

Bedmate

Lofted bed shelf for college dorm rooms



WHAT THEY WANT



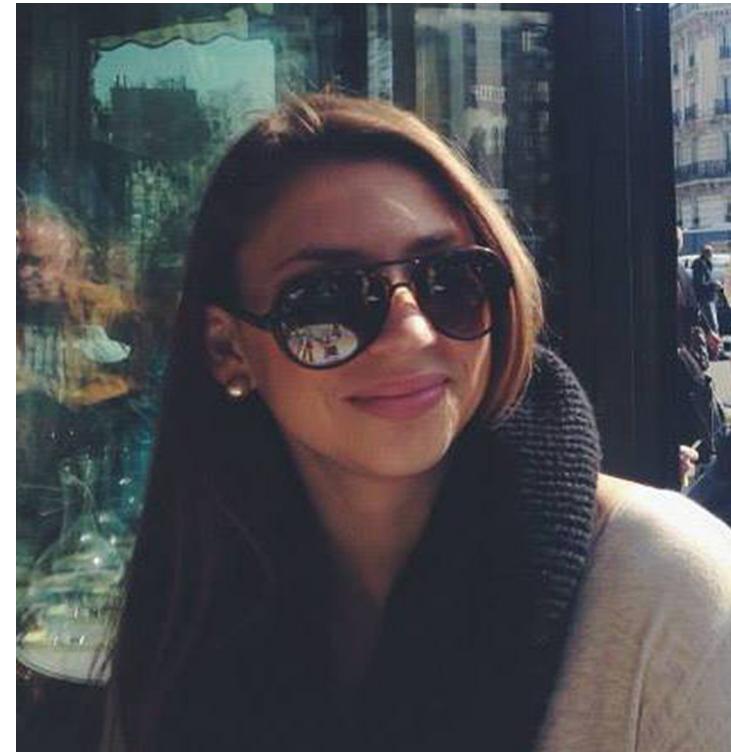
CHRIS D.
RUTGERS UNIVERSITY

"It would be nice to watch movies in bed without having to worry about my **laptop** crashing to the floor when I fall asleep mid movie."



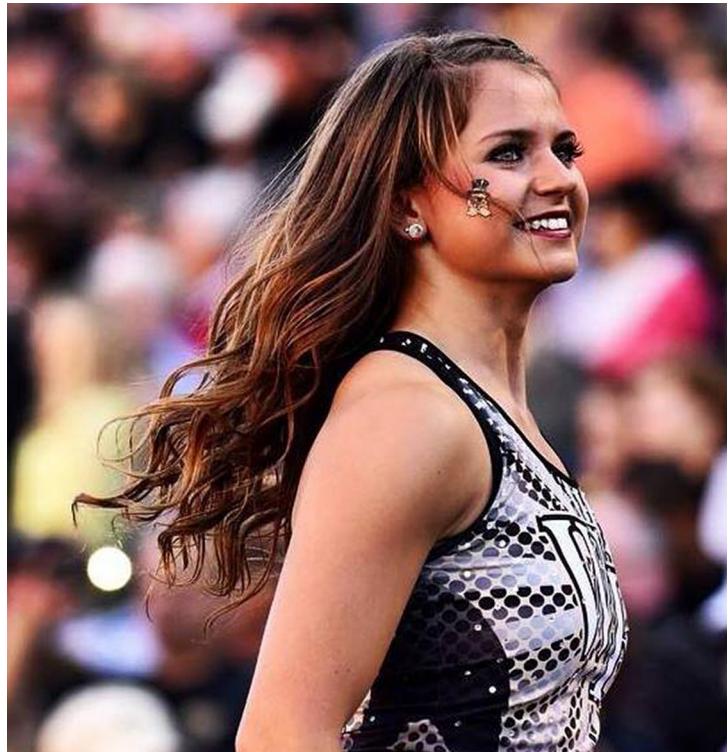
MICHAEL J.
VIRGINIA TECH

"I need a place to charge my **phone** and put my **alarm clock**...Oh and **food!**"



KATIE B.
CLEMSON UNIVERSITY

"I love to read. It would be nice to have a space to place my **books** when I get tired. They usually end up falling to the ground in the middle of the night... Then I end up loosing my place!"



JESSIE F.
WAKE FOREST

"I actually use one of the bunk shelves that are already on the market but I **can't fit much** on them at all. Plus I'm a little **skeptical** about putting too much weight on them. They don't seem **sturdy**."

