Yellow Team Project Mockups Living and Working in Constrained Space

Yellow A

Movable Walls

Concept



- Modular room dividers
- Can split apartments, create temporary guest rooms, add extra closet space
- Do-it-yourself

Market

- Target customer: studio apartments in large cities like NYC, where sharing is common.
- Top six NYC companies control 95% of the market. No competition in other cities.

Source: B&D Marketing



Benchmarking

Pressurized Temporary Walls

Built on-site out of sheet rock and metal 2x4's.

- Main advantages
 - Look and feel very much like "real" walls
 - Very little damage to walls other than screw holes
- Main disadvantages
 - Expensive—\$1000
 - Require professional installation
 - Take 5 hours to install

Customer

- Market survey: 8 apartment dwellers in Boston and New York City
- Average of 3.75 people living in apartments designed for 