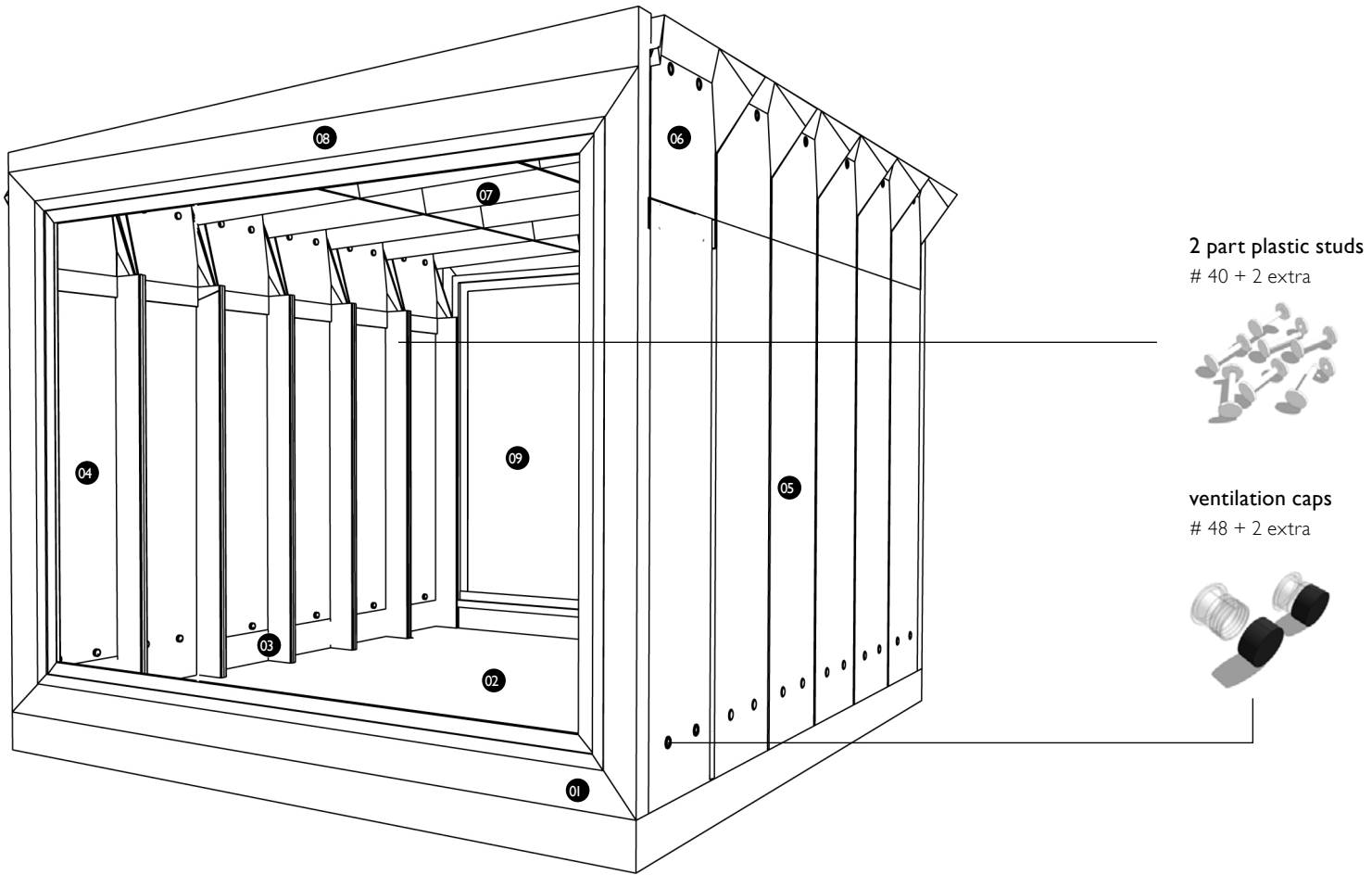


The proposal responds to disaster by developing a 2 person [or single parent and 2 small children] shelter. A rapidly deployable flat pack shelter made of an insulating , renewable resource. The flat pack shelter has various interior componenets that