CURRENT MARKET



flimsy

little support holds limited weight



crowded

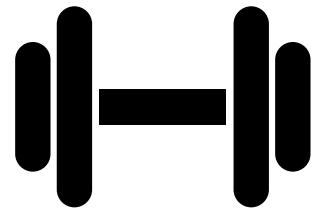
no room for laptop and books



limiting

a simple hook does not fit a variety of beds

DESIGN GOALS



In order to support a laptop and heavy books, the design needs to be **strong**.



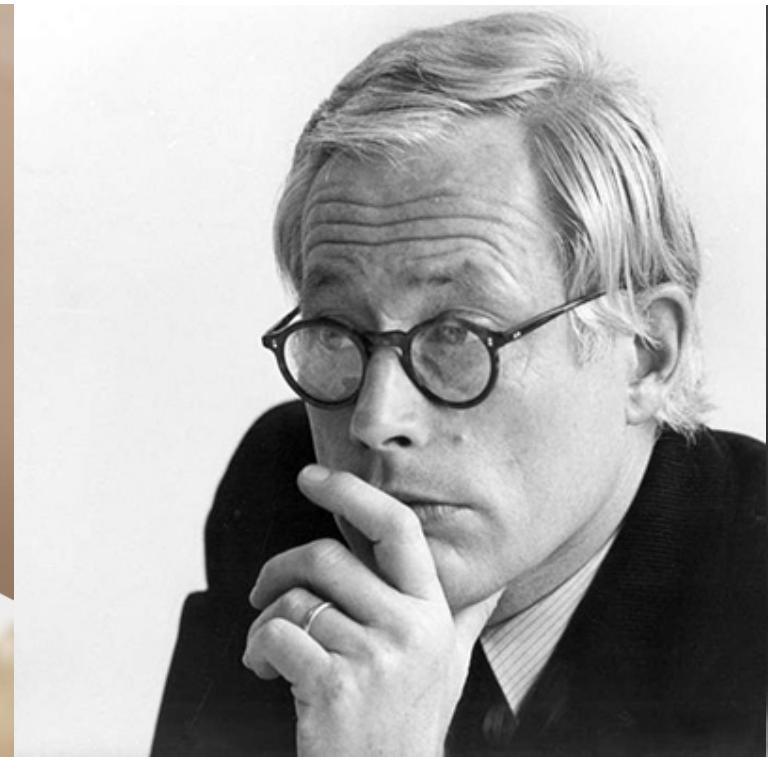
The design needs to have a **large surface area** to fit a laptop, books, and other necessities.



With a variety of head board thicknesses, the design needs to be **universal**.

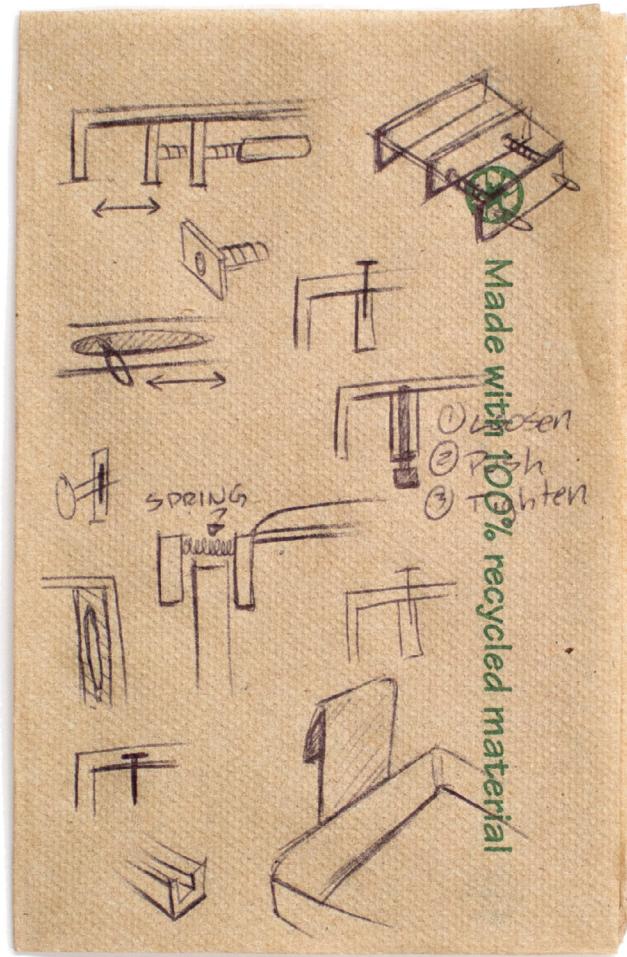
INSPIRATION

By adding a bit of color to the design philosophies of Dieter Rams, high quality design can be introduced into college dorm rooms.



