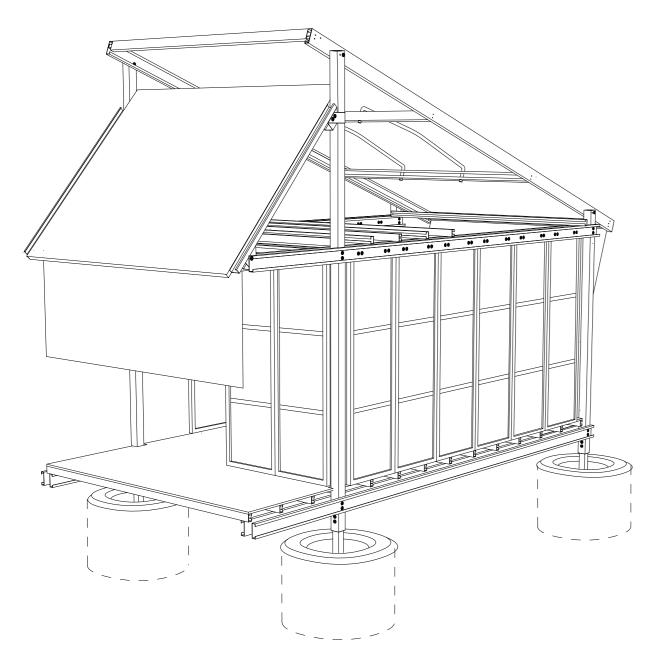
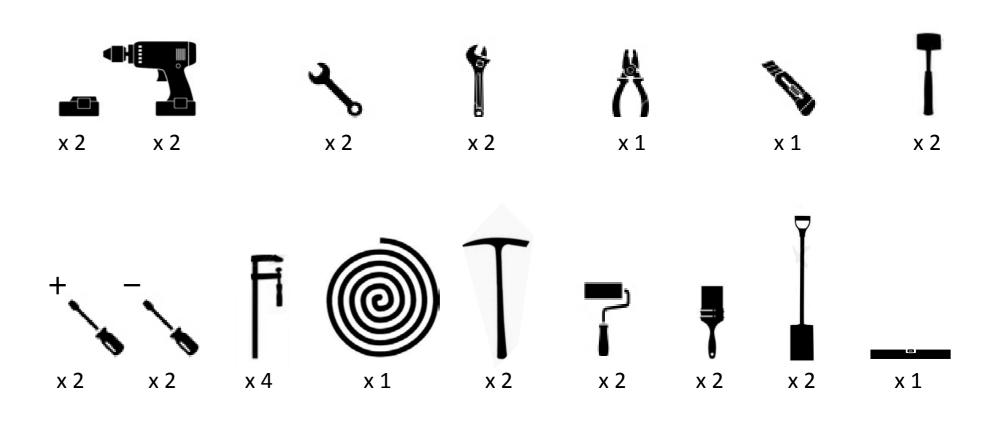


# SINGLE COMPLETED MODULE

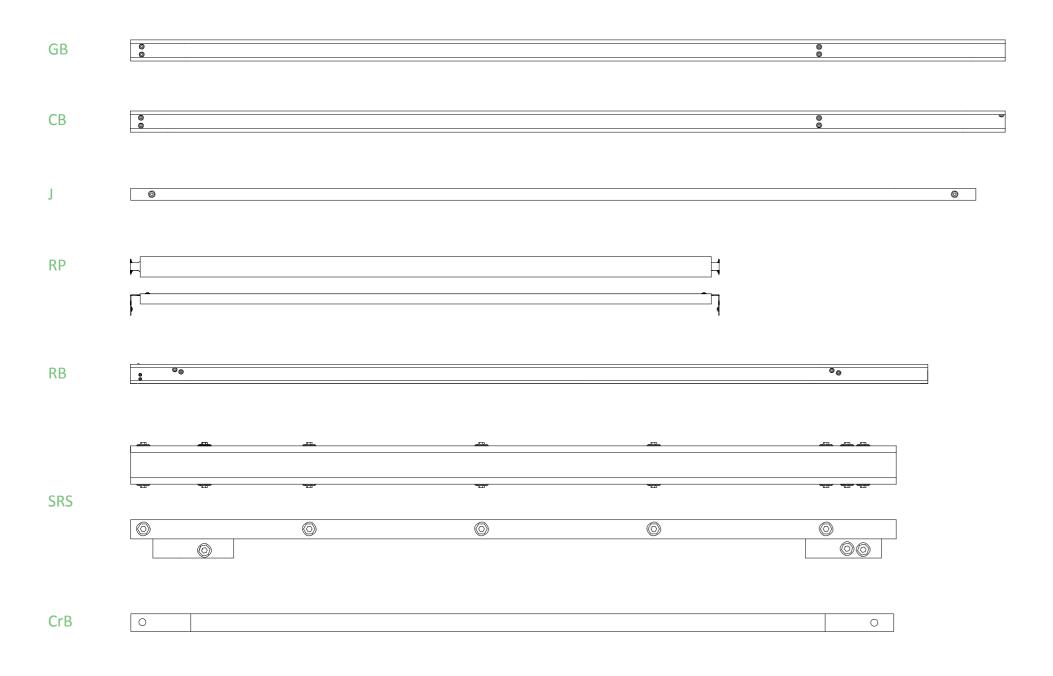


**TOOLS** 

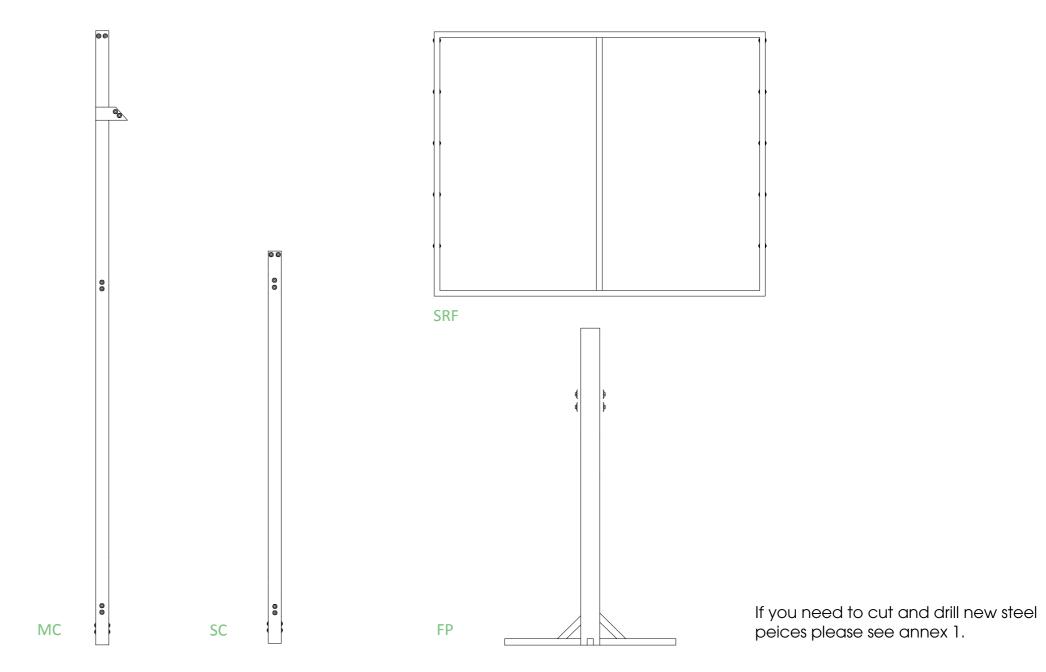


Instructions are based on one small classroom module.

