

**Bookshelf Final
Project,
ATLS 3100 Form**

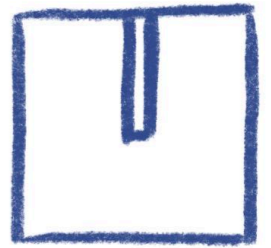
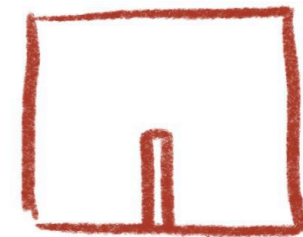
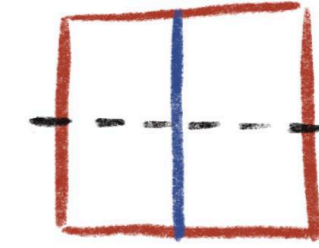
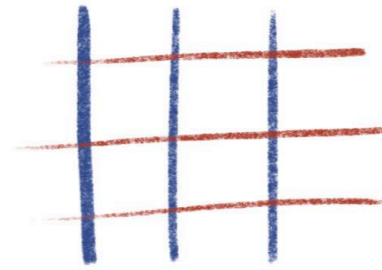
Sophie Luu, Jack Kolesa
Recitation 013

Sketches & References



Reference shelf for the Initial cardboard model

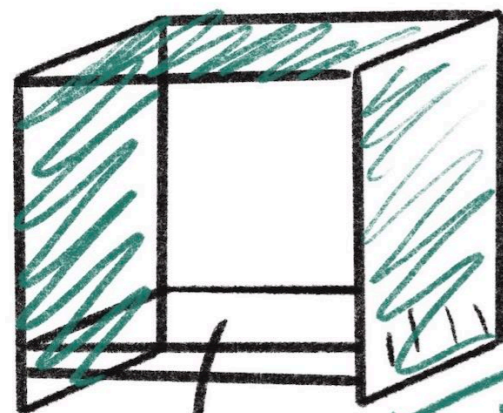
Explanation of how general slotting works



all blue slots should have slots from the top, red should be from the bottom

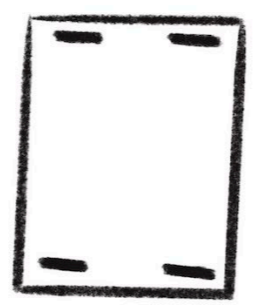
General dimensions for the cardboard model

2.5



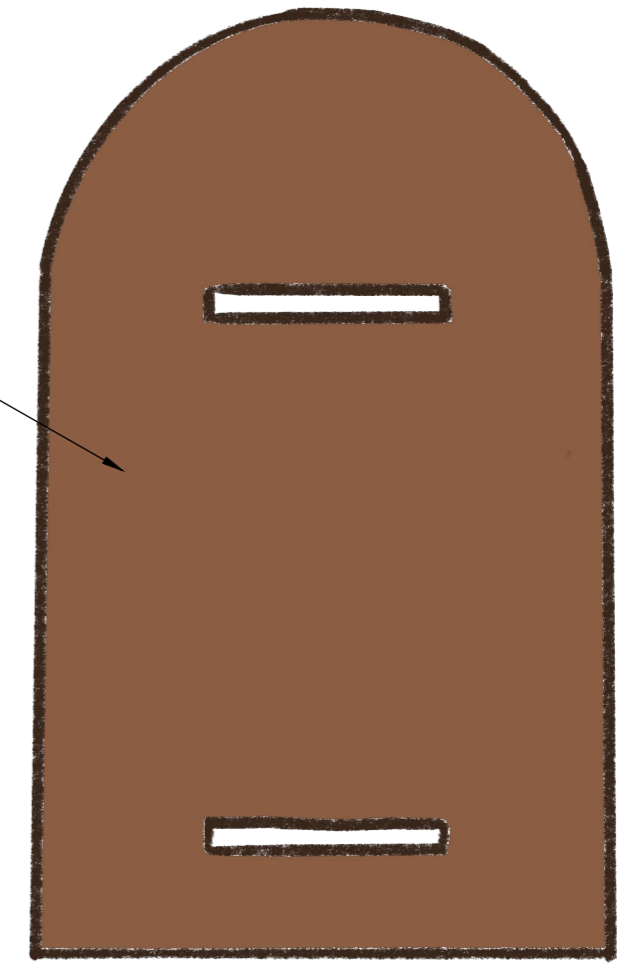
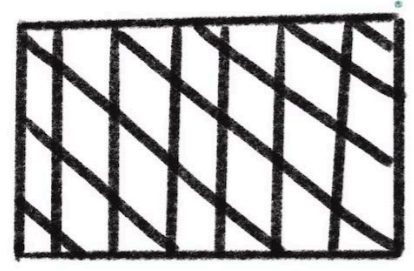
1 ft