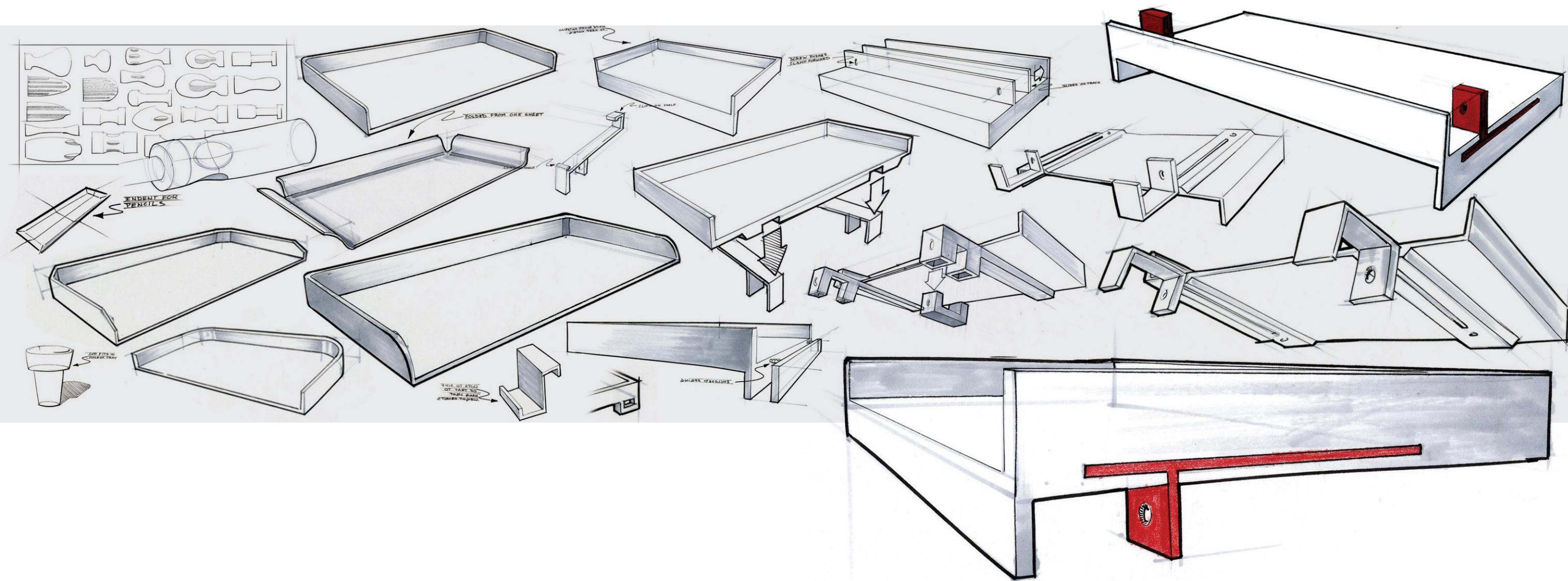
WHERE IT ALL BEGAN

During lunch one day in the school's dining hall, I had some ideas for the clamping mechanism.

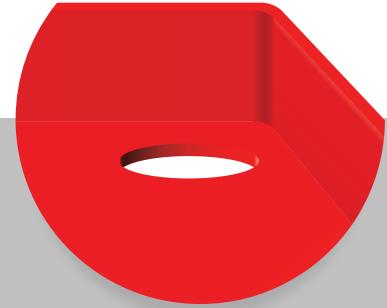


IDEATION

Starting with basic forms, I then continued to explore the engineering further. Different handle forms were also explored as well as special features.



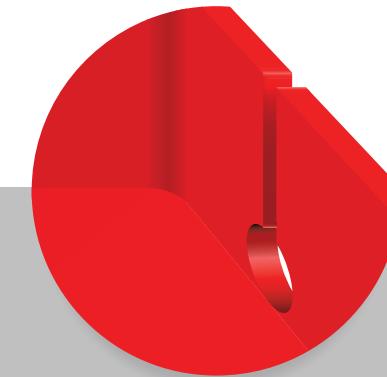
CONCEPT DEVELOPMENT



Version one provides **two cord holes** to accommodate both sides of the room.