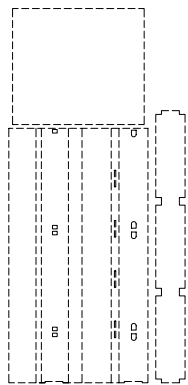
## 10 | DESIGN SYNTHESIS





10.1 KIT OF PARTS

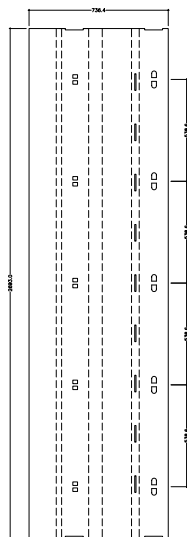
01



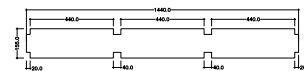
**PACKAGE PART 01:**

volume: 0.04m<sup>3</sup>  
dimensions: 780mm x  
1800mm x 30mm

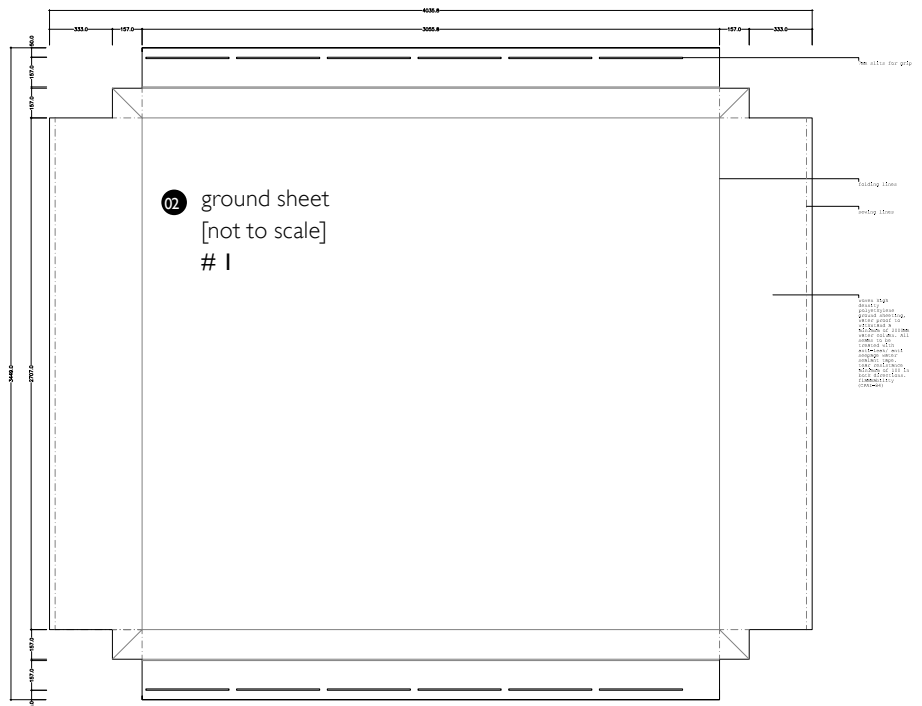
01 floor beams  
[not to scale]  
# 2

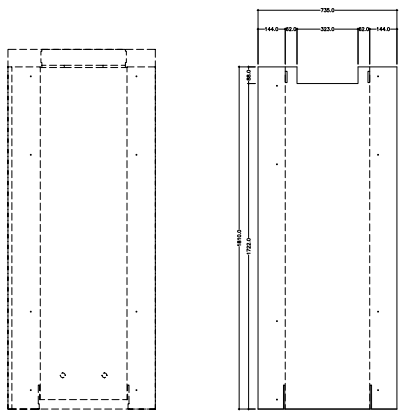


03 wall braces  
[not to scale]  
# 4



02 ground sheet  
[not to scale]  
# 1





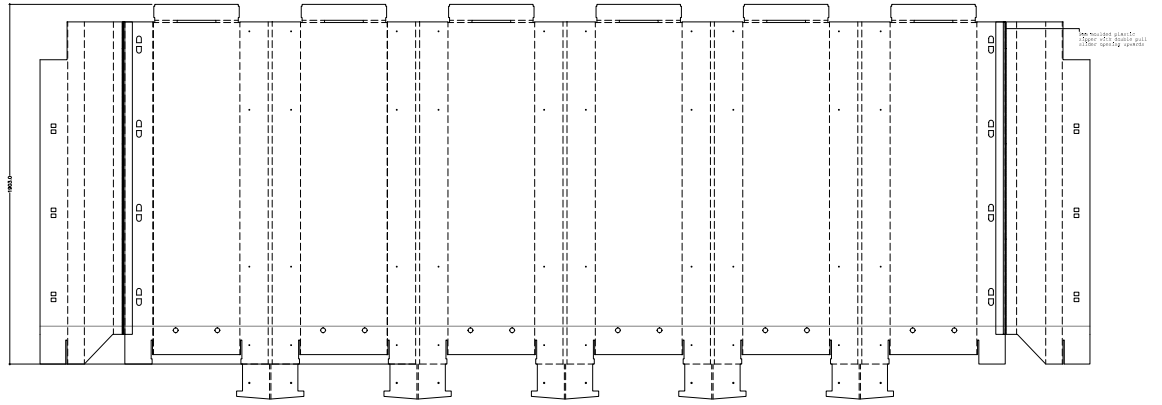
02

04 interior components  
[scale 1:20]  
# 12

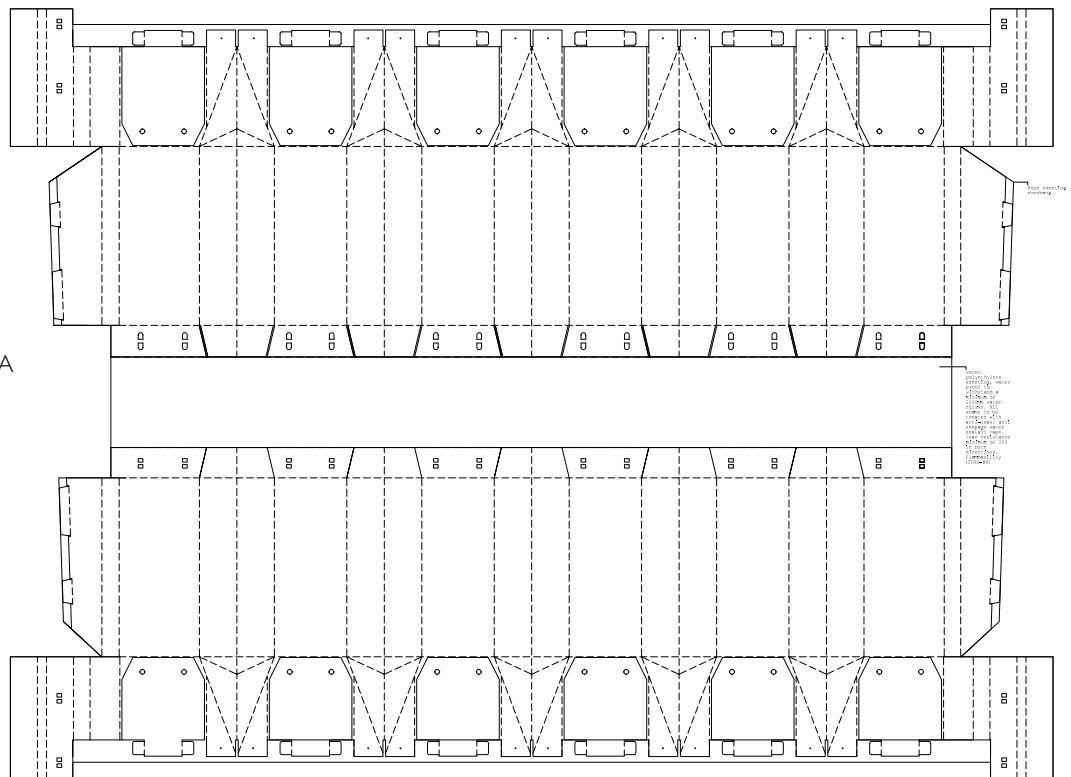
**PACKAGE PART 02:**

volume: 0.17 m3  
dimensions: 1903mm x  
787mm x 115.5mm

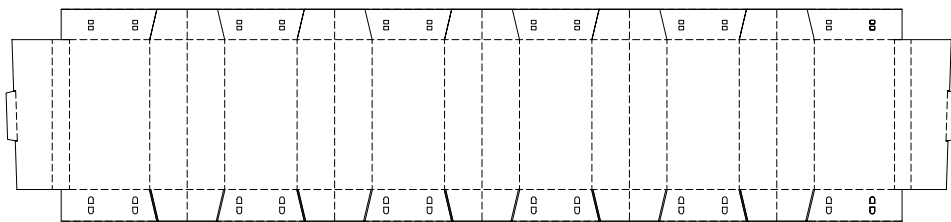
05 external wall sections  
[scale 1:20]  
# 2



06 roof section A  
[scale 1:20]  
# 1



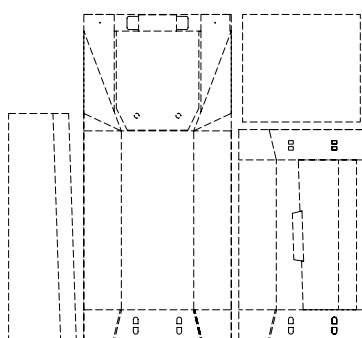
07 roof section B  
[scale 1:20]  
# 1



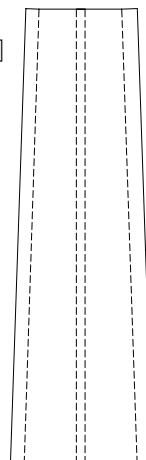
03

**PACKAGE PART 03:**

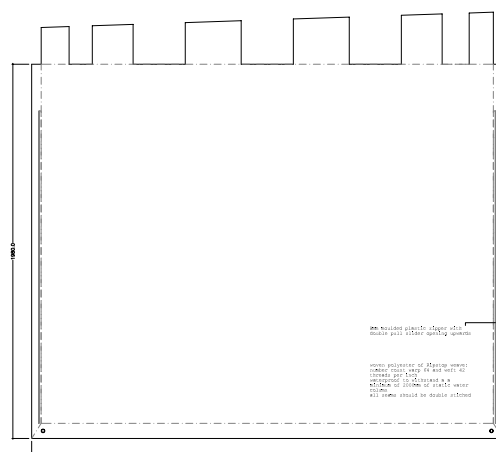
volume: 0.22 m3  
dimensions: 1730 mm x  
782mm x 168mm



08 roof brace  
[scale 1:20]  
# 2



09 closer panel  
[scale 1:20]  
# 2



## 10.1 ASSEMBLY

### 10.1.1 TRANSPORTATION

[fitting in a standard 20ft shipping container]

