Design Summary - We investigated using a two prong clip joint for both the warm-up exercise and the panel construction design. After a series of mock ups, we made several design changes before constructing our final prototype. Initially, our joint was about half the length and used a different assembly procedure, but we learned that a longer profile was more flexible and a larger hole would be required to rotate the pieces within each other.

Warmup - Snap-fit Joint

Two prong snap ensured a snug fit.
Cut Sheets:

- Top and side interior joints: 6 pieces
- Top and bottom corner joints: 2 pieces
- Center interior joint: 4 pieces
- Bottom interior joint: 2 pieces

Scale 1:2A
Wall Joint Conditions:

- Joint becomes plug at top corner
- No feet needed for side and top connections
- Feet at base
- Two tabs to prevent shear

Design based on Assembly Requirements:

- Gap to fit snap-fit heads
- Narrow neck for rotation
- Thin enclosure for bending
- Enclosure tabs to hold in place
Final Wall Construction:

Side Joints

Top Joints

Interior Joints
(Main Condition)

Bottom Joints
Final Design

Joint Detail