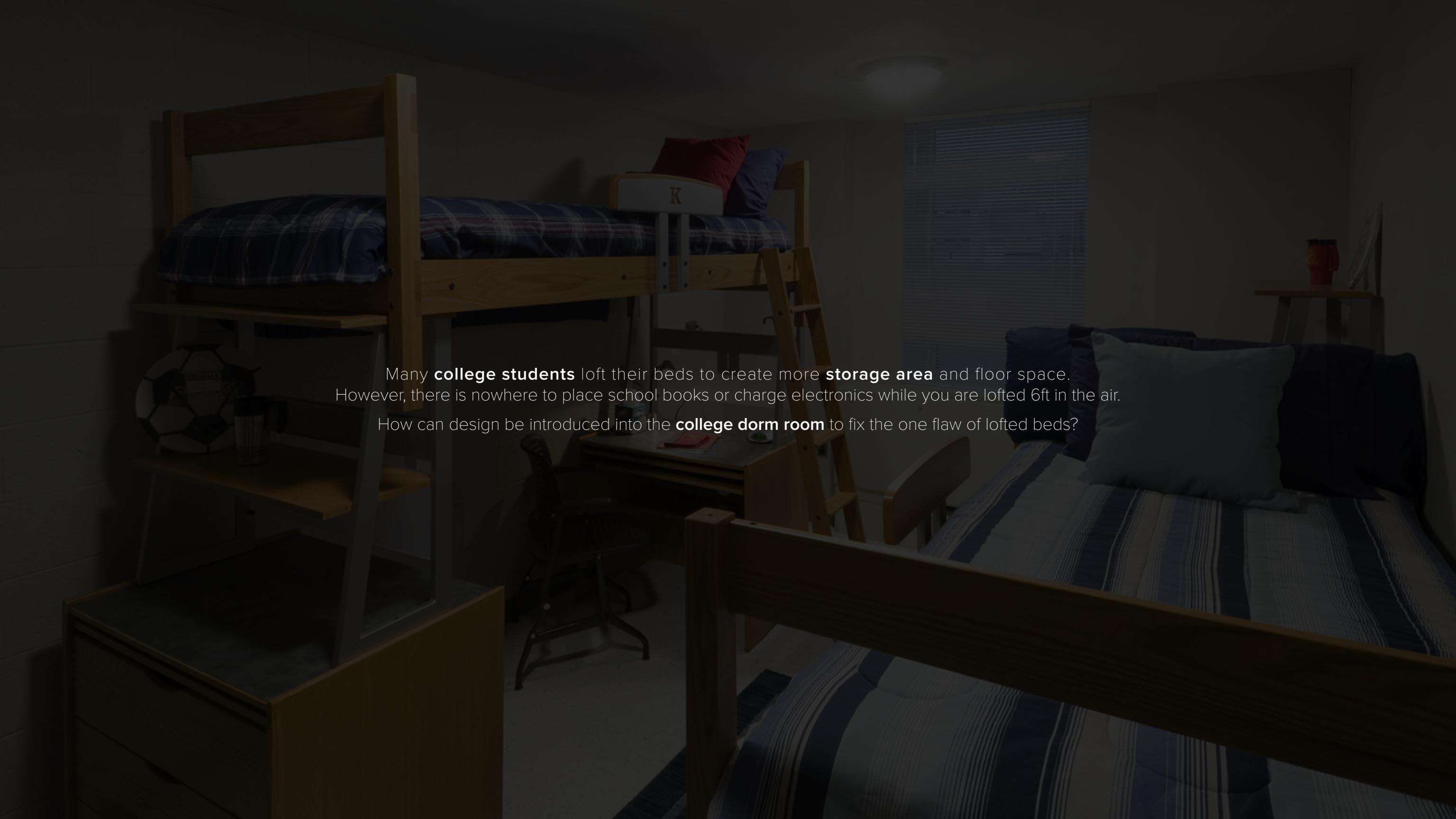


# **Bedmate**

lofted bed shelf for college dorm rooms





Many **college students** loft their beds to create more **storage area** and floor space. However, there is nowhere to place school books or charge electronics while you are lofted 6ft in the air. How can design be introduced into the **college dorm room** to fix the one flaw of lofted beds?

