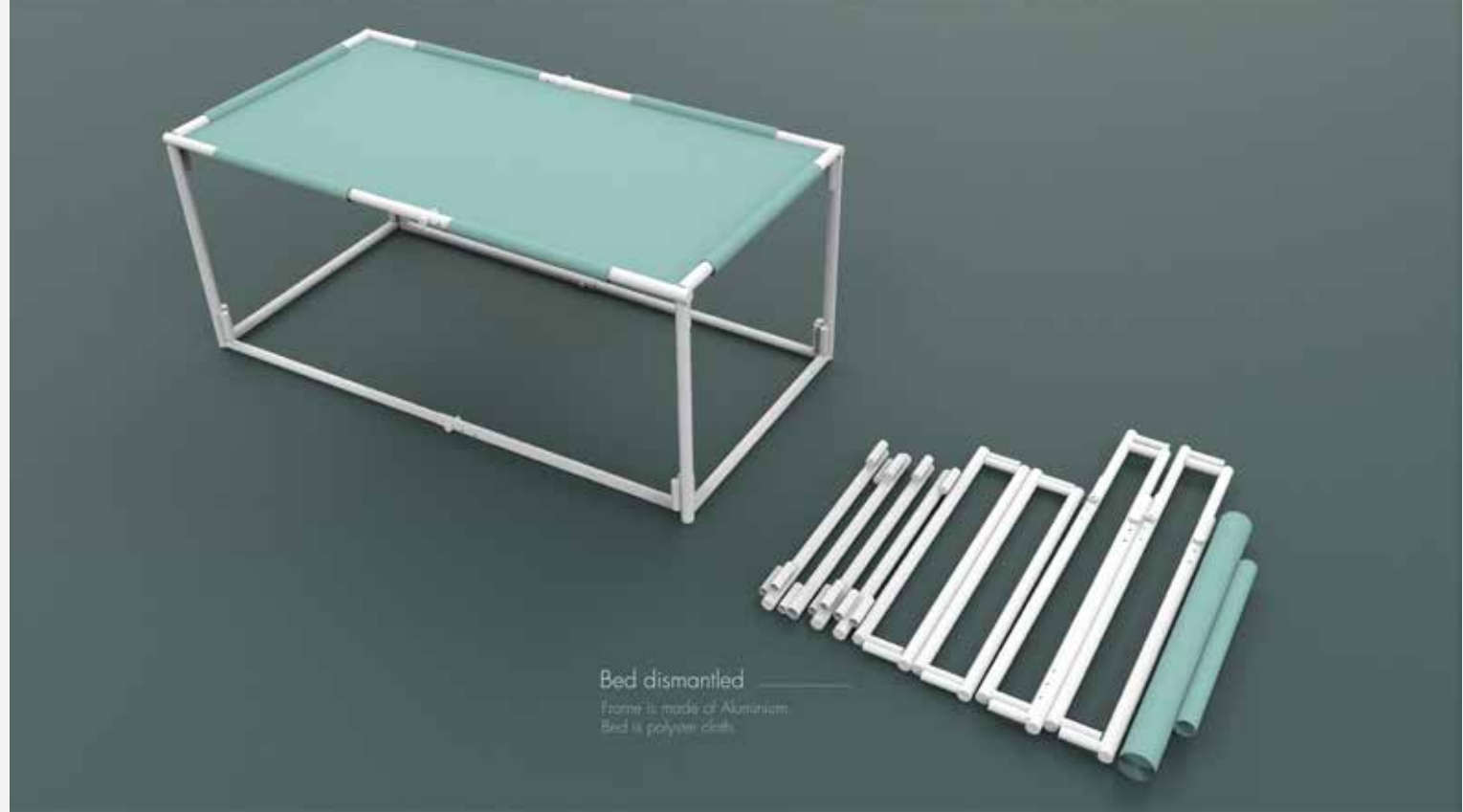


5. Extend the top frame and lock it.

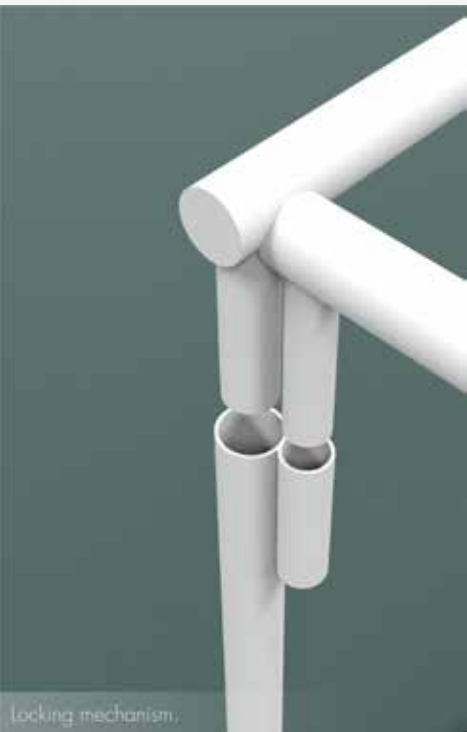


6. Fixing the top frame to the legs.

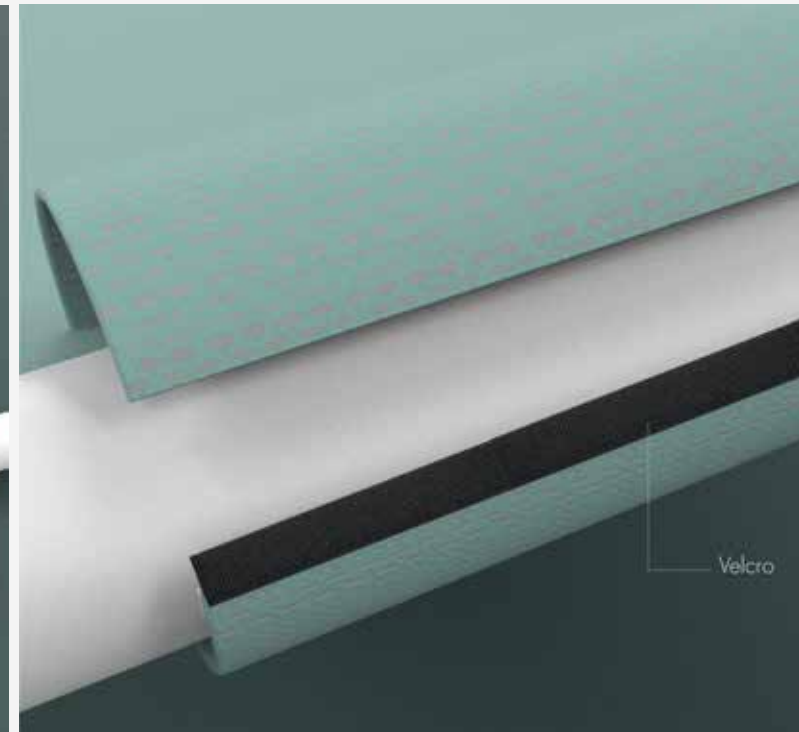