### **MATERIALS**



### **MATERIALS**

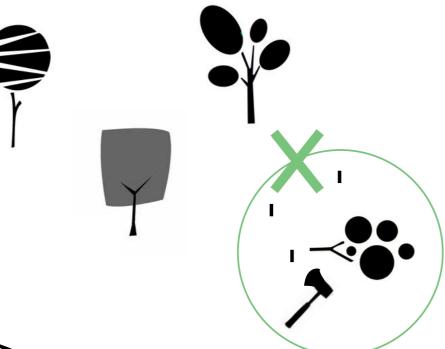


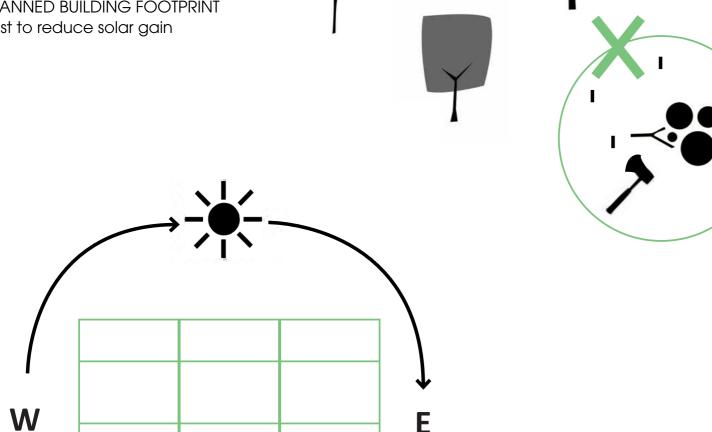
### SITE PREPARATION

1. CHECK SITE FOR TREES

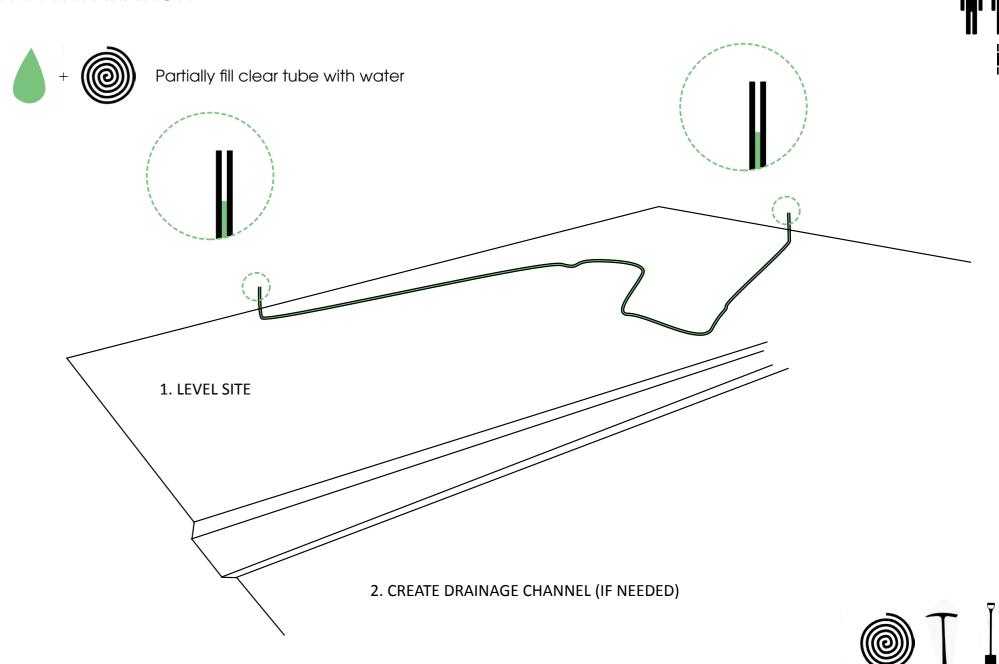
Keep trees that will help shield wind and sun Avoid large ones that will interfere with foundations and ground swell. Dont unnecessarily fell trees

2. CHECK AXIS OF PLANNED BUILDING FOOTPRINT Orientate West to East to reduce solar gain





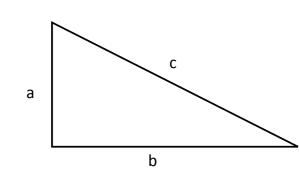
### SITE PREPARATION



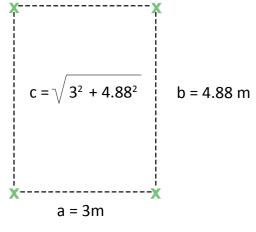
### **FOUNDATION POINTS**

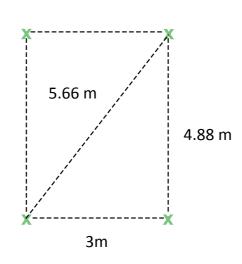
### 1. USE PYTHAGOREAN THEOREM









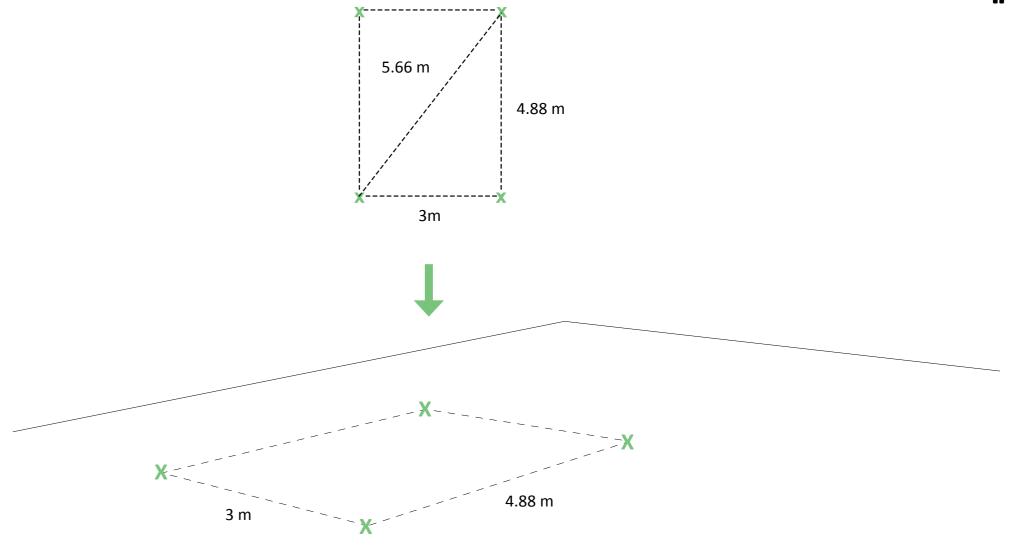


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# **FOUNDATION POINTS**

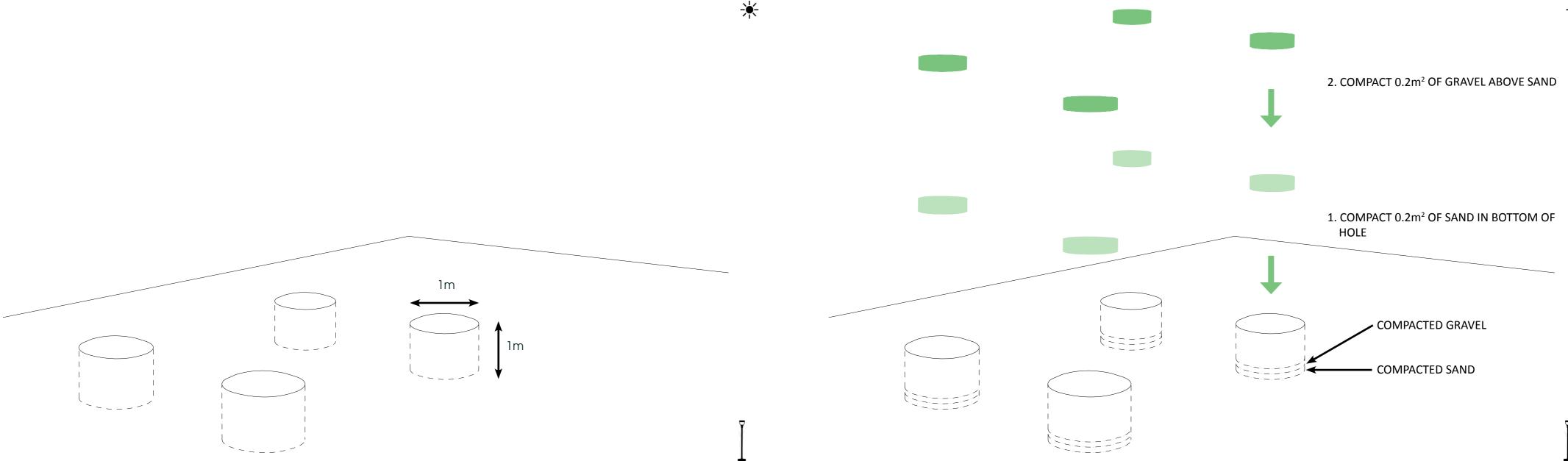






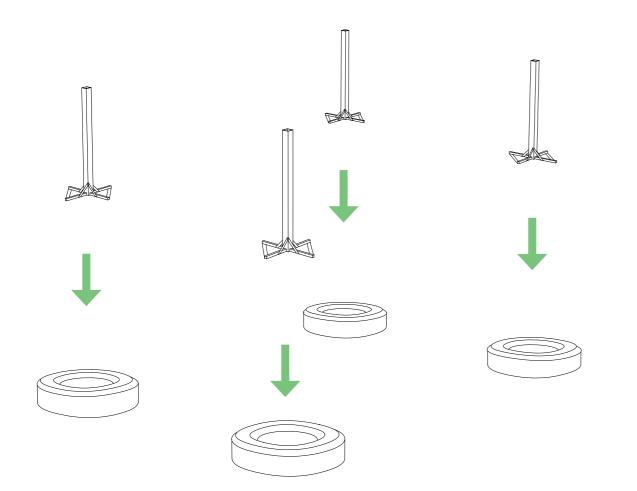
# **FOUNDATION SETTING**





### FOUNDATION FOOT DETAIL

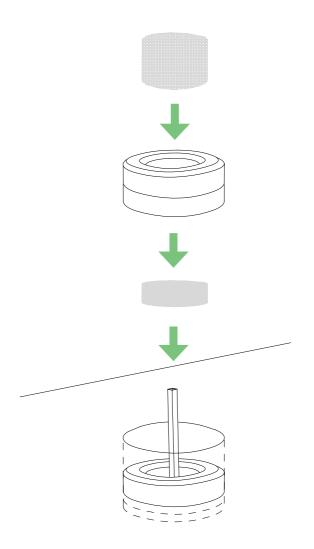
### 1. PLACE FOUNDATION POSTS INTO FIRST TYRES





