Sundownloader

Prototype

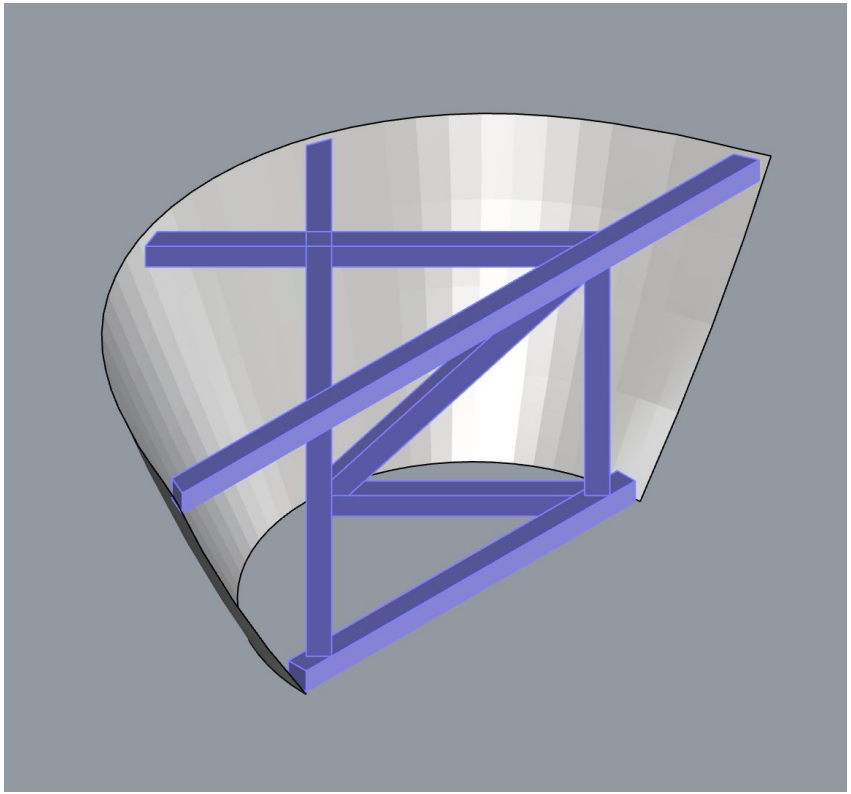
220704_122_Sundownloader Prototype

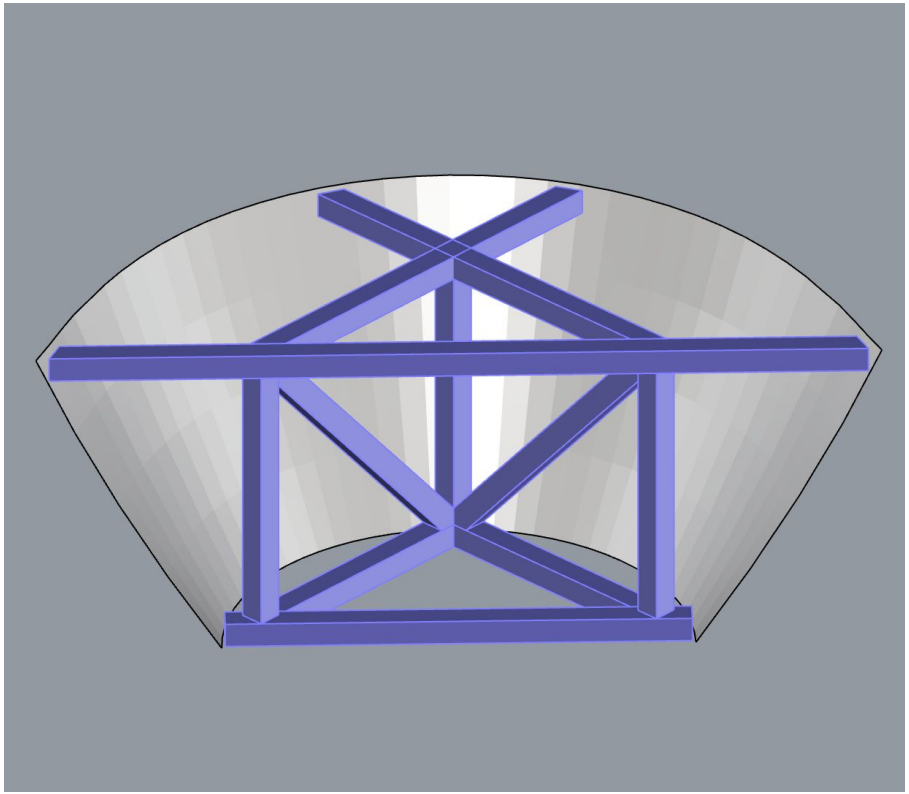
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