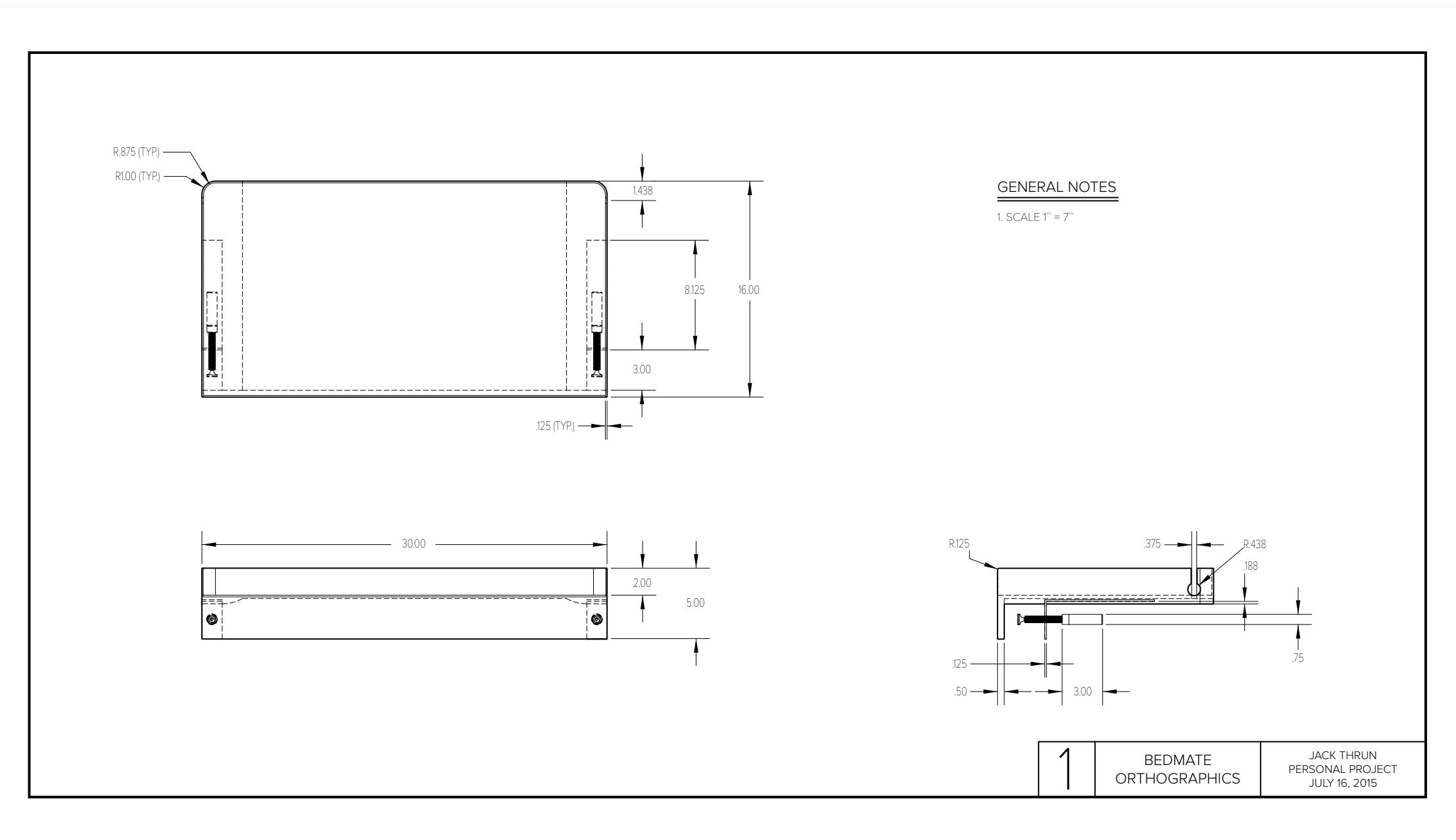
Version two simplifies the two cord holes into **one central hole**.



