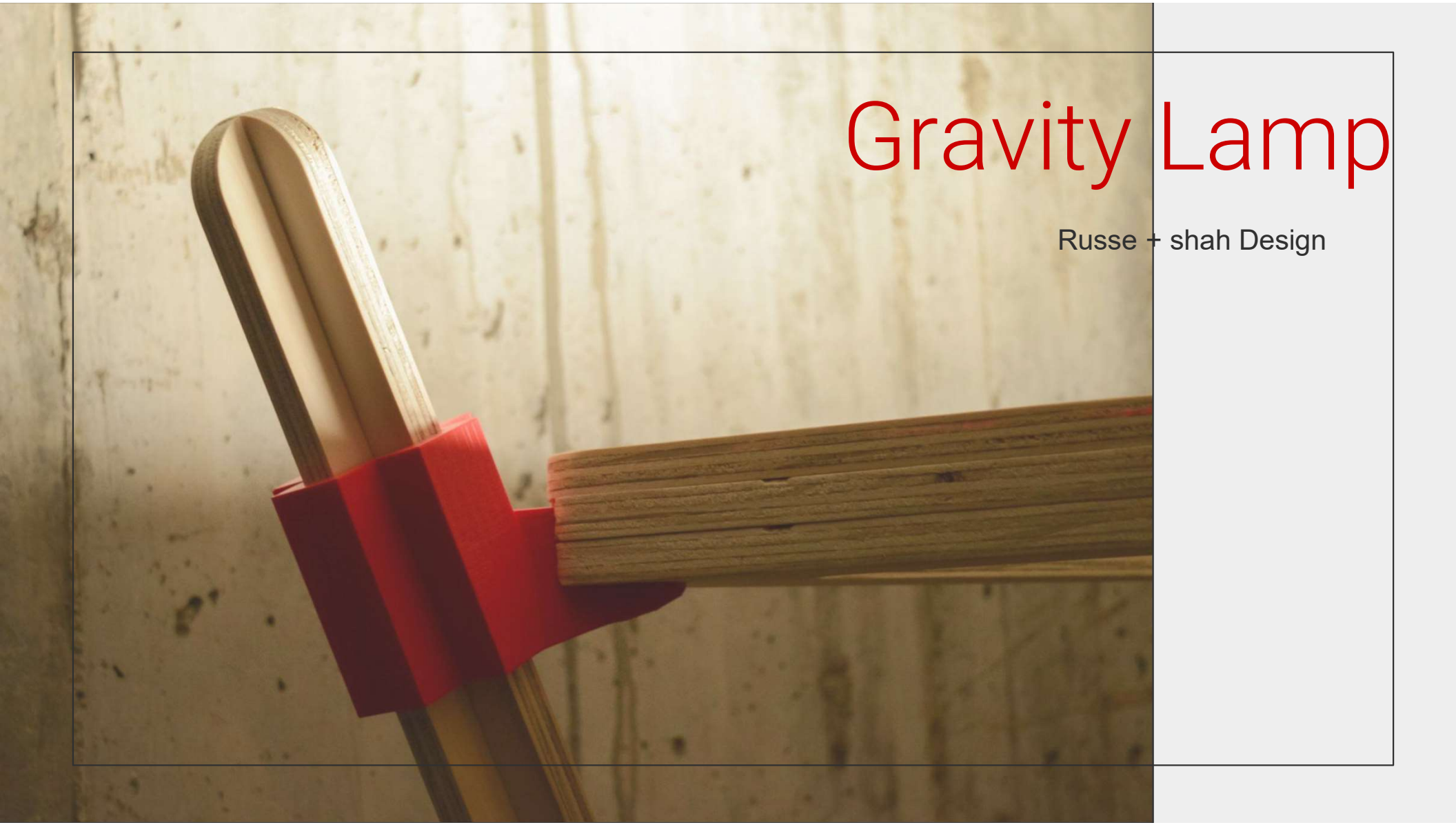
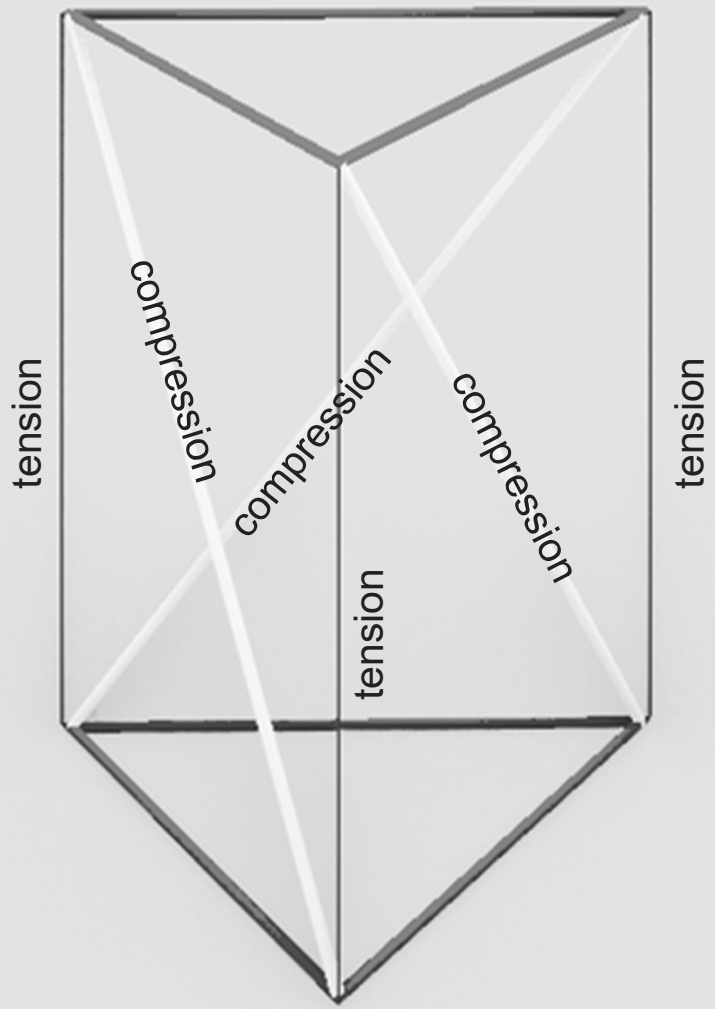


