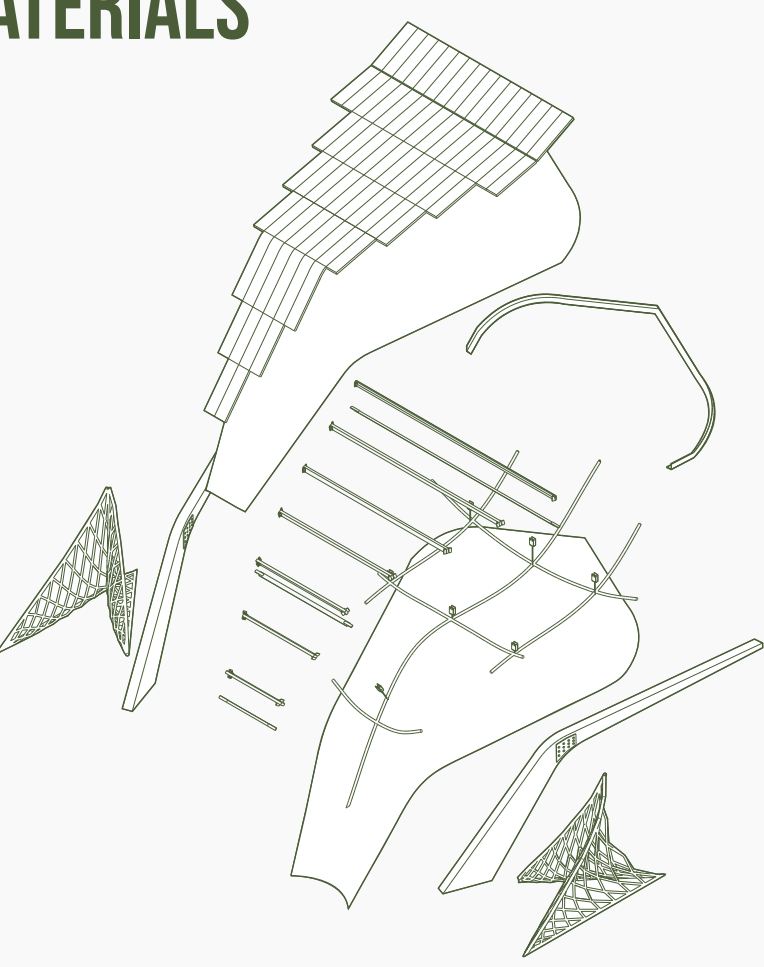


MATERIALS



Prefab steel sheet with marine coating

Structural Steel ASTM A36
X1 78.5 kg

Prefab beam (laminated timber)

Prefabricated glulam beam
X2 319 kg

Structural supports

Suspended Ceiling Structural Supports
X3

Prefab joists (laminated timber)