## WHAT THEY WANT

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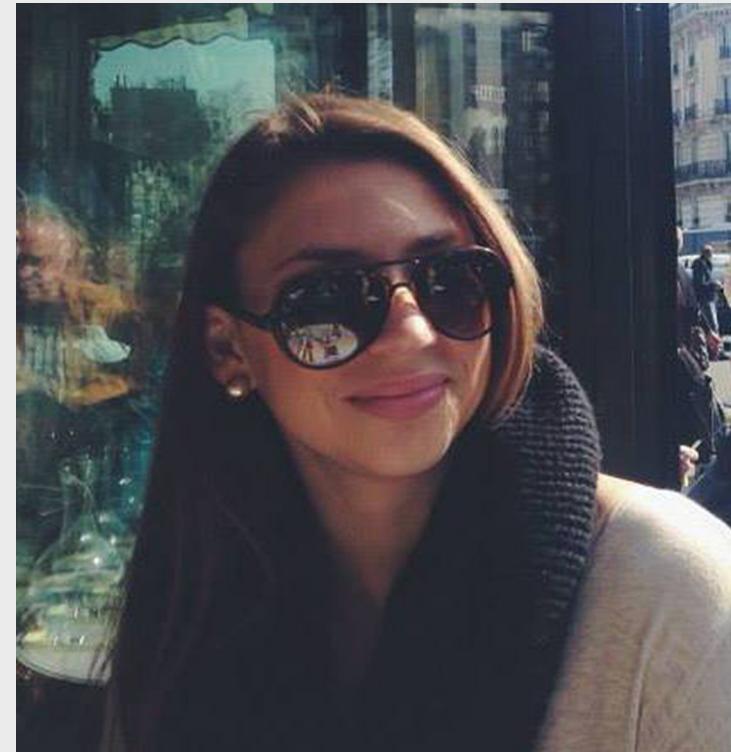
**CHRIS D.**  
RUTGERS UNIVERSITY

"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

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**flimsy**

little support holds limited weight



**crowded**

no room for laptop and books



**limiting**

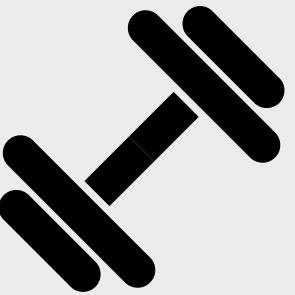
a simple hook does not fit a variety of beds

## DESIGN GOALS

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



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



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

## INSPIRATION

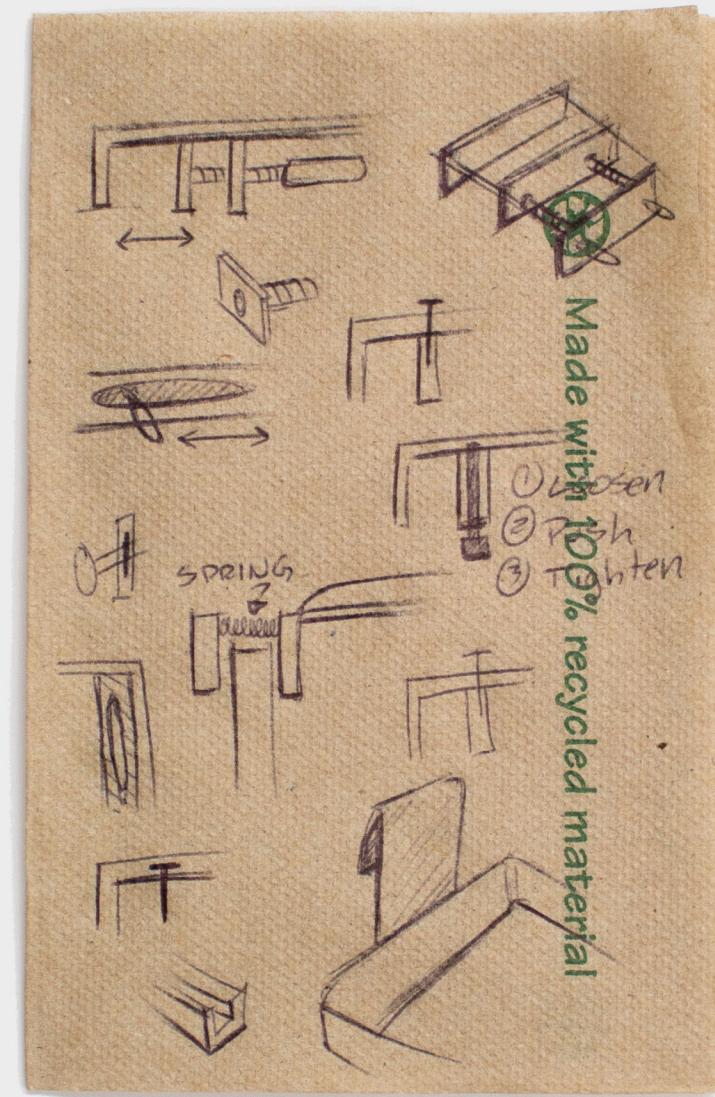
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By adding a bit of color to the design philosophies of Dieter Rams, high quality design can be introduced into college dorm rooms.