Gravity Lamp

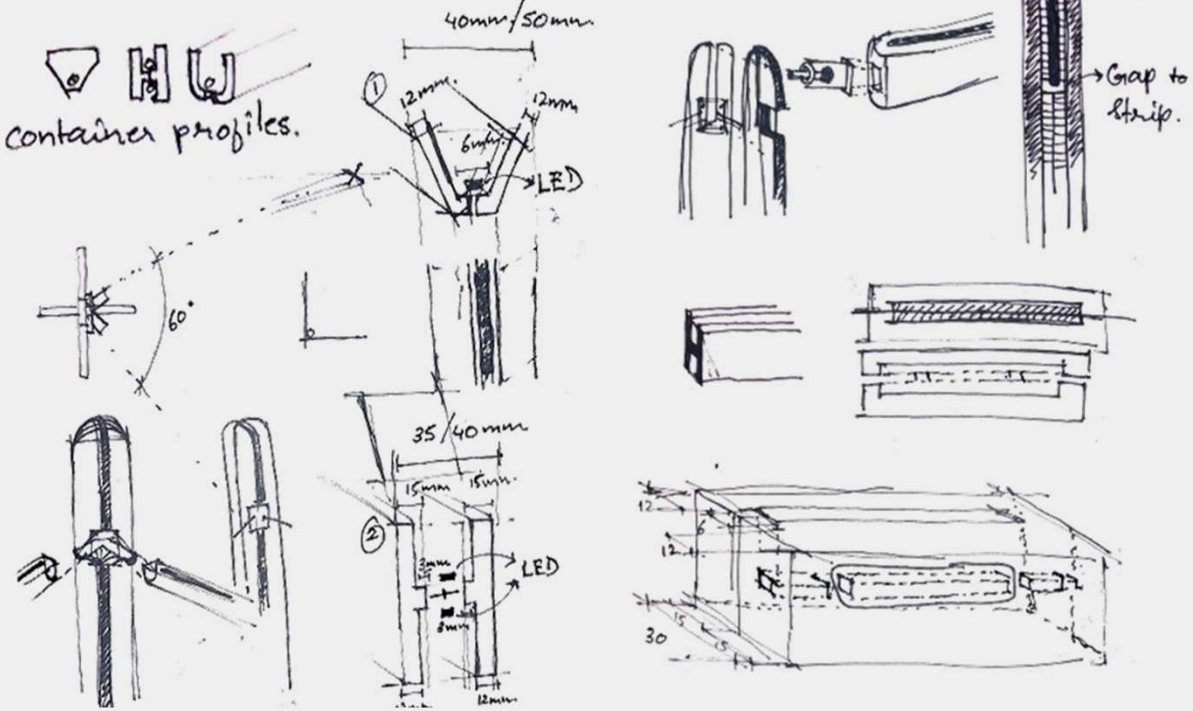
Russe + shah Design

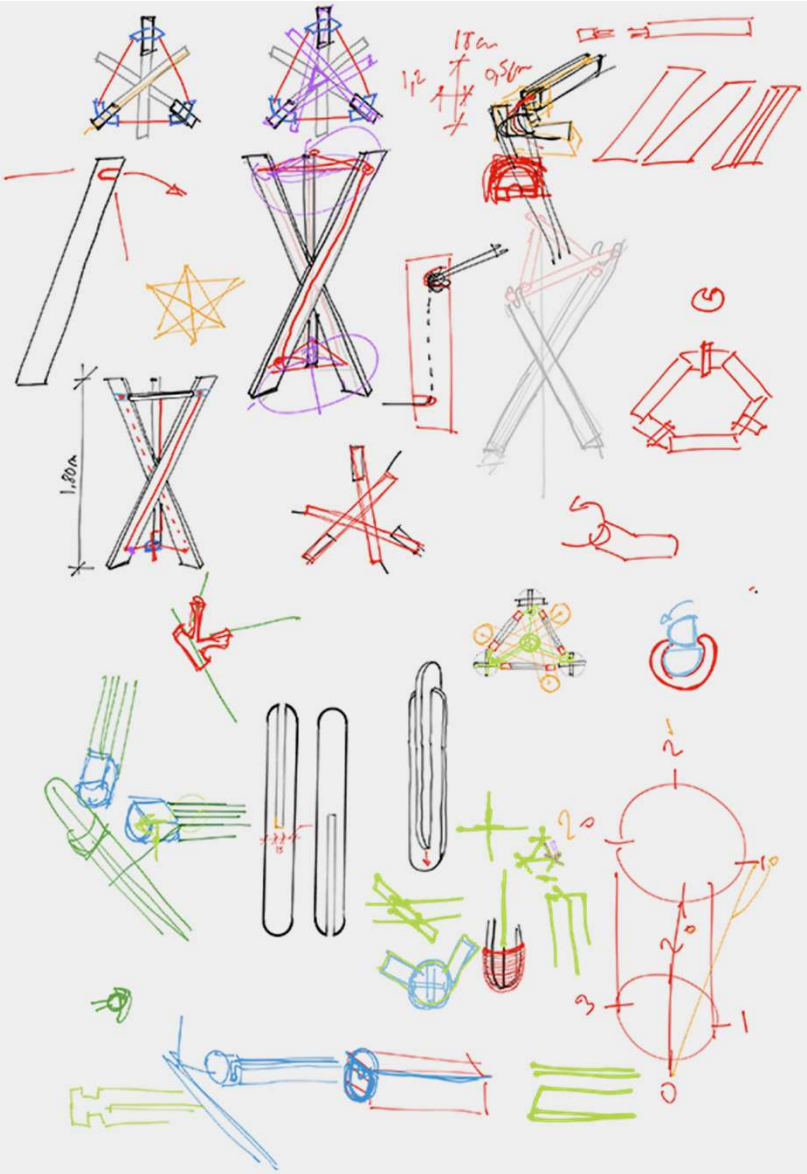
Tensegrity

Tensegrity is a design principle that applies when a discontinuous set of compression elements is opposed and balanced by a continuous tensile force, thereby creating an internal prestress that stabilizes the entire structure