Prefabricated glulam beam
X7 58.8kg

Galvanized Steel plates

Prefabricated Steel Plates
X28 X7

Precast polycarbonate sheet

4mm polycarbonate panel
X6 X3 X3 X4 140kg

Prefab Steel tubes

Prefabricated steel buttress
X2 37.7 kg

Woven Bamboo Mat

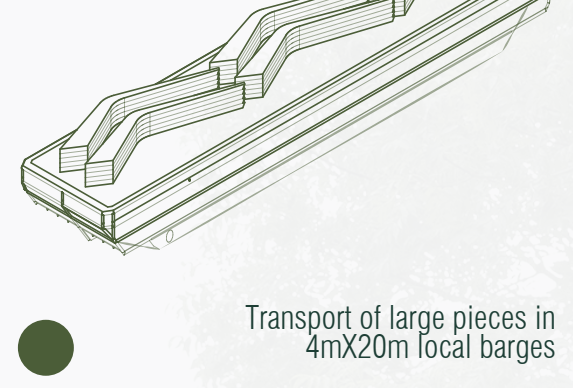
Bamboo or other natural slats
74.5kg

CONSTRUCTION PROCESS

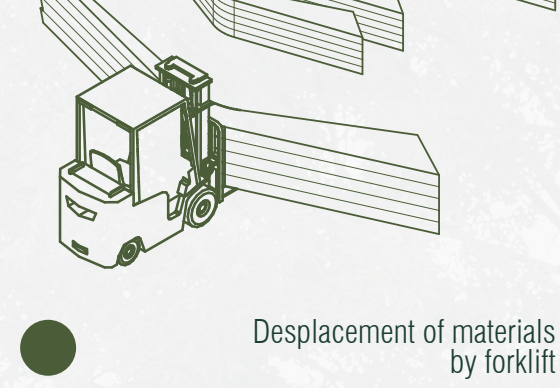
● TRANSPORT

● CONSTRUCTION

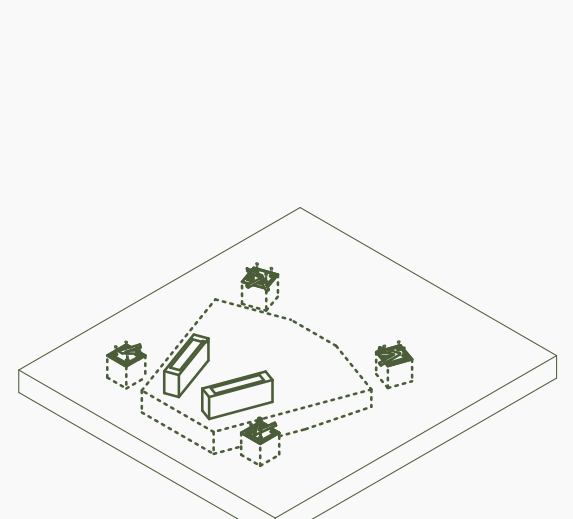
● MAINTENANCE



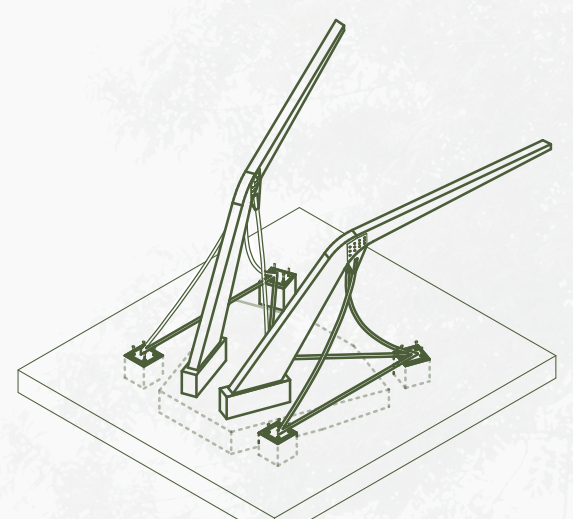
Transport of large pieces in 4mX20m local barges