10 in

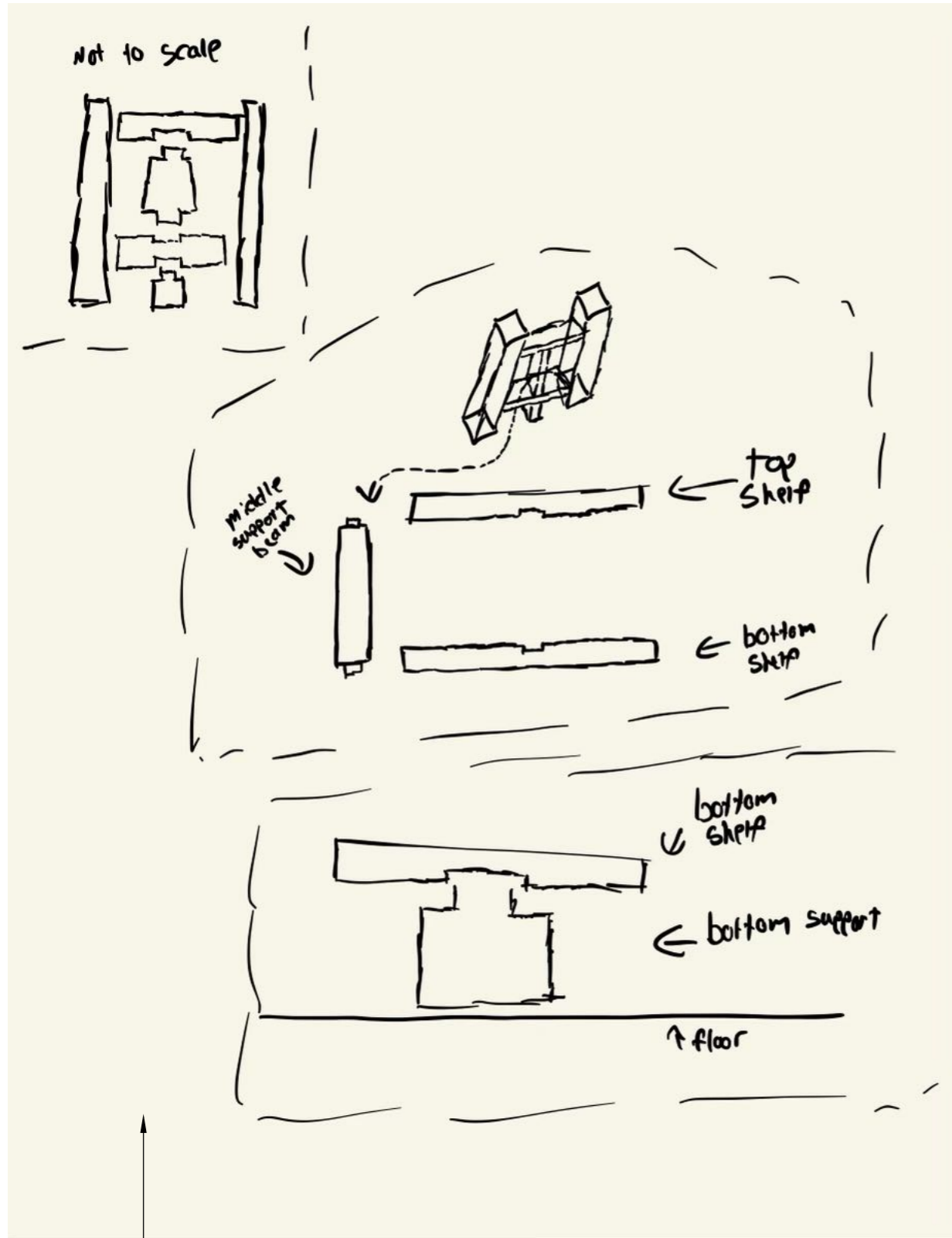


Curve allows things to be assembled easier since builder will know which side is which

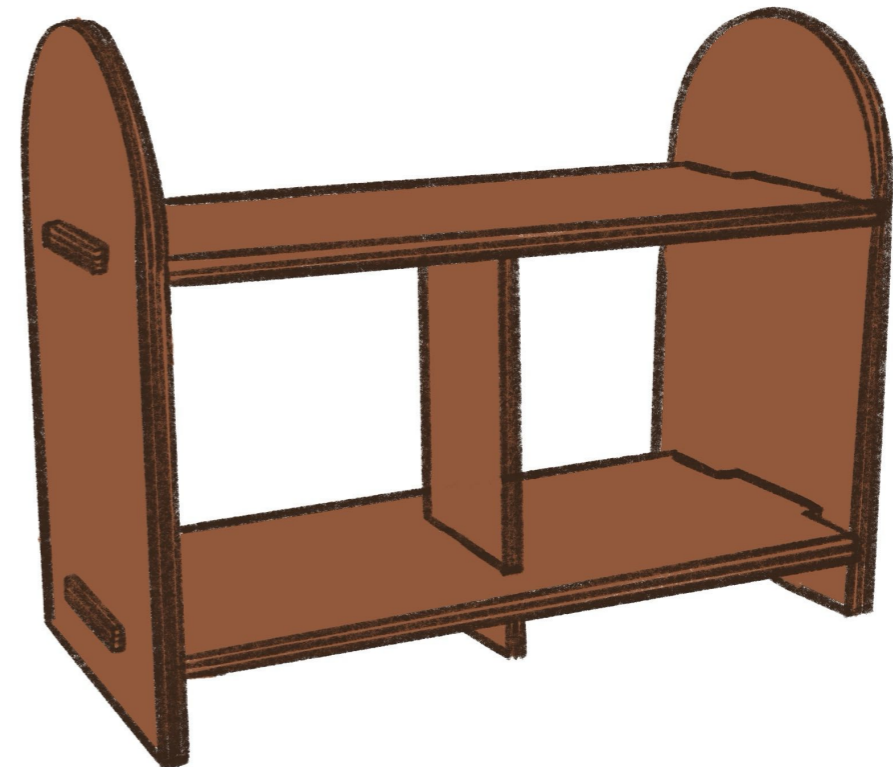
This was our initial sketches of How the pieces would slot together.



Sketches & References

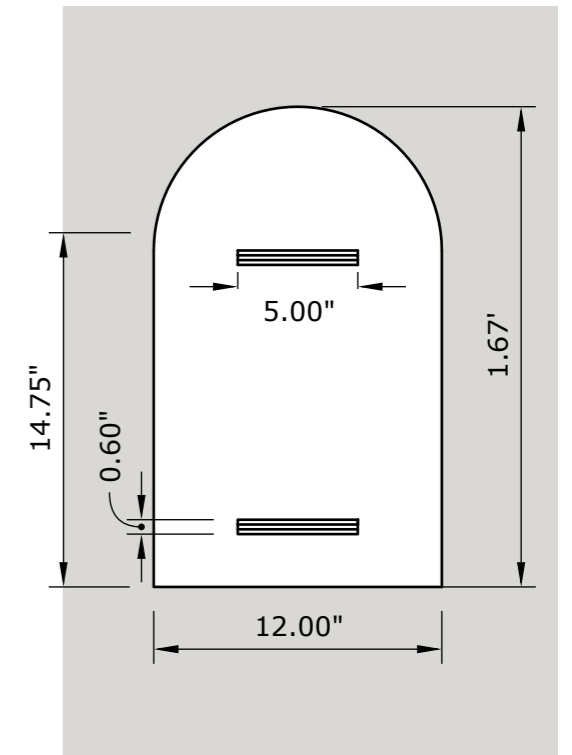
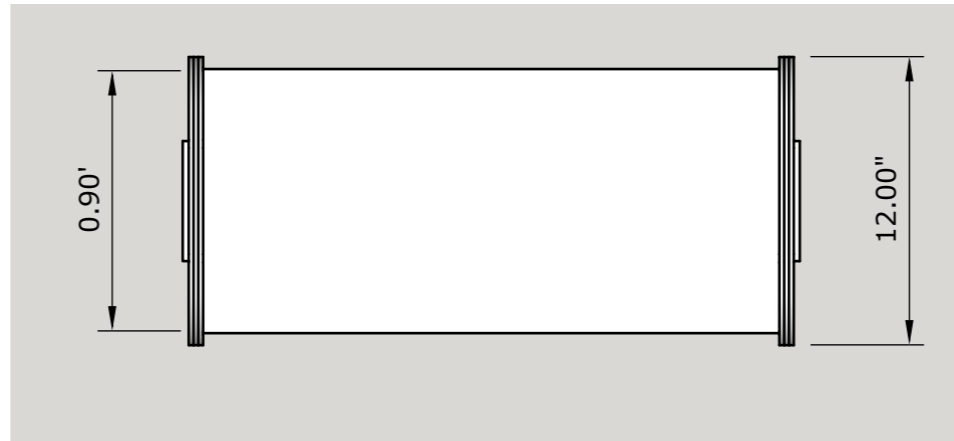
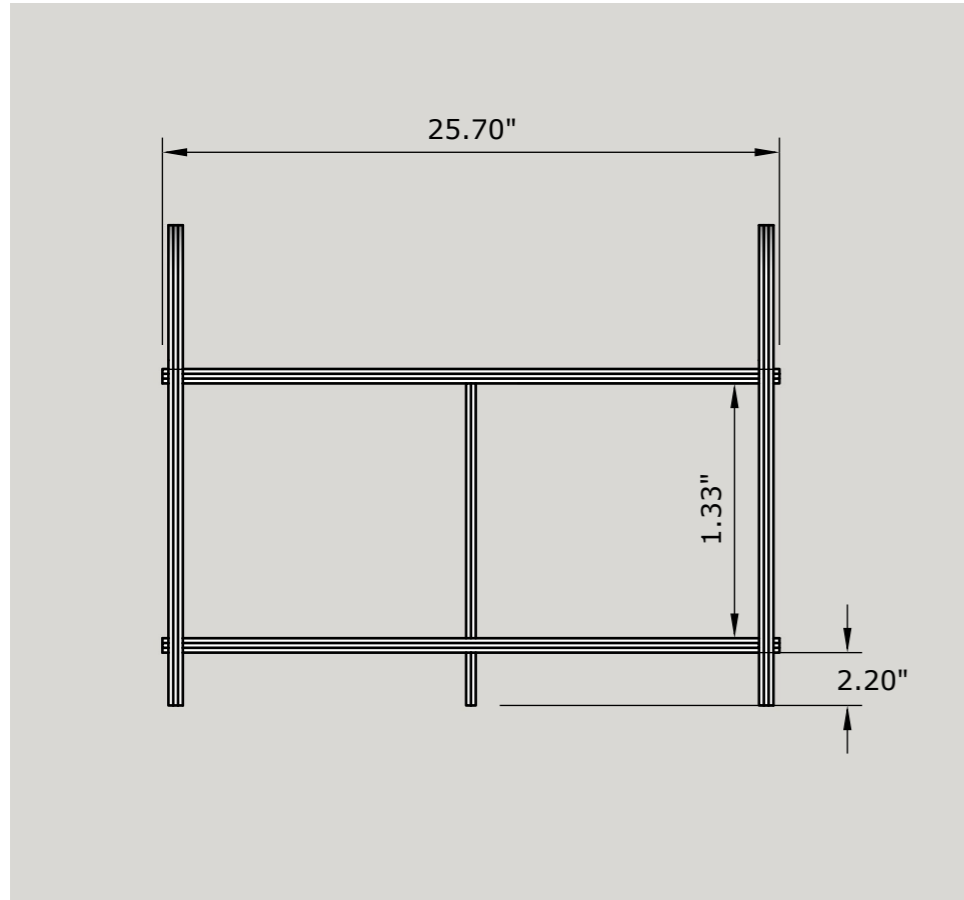