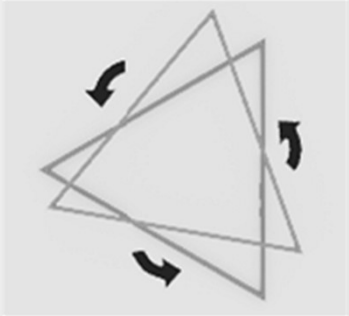
Design process



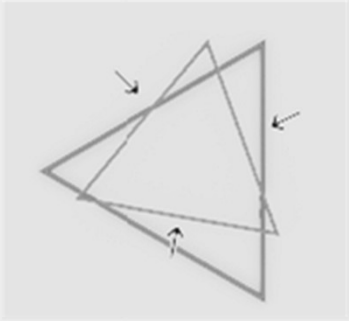


Design decisions

Twisting the coincident top and bottom triangles



Scaling down the top for structural stability

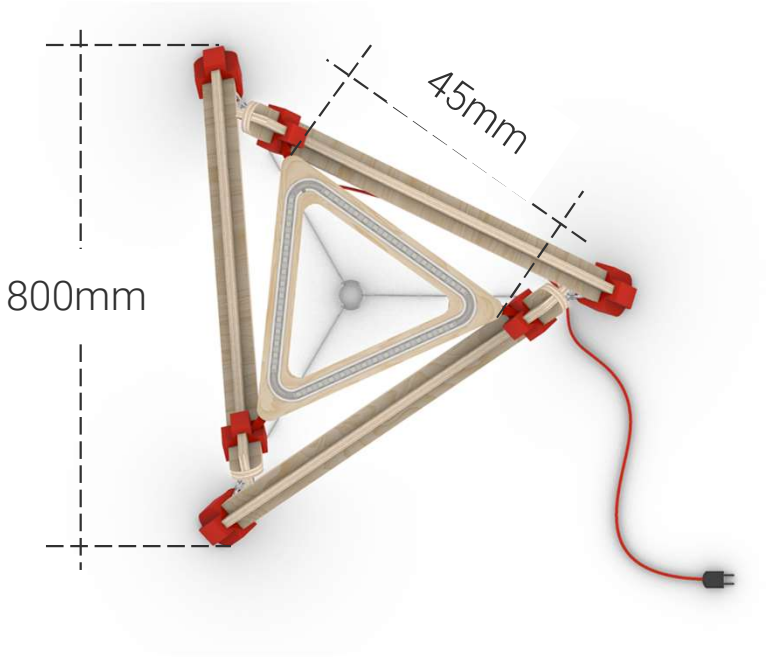


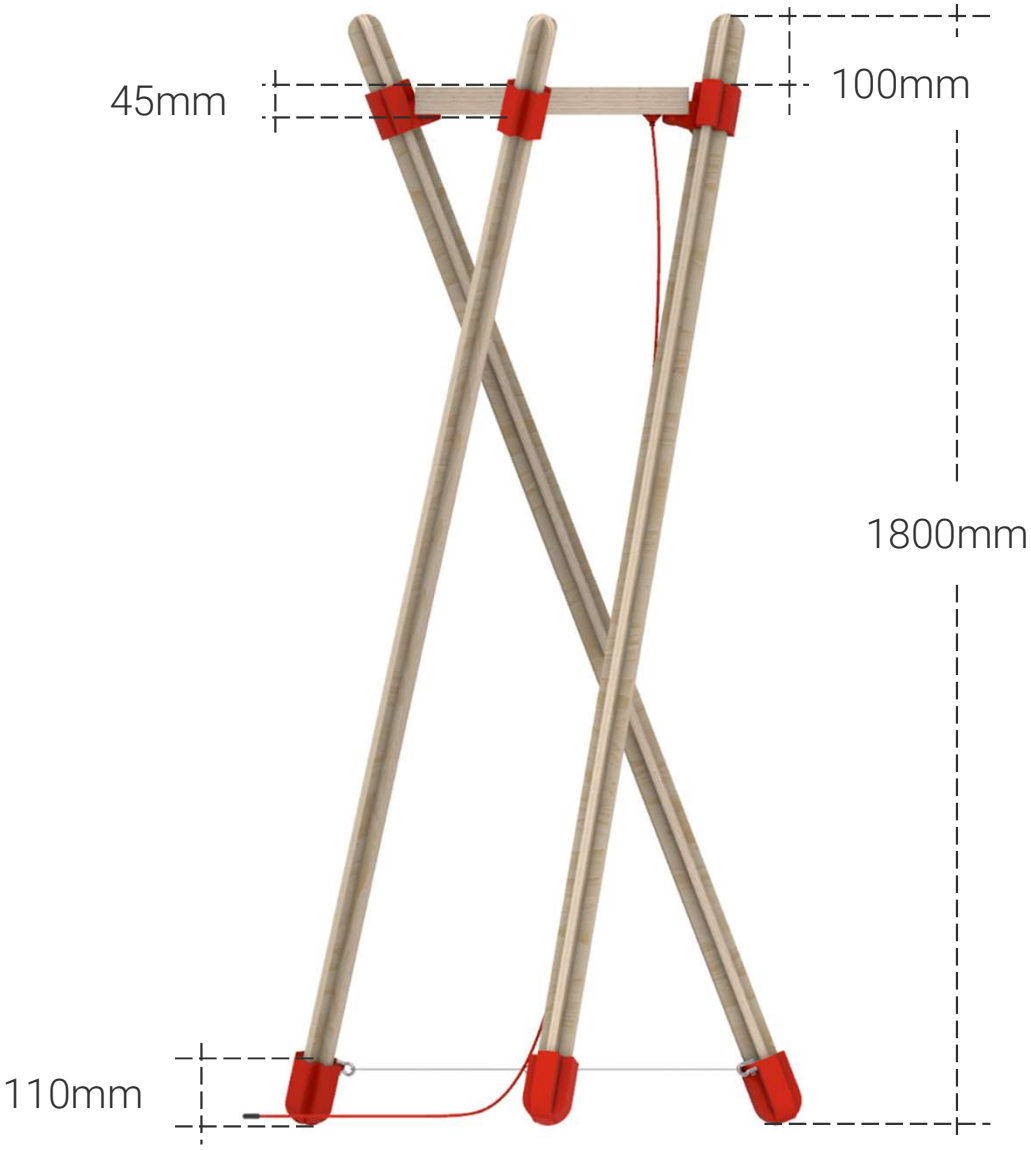