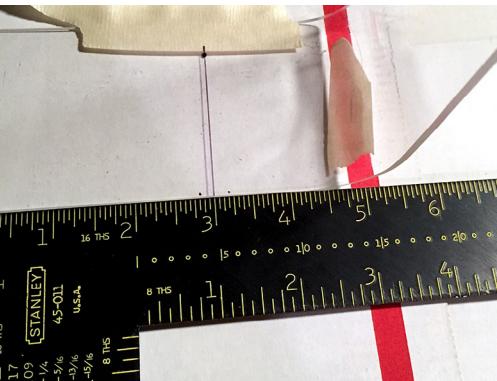
Version three places the cord holes on the lip to **avoid holes in the tray**.



ORTHOGRAPHIC



THE BUILD_001

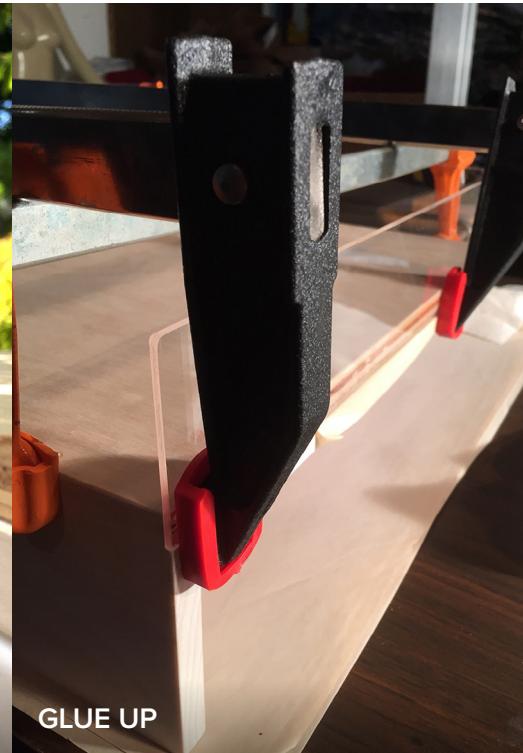