### **FOUNDATION FOOTINGS**

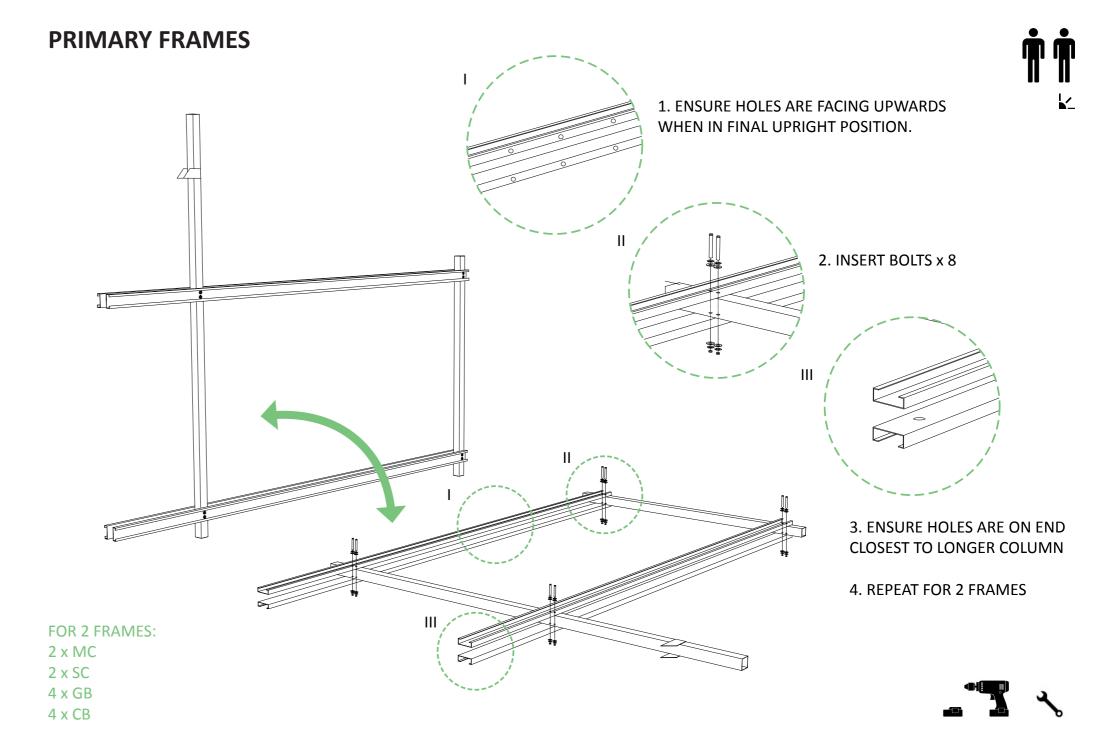




- 5. FILL HOLE WITH GRAVEL TO GROUND LEVEL
- 4. USE LEVEL TO ENSURE POST IS STRAIGHT
- 3. PLACE SECOND + THIRD TYRES INTO HOLES
- 2. FILL WITH GRAVEL TO TOP OF FIRST TYRE AND COMPACT TO FILL IN AIR POCKETS
- 1. PLACE POSTS + FIRST TYRES INTO HOLES

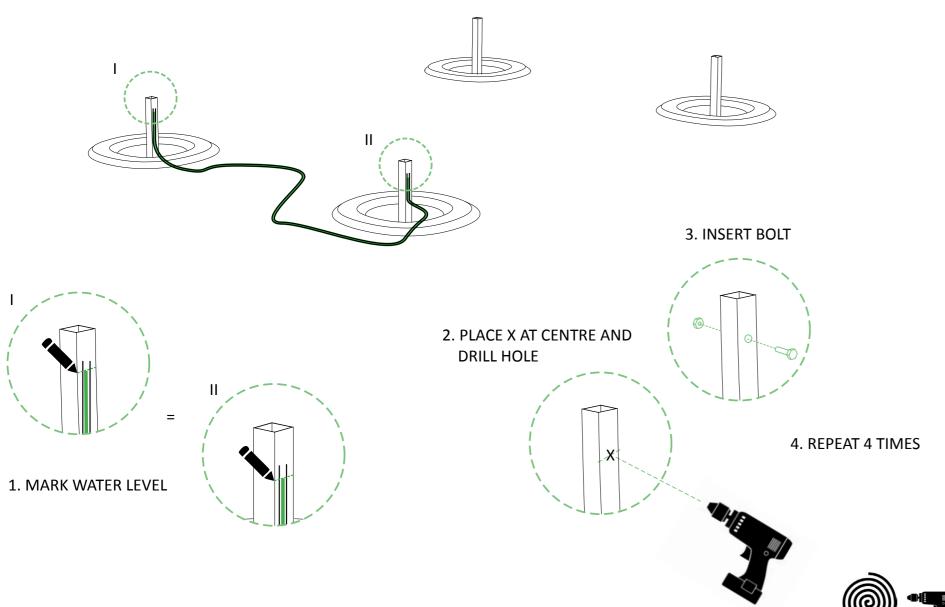


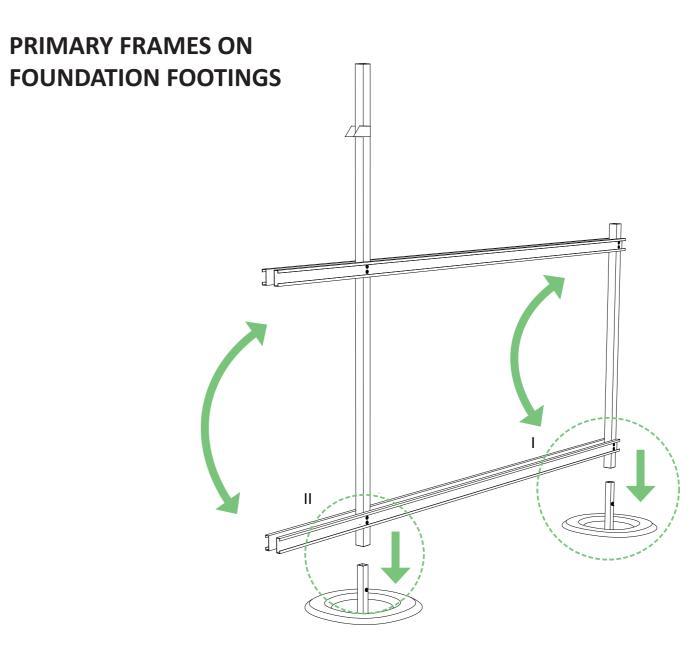
# **FOUNDATION FOOTINGS** 1. REPEAT 3 TIMES