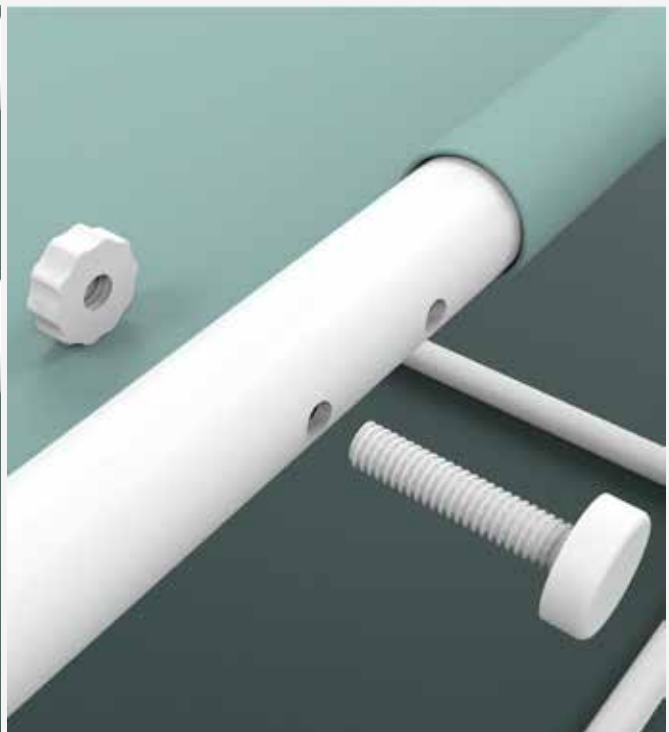
The bed is portable. Dimension is around 6ft x 3ft x 2.5ft. The frame is made of Aluminium. The bed part is made of polyester cloth which can easily be attached to the frame.