Reconnecting compression members

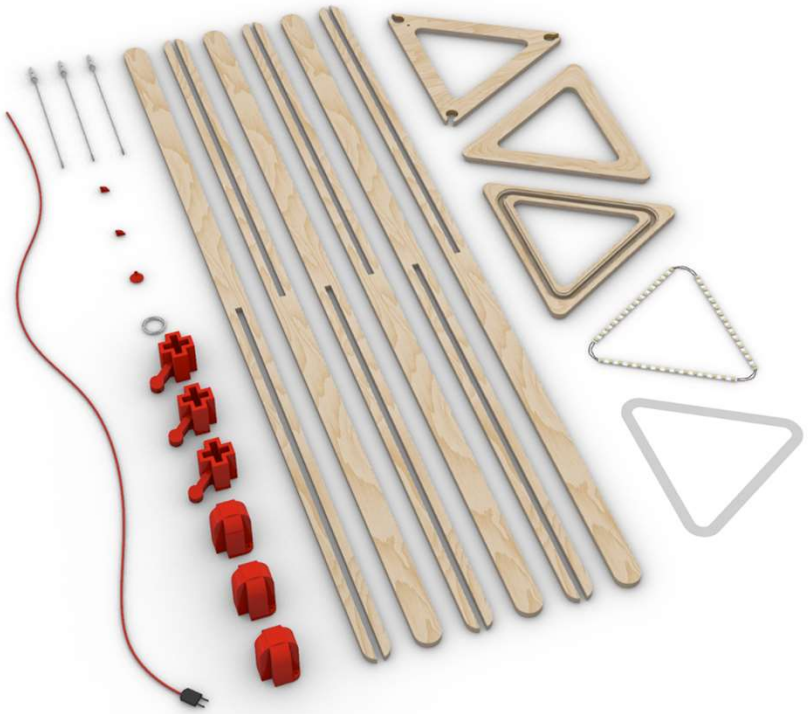


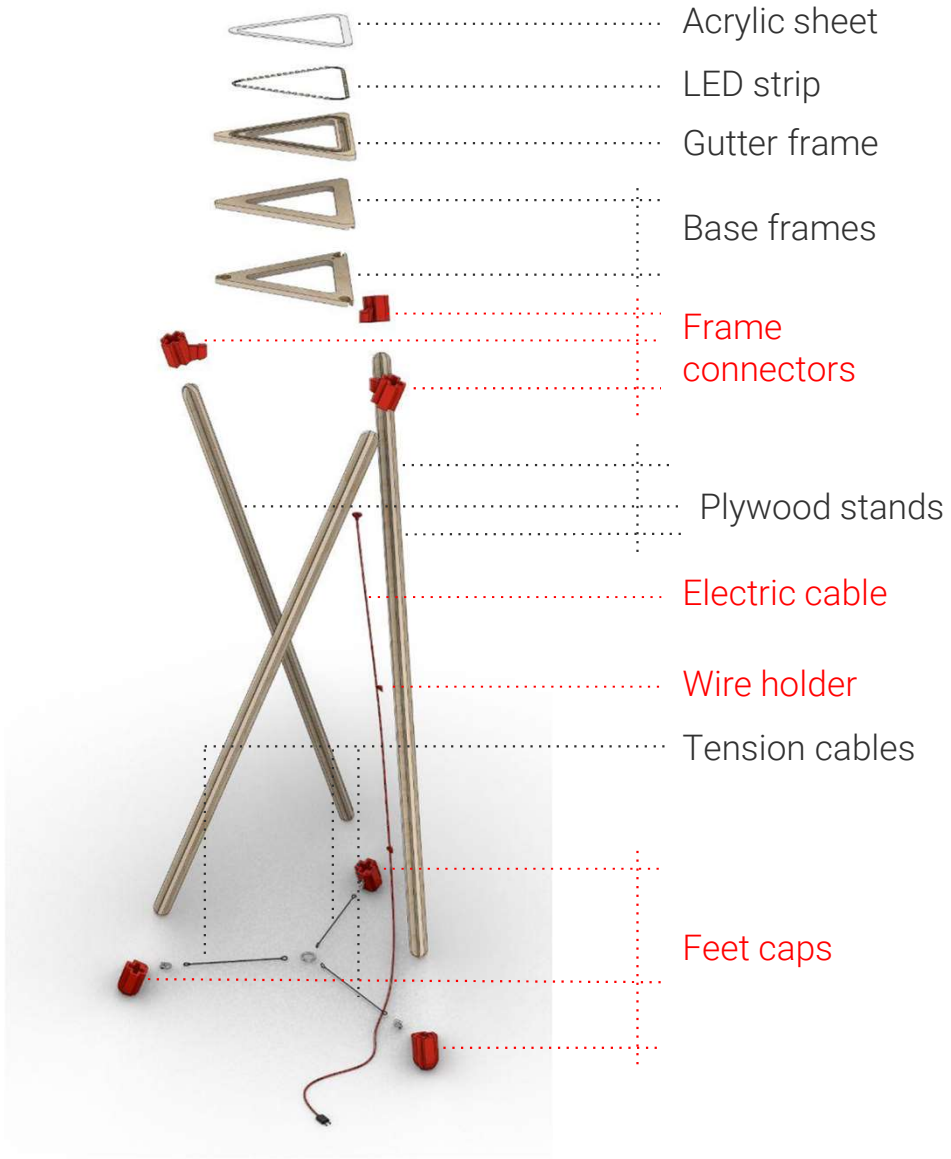


Dimensions








Acrylic sheet
LED strip
Gutter frame
Base frames
Frame connectors
Plywood stands
Electric cable
Wire holder
Tension cables
Feet caps