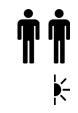


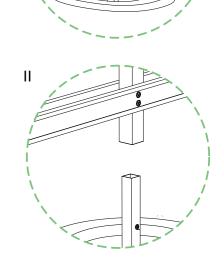
### FOUNDATION FOOTING BOLT PLACEMENT











SITS ON SINGLE BOLT
 REPEAT FOR 2 FRAMES

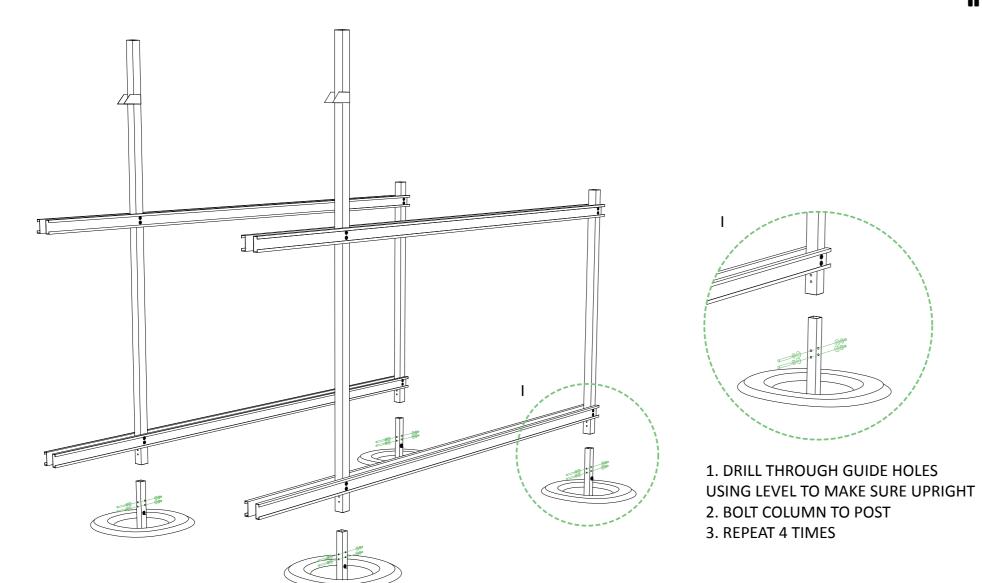


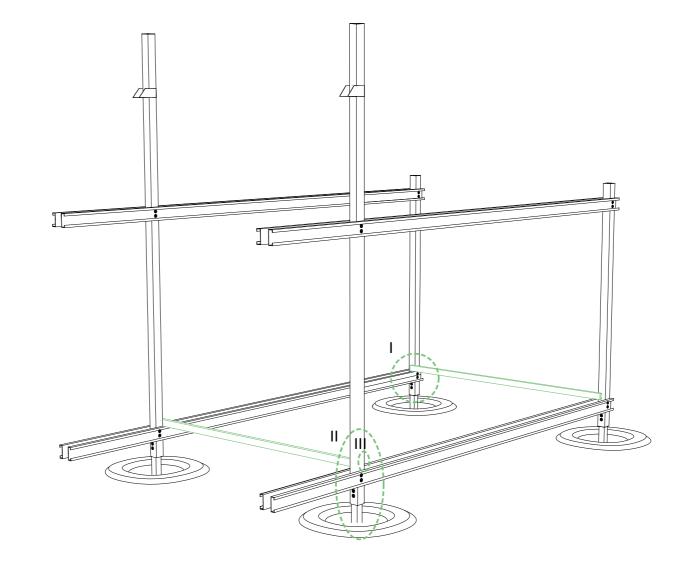
### SECONDARY BOLTS ON PRIMARY FRAMES

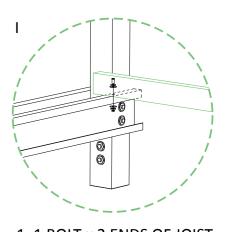


# TWO FLOOR JOISTS

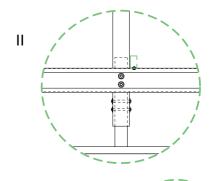


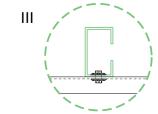






1. 1 BOLT x 2 ENDS OF JOIST 2. REPEAT FOR 2 JOISTS

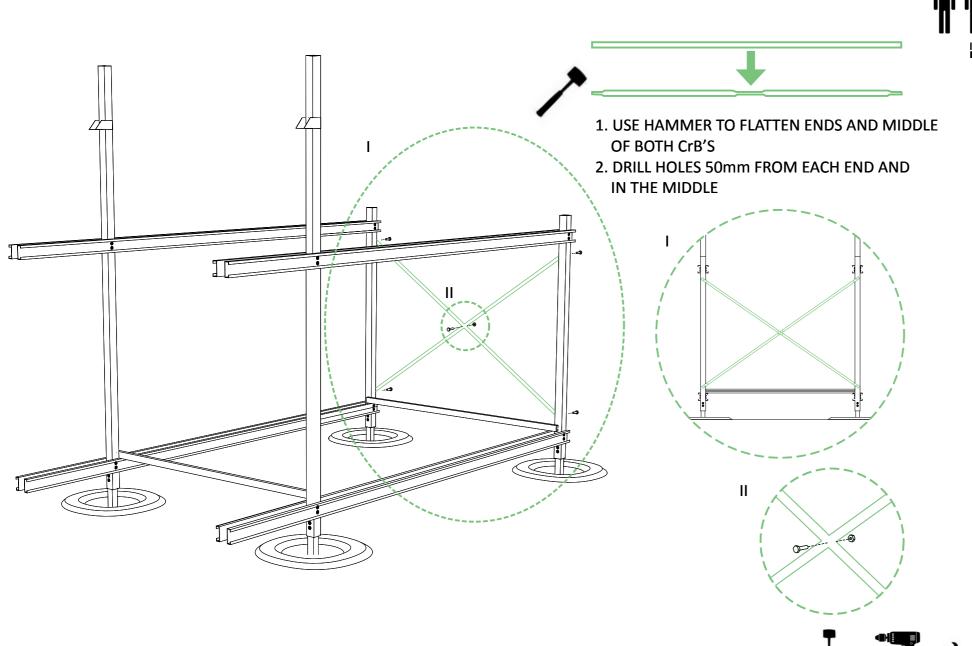




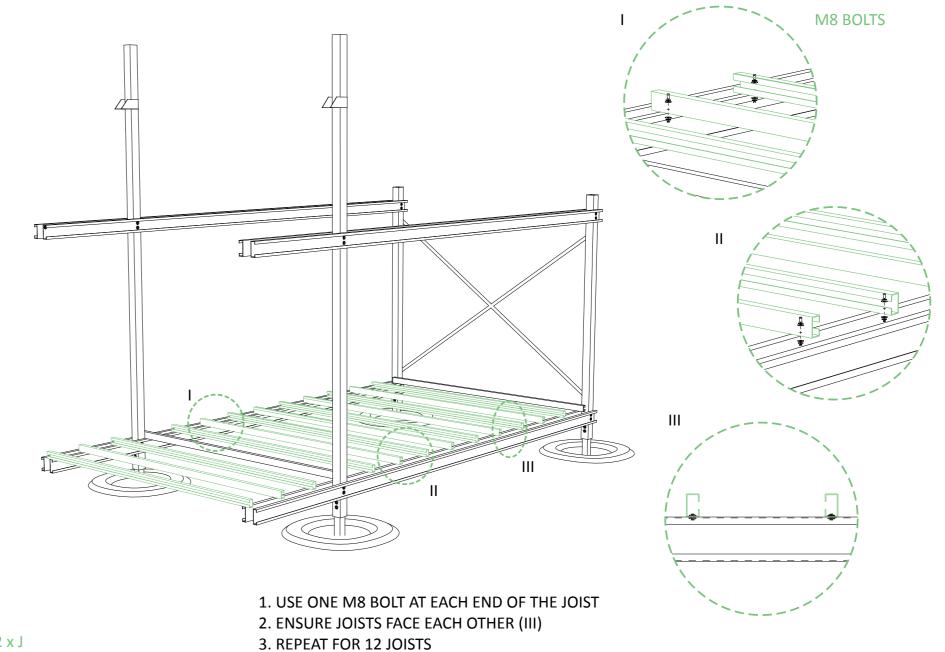




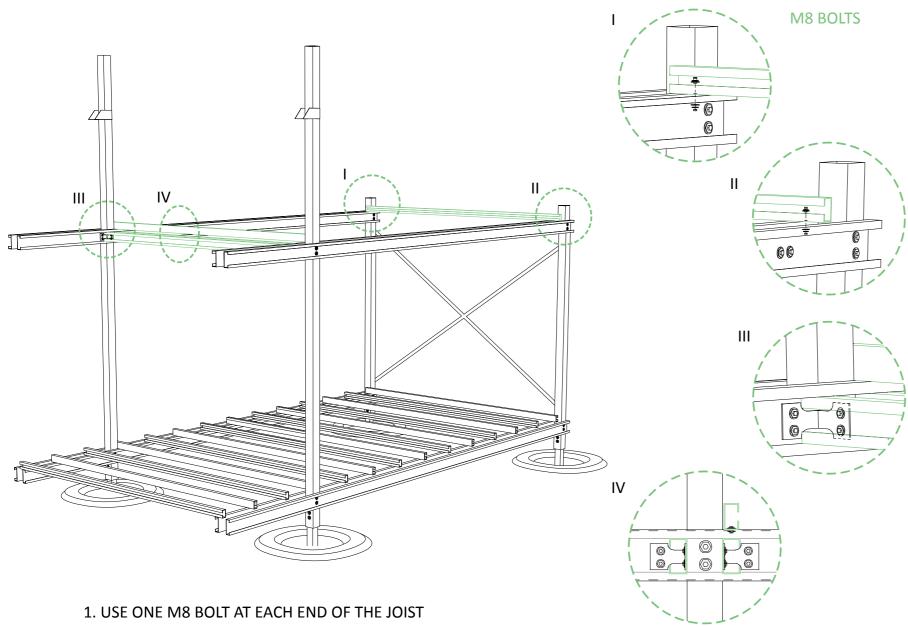
### **CROSS-BRACING FOR LATERAL STABILITY**