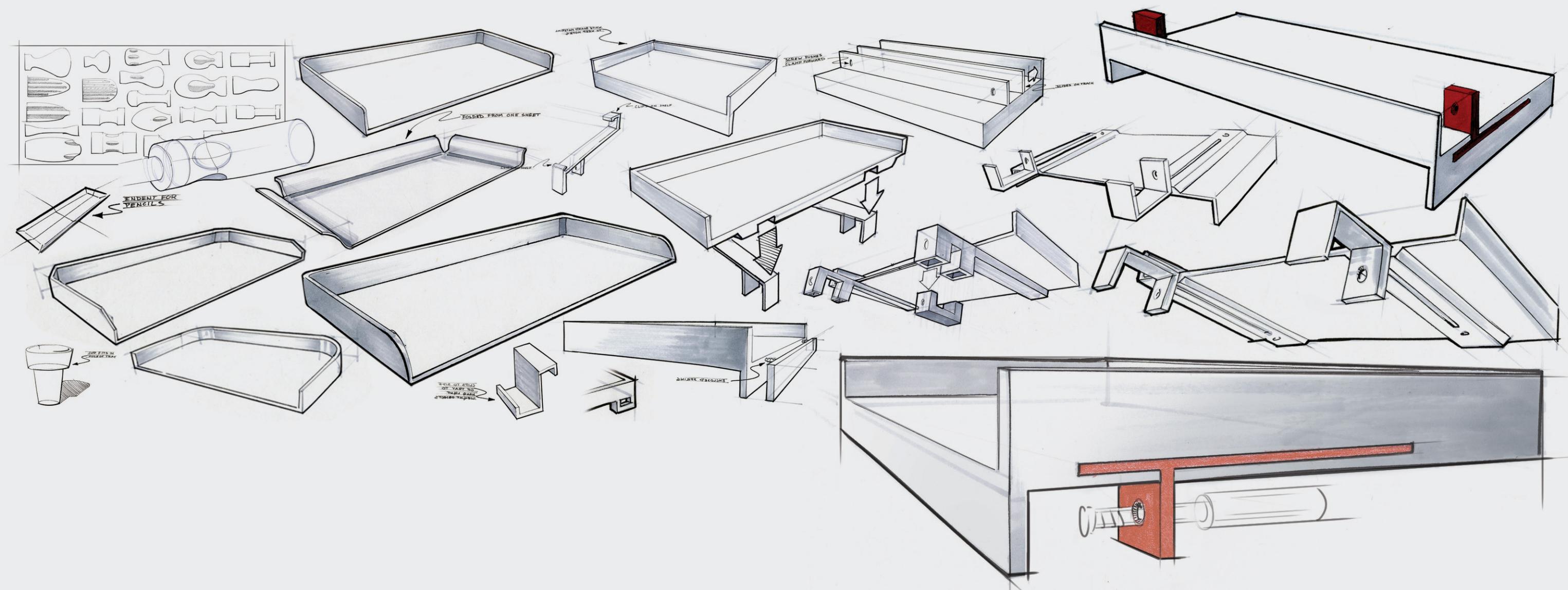
## WHERE IT ALL BEGAN

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



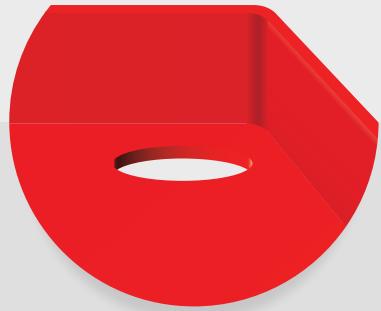
## IDEATION

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



## CORD MANAGEMENT

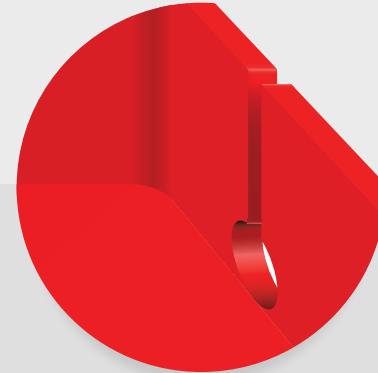
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Version one provides **two cord holes** to accommodate both sides of the room.