#### GROSS PACKAGE SIZE:

VOLUME: 0.6 m<sup>3</sup>

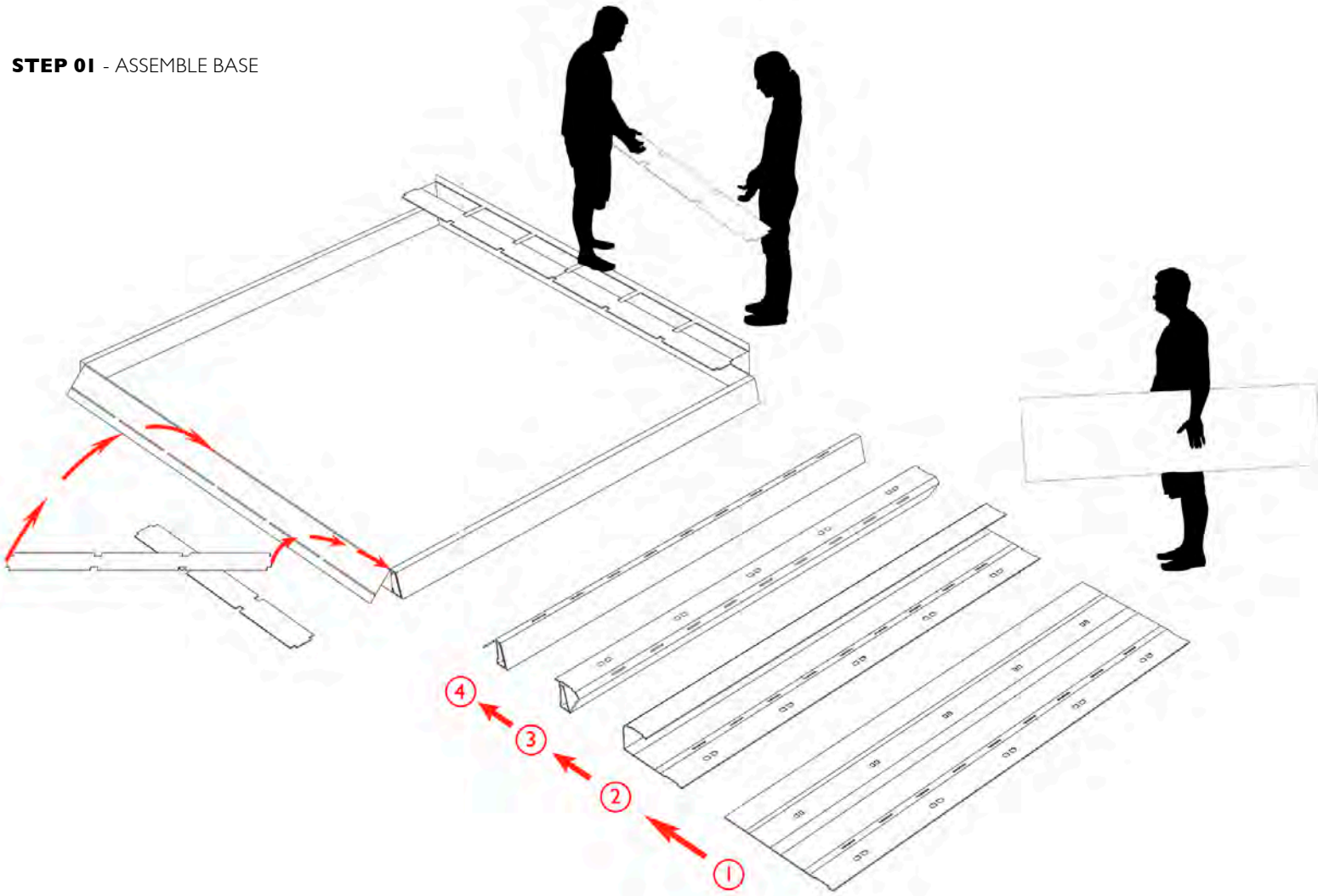
WEIGHT: 74 kgs

DIMENSIONS: 1903mm x 787mm x 429mm

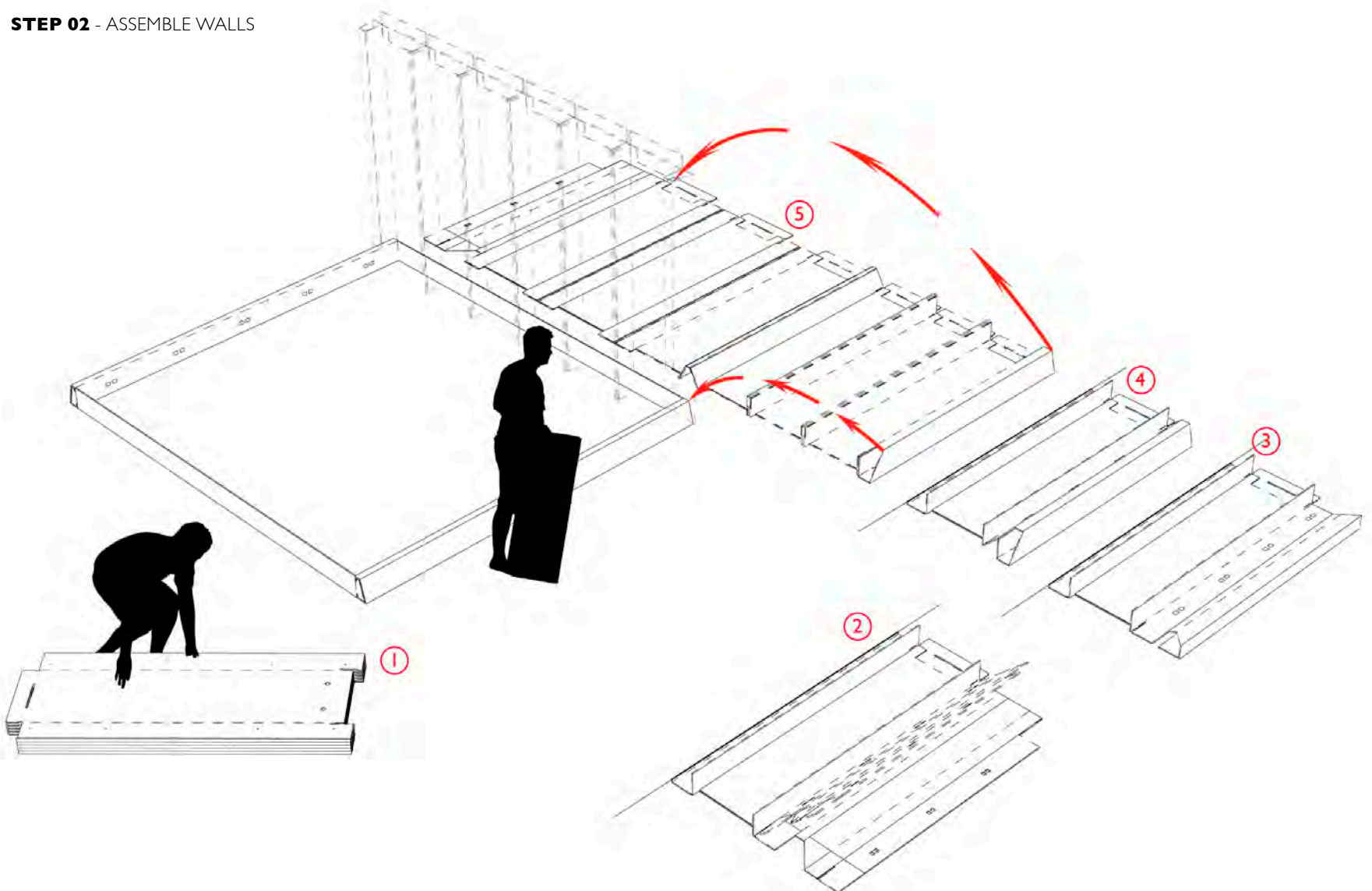


### 10.1.2 ASSEMBLY INSTRUCTIONS

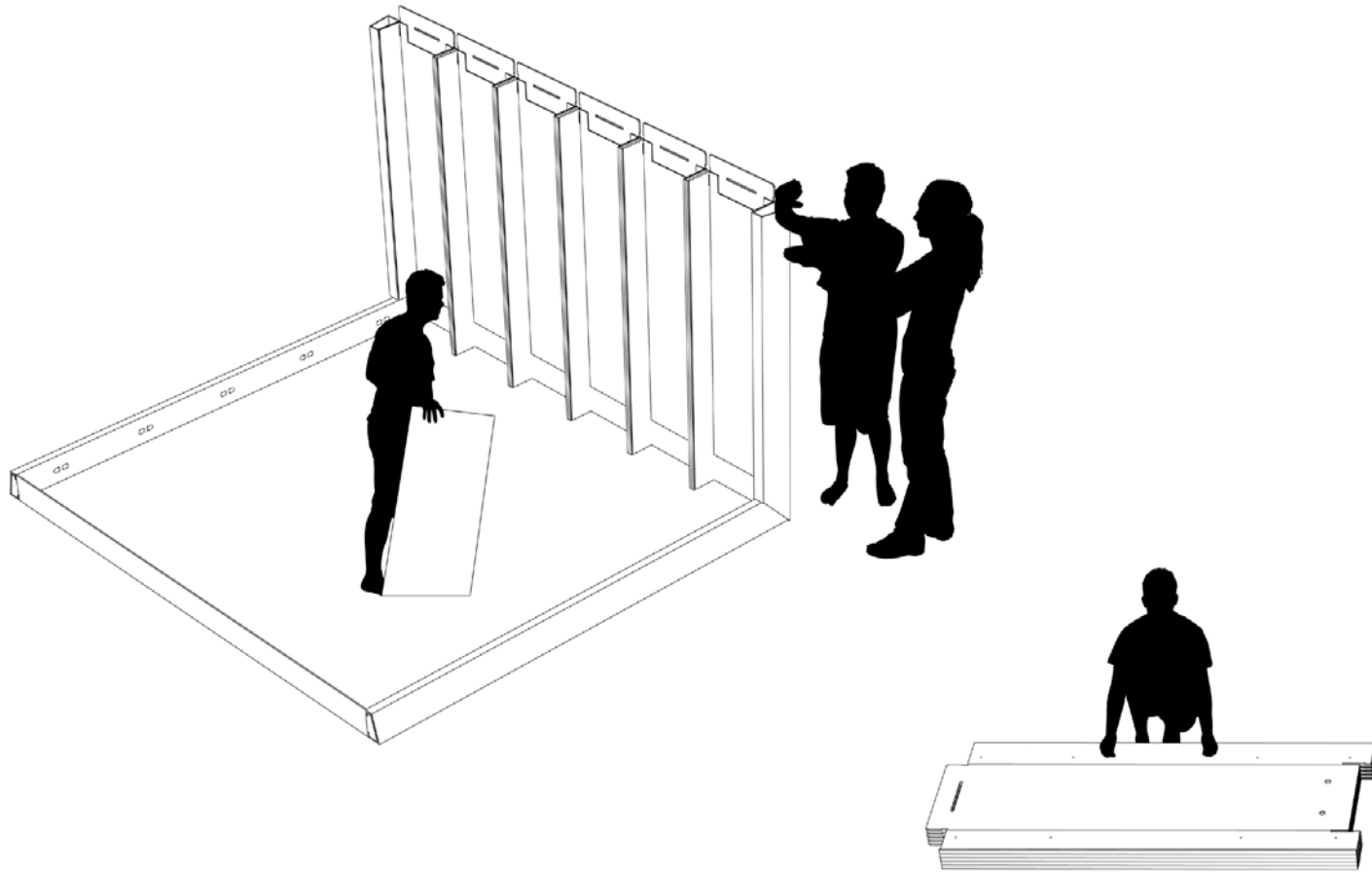
#### STEP 01 - ASSEMBLE BASE



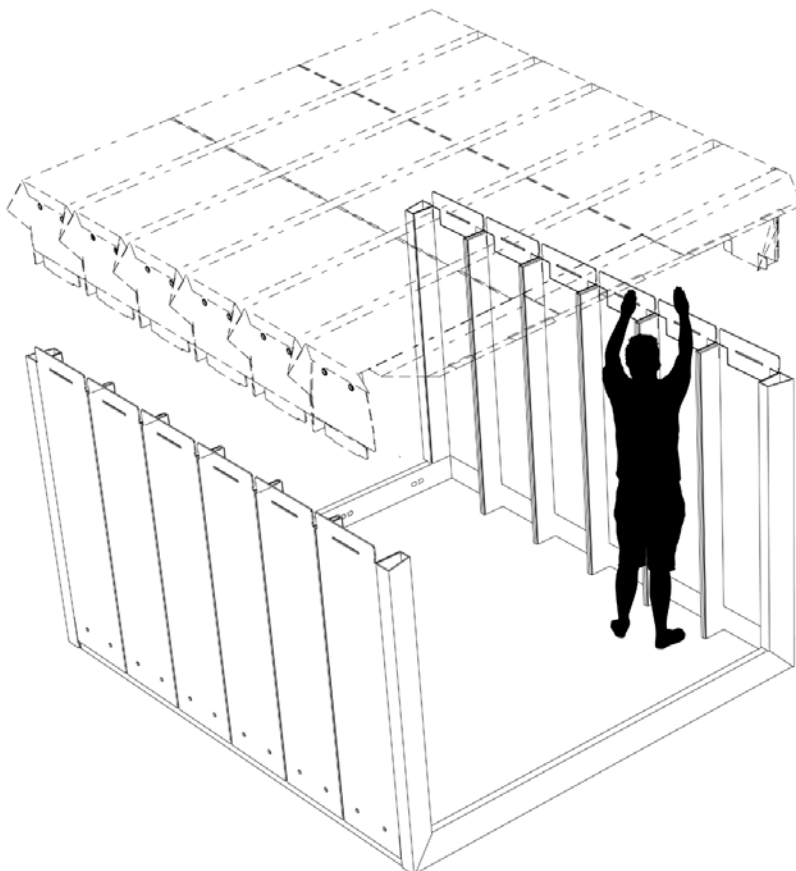
#### STEP 02 - ASSEMBLE WALLS



**STEP 03** - LIFT WALL SECTIONS ONTO BASE +  
SECURE WITH PLASTIC STUDS



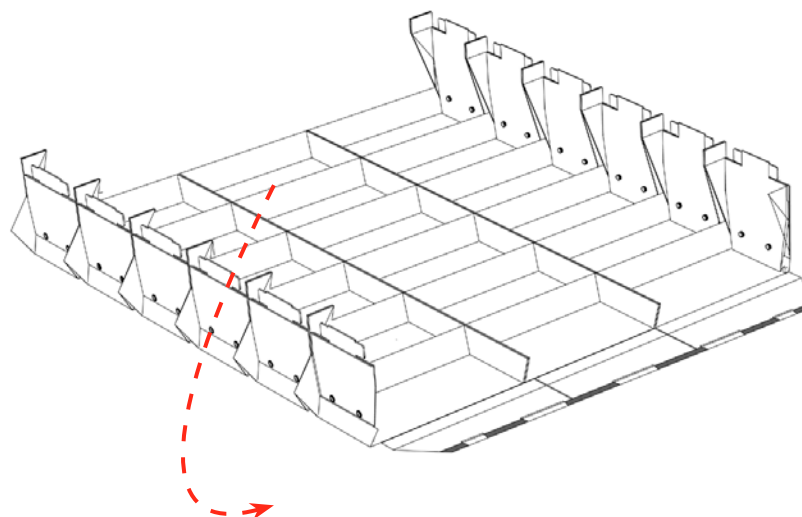
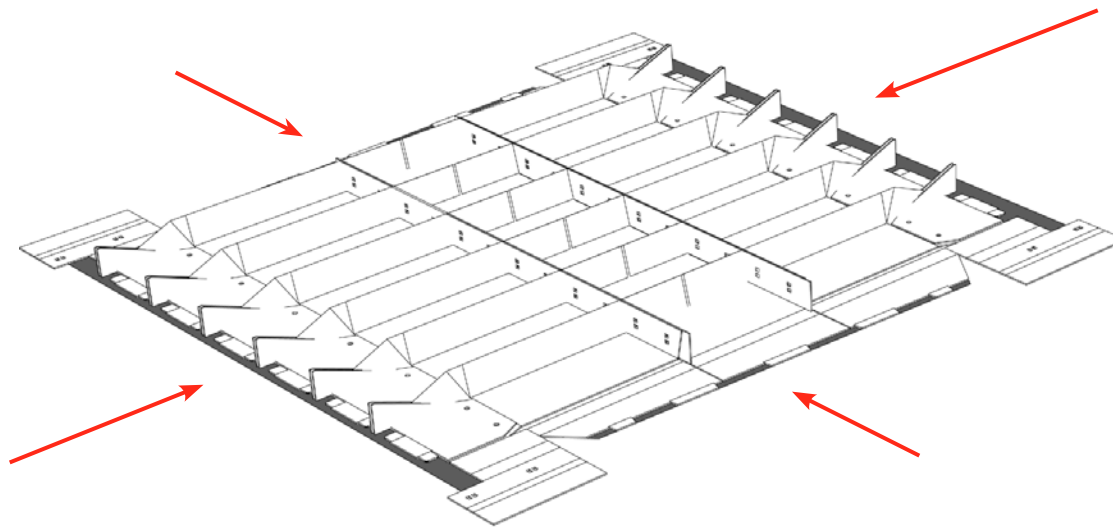
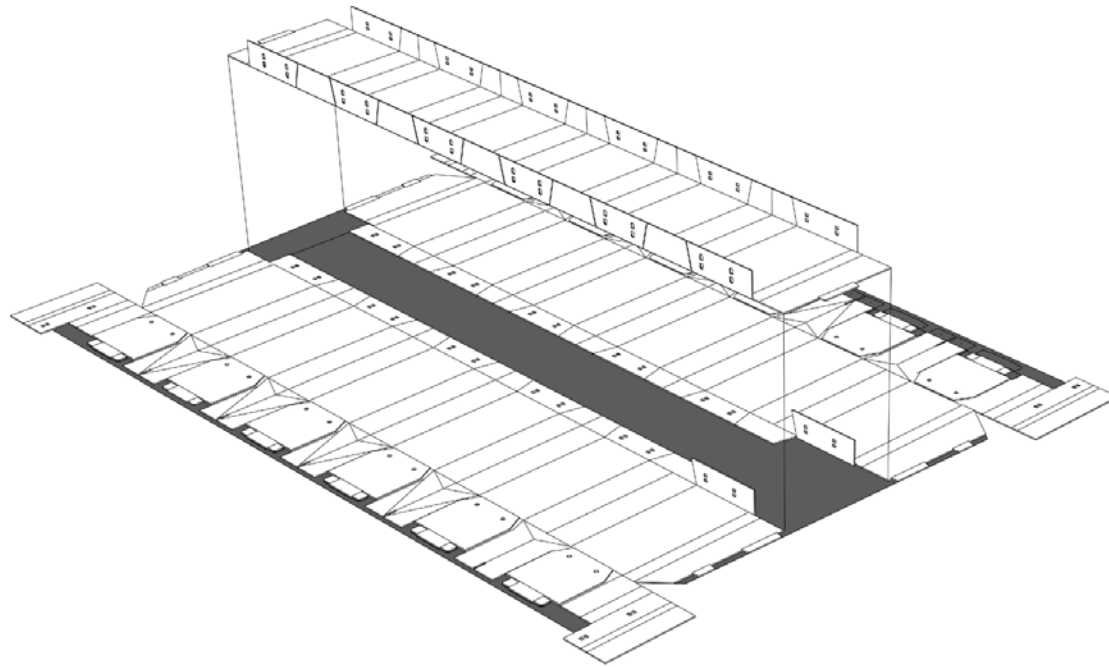
**STEP 05** - PLACE ROOF ONTO WALLS AND  
SECURE TO ROOF FLAPS



..... **STEP 04** - UNFOLD ROOF PACKAGE + PLACE-PART B ONTO PART B.