PREPPING MATERIAL

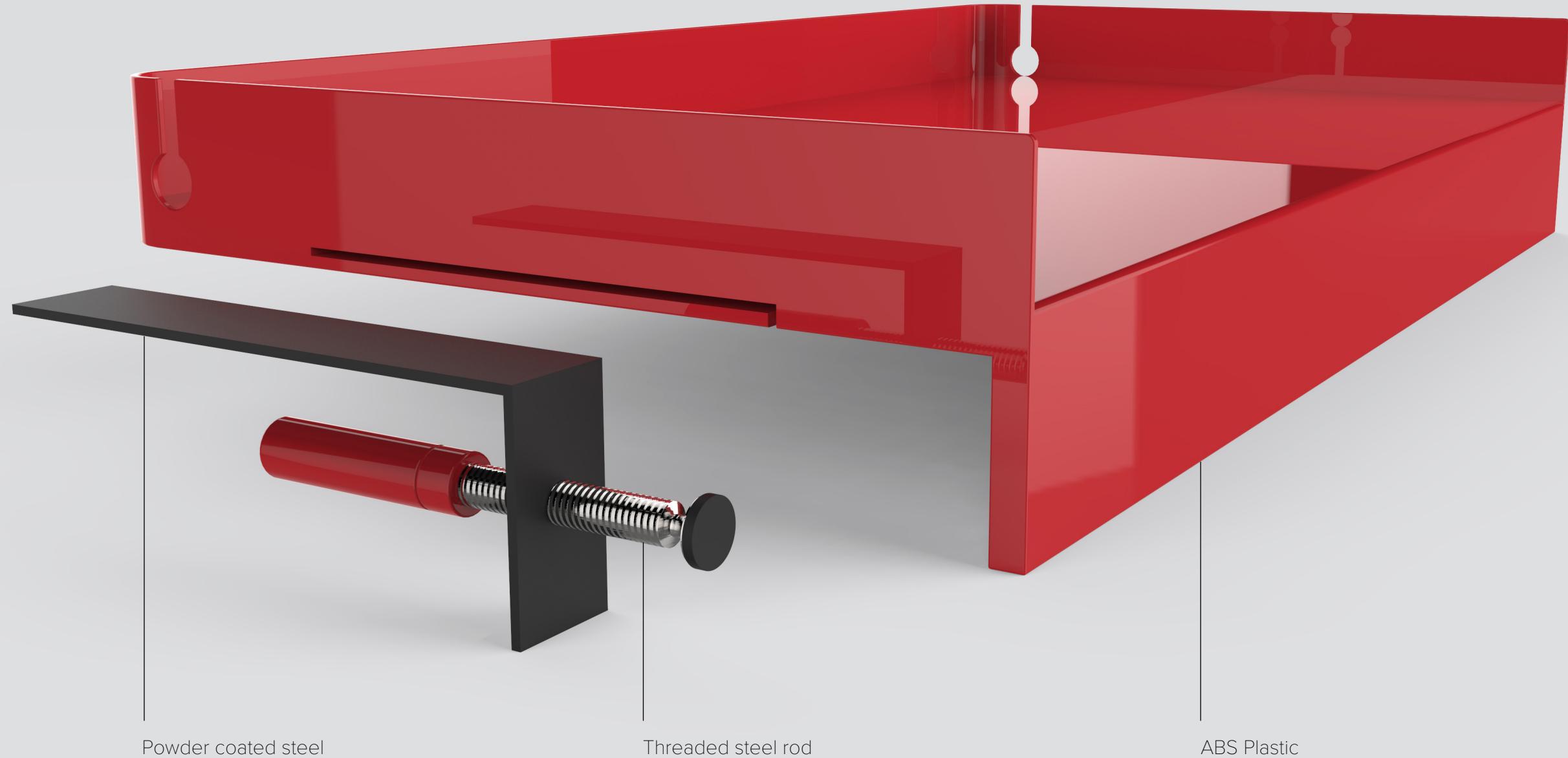
BENDING ACRYLIC

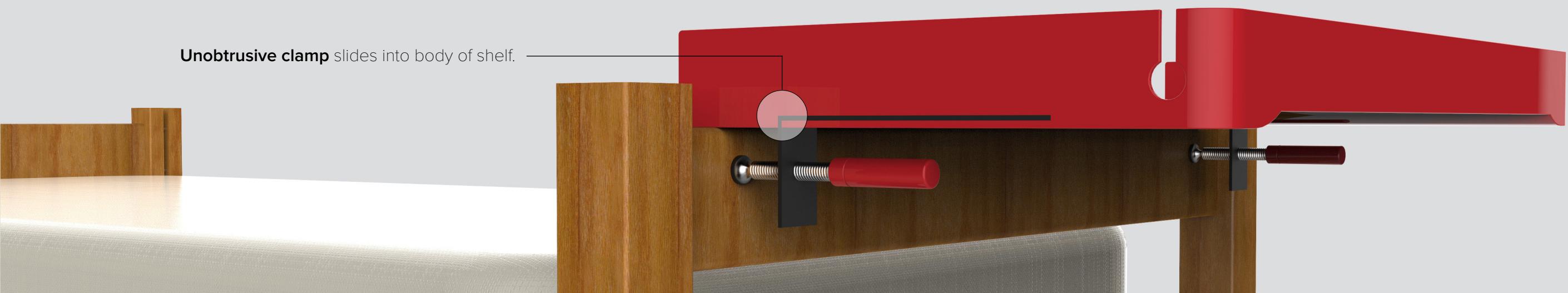
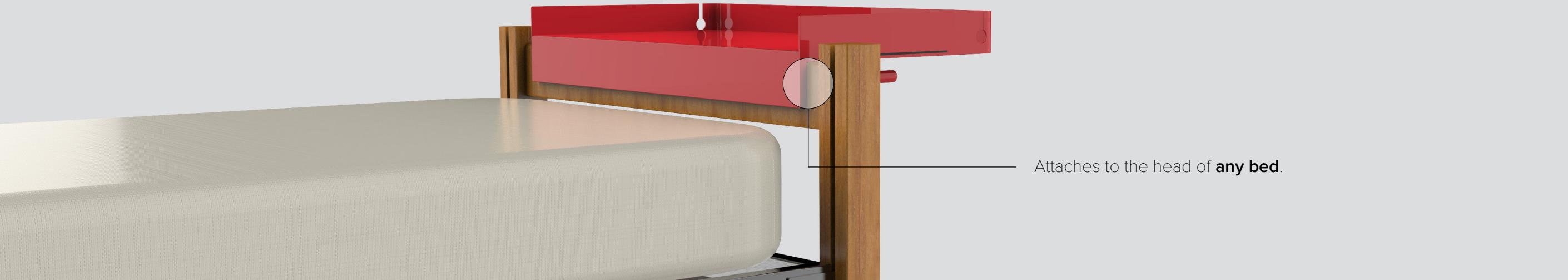
DRILLING ACRYLIC IS SCARY!