Final sketch for the wooden model



• General slotting concepts for middle beam wood pieces.

Orthographic Views



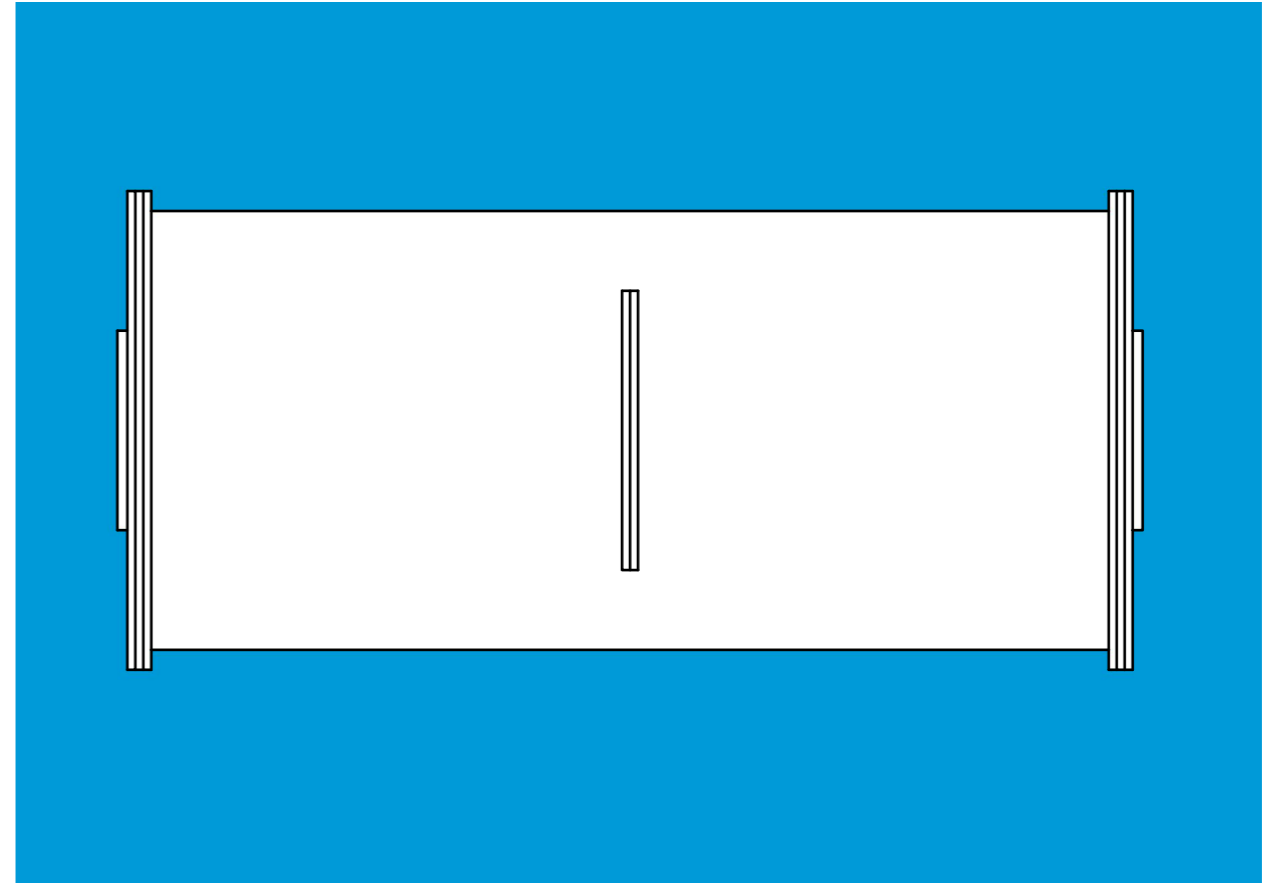
