PERSPECTIVE SECTION

LAYERING OF THE CANOPY

The pavilion consists of a lightweight steel canopy that is crafted to combine solar and water harvesting technologies into the structure. To harvest fog our roof uses a draped mesh surface, that whilst in the shape of ripples, directs collected droplets towards internal columns and an underground storage tank.

As air and fog moves through the canopy the ripples pick up the moisture in the air, and small fans aid the droplet collection process; assisting the air circulation during non-windy days. Likewise, chilled metal pipes coil the structure to further extract moisture from the air through condensation in humid seasons.

LEGEND

1. Solar Panels
2. Mesh to collect dew
3. Box gutters to funnel water
4. Fans to aid wind flow
5. Steel Truss
6. Chilled coils
7. Internal panneling
8. Mist for evaporative cooling

INTERNAL WATER COLLECTION VESSEL VIEW