START IN A CORNER AND ASSEMBLE PRE-DEFINED FOLDS AND LOCKS

WHEN ROOF IS COMPLETE TURN OVER AND PLACE ONTO WALLS

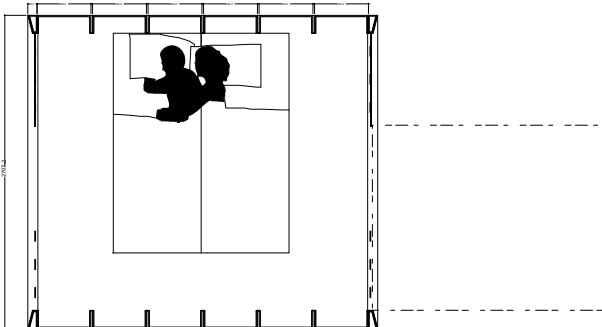
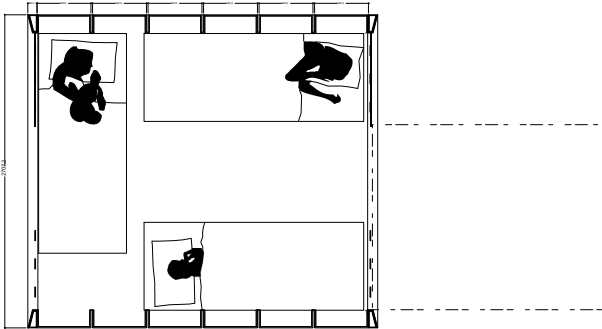
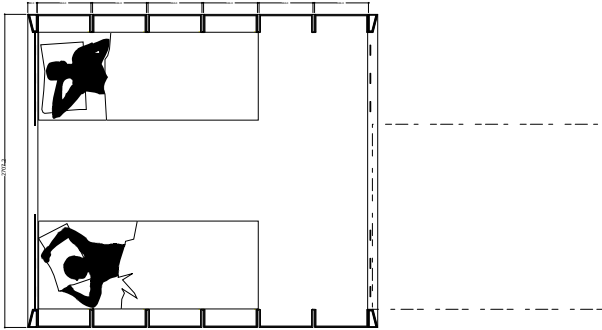
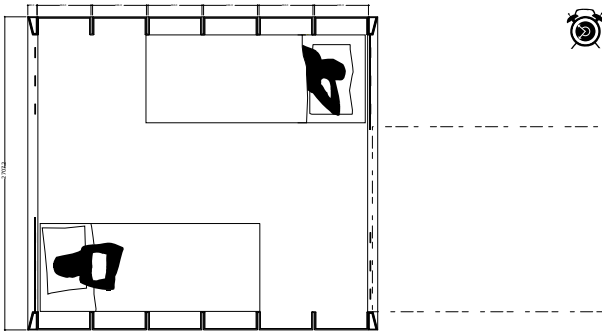


A

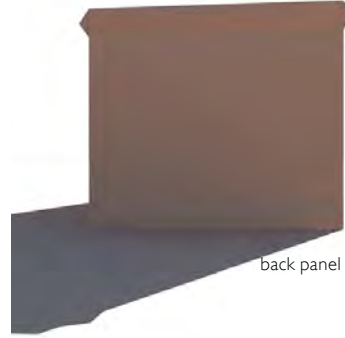
Conceptual options for the front and back panels. The connection details will ultimately influence the clustering variations.