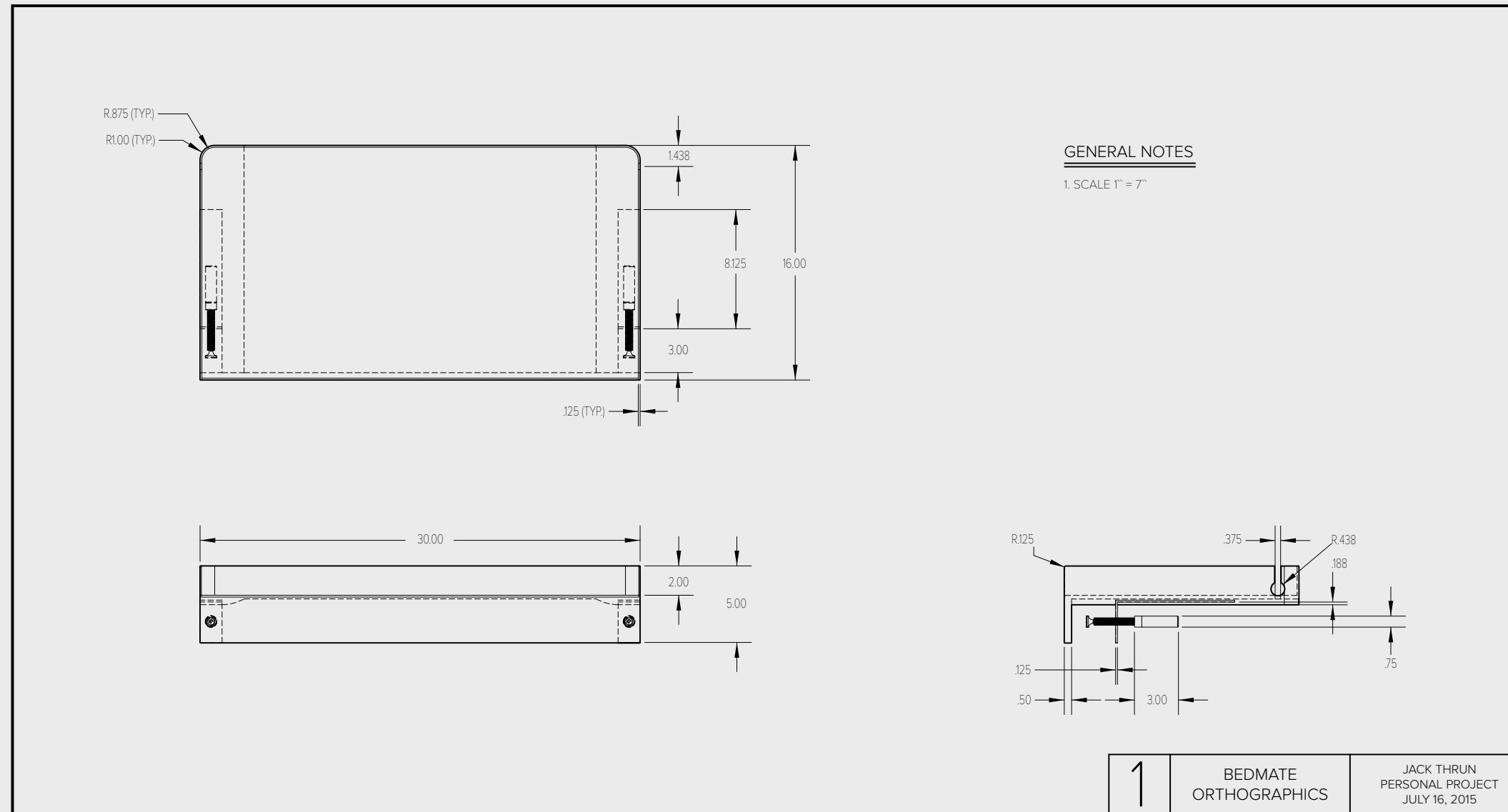
Version two simplifies the two cord holes into **one central hole**.