THE BUILD_002



MATERIALS









6:11

4 colors white

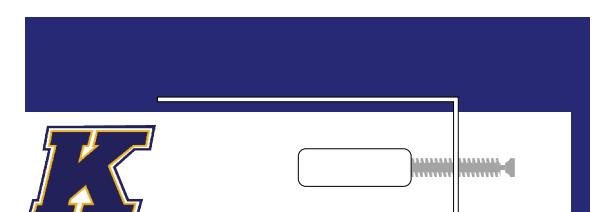
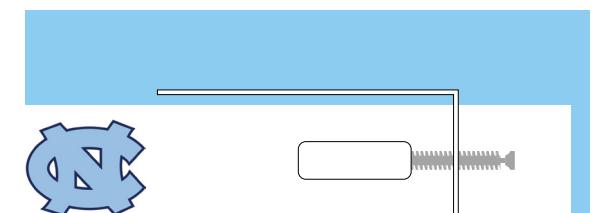
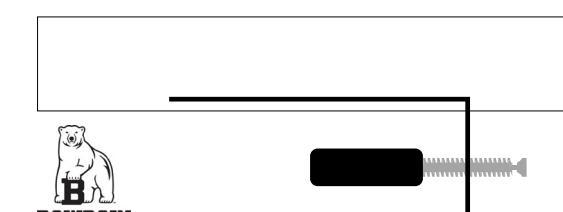
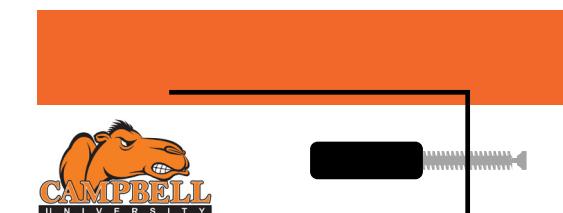
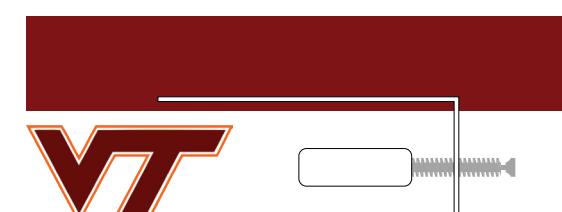
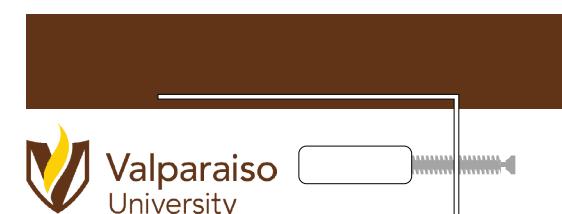
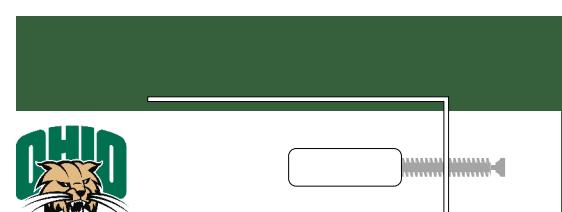
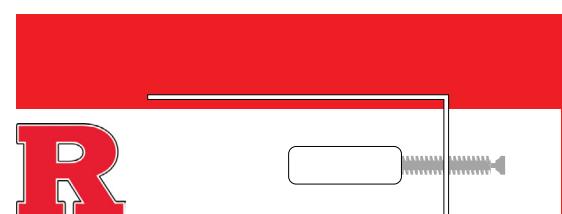
Emily

Jane

name

MAKE IT YOURS!

Whether it be personal style or school colors, the Bedmate has multiple options for customization. To simplify manufacturing and shipping processes, the brackets, acting as an accent color, are available in only white or black.



A timing diagram illustrating various digital signal waveforms. The signals are labeled below the horizontal axis:

- N: A single vertical pulse.
- O: A constant high level.
- S: A constant low level.
- T: A constant high level.
- R: A constant low level.
- I: A constant high level.
- N: A constant low level.
- G: A square wave alternating between high and low levels.
- S: A square wave alternating between high and low levels.
- A: A constant high level.
- T: A constant low level.
- T: A constant low level.
- A: A constant high level.
- C: A constant low level.
- H: A constant high level.
- E: A constant low level.
- D: A constant high level.

The red line highlights the G and S waveforms, indicating they are being compared or are of particular interest.