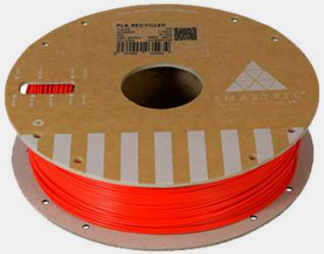
Materials



12v LED strip



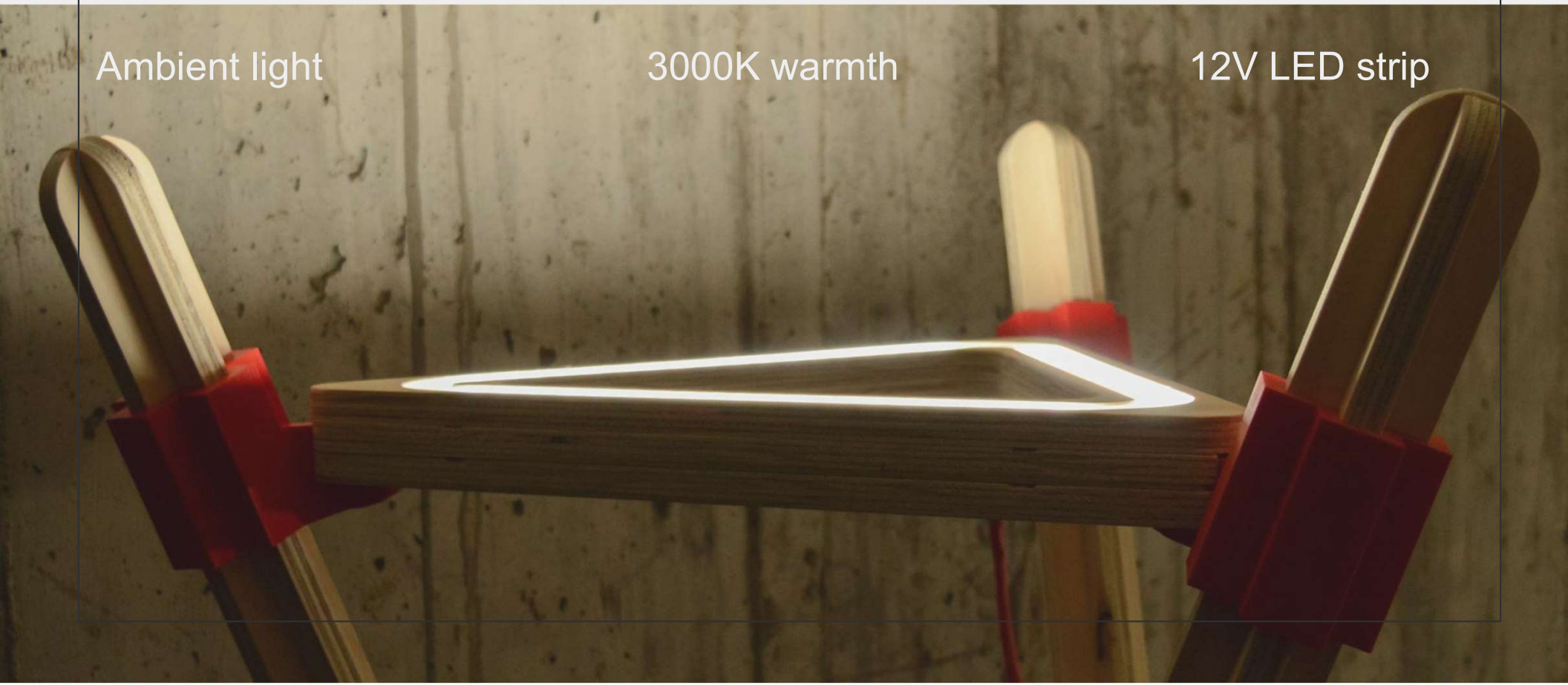
Recyclable PLA



15mm plywood sheet



Light Typology



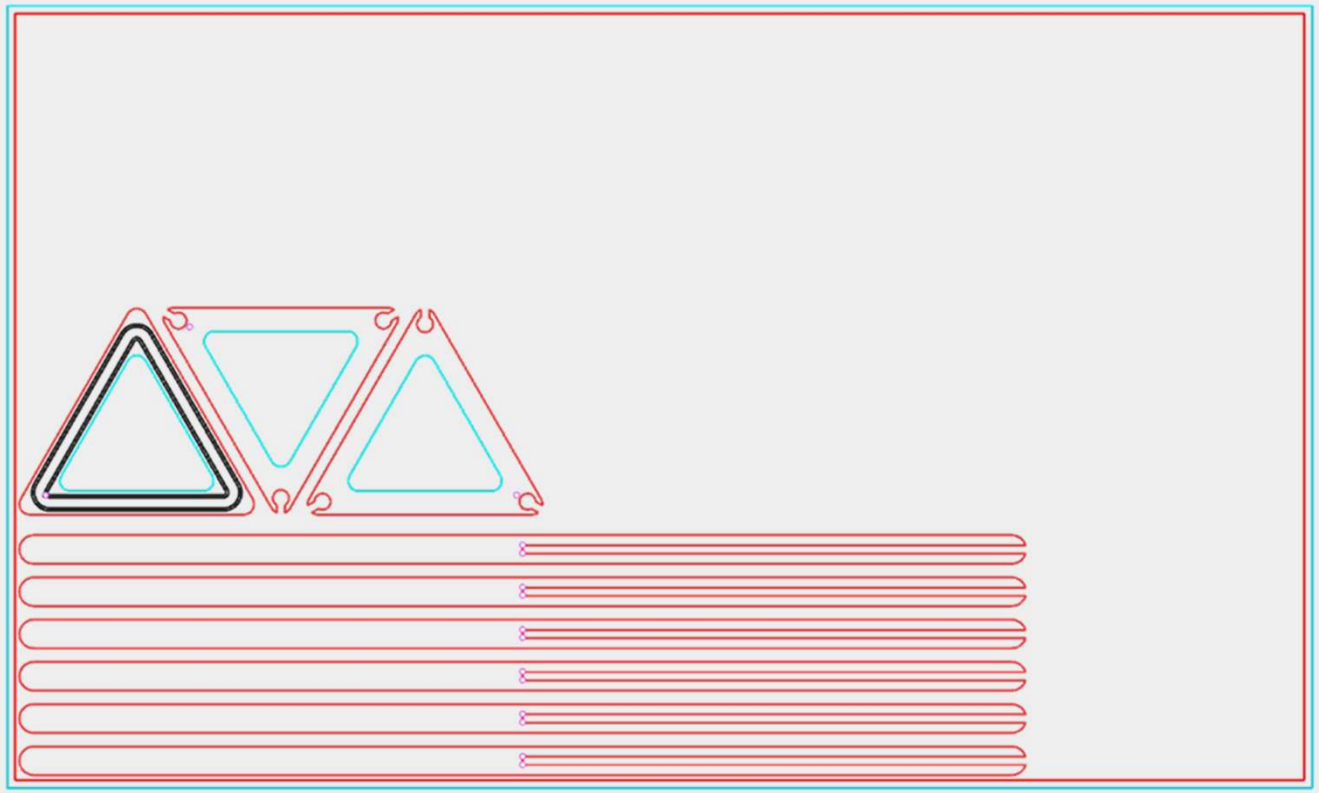
Prototyping





Fabrication process

Step 1: CNC for plywood members