Bed dismantled
Frame is made of Aluminium.
Bed is polyester cloth.



locking mechanism.



Velcro



1. Fixing the legs.



2. Extending the bottom frame and locking it.



3. Attaching the polyester cloth to the frame.

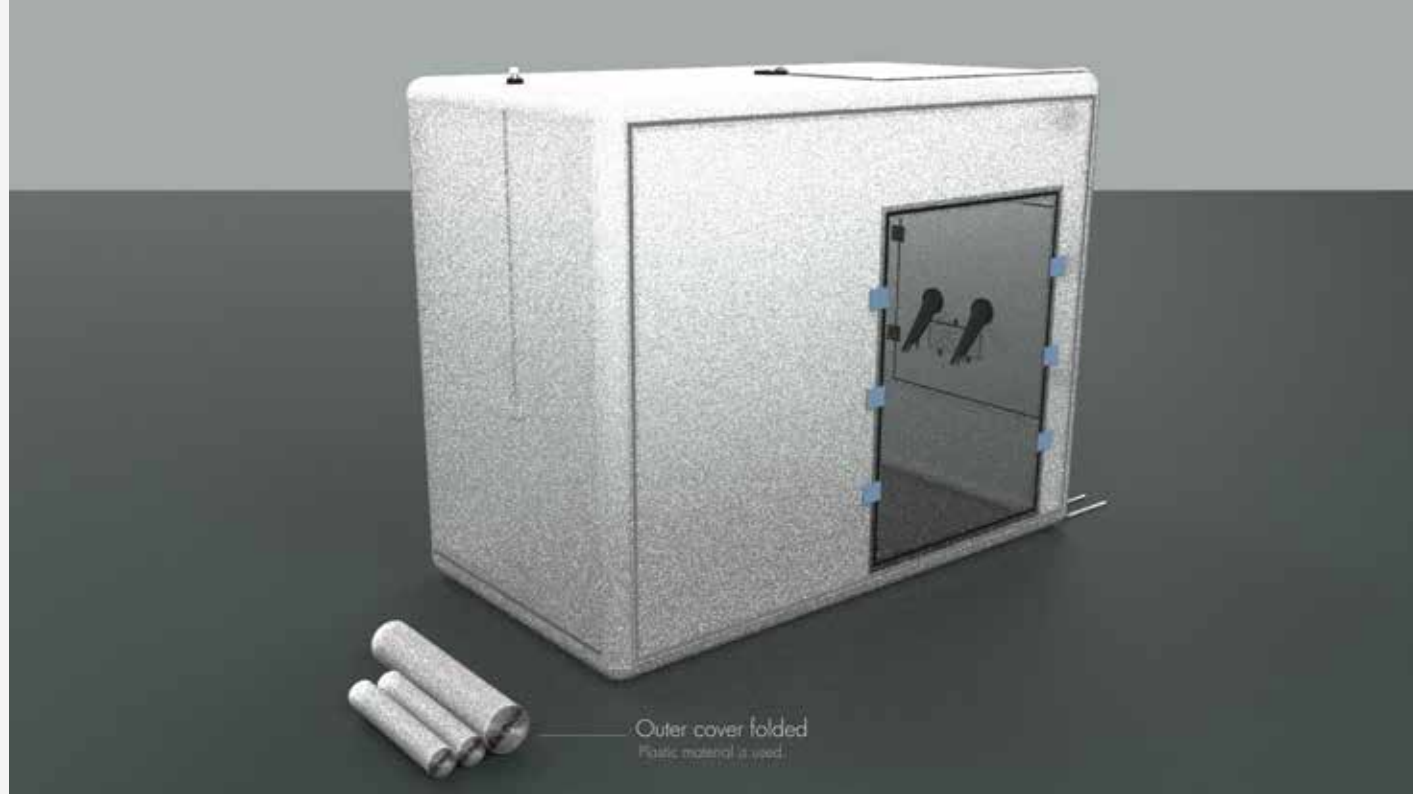


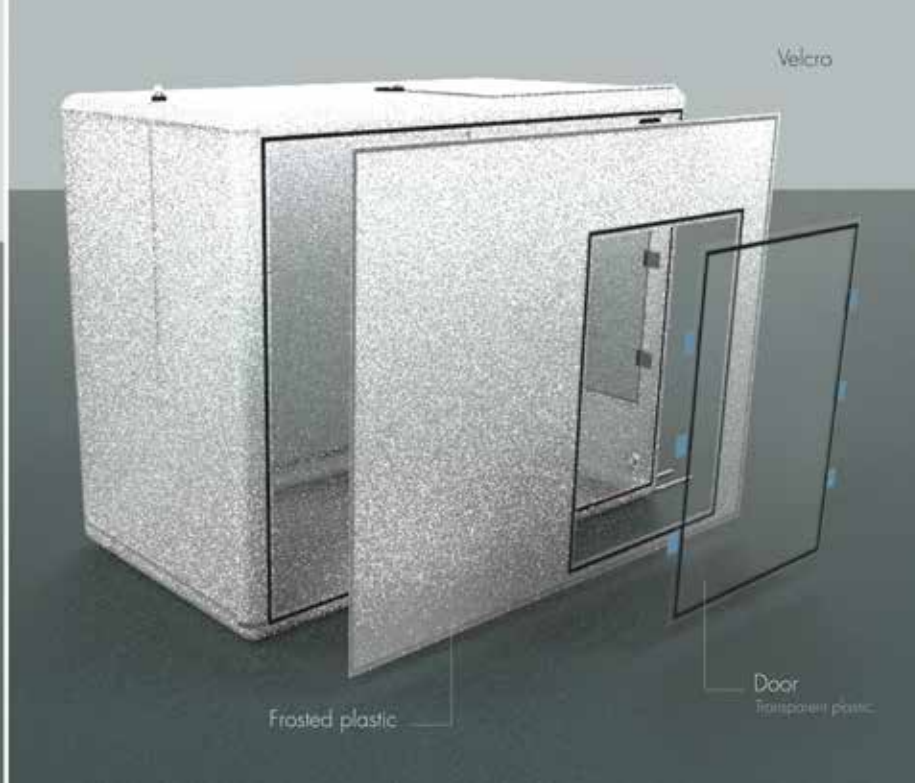
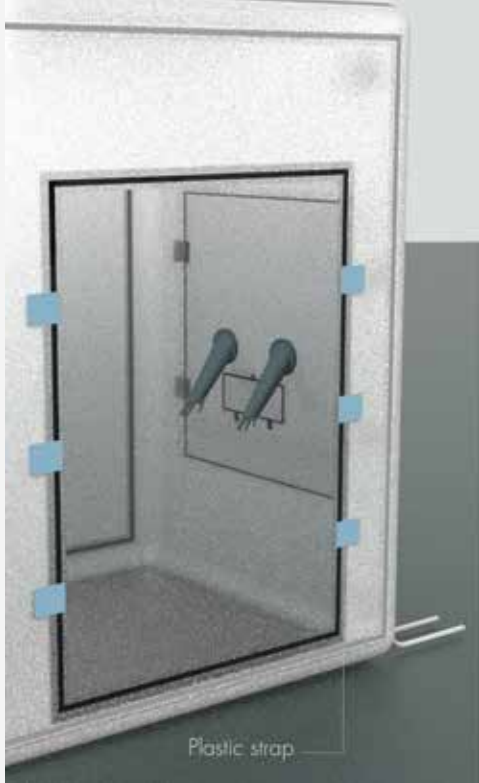
4. Locking the frame.



5. Attaching the top frame to the leg.

The cover is made of plastic material. In this product, frosted and transparent plastic is used. It can be folded and carried to any place. The features like pressure indicator, light source, air inlet valve, and special feature to access patient from outside are attached to the outer cover. Velcro fixing is used which is simple to handle and fix to the plastic materials while manufacturing.







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