# **REMAINING FLOOR JOISTS**



### TWO CEILING JOISTS AND LATERAL CEILING BRACE



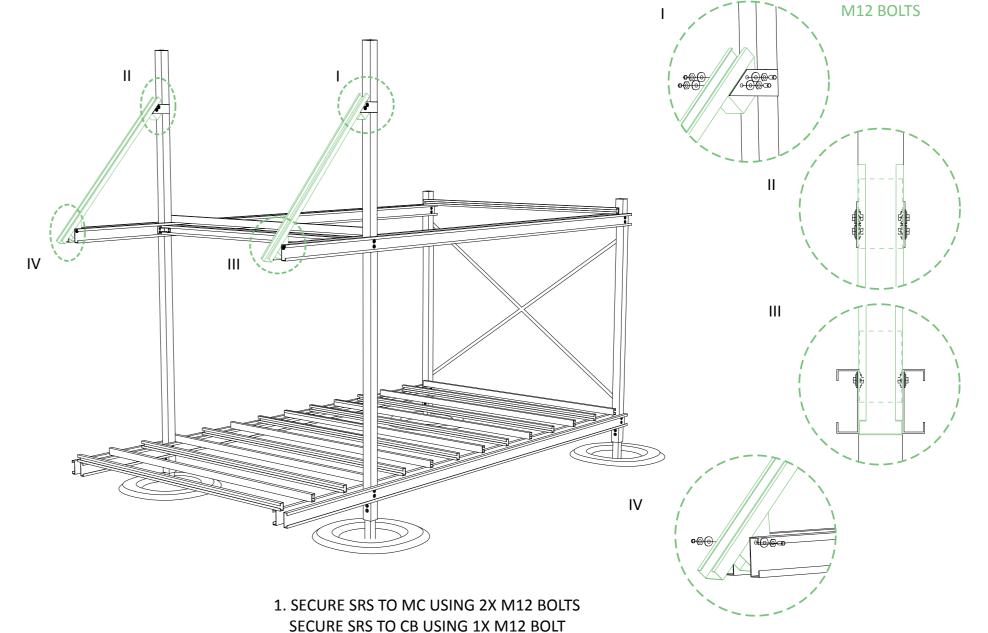
2. REPEAT FOR 2 JOISTS

2 x J

1 x RP

3. SECURE RP PLATES TO MC AND CB USING 4 M8 BOLTS AT EACH END

### **SHORT ROOF SUPPORTS**



2. REPEAT FOR EACH SRS



### **SHORT ROOF ASSEMBLY**



**RUBBER GASKET** 

PVC SHEET (MEHLER TEXNOLOGY)

ALUMINIUM GRIPPING STRIPS (PROFIL TENSION SYSTEMS)

SHORT ROOF FRAME (SRF)

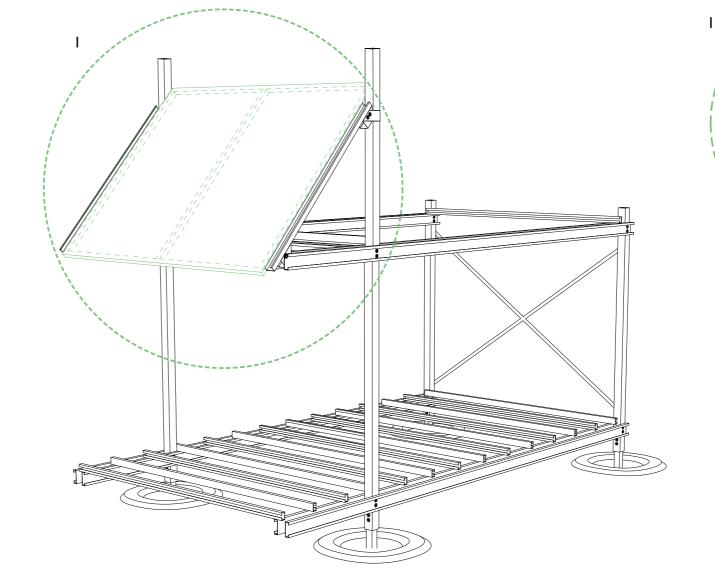
RUBBER GASKET
PVC SHEET
ALUMINIUM GRIPPING STRIPS
1 x SRF

- 1. HAMMER IN RUBBER GASKET TO KEEP SHEET IN PLACE
- 2. PLACE PVC SHEET ON TOP WITH 100mm OVERLAP
- 3. SCREW ALUMINIUM STRIPS EVERY 500mm

TIP: USE SELF-TAPPING STEEL SCREWS, NOT ZINC-COATED, TO NOT EFFECT ALUMINIUM STRIP

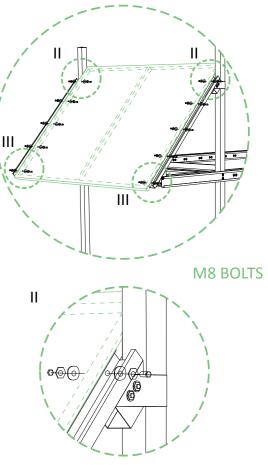


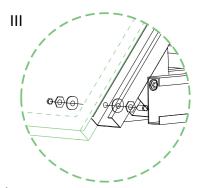
### SHORT ROOF INSTALLATION





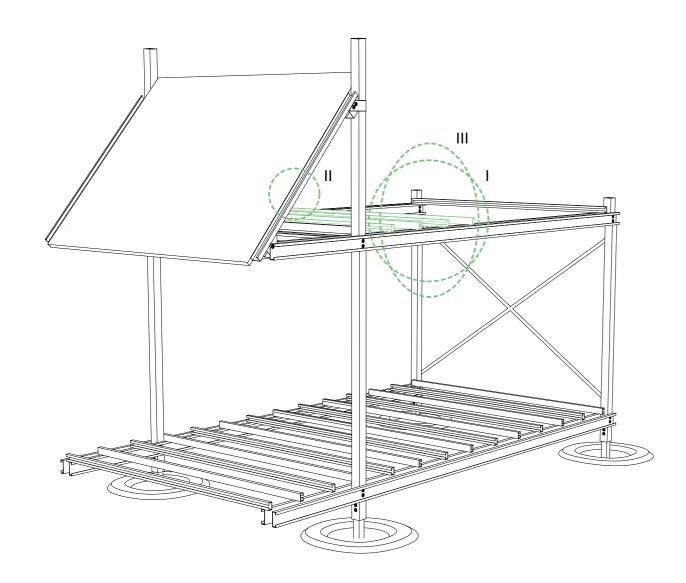
- 2. REPEAT FOR EACH SIDE
- 3. SCREW IN REMAINING SIX MIDDLE BOLTS (THREE ON EACH SIDE)







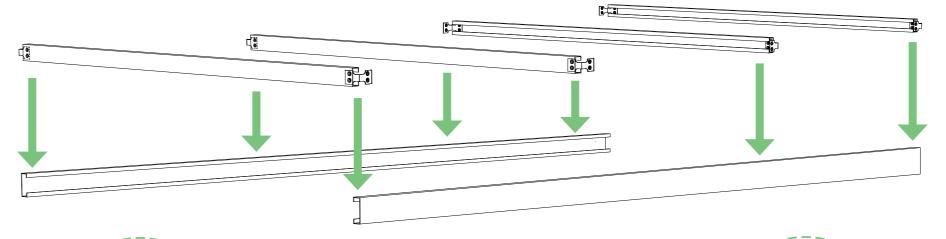
### **REMAINING CEILING JOISTS**



- 1. USE ONE M8 BOLT AT EACH END OF THE JOIST
- 2. ENSURE JOISTS FACE EACH OTHER (I)
- 3. REPEAT FOR 4 JOISTS

### LARGE ROOF FRAME ASSEMBLY

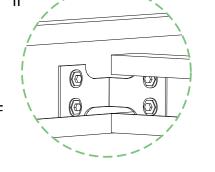


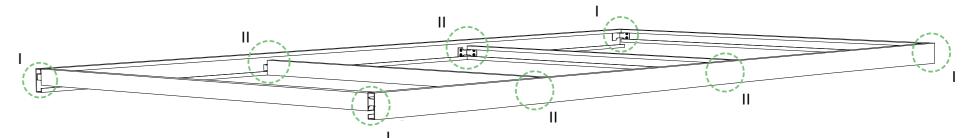


- 1. SECURE RP PLATES AT EACH END TO BOTH RB'S
  ENSURE TWO END FRAME RP'S ARE SECURED AT TOP EDGE
  OF THE RB'S (I)
  2. REPEAT FOR TWO MIDDLE RP'S
  ENSURE TWO END FRAME RP'S ARE SECURED AT TOP EDGE
  - ENSURE TWO MIDDLE RP'S