### 10.1 FRONT + BACK PANEL OPTIONS

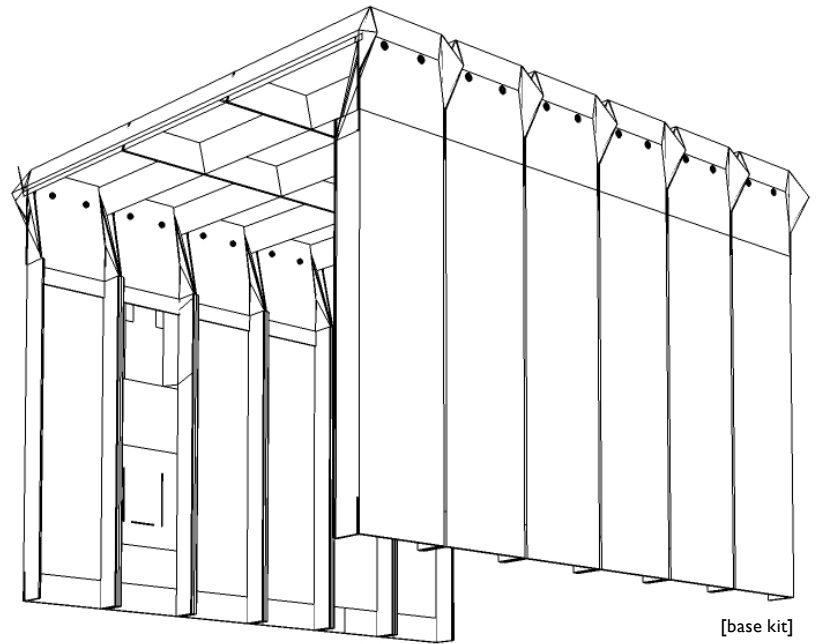
plan variations @ night



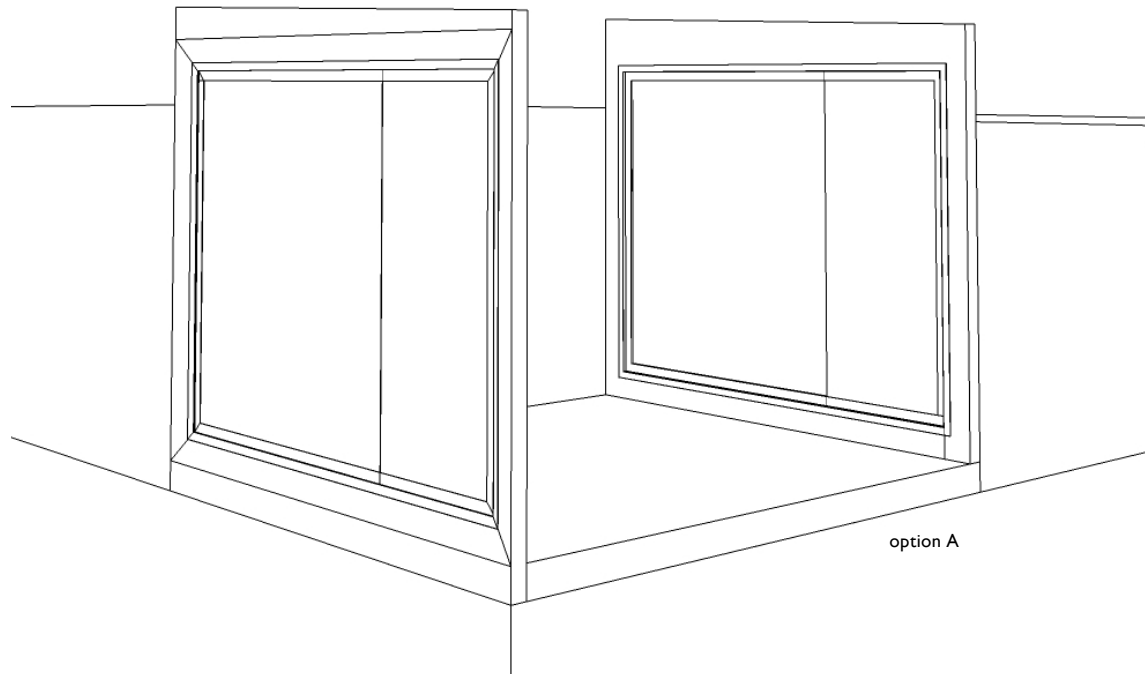
front panel



back panel

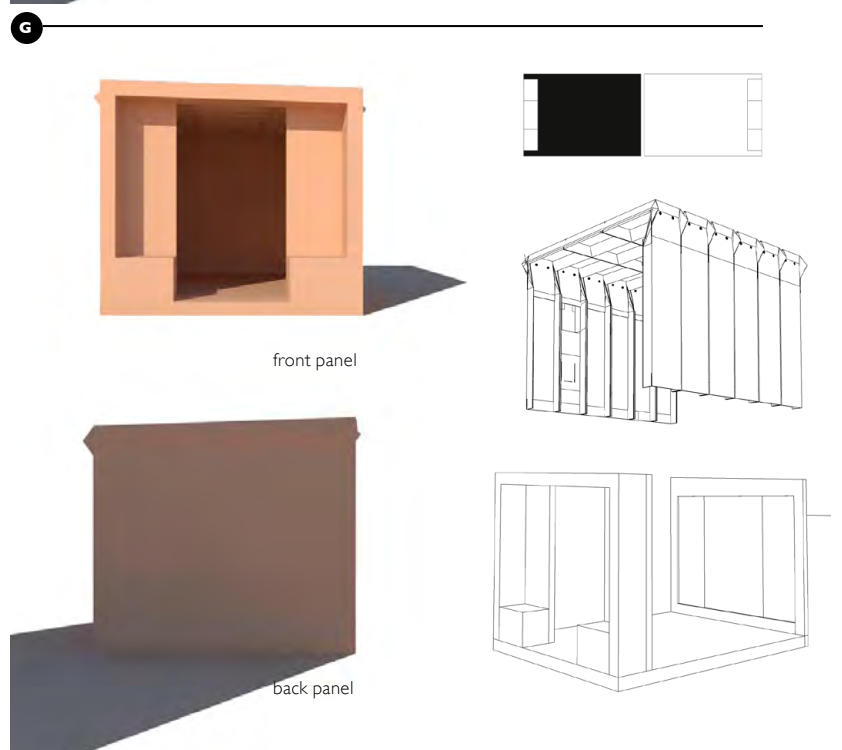
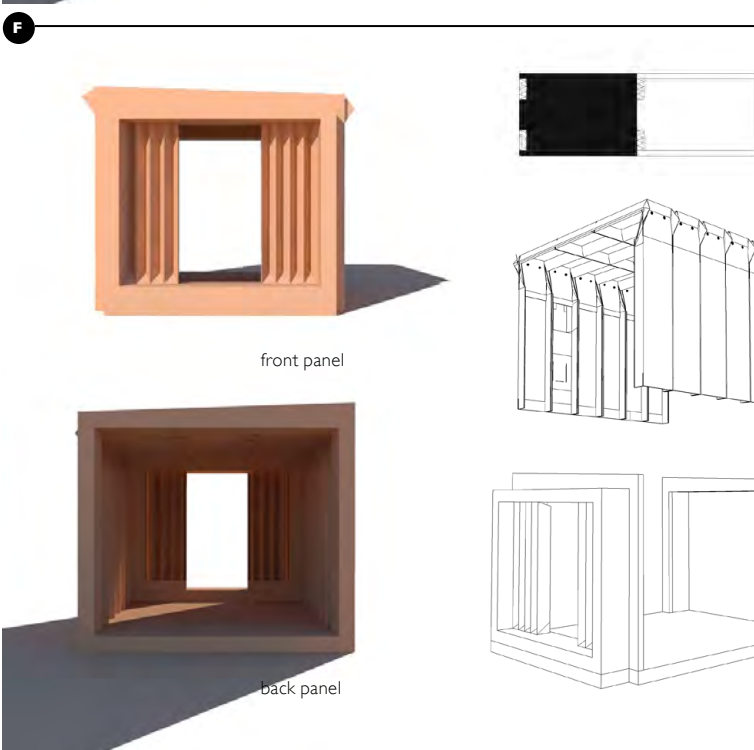
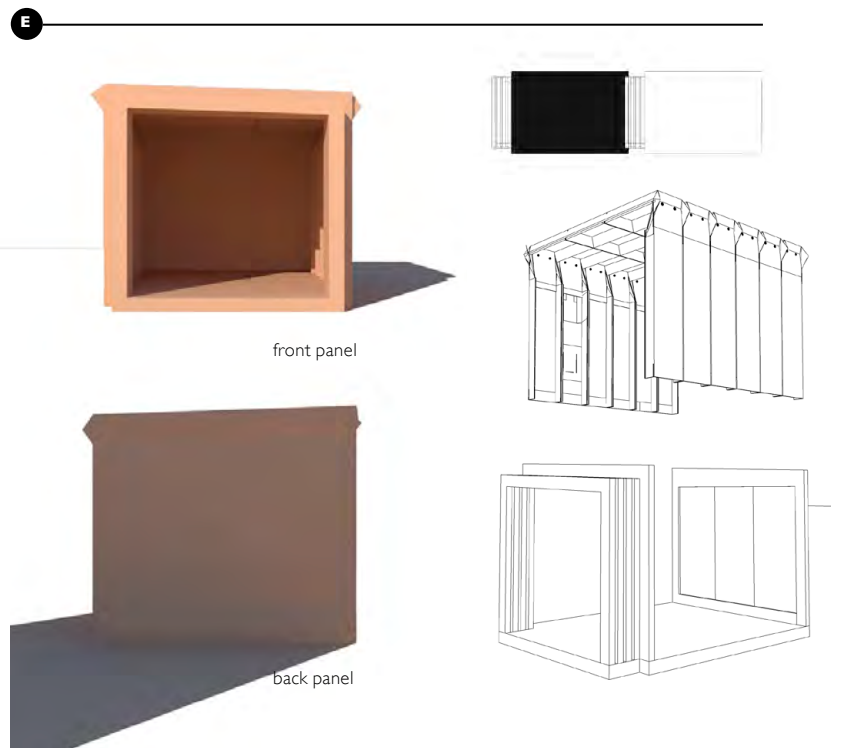
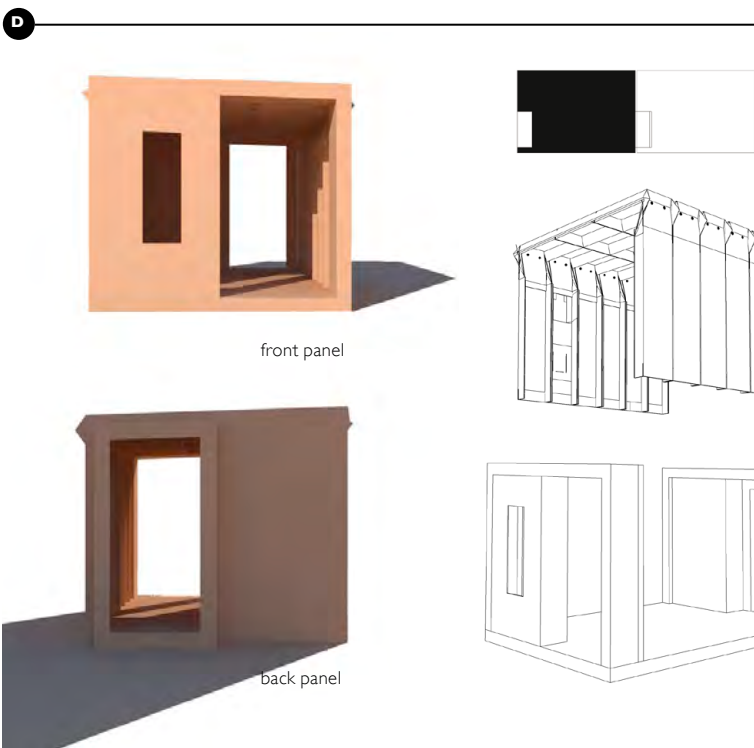
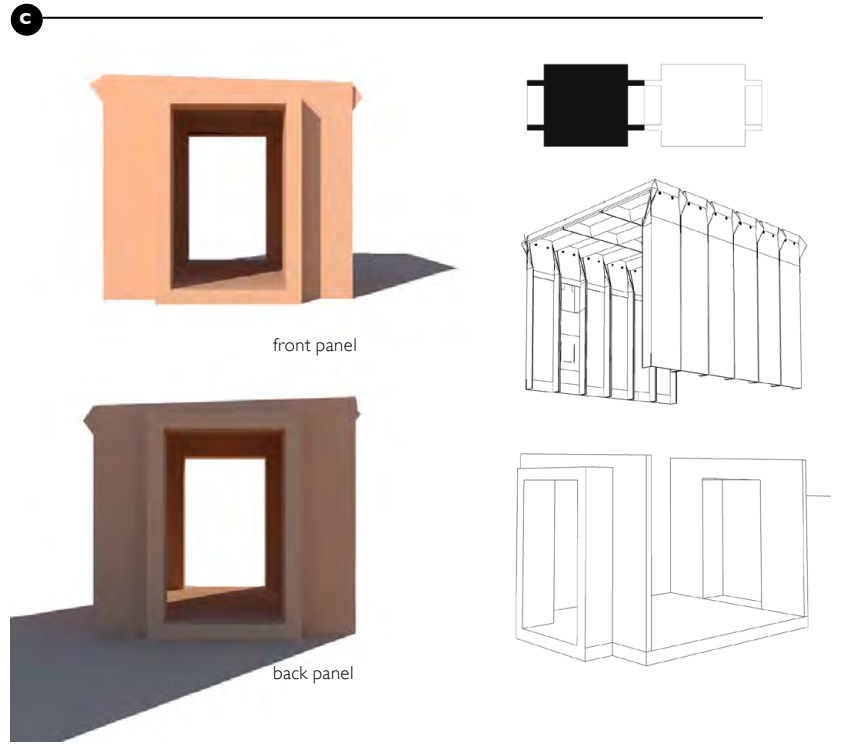
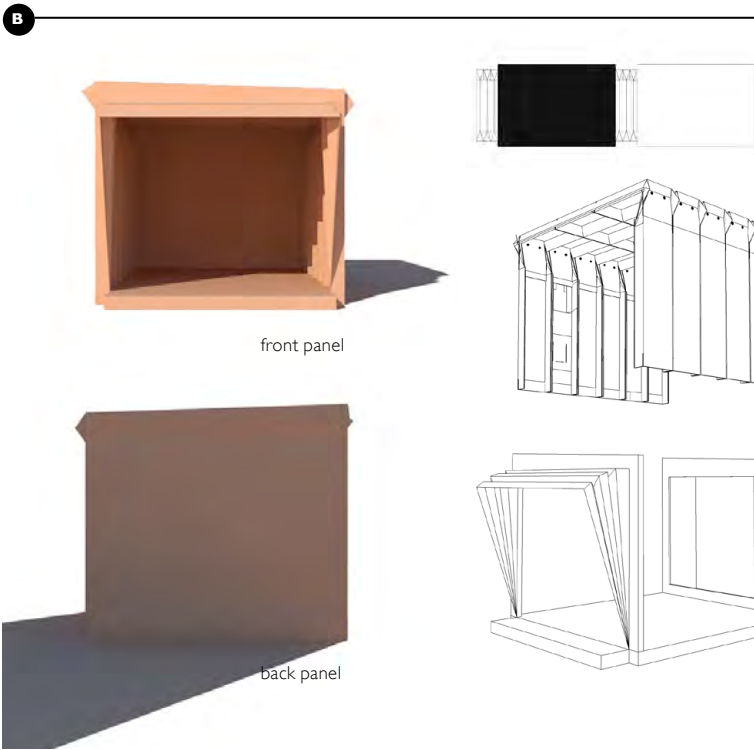


[base kit]