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

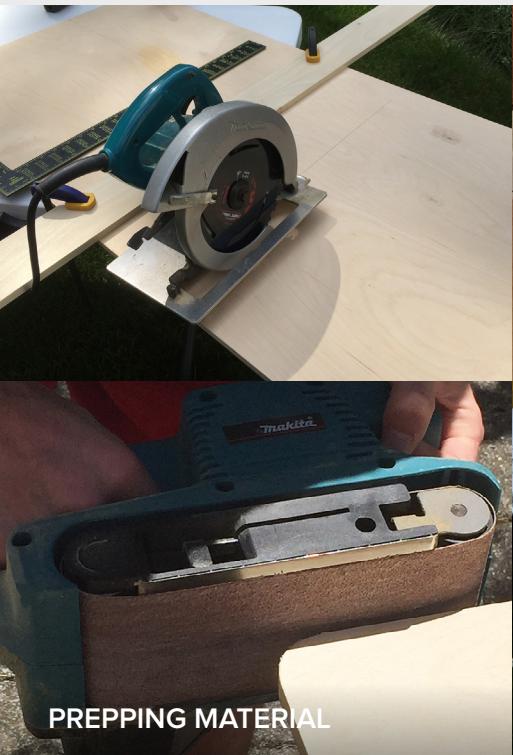


## TECHNICAL DRAWING



## THE BUILD\_001

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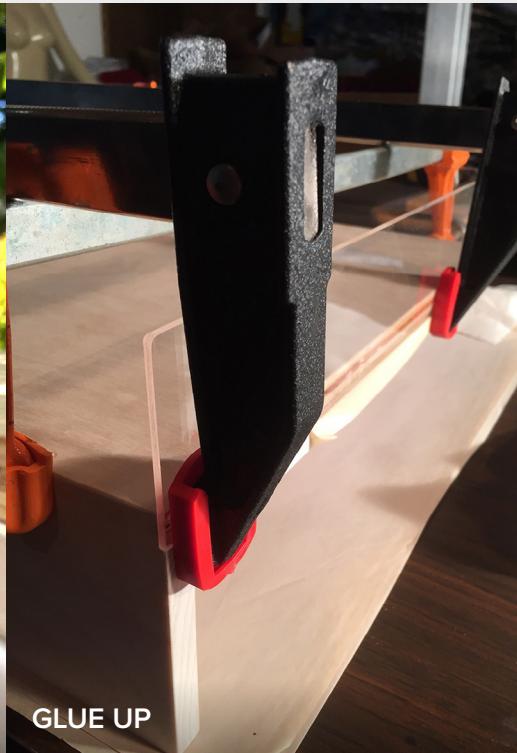
PREPPING MATERIAL

BENDING ACRYLIC

DRILLING ACRYLIC IS SCARY!