Scale 1in:8in

Orthographic Views

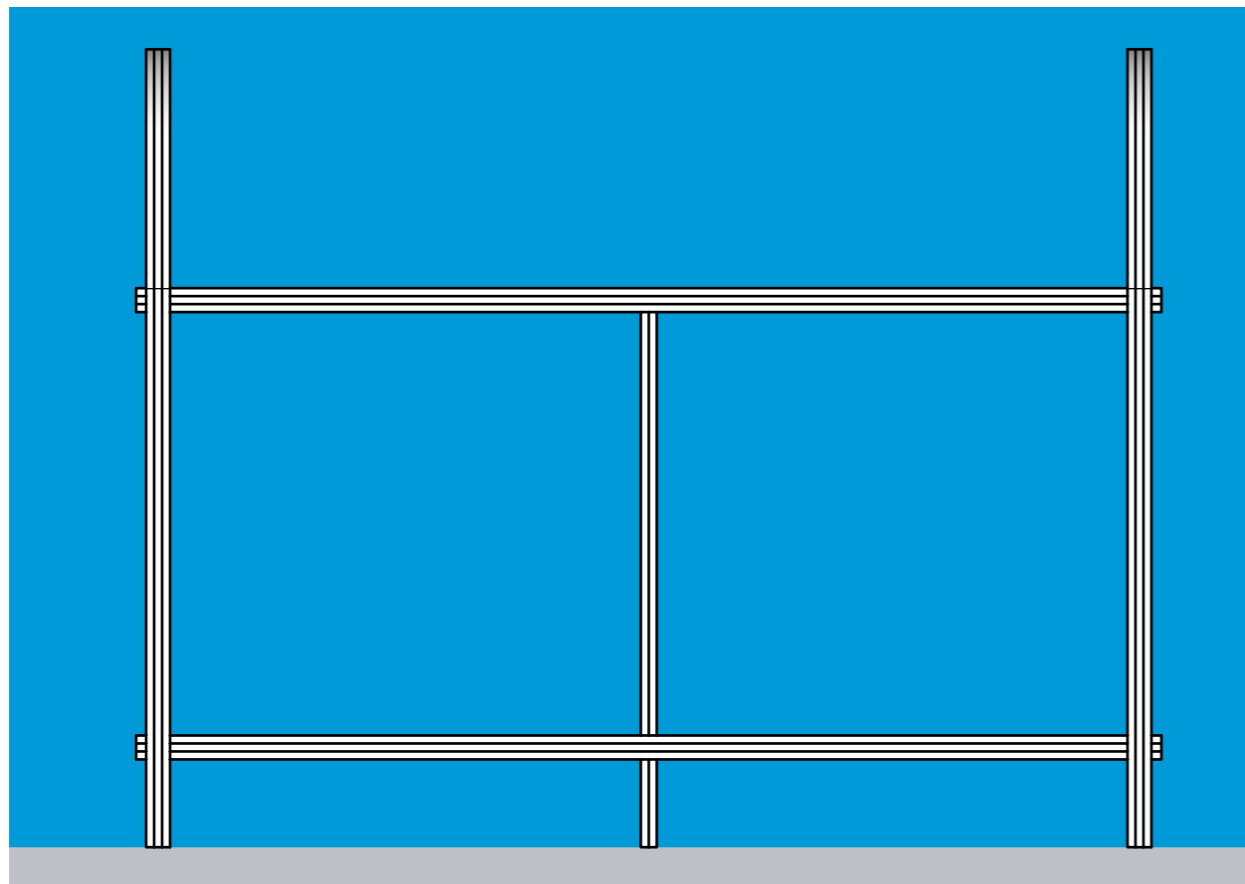
Top



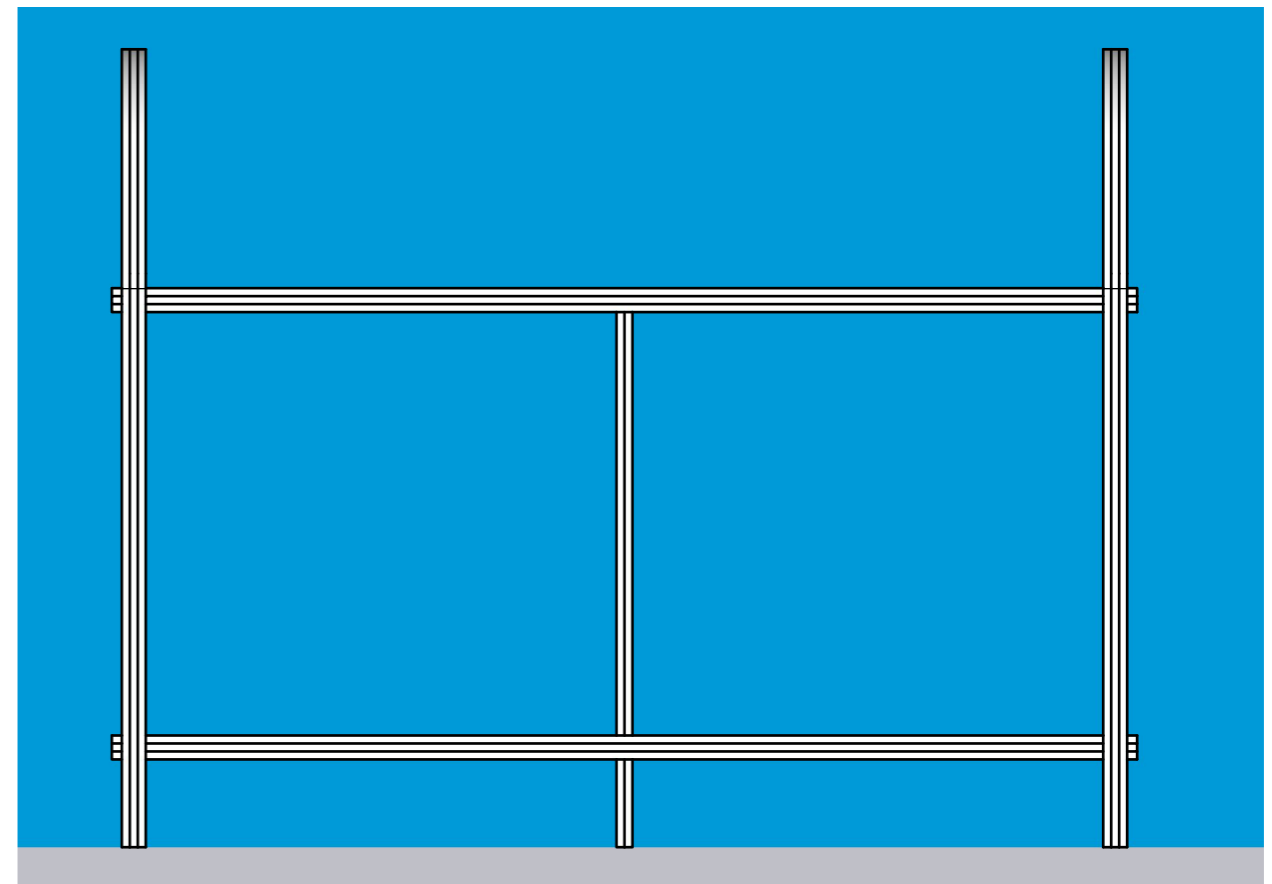