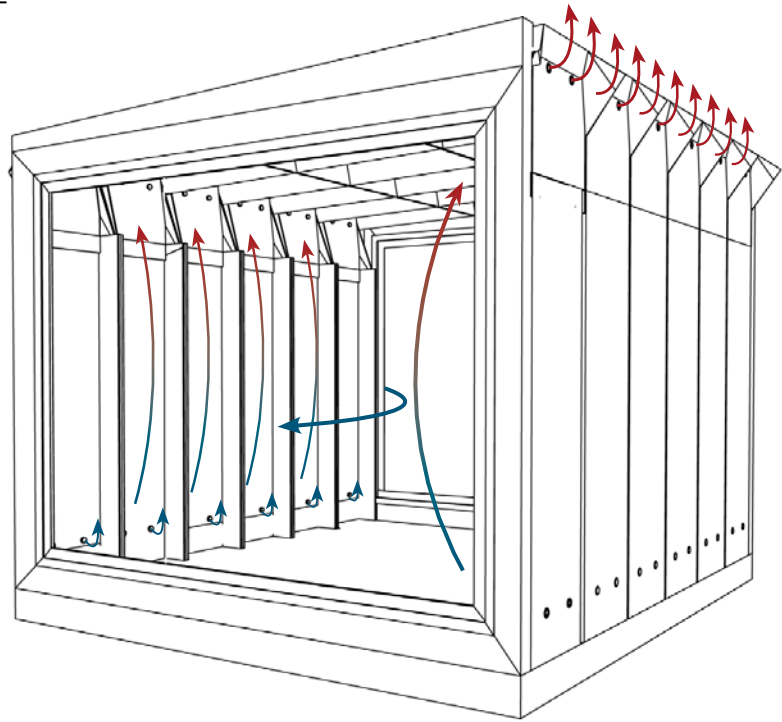
option A



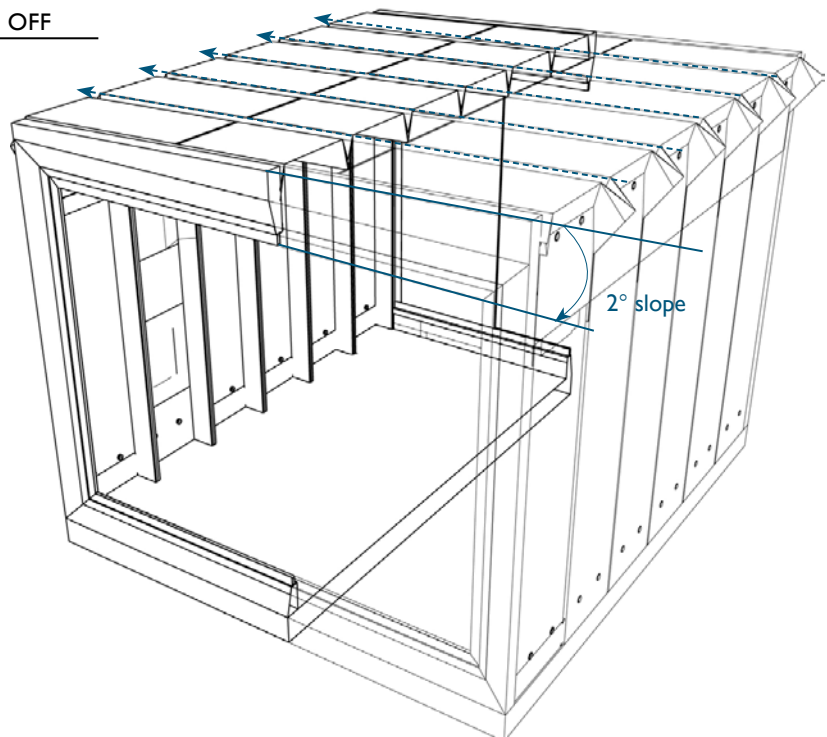


10.1 ENVIRONMENTAL COMFORT

● VENTILATION  
[not to scale]

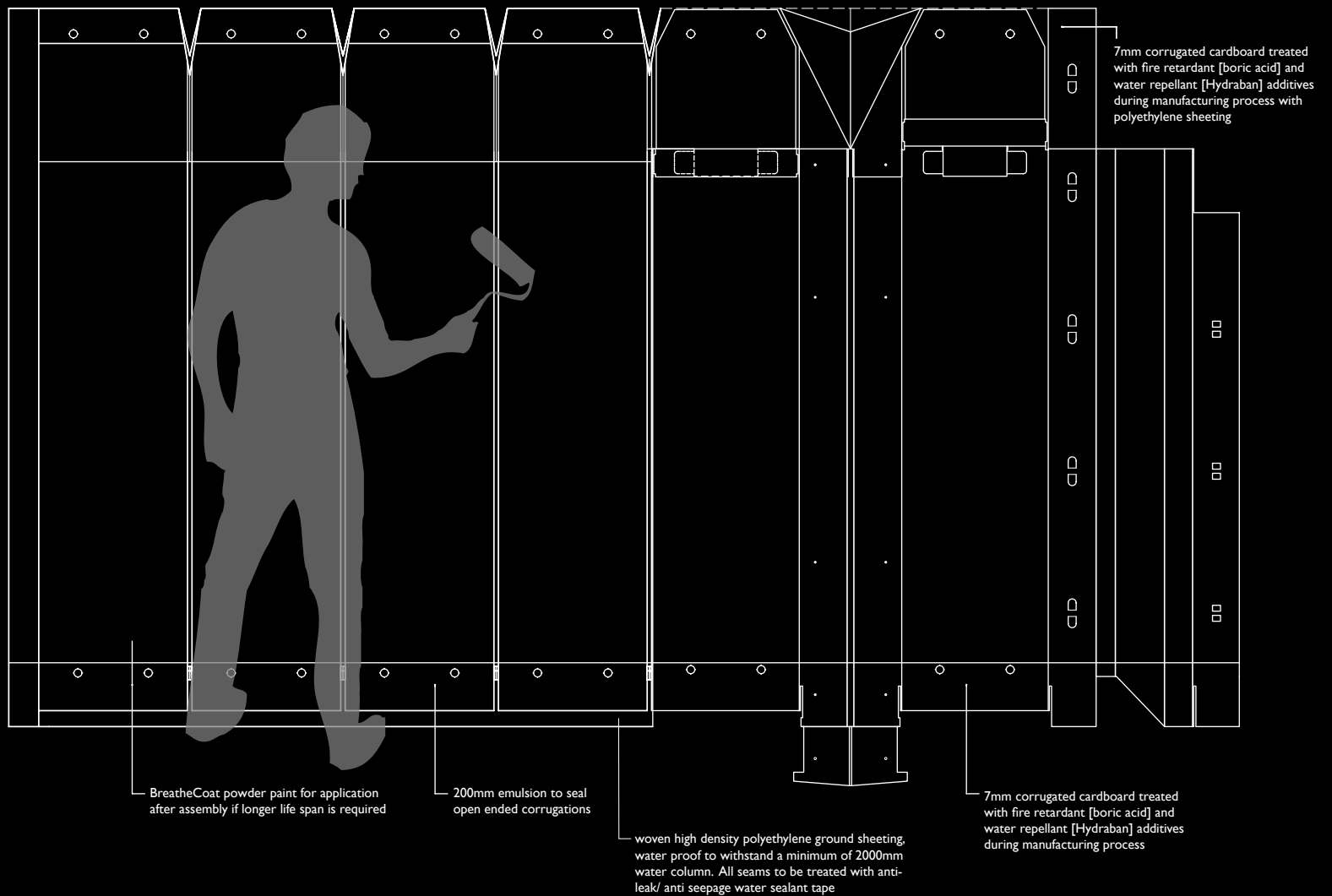


● RAIN WATER RUN OFF  
[not to scale]



## WATERPROOFING

elevation / section through shelter explaining waterproof coatings and treatments  
[scale: 1:20]



## 10.1 SCENARIOS IN SECTION

Section through shelter unit in various scenarios showing the diverse range of modular interior components

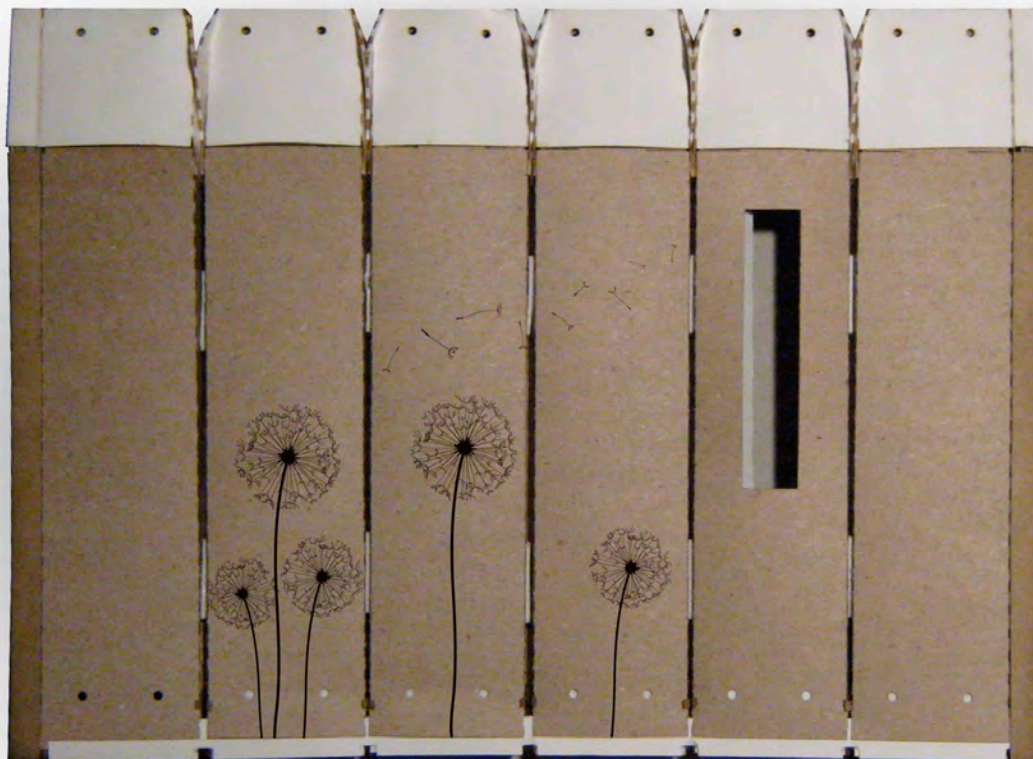
### SUBURBAN PERSPECTIVE

conceptual visualization  
[not to scale]