Fabrication process

Step 2: 3D printed connectors









Fabrication process

Step 3: Electrical connections

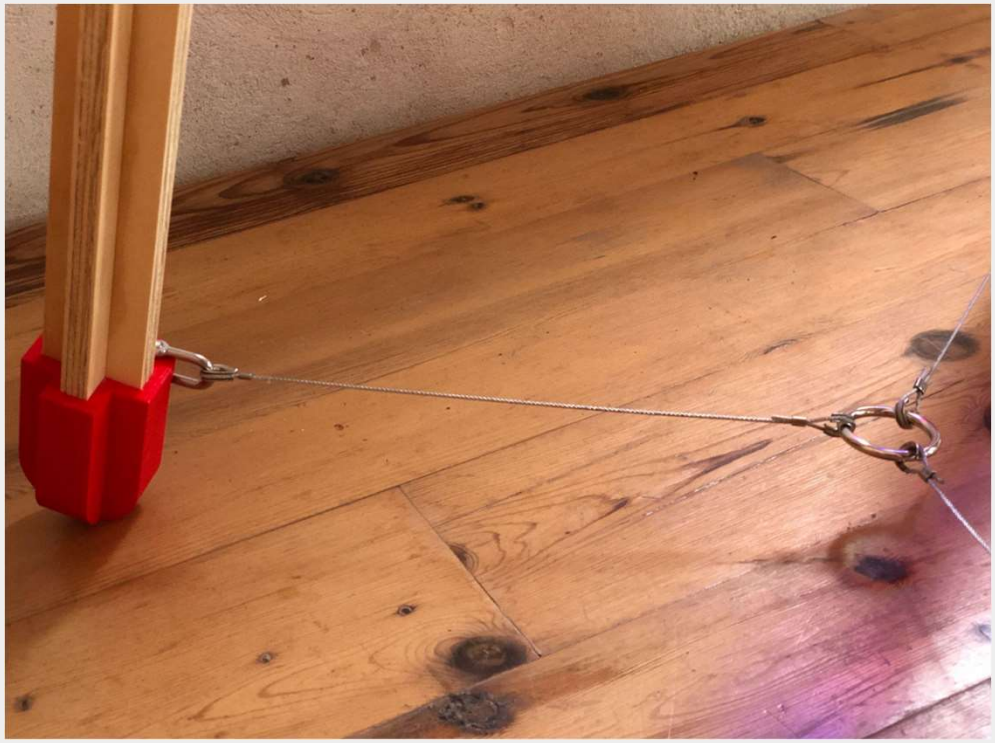






Fabrication process

Step 4: Tension cable connections and damage control





Fabrication process

Step 5: Assembly party!!