    ENSURE TWO END FRAME RP'S ARE SECURED AT TOP EDGE OF

    THE RB'S (II) AND FACE EACH OTHER



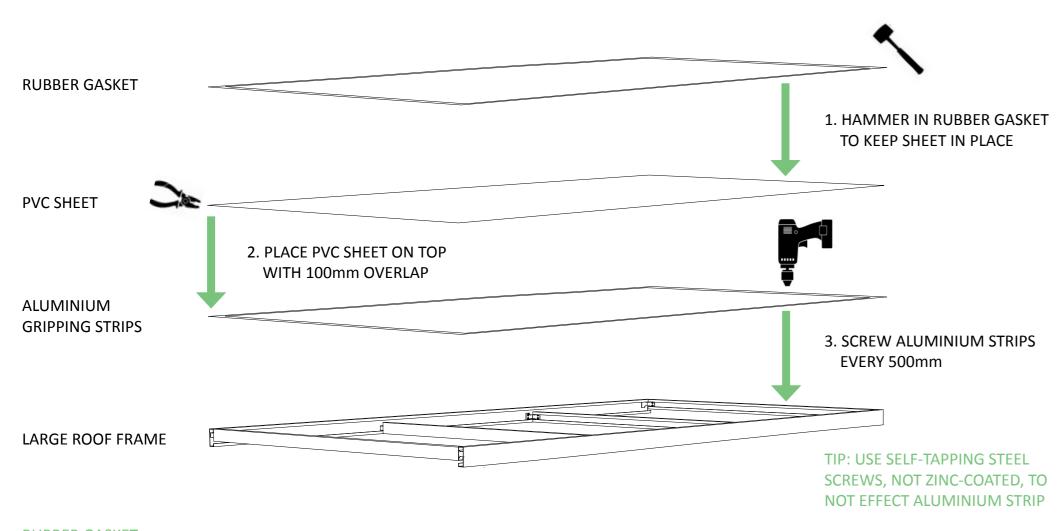


2 x RB 4 x RP

1

### LARGE ROOF ASSEMBLY



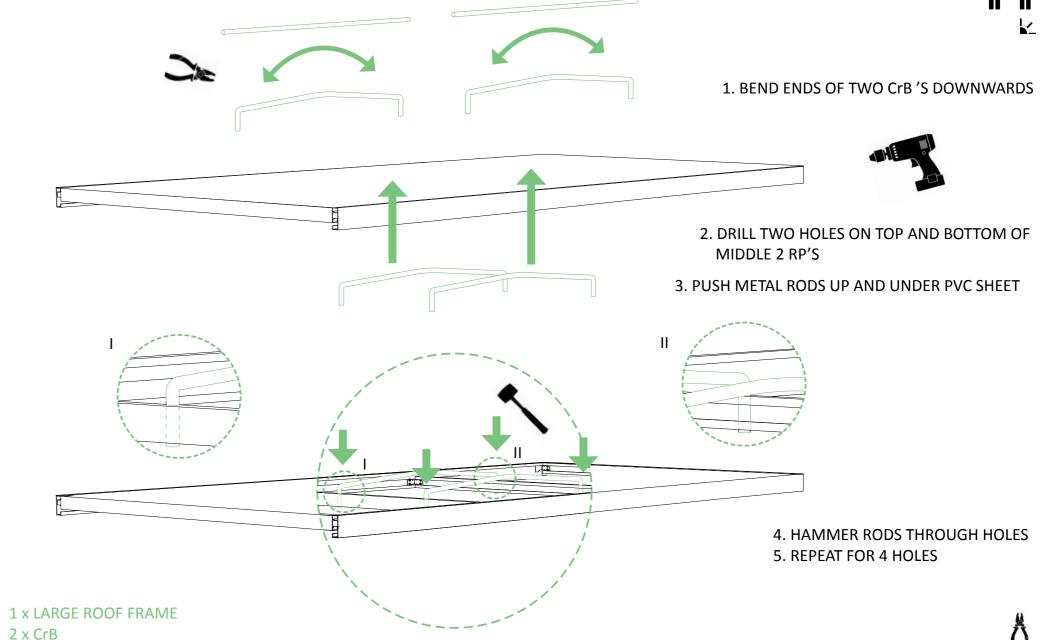


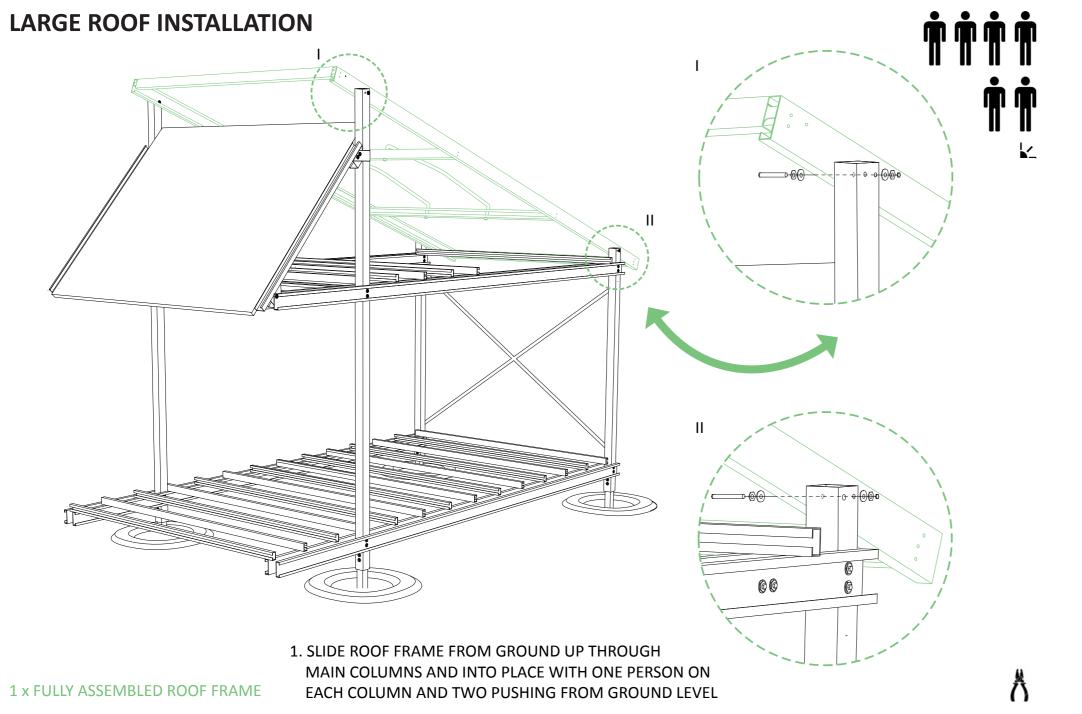
RUBBER GASKET
PVC SHEET
ALUMINIUM GRIPPING STRIPS
LARGE ROOF FRAME



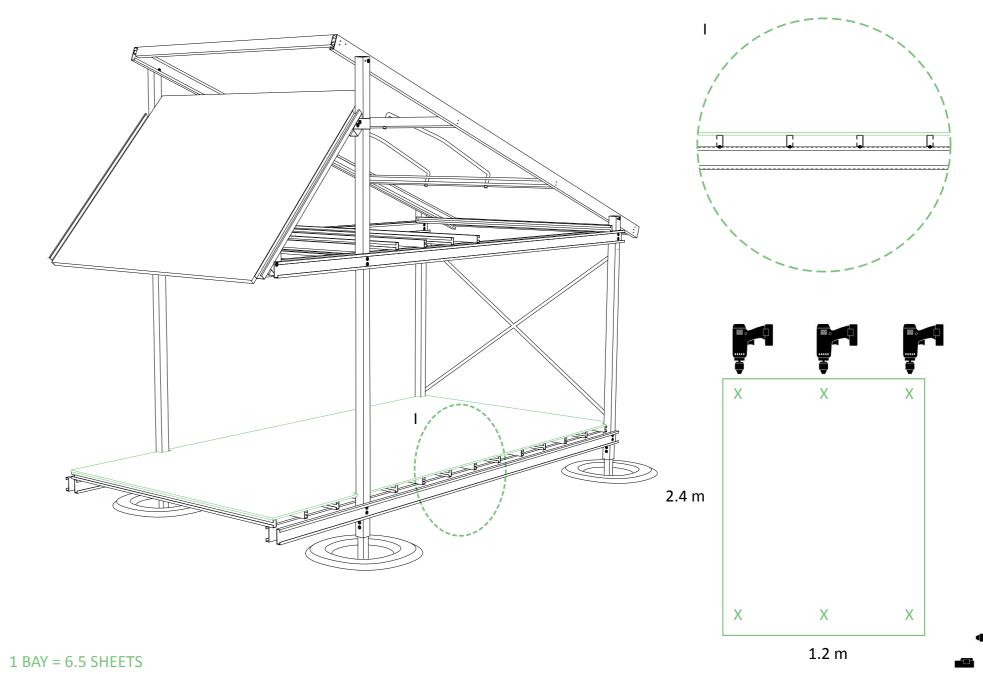
### LARGE ROOF ASSEMBLY - TENSION RODS







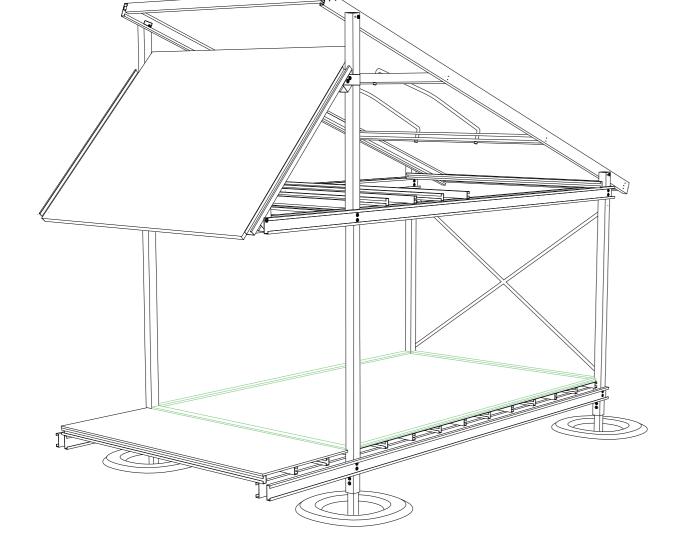