Bottom



Front

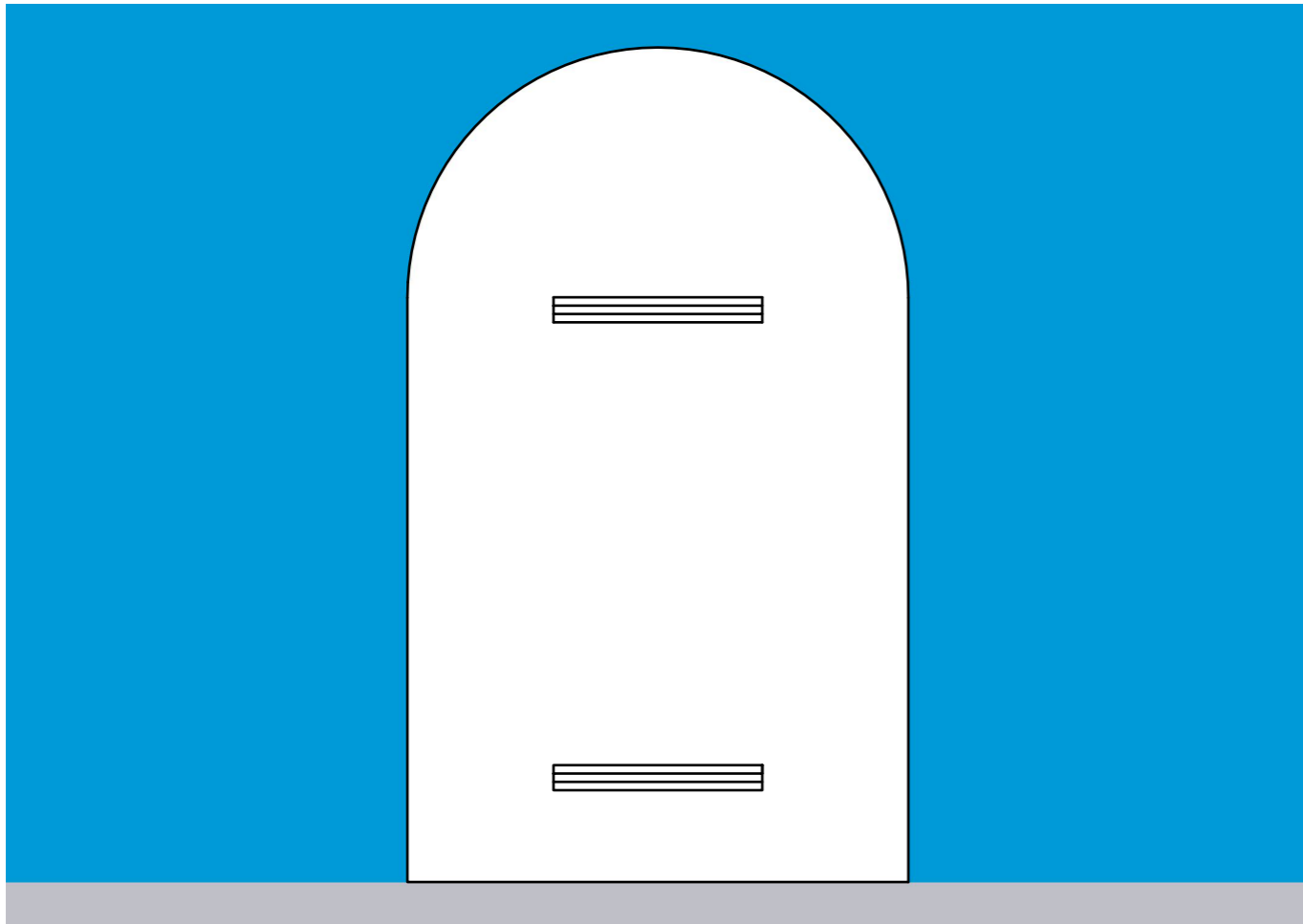


Back

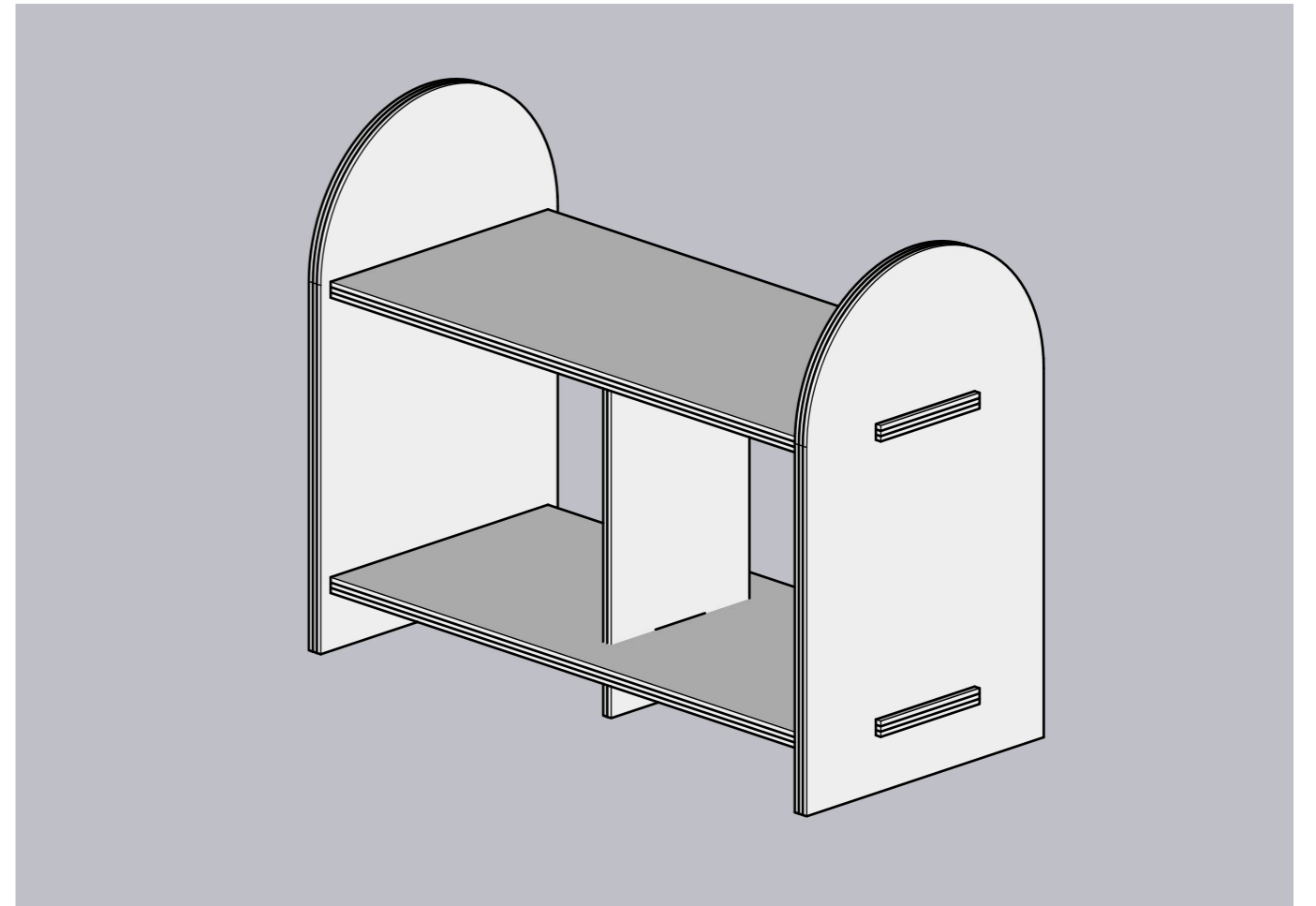


Orthographic Views

Side

