

## Appendix F: Mockup Testing and Feedback Summary

**Details:** May 3, 2024, 2:00 PM, Misericordia

Member Present: Zora Hinrichs

### Methodology:

- I took photos of our mockup at a shower ledge that was representative of many other ledges
- I asked about other mockup models that I was not able to bring, and how Trina felt about the design aspects
  - She noted the potential safety issues with lifted platform
- I recorded issues with our mockup / issues in general that I had not previously noted
  - Ledge difference from ramp cannot be more than  $\frac{1}{4}$  in (ideally none)
- I recorded dimensions of the space for new / improved mockup ideas
- I tested the shower chair as best as I could and as safely as possibly on our mockup
- To make sure I got the best possible picture for future mockups for the team, I rolled a team member from another section on the shower chair on the current ramp and observed what happened and the issues, so that we could overcome them in our final design

### Observations / Comments

Observations	Opportunities	Follow Up	User Suggestions
Trina like adjustability that came with springs	Continue to work with springs	Find a way to lock springs in place	Do not have screws showing
No rough surfaces / bumps on outer ledge for safety and sensory reasons	keep surface smooth	Attempt to find a way to get rid of any attachments on surface	Keep in mind sensory issues
Find a way to keep springs locked	Work with another changing material?	Complete free body diagram for safety as well	Likes adjustability
Entry point to ramp and point getting onto ledge have to be flush with ledge	Keep adjustability very precise to be flush to ledge	Test on dorm showers to see how close it gets	Keep surface flush or shower chair won't pass
Multiple entry points / curved entry for easier access	Curve the ramp or have sides come down	Test on wheelchair in segal	Will be helpful for small space

## **Discussion**

Trina emphasized the importance of prioritizing ledges between 2 and 3 inches in accordance with safety regulations and ADA compliance. She noted that residents requiring assistance are likely to utilize showers with higher ledges. Therefore, our design refinement will focus squarely on achieving universality within this range, ensuring accessibility for all. This approach will enable us to address previously overlooked aspects, such as incorporating multiple entry points. Additionally, it's vital to find a locking mechanism for our design. Trina expressed appreciation for the adaptability of our mockup, which allowed for tailored fitting to various shower ledges. Looking ahead, she seeks enhanced stability and accommodation for shower chairs. While Trina isn't overly concerned about non-slip materials due to a reliable option she found on Amazon, maintaining safety remains paramount.