### **FLOOR INSTALLATION**



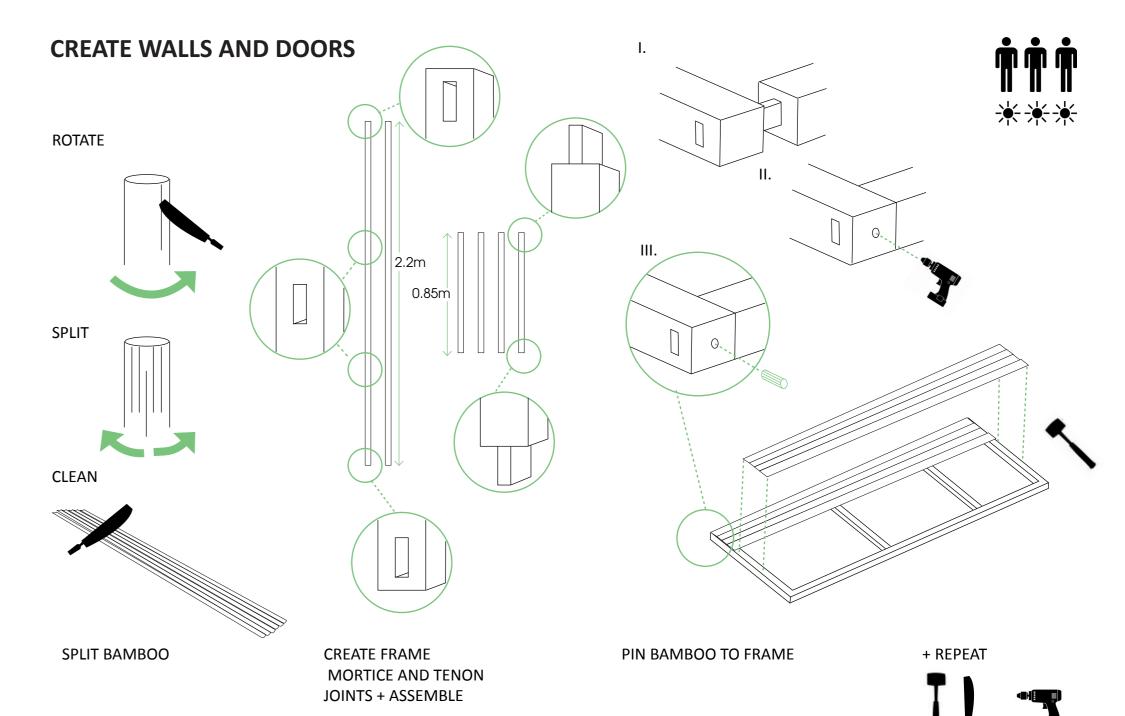
### TIMBER RUNNERS FOR WALLS AND DOORS







1. SCREW DOWN TIMBER RUNNERS ALONG PERIMETER CONNECTING ALL COLUMNS

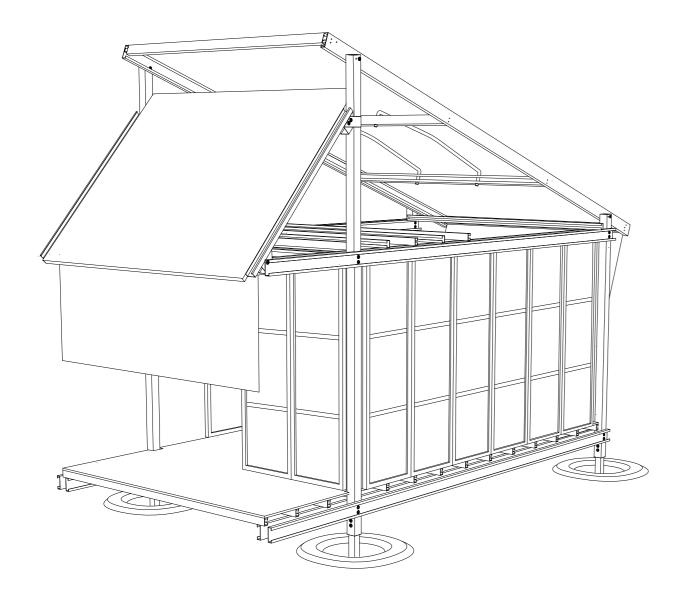


### **INSTALLATION OF WALLS AND BLINDS**

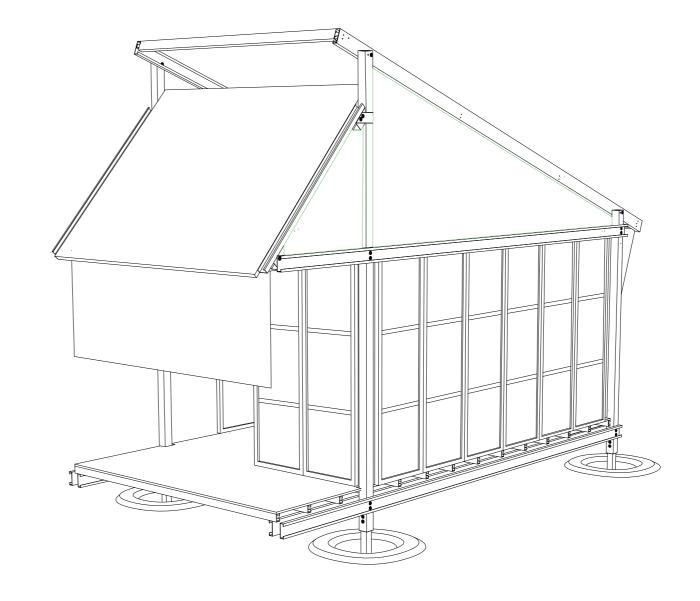


# **INFILL OF GABLE ENDS**





1. INFILL SIDE WALLS AND BLINDS AS DESIRED



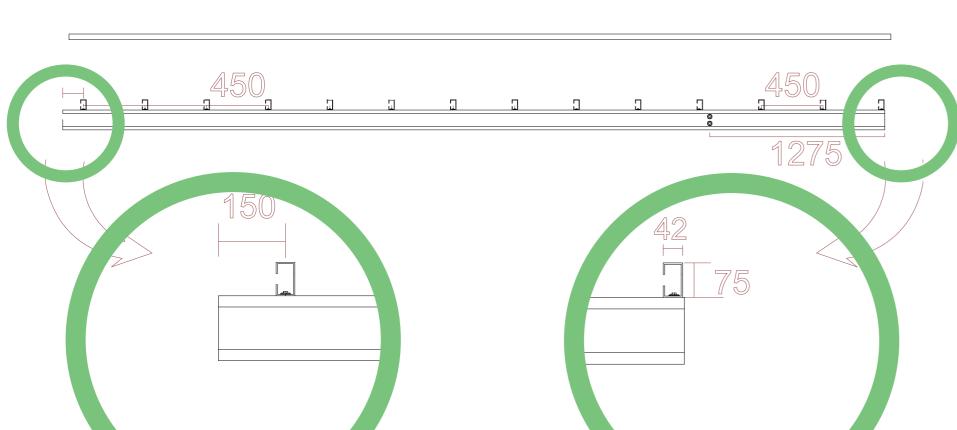
1. USE RIGID MOSQUITO MESH OR STRIPS OF BAMBOO TO INFILL GABLE ENDS