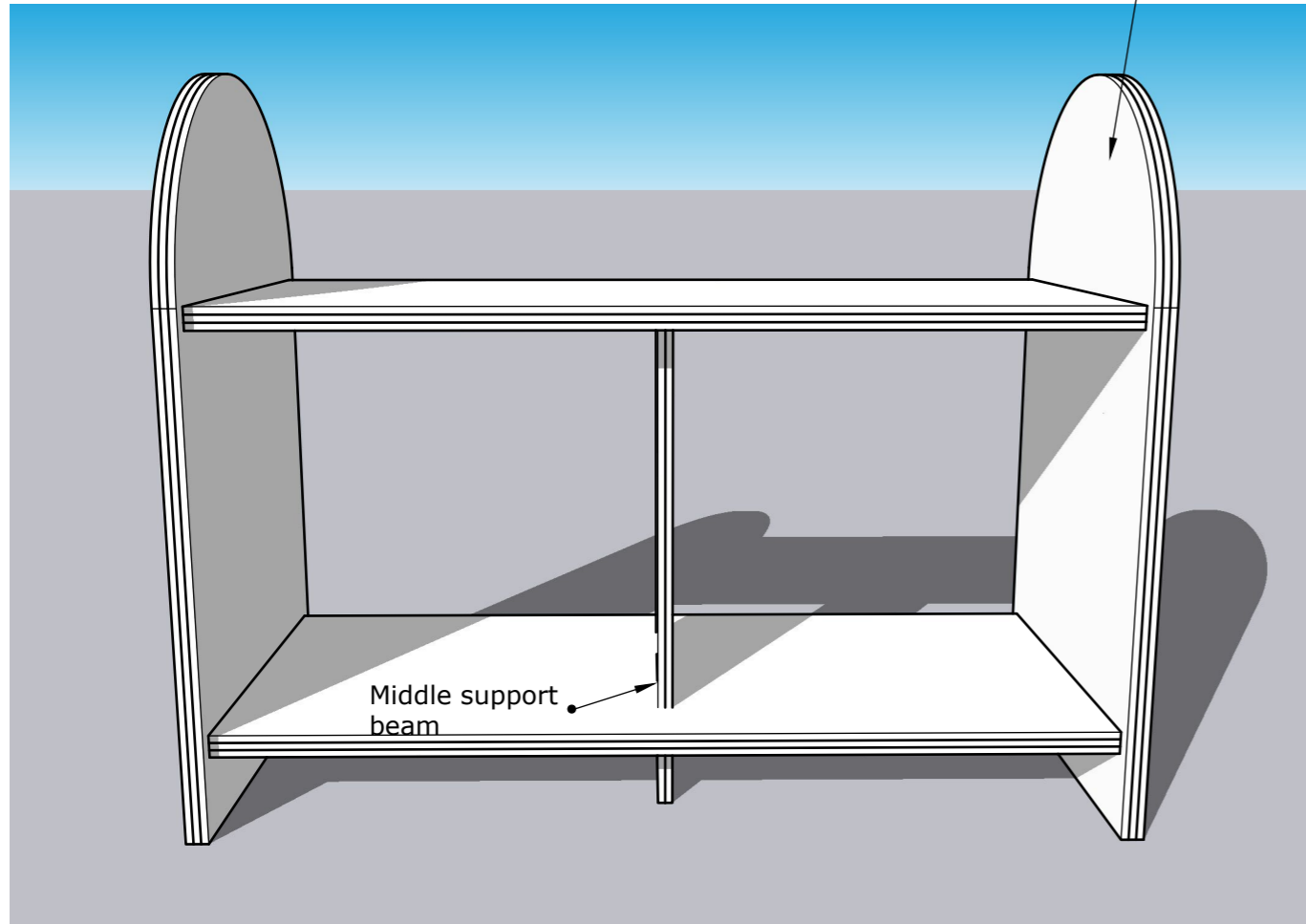


Isometric

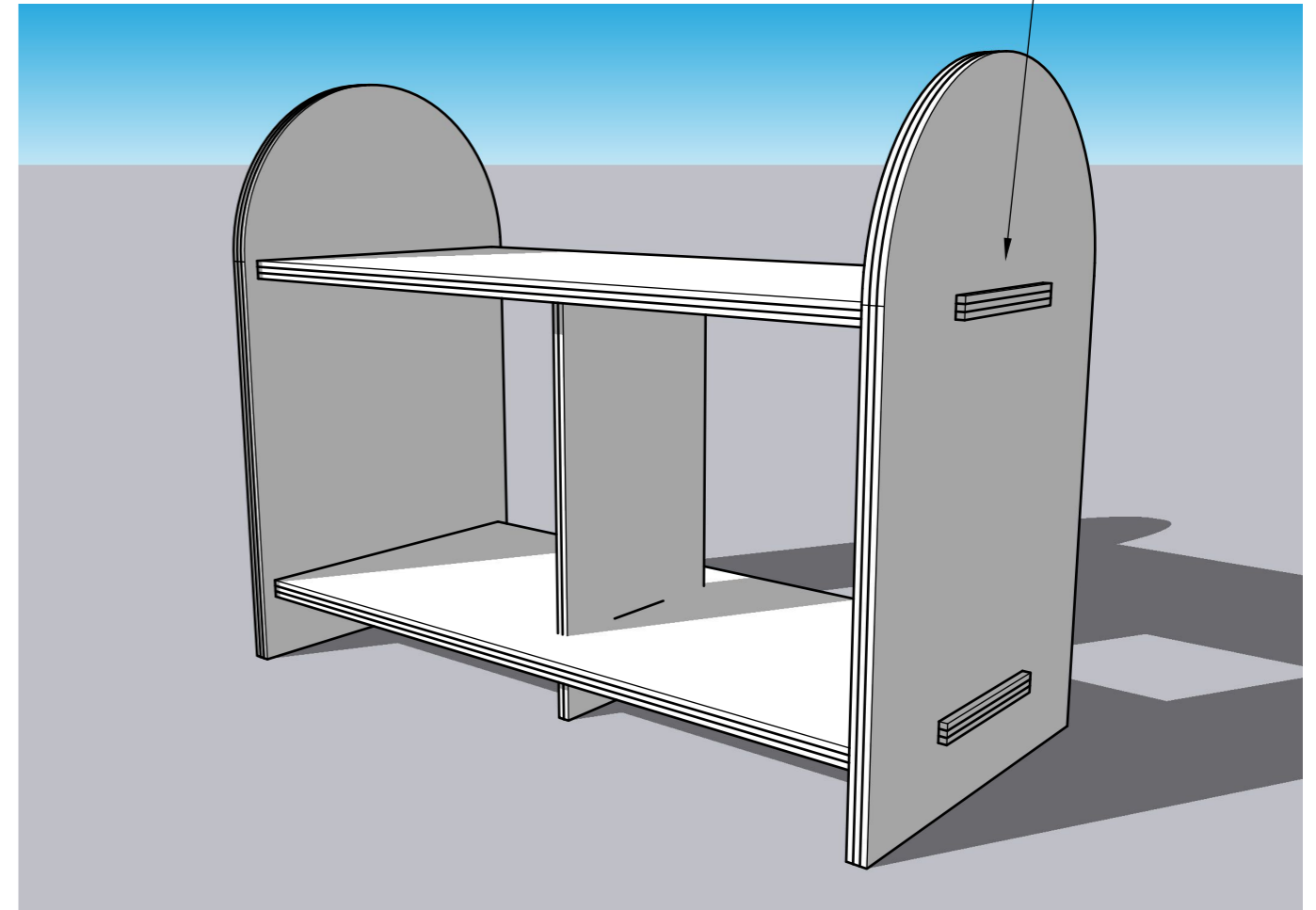


Perspective Views

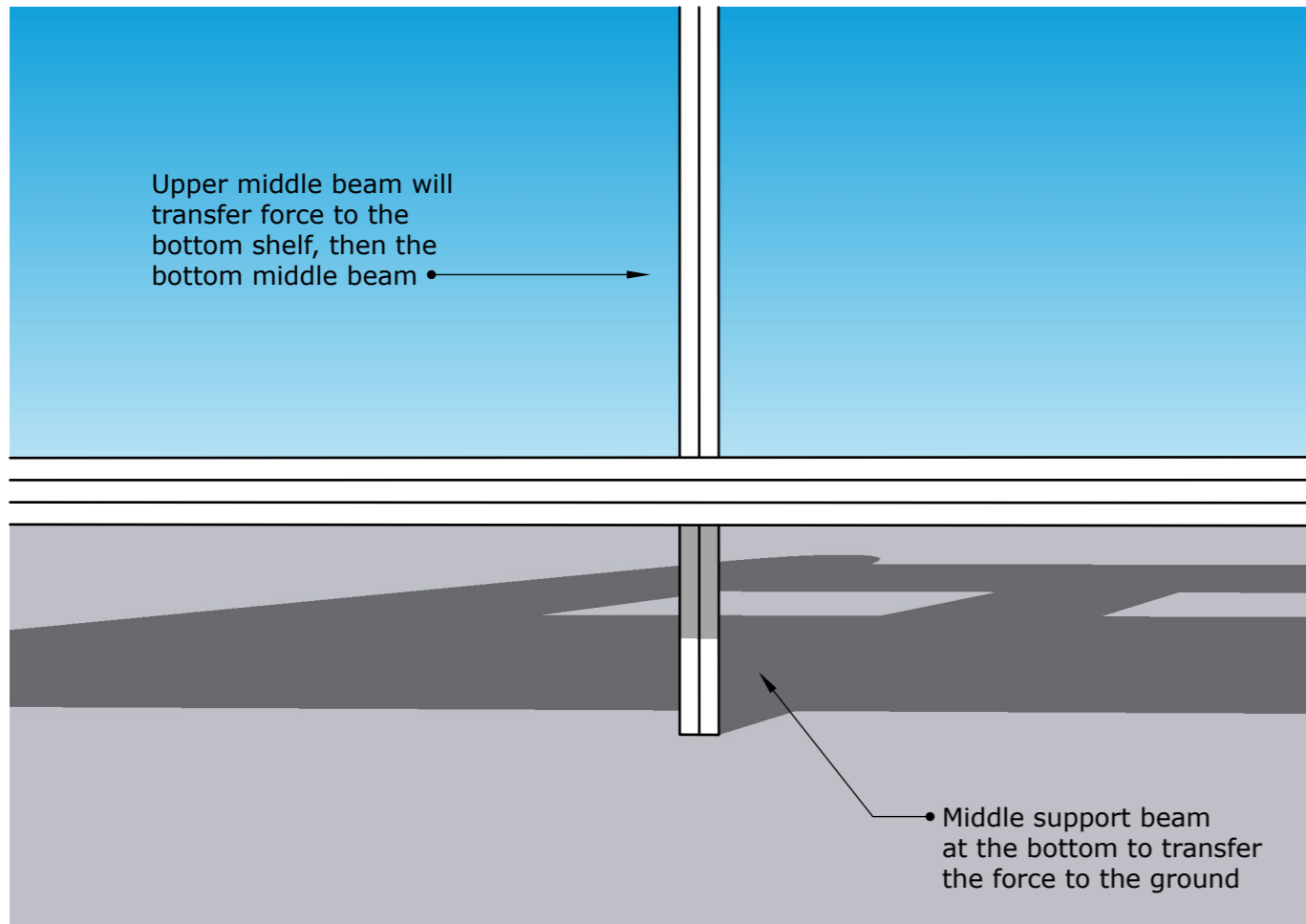