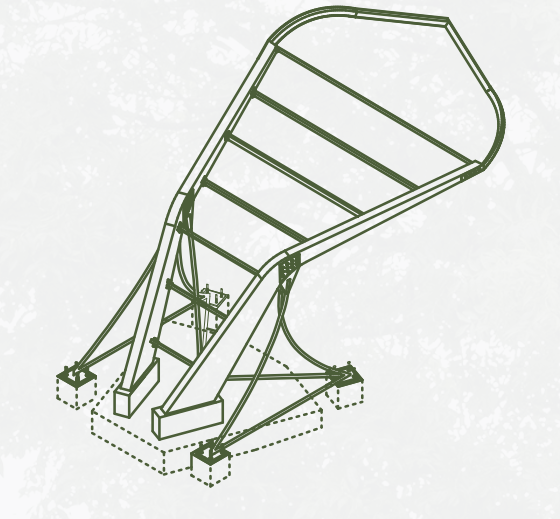
Displacement of materials by forklift



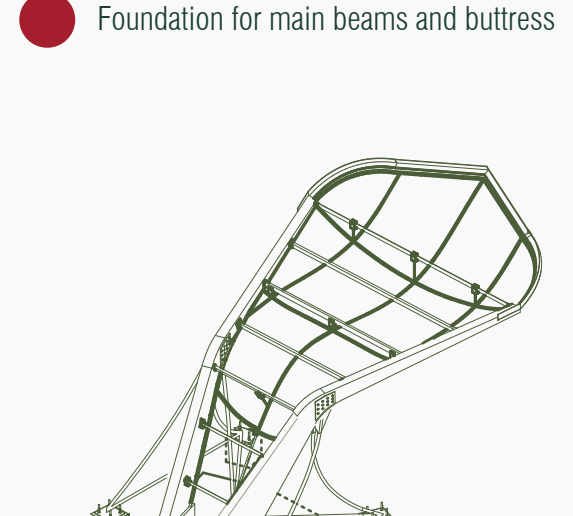
Foundation for main beams and buttress



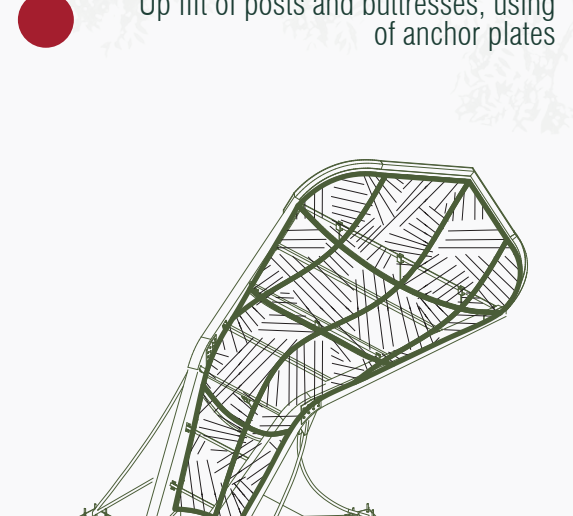
Up lift of posts and buttresses, using of anchor plates



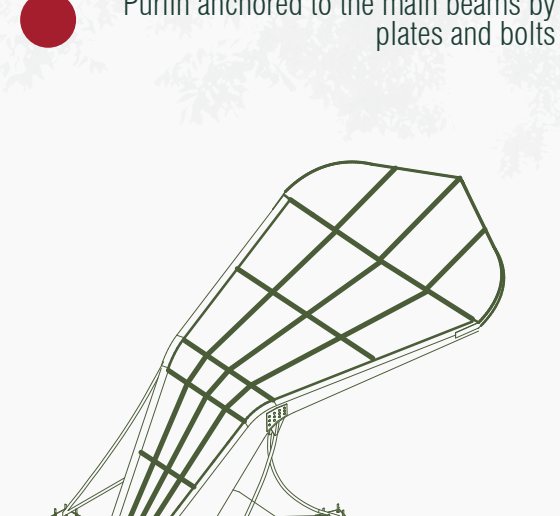
Purlin anchored to the main beams by plates and bolts



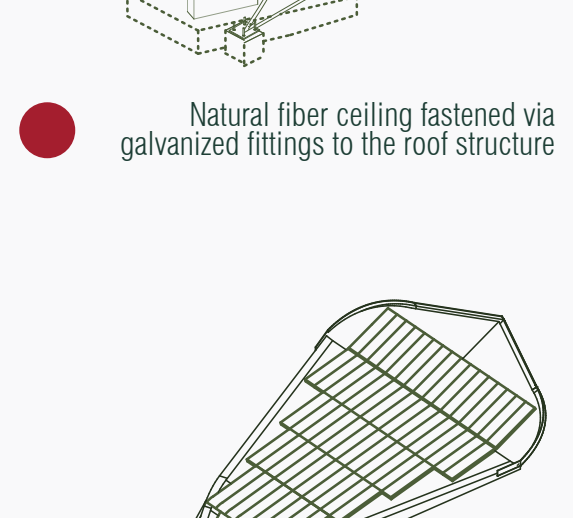
Natural fiber ceiling fastened via galvanized fittings to the roof structure



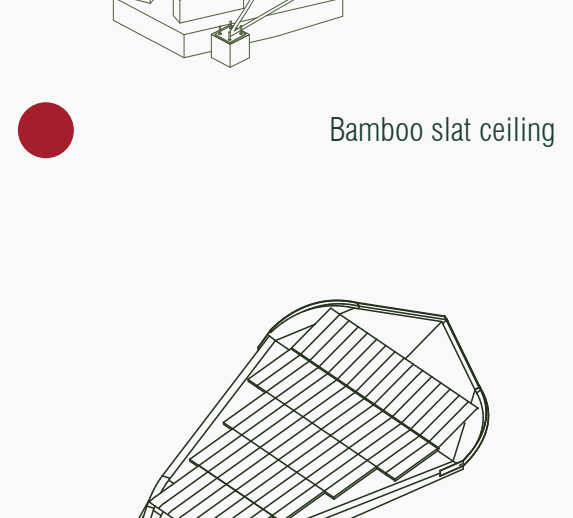
Bamboo slat ceiling



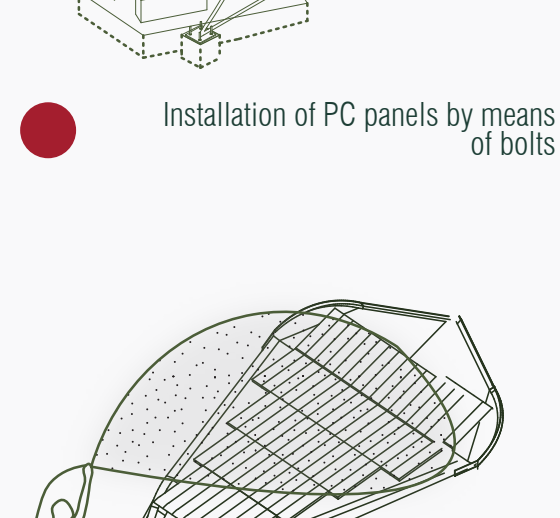
Installation of PC panels by means of bolts