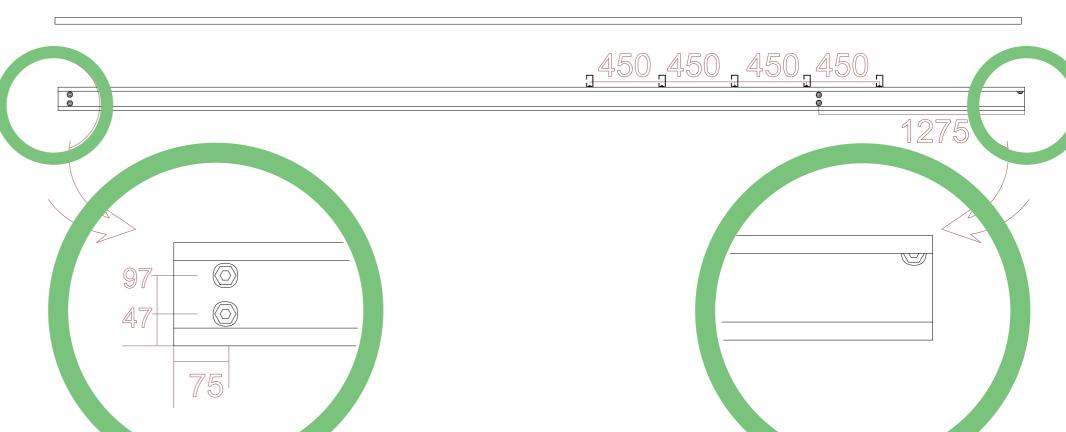




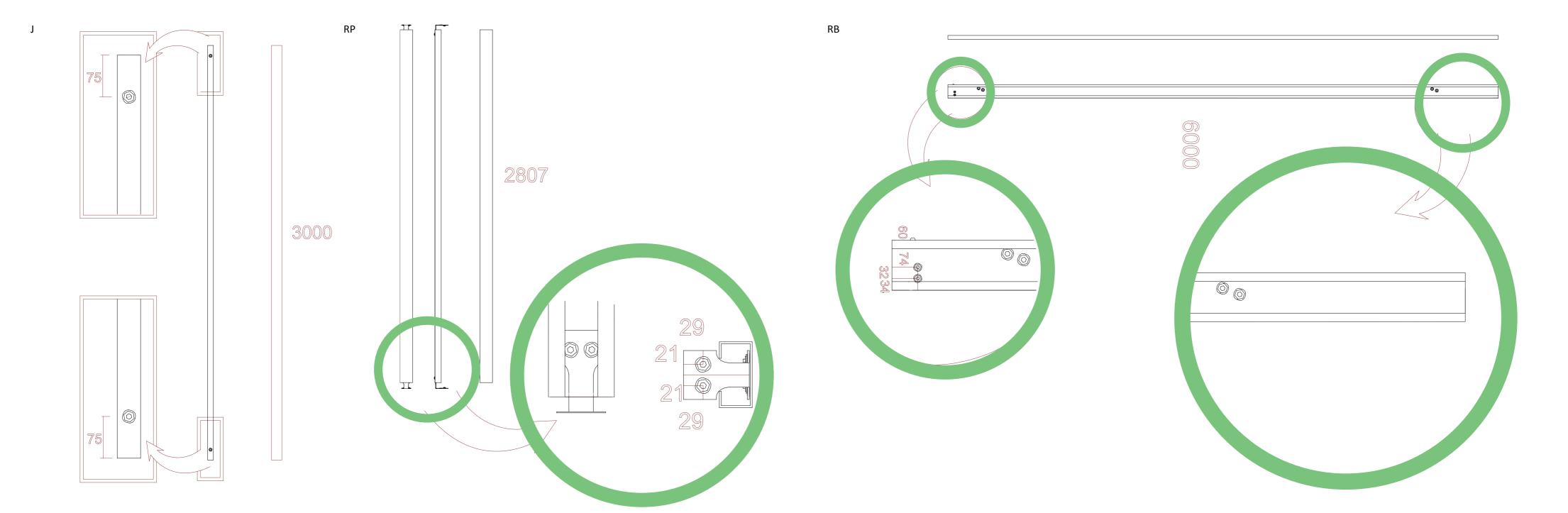
Annex 1: For repair or replacement or additional steel members please find cutting sheets for steel frame. (all measurements in mm's and drawings are not to scale.)

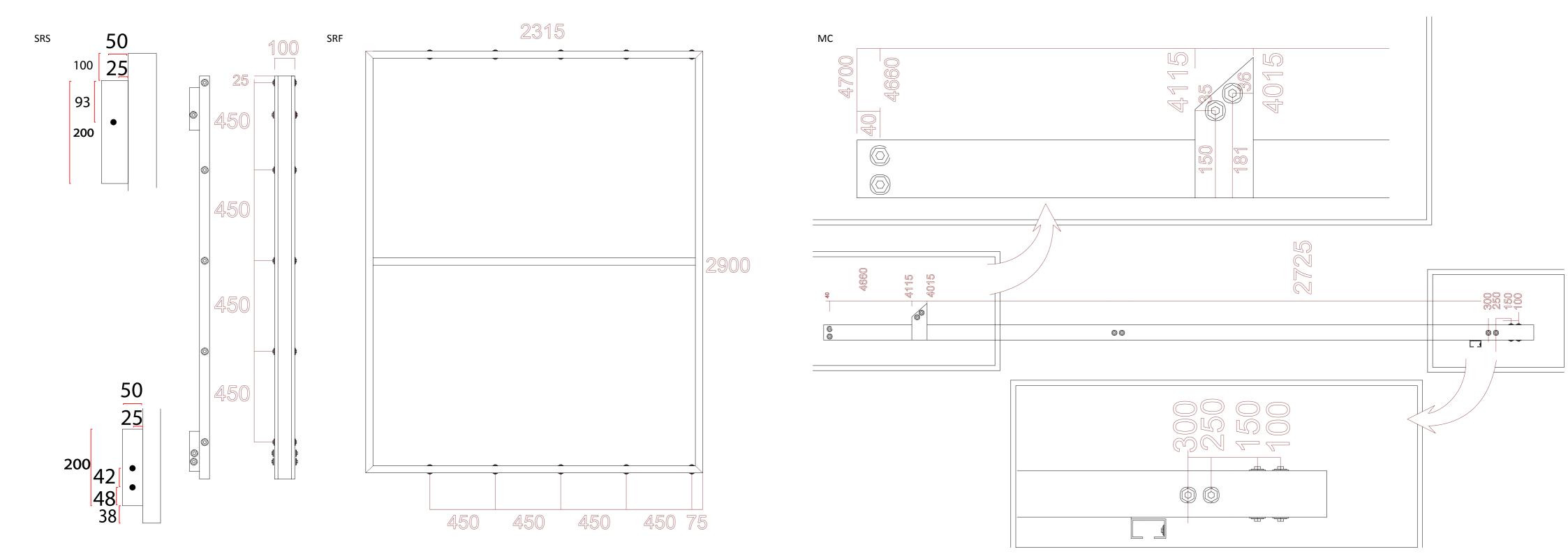
GB

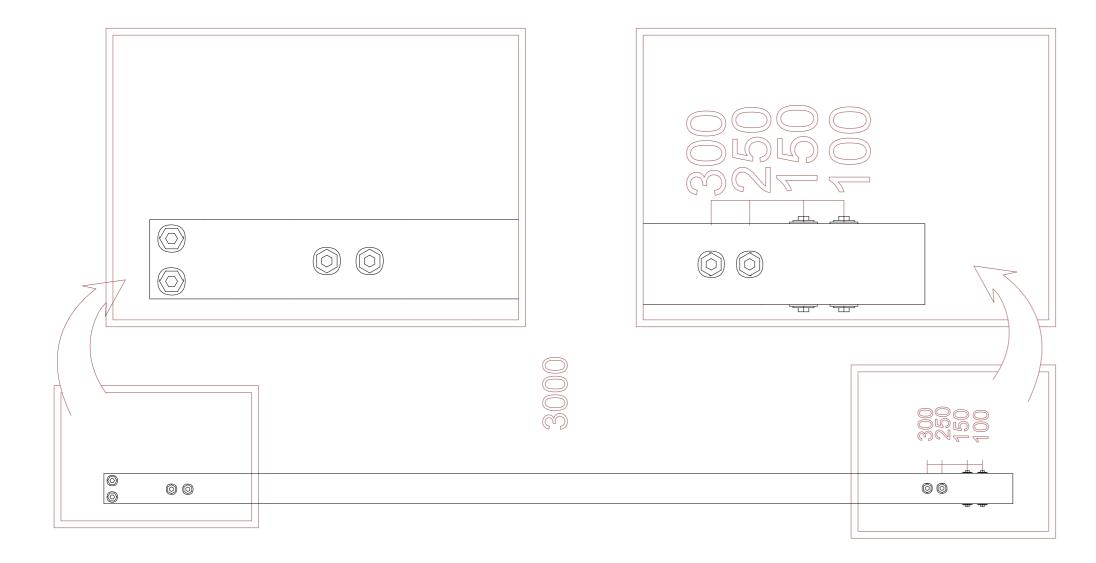




СВ







For any additional information do not hesitate to contact us; info@buildingtrustinternational.org

Thanks

Building Trust international.