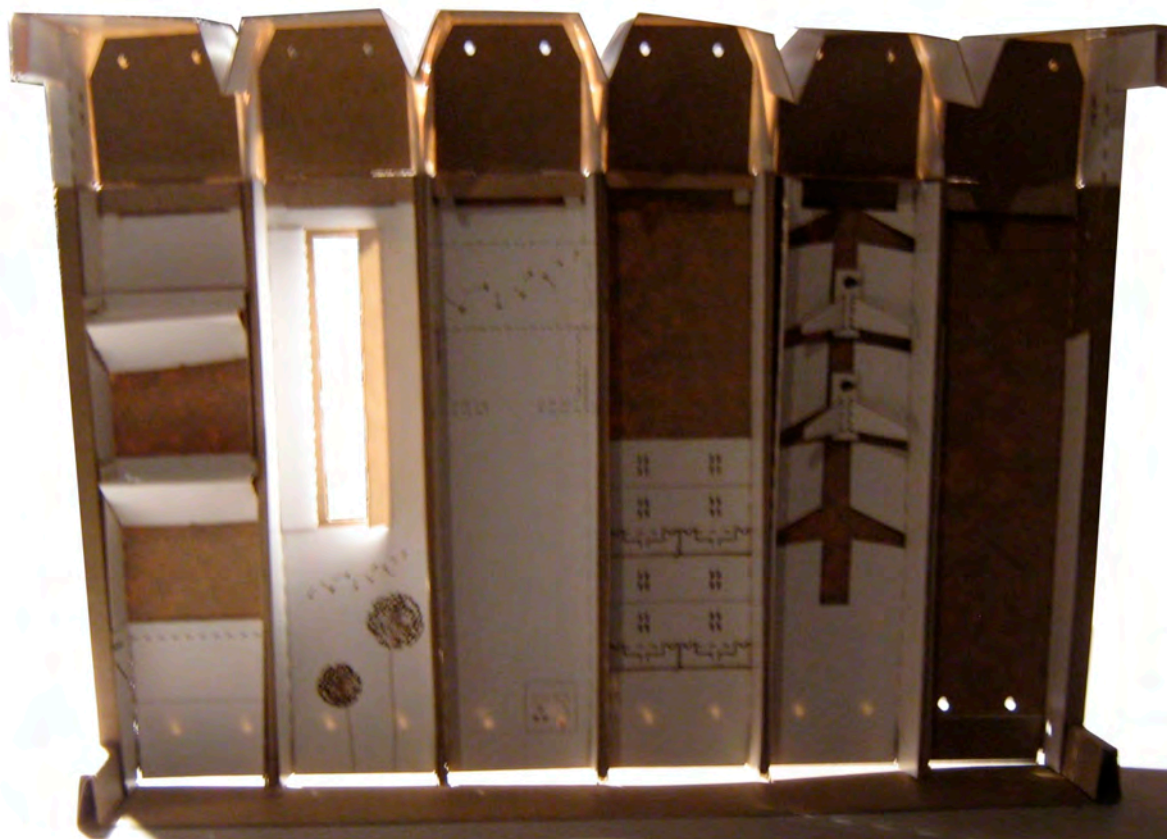
MODELS

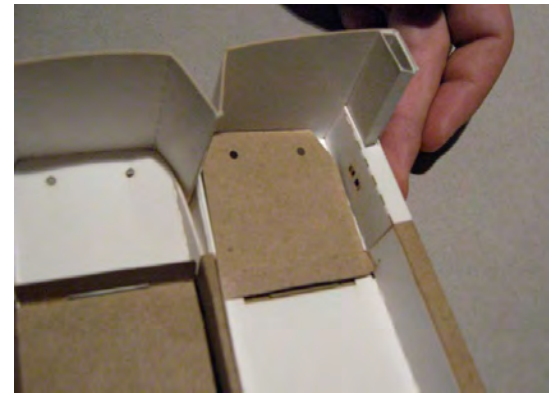
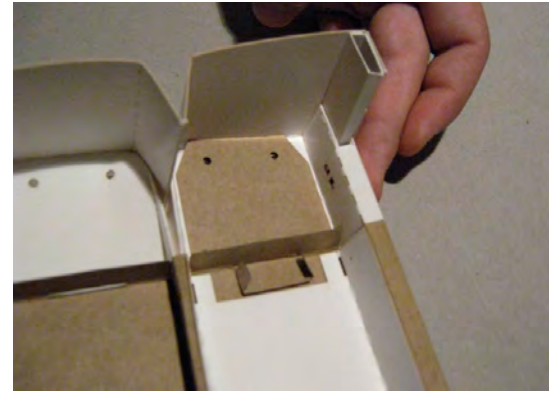
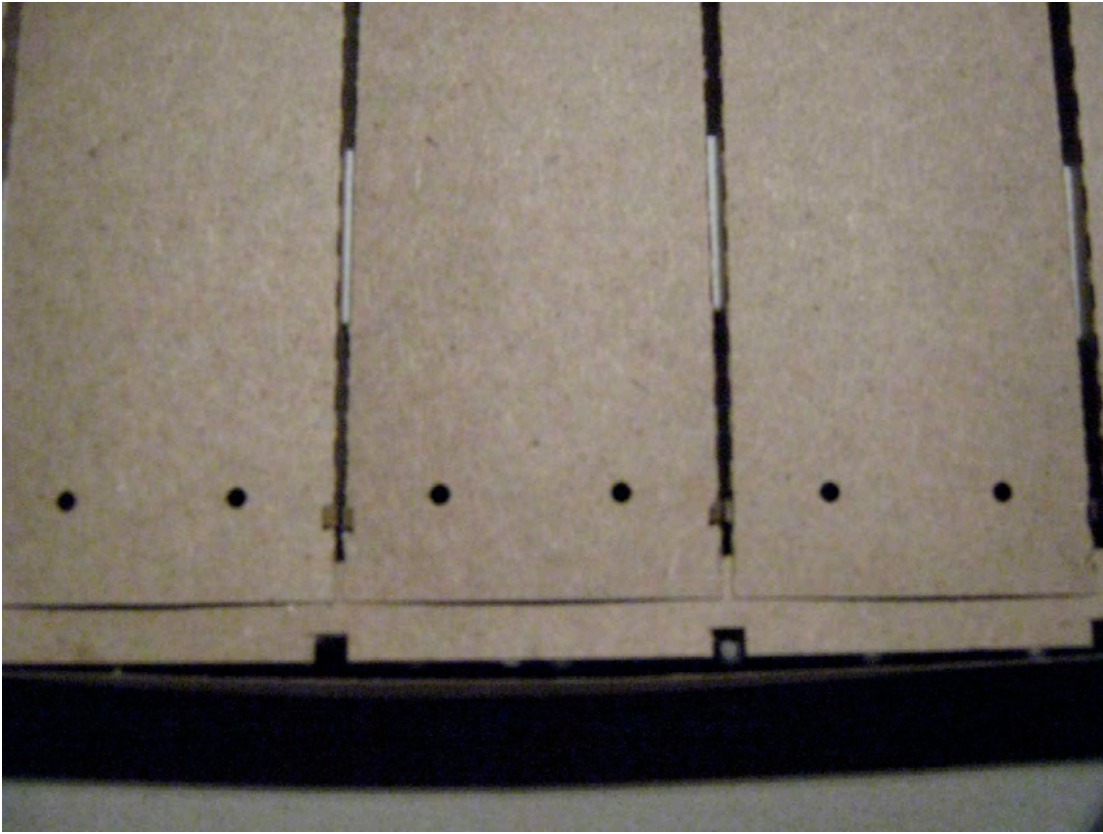
side elevation  
[scale 1:10]



MODELS

Interior section showing assembled interior components  
[scale 1:10]





**DETAIL 01**

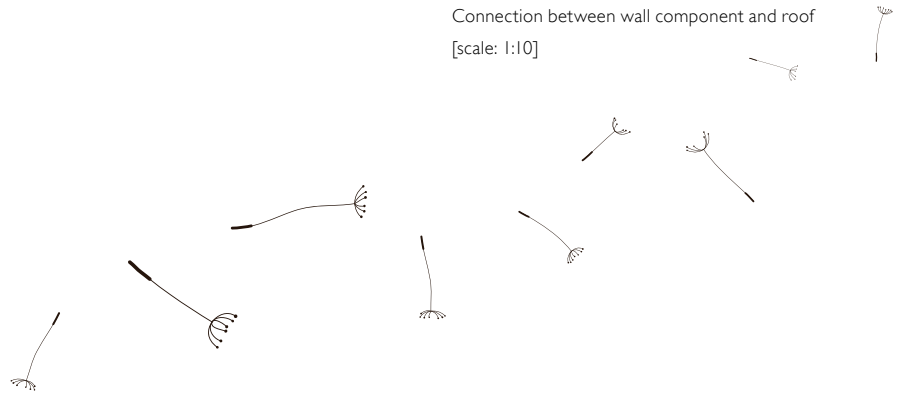
Connection between wall component and wall brace

[scale: 1:10]

**DETAIL 02**

Connection between wall component and roof

[scale: 1:10]



MODELS

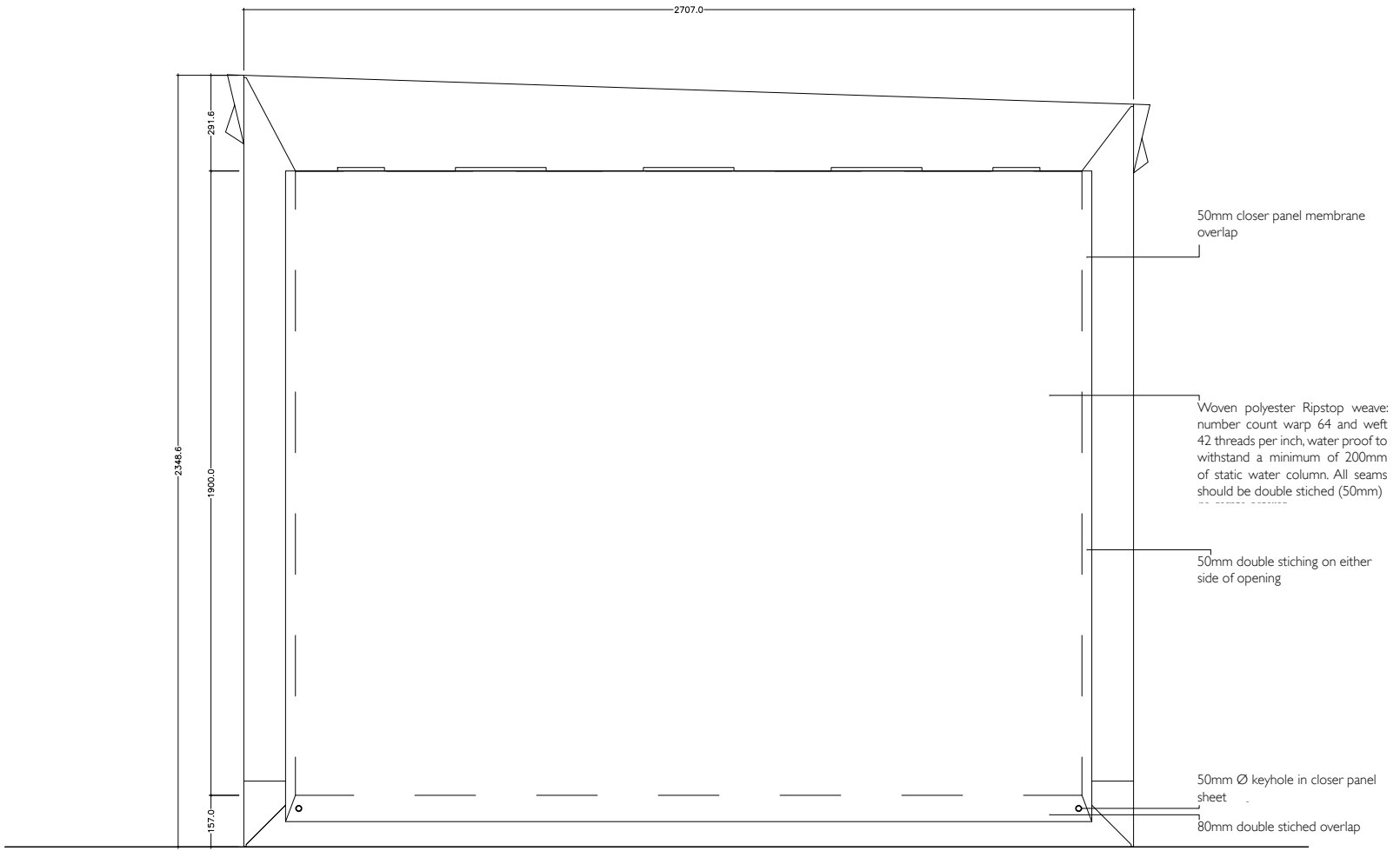
section model 01  
[scale 1:10]