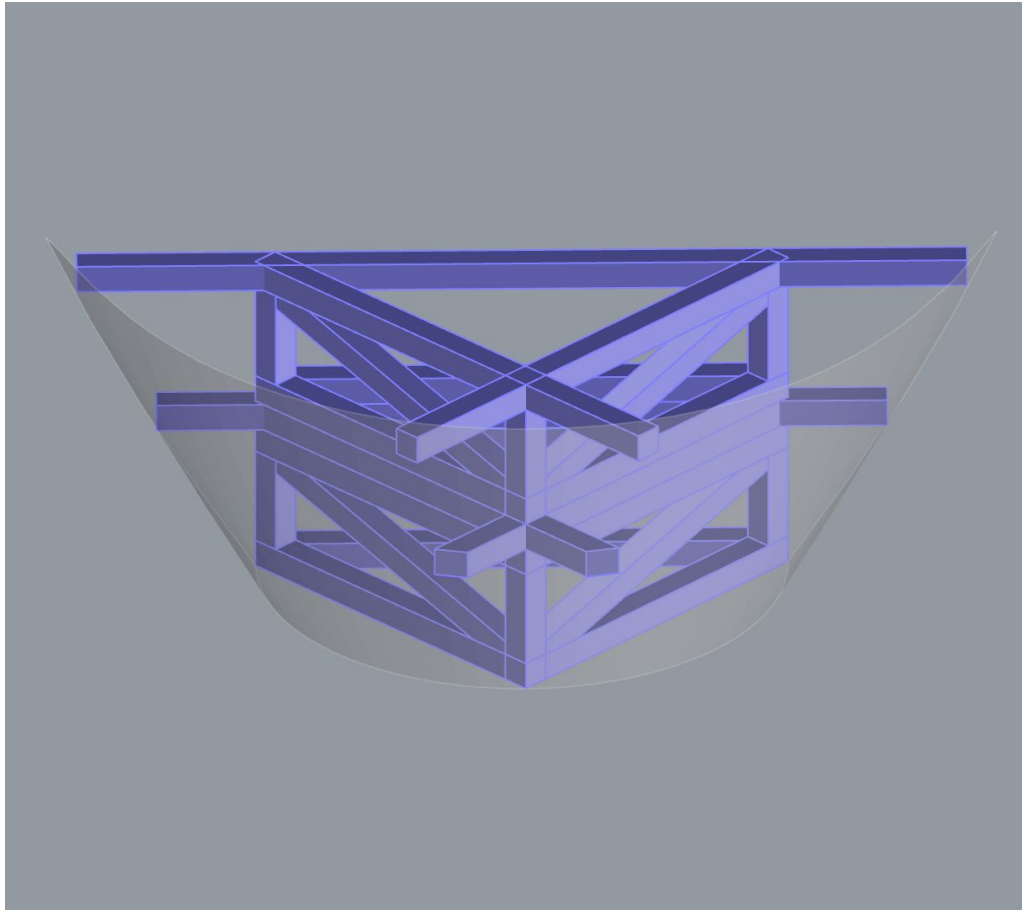
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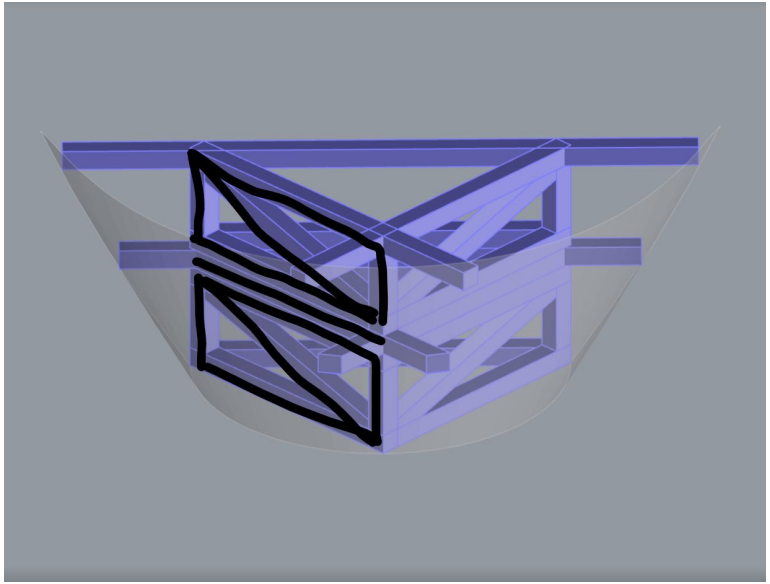
Primary Structure: Version 1