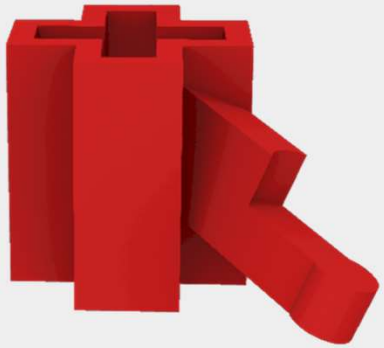




Details

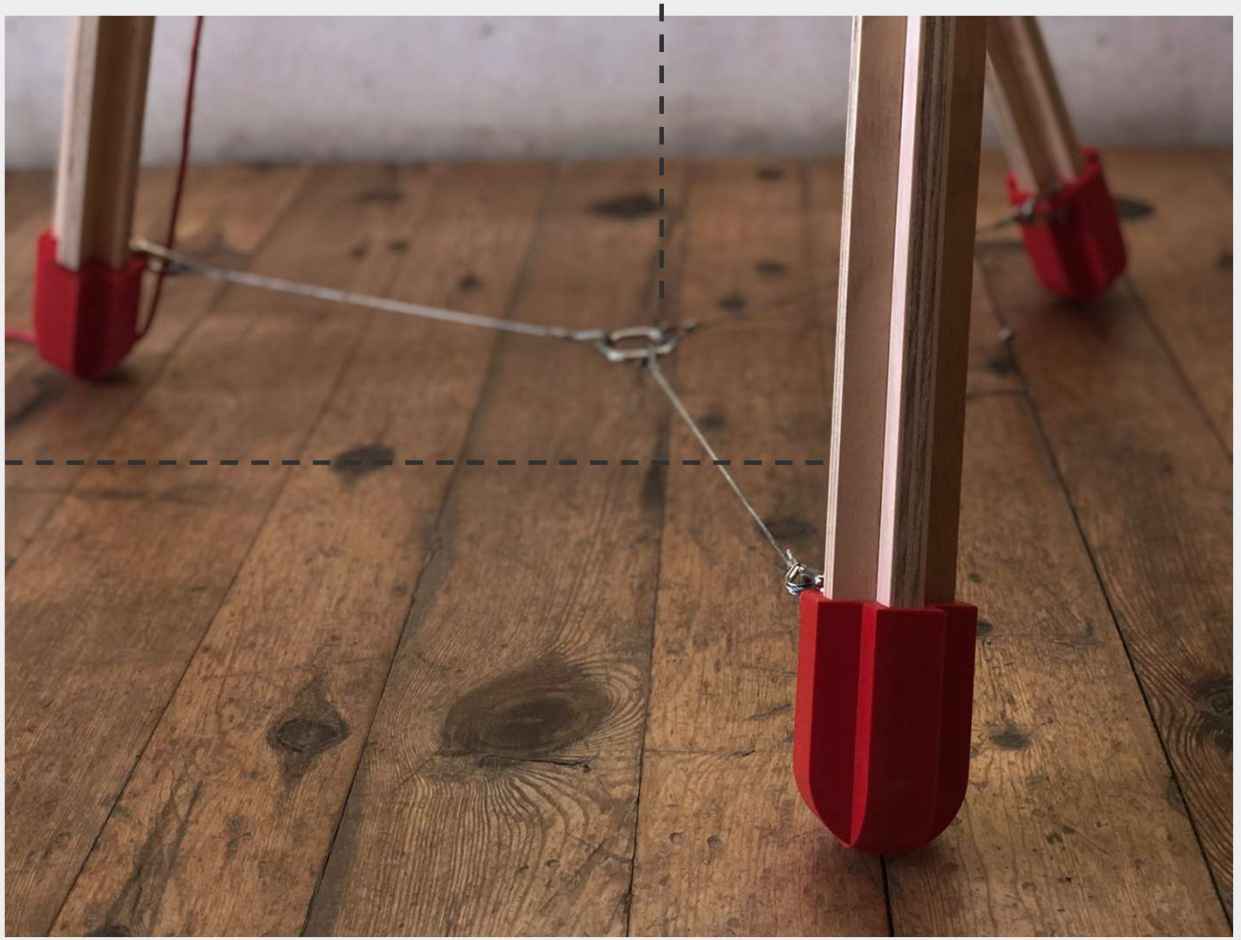