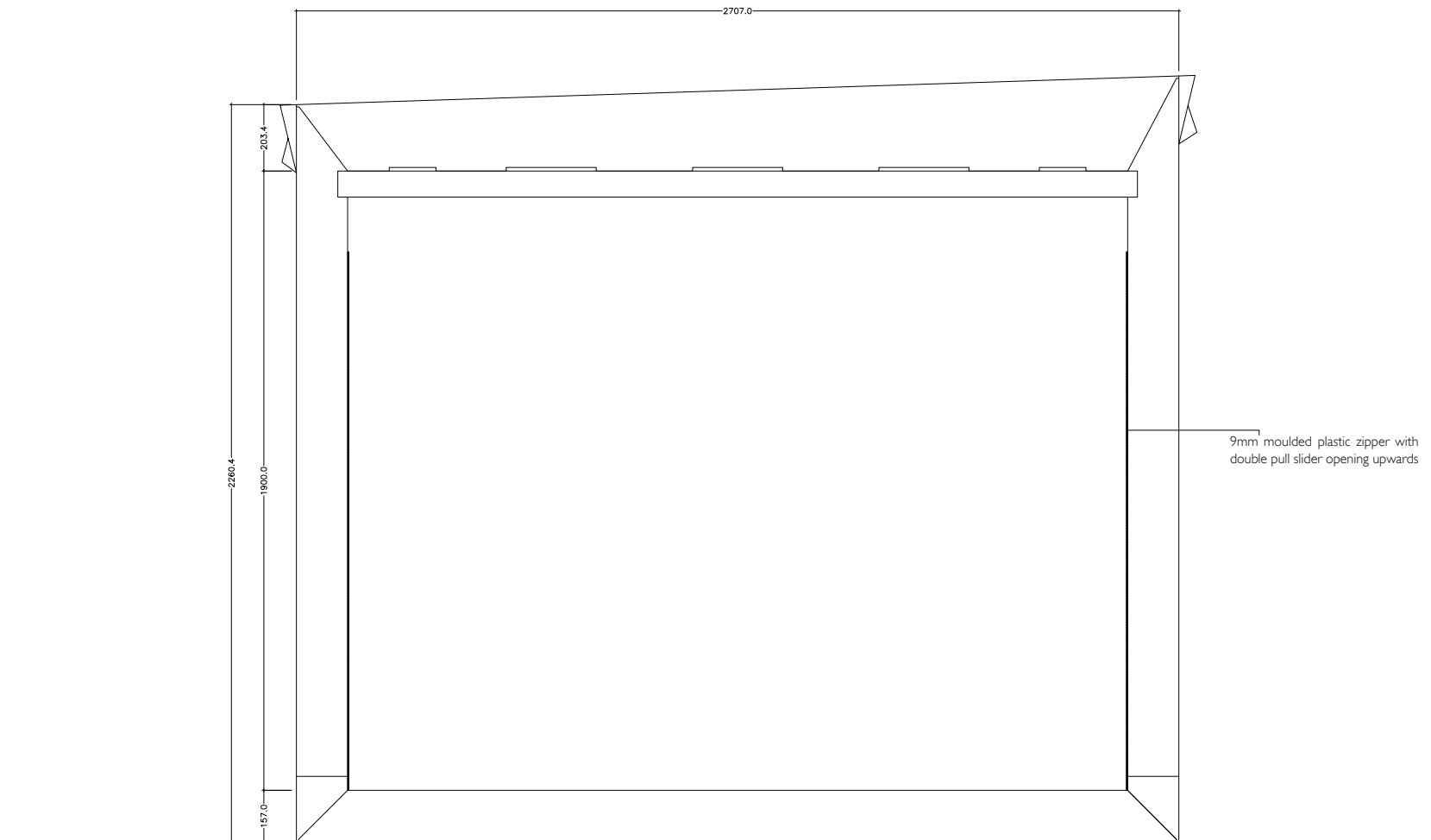
MODELS

Section model 02  
[scale 1:10]



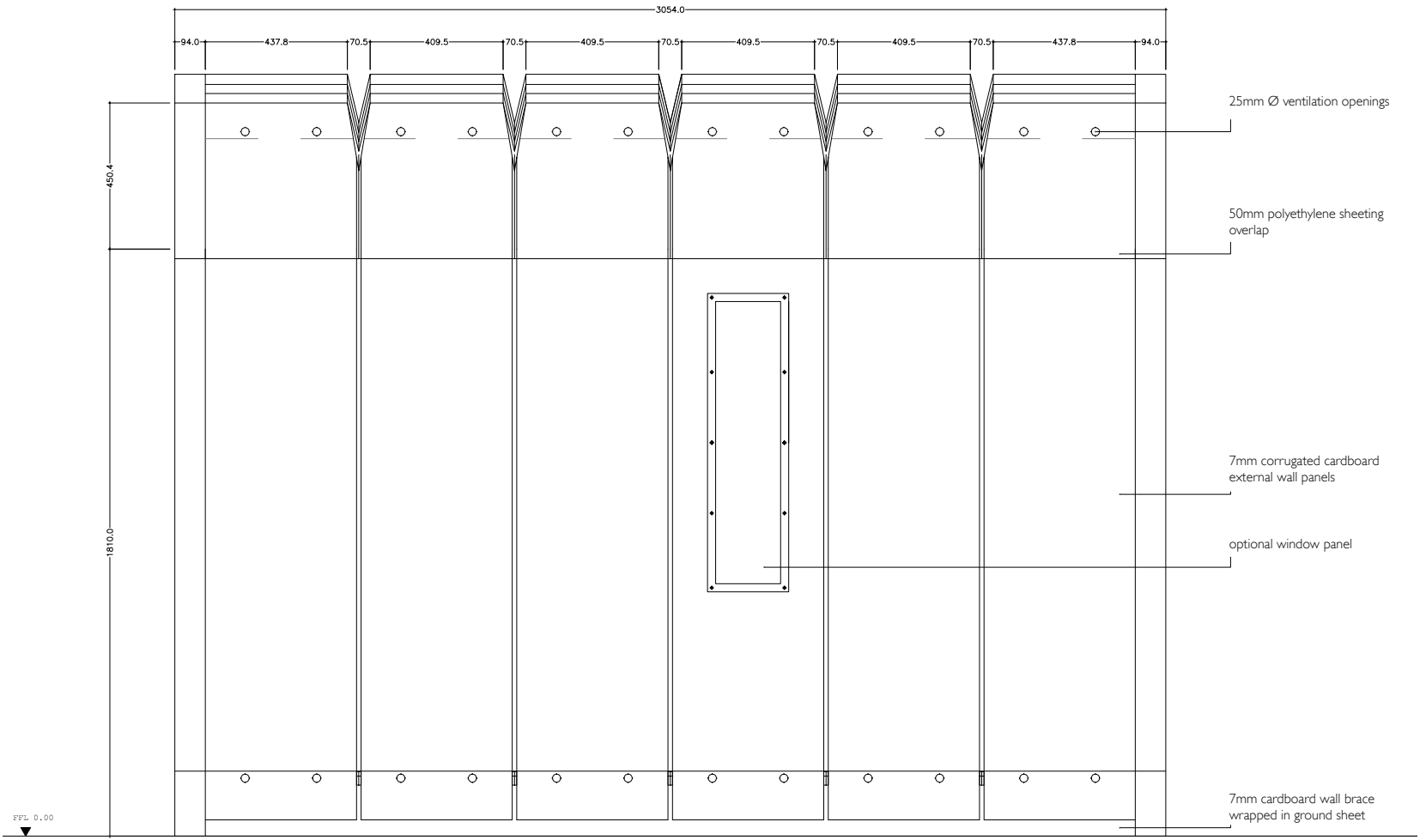


**SIDE ELEVATION**  
[scale 1:20]

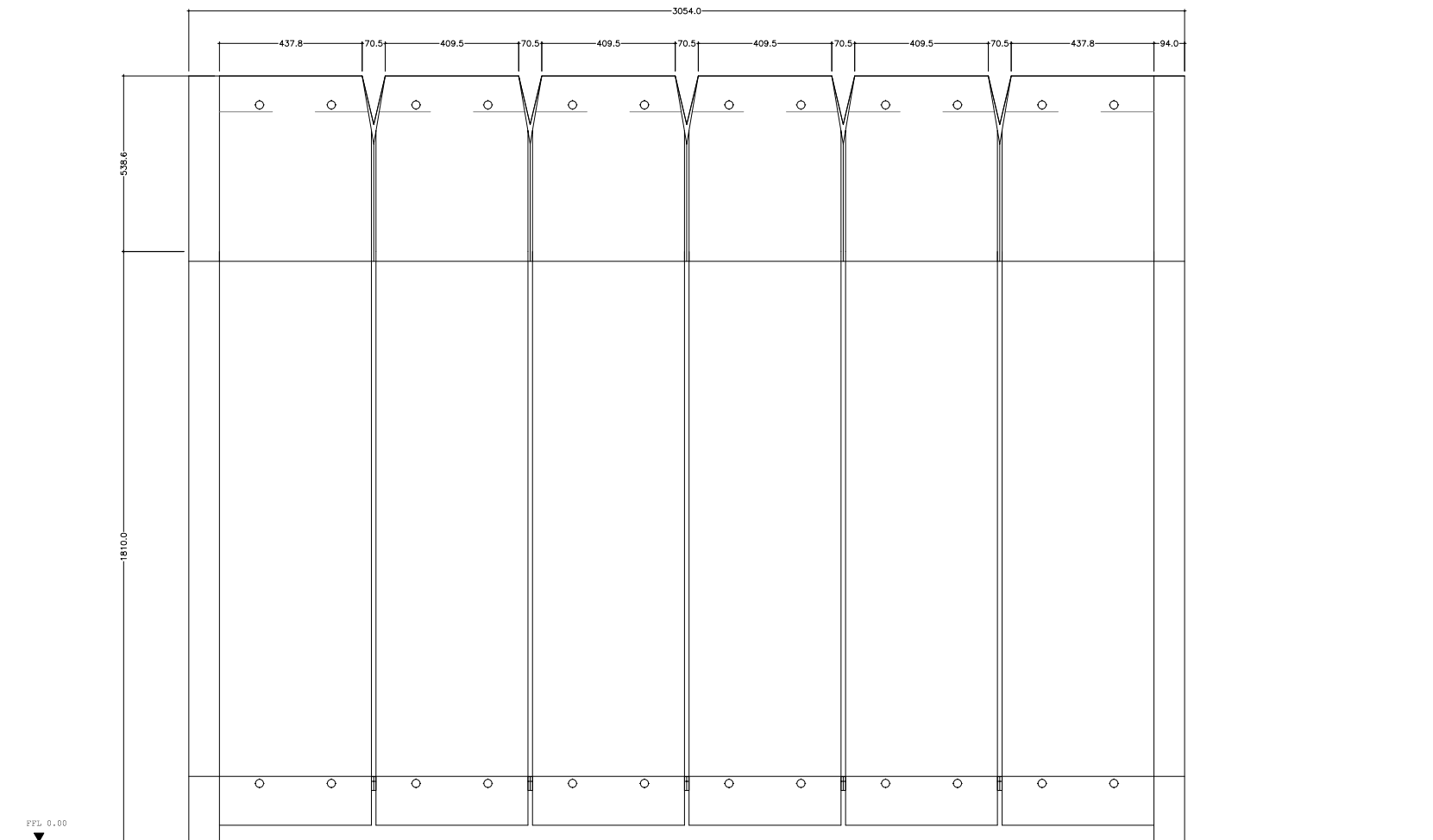


**SIDE ELEVATION**  
[scale 1:20]





**FRONT ELEVATION**  
[scale 1:20]



**BACK ELEVATION**  
[scale 1:20]

## 10.1 BRANDING OPPORTUNITIES

elevation variations  
[not to scale]