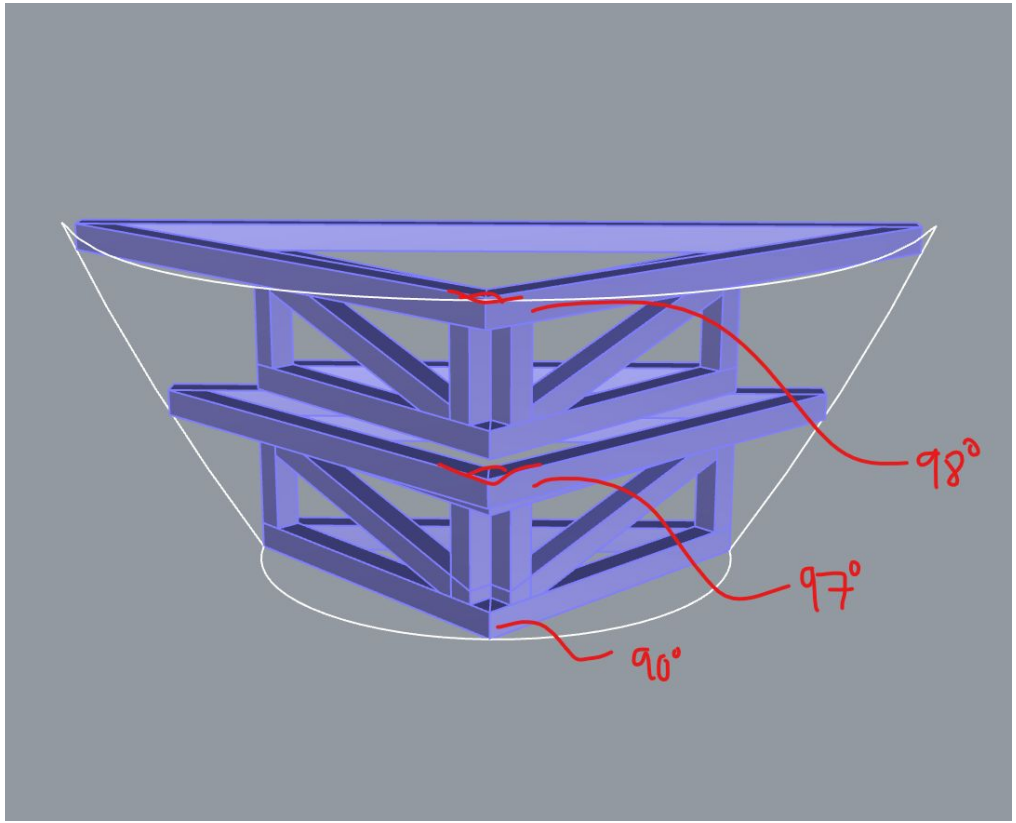
Primary Structure: Version 2

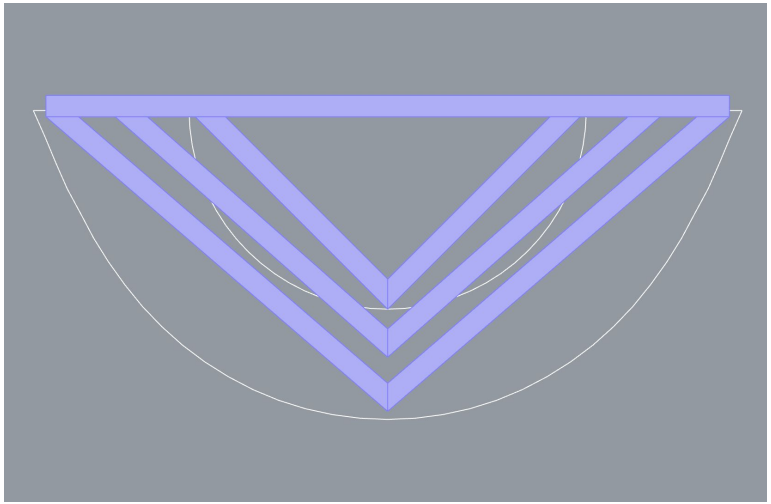




Should be broken into separate frame modules, while also avoiding overlapping members.

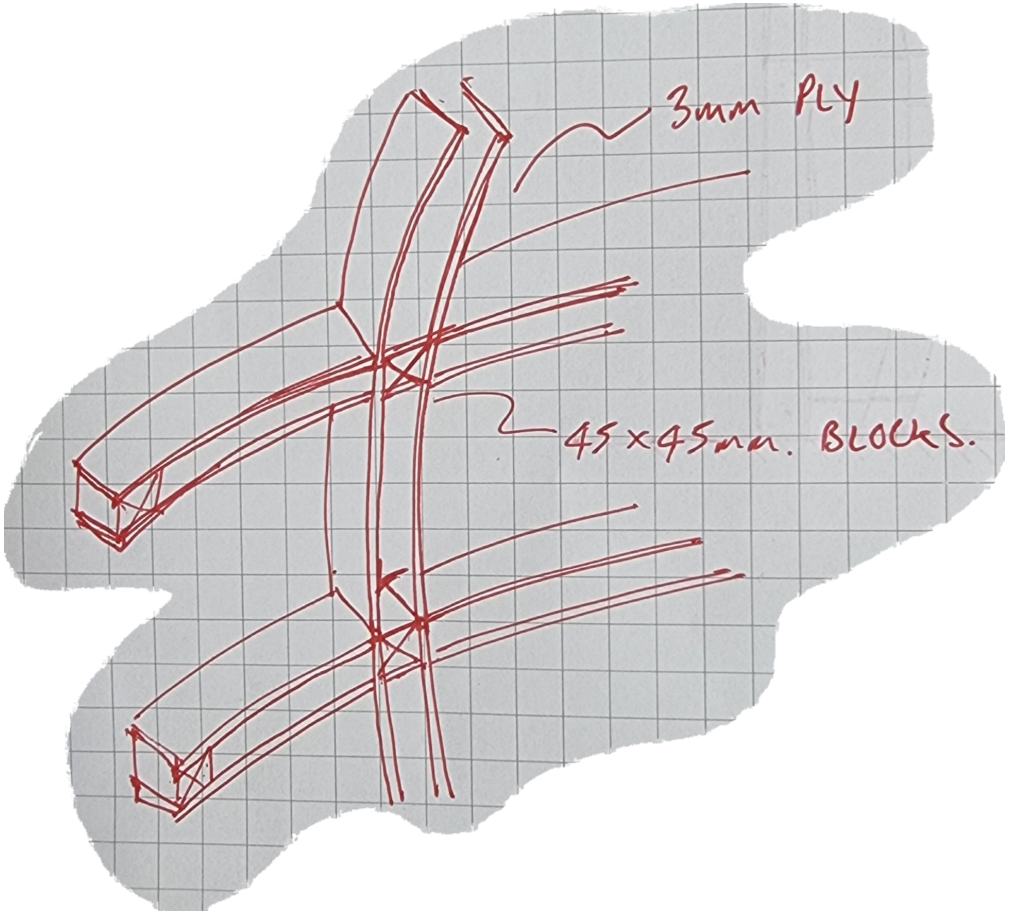
Primary Structure: Version 3





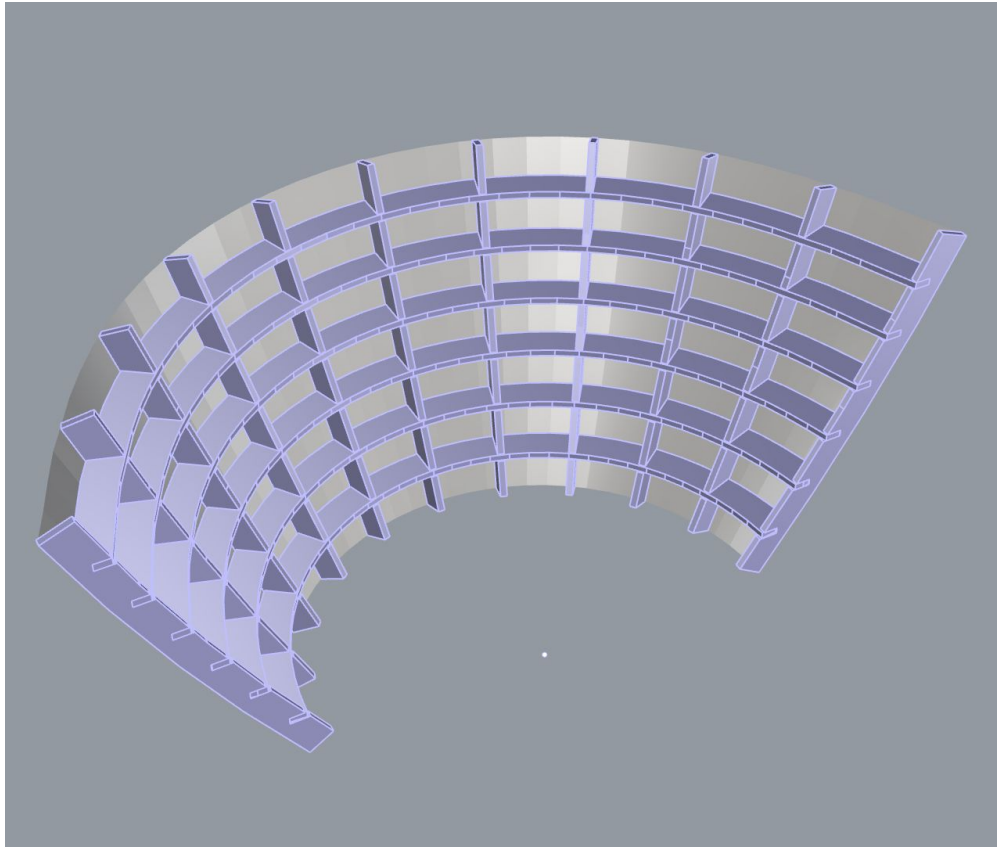
Separate horizontal triangular and vertical rectangular frames can be used to avoid intersecting members which weaken the structure. However, this introduces gaps between the frames and horizontal members which will require additional bracing

Mirror Structure: Sketch



Light-weight laser-cut waffle to fix the curvature in both directions. Screw the panel into the 45x45mm blocks between the thin ribs. Then attach the waffle to the main structure.

Secondary Structure: Waffle



The curvature of the panel can be achieved by creating a waffle structure for the panel to conform to, like a formwork. The waffle structure can lock the curvature in place. The waffle should then be fixed back to a primary structure.