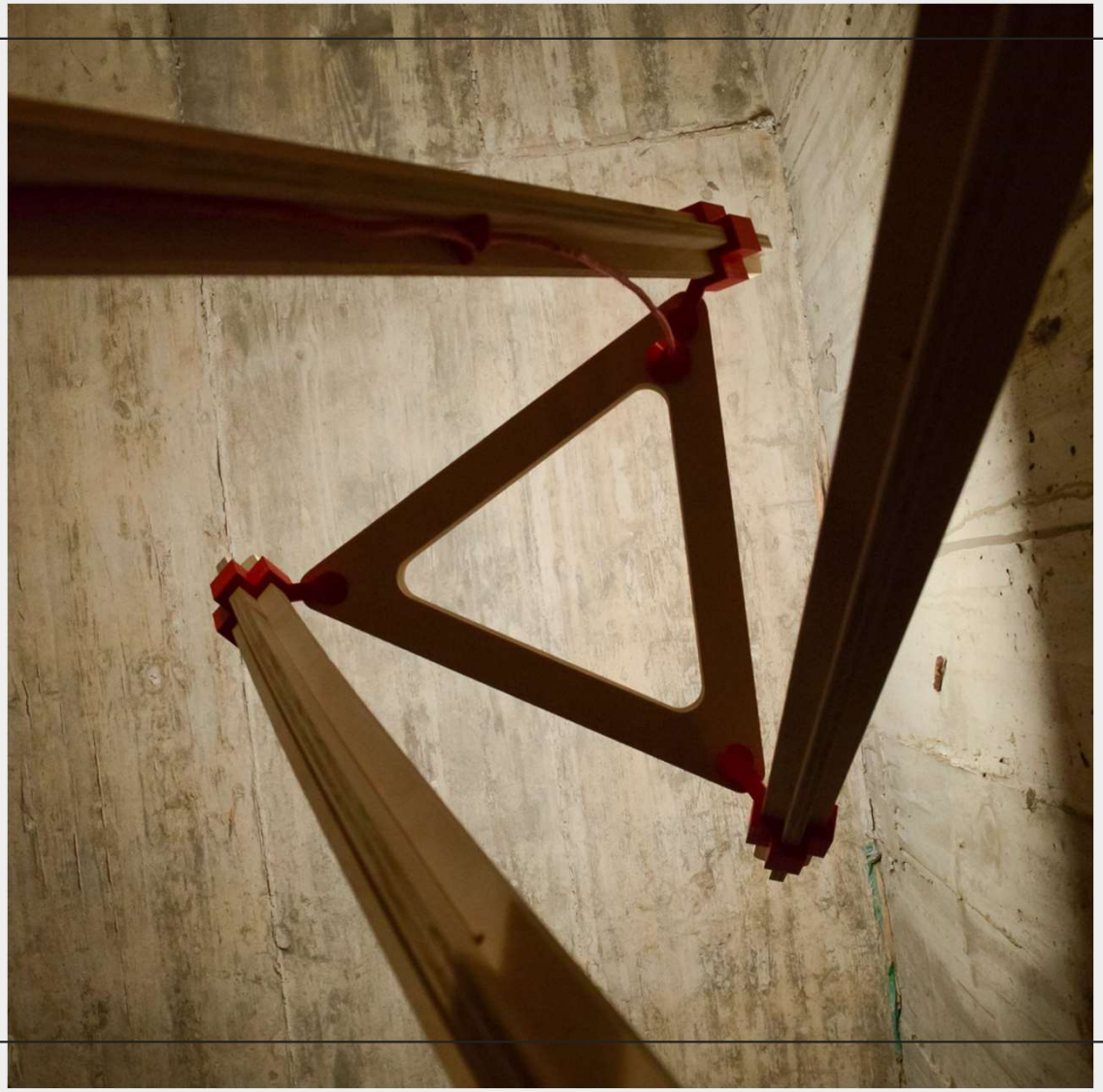
Details







In Context













The End