## THE BUILD\_002

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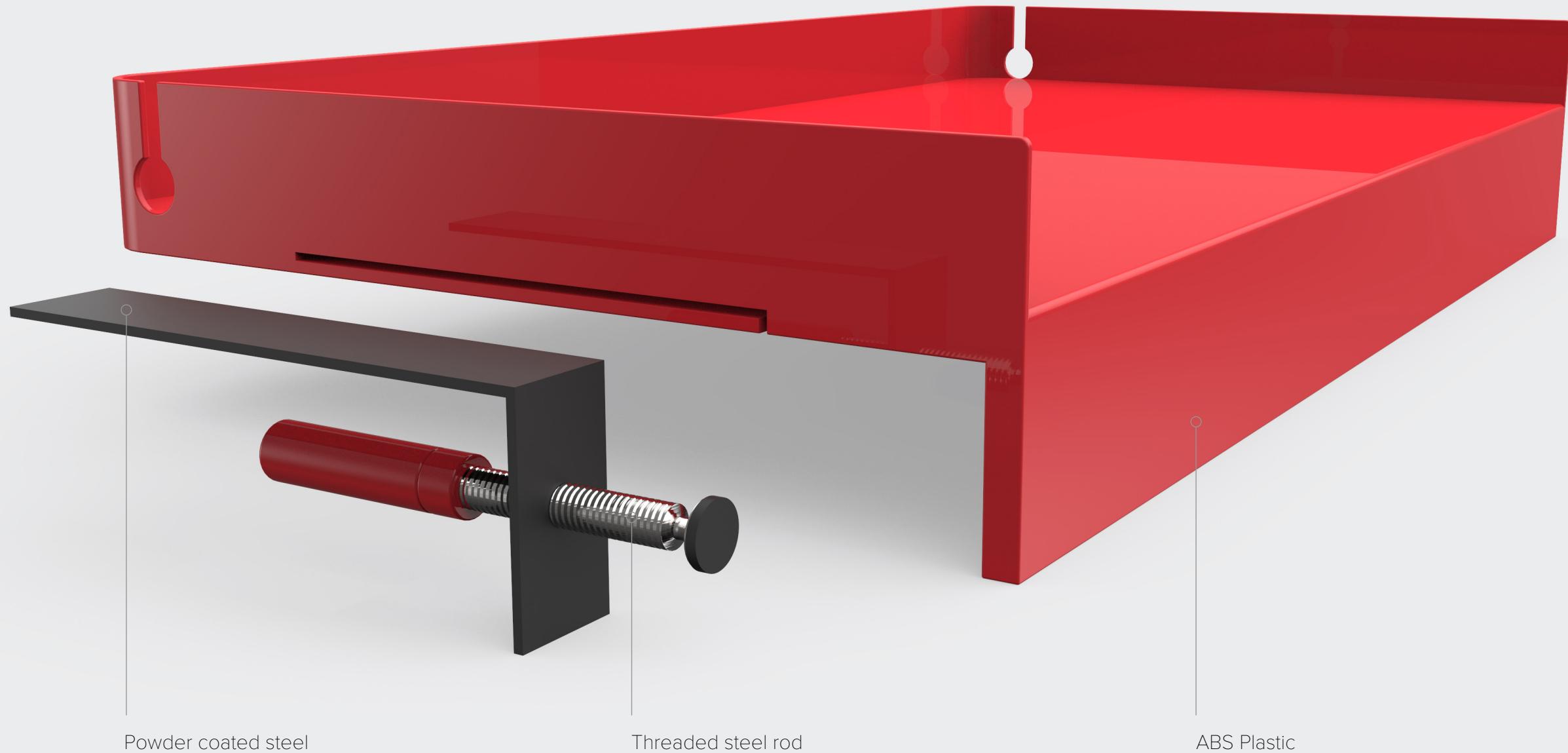






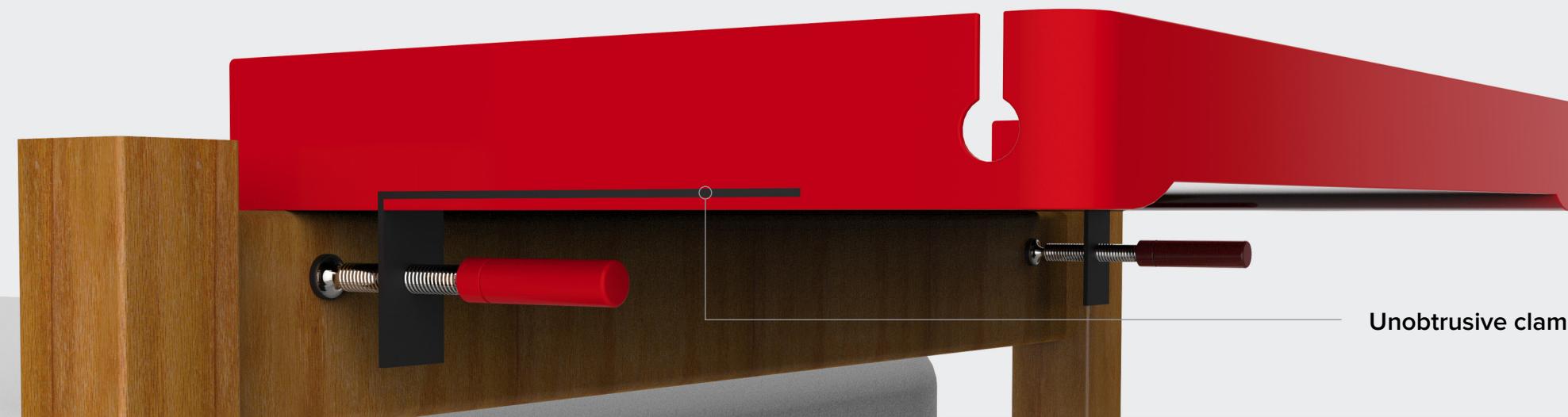
## MATERIALS

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Attaches to the **head of any bed**.



**Unobtrusive clamp** slides into body of shelf.



**Easy access cord slot** for electronic necessities.



NO STRINGS ATTACHED