• 3 pieces for side supports



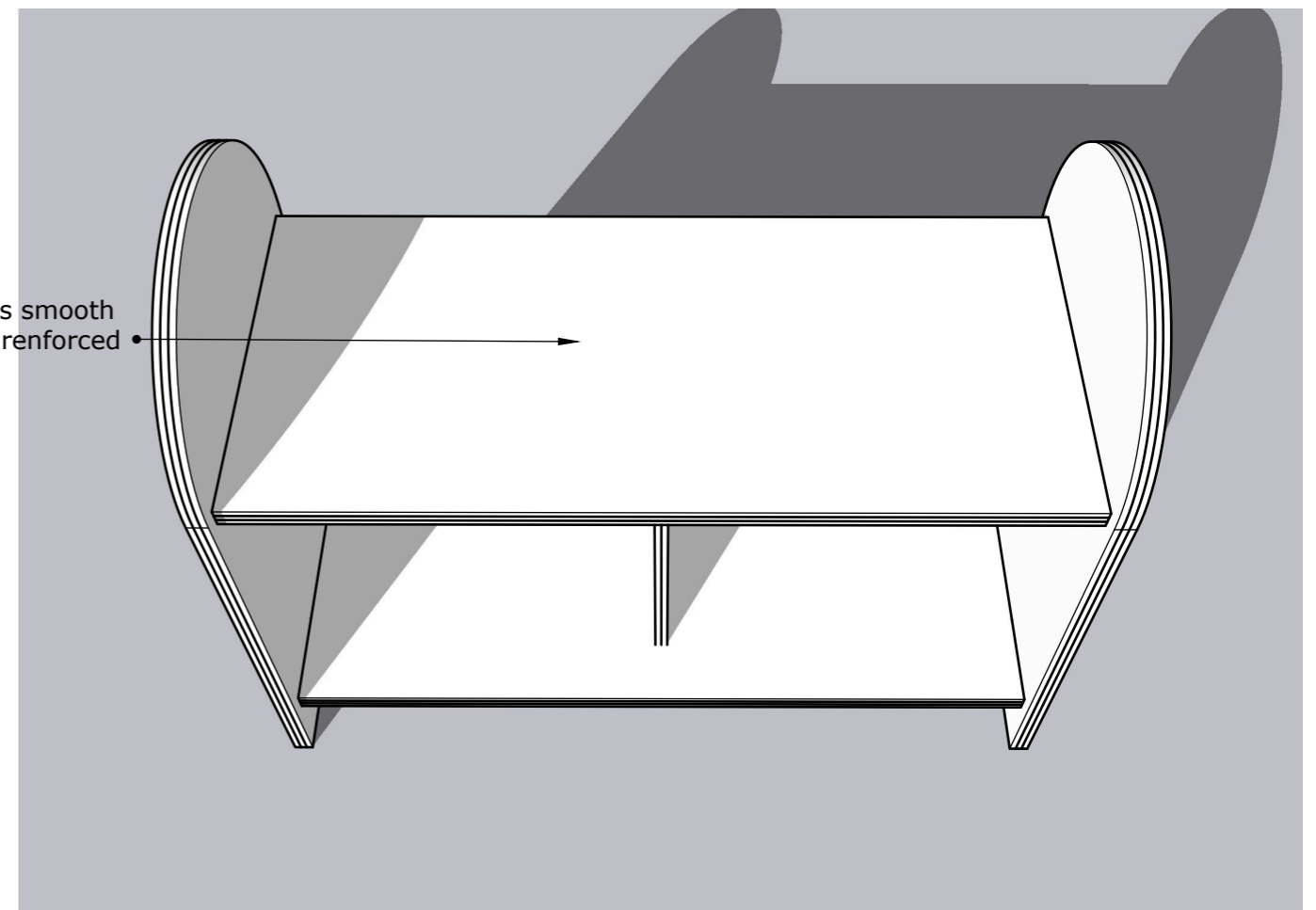
• Poke through the slots to increase stability



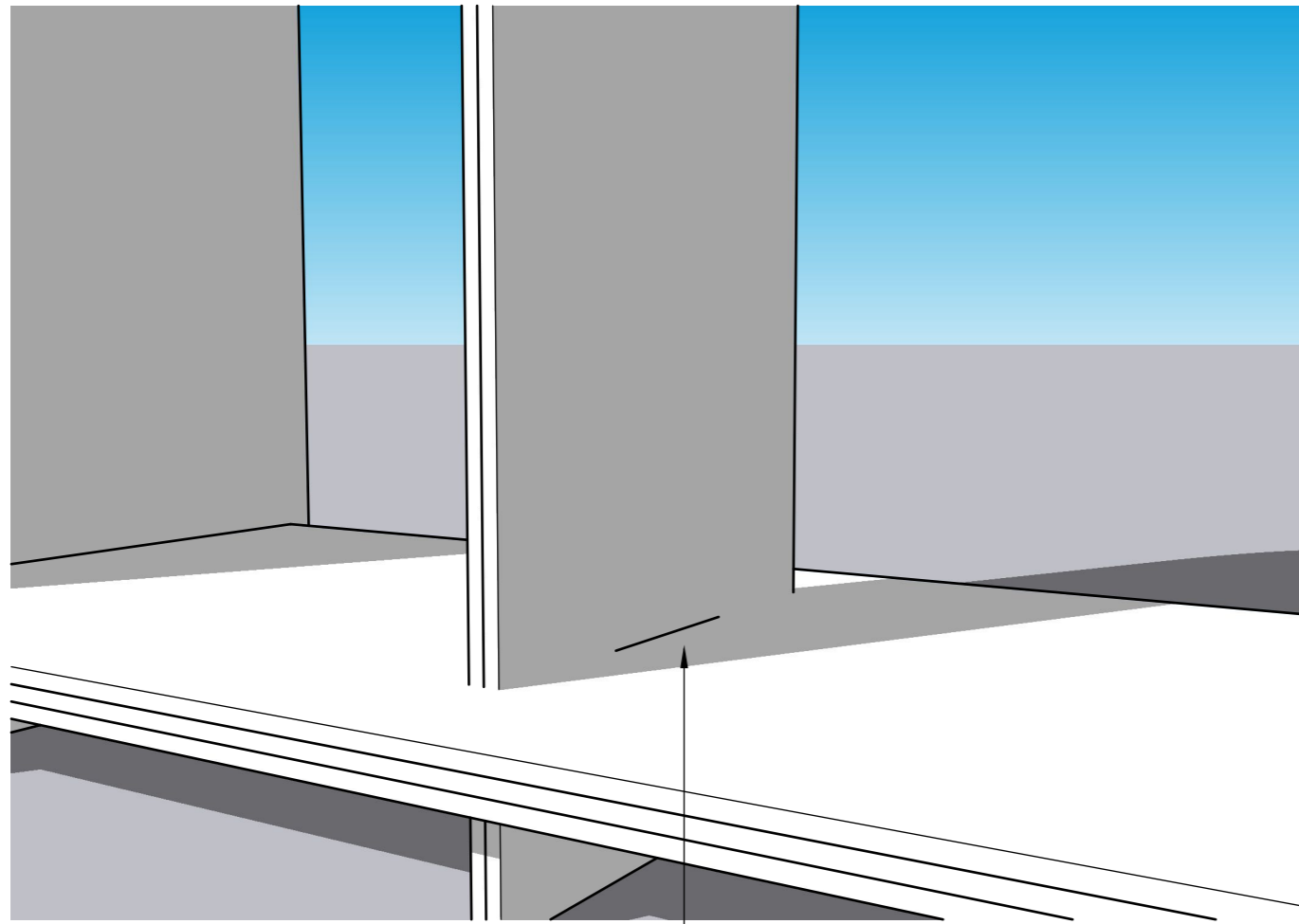
Upper middle beam will transfer force to the bottom shelf, then the bottom middle beam



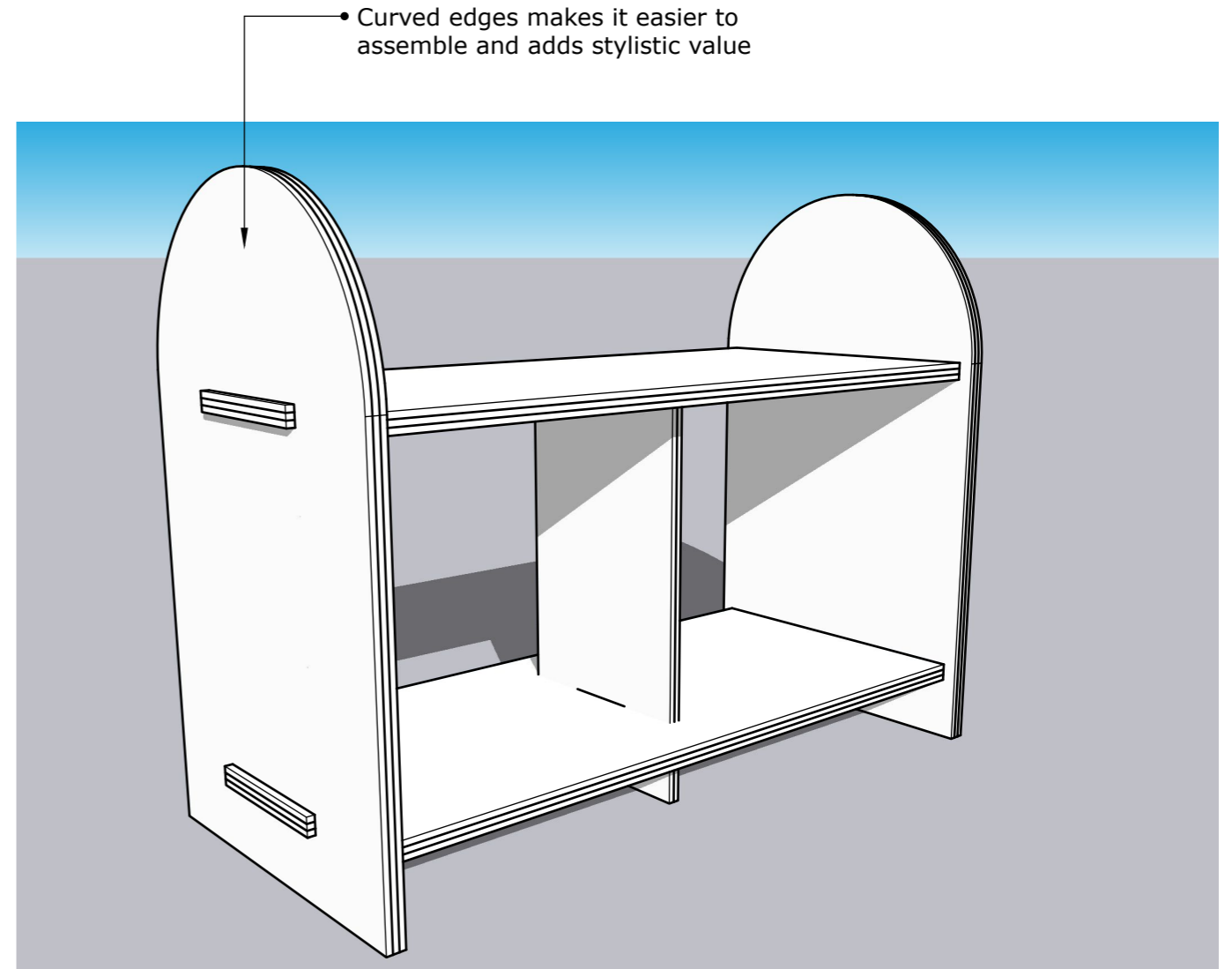
The top is smooth and well reinforced



Perspective Views



• Notch keeps the middle beam up straight



• Curved edges makes it easier to assemble and adds stylistic value

Photos



Photos



Photos