Anchoring solar panels to beams

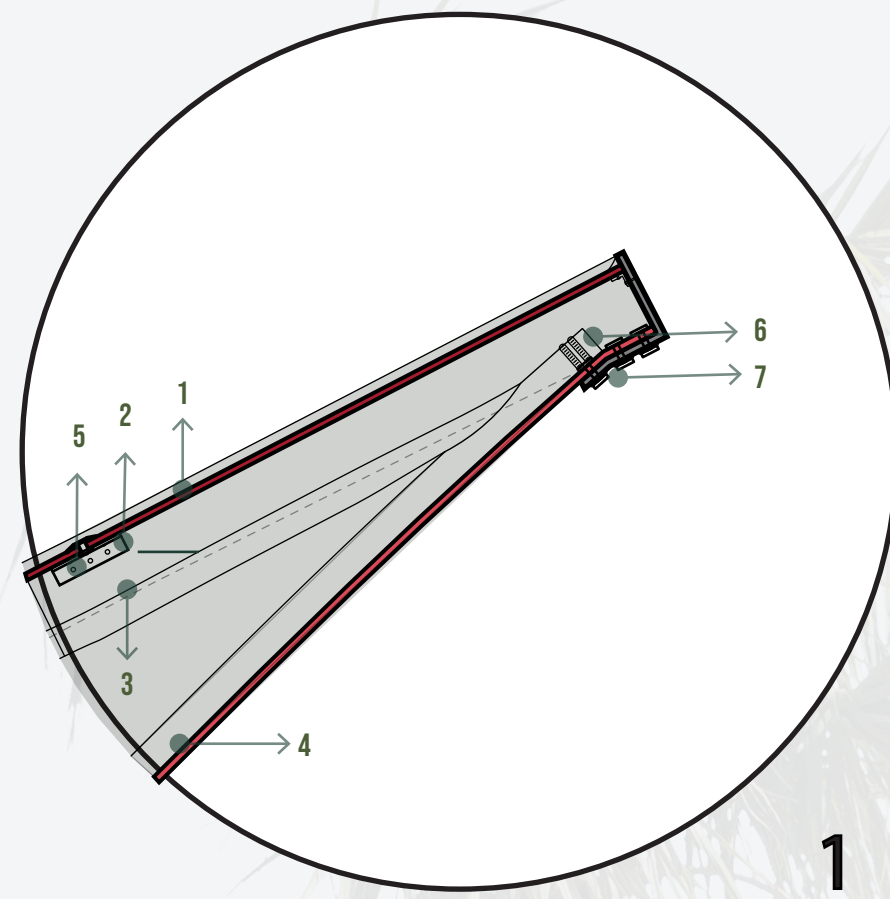


Set the mesh in the buttresses for planting



Ease of maintenance through harvested water reuse

CONSTRUCTION DETAILS



1 4mm polycarbonate panel

2 Prefabricated Steel Plates

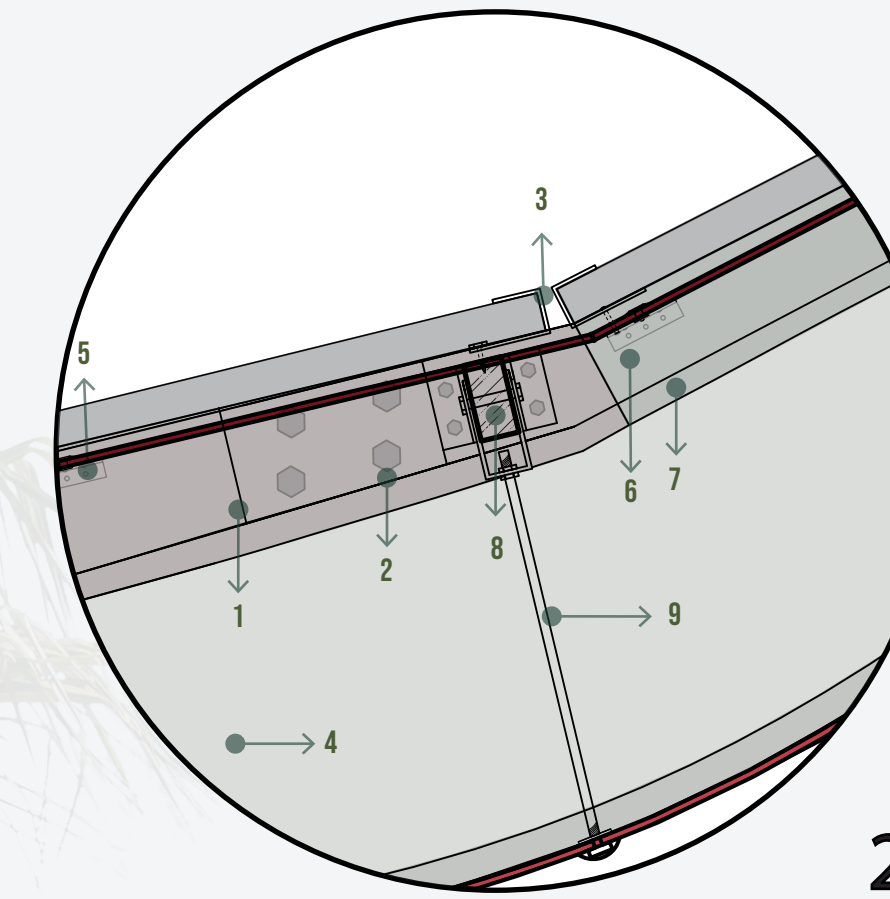
3 Structural Steel ASTM A36

4 Bamboo slats

5 1/2-13 x 1" Stainless Steel Bolts Hex Head

6 Worm Drive Hose Clamps-All Stainless SAE #390

7 Pop Rivets 1/4" x 5/8" Aluminum Body Steel Mandrel Dome Head Blind Qty 25



1 Prefabricated glulam beam 319 kg

2 Galvanized anchor bolts stainless steel, 1020; A36; 1045

3 Solar Rail Alu Mounting Rail Solar Panel PV Profile Solar System

4 Rubber seals, edge sealing strips

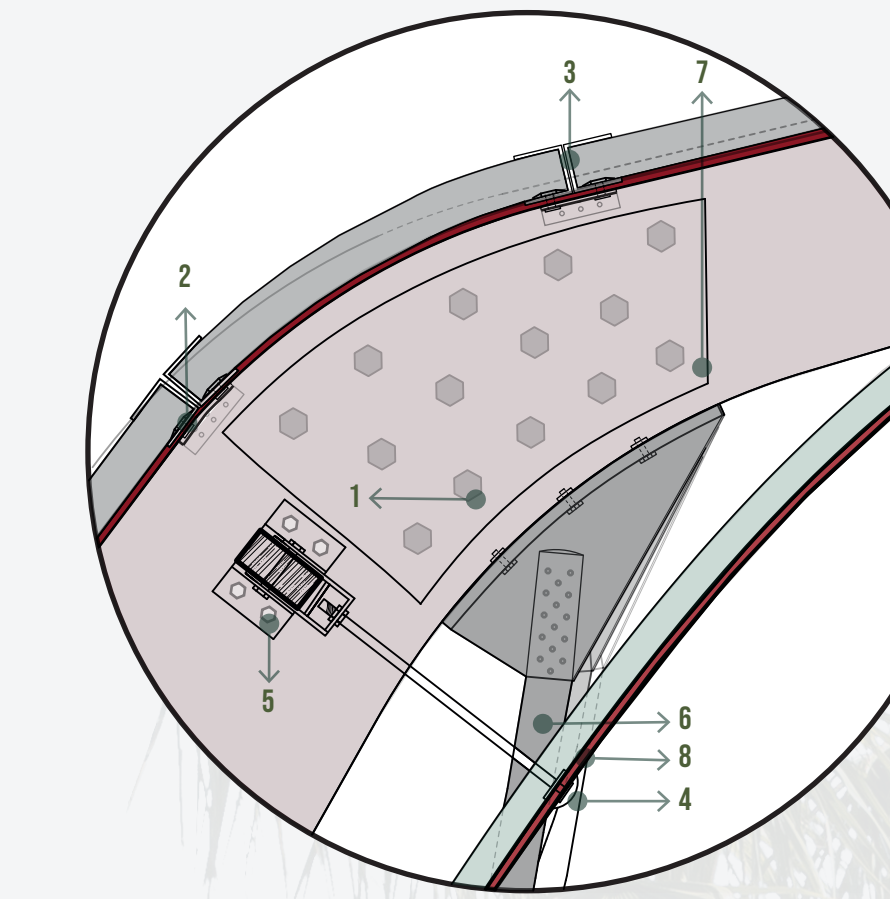
5 Metallic Angle 6m x 25 x 2.5mm

6 Prefabricated Steel Plates

7 Structural Steel ASTM A36

8 Prefabricated glulam beam 58.8kgv

9 Suspended Ceiling Structural Supports



1 Prefabricated Steel Plates

2 Metallic Angle 6m x 25 x 2.5mm

3 Solar Rail Alu Mounting Rail Solar Panel PV Profile Solar

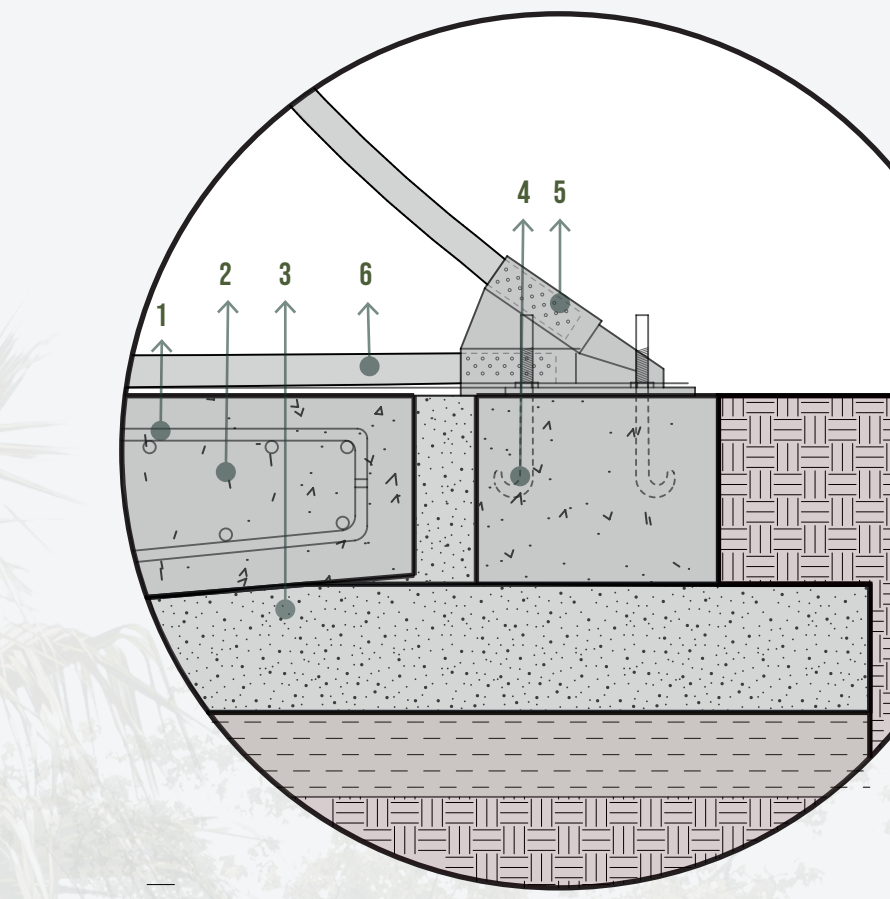
4 Rubber seals, edge sealing strips

5 1/2-13 x 1" Stainless Steel Bolts Hex Head Grade 18-8 Qty 50

6 4 mm steel tubing 60kg

7 Pop Rivets 1/4" x 5/8" Aluminum Body Steel Mandrel Dome

8 Bamboo slats or other local natural fiber



1 G-60 W 1/4-in x 6m Rod approx. 1.494kg Corrugated


2 3000psi Concrete Shoe

3 Poor concrete base

4 Bolt steel anchor sae steel sae 1020 – S, Straight – Type J

5 Prefabricated Steel Plates

6 4 mm steel tubing 60kg



1

2

3

4

Battery

WATER INFILTRATION

WATER COLLECTION

SPRINKLER SYSTEM

TECHNICAL CHAMBER

HYDROPHONIC SYSTEM + WIND LOAD SUPPORT

STORAGE CISTERN 10.000L

WATER HARVESTING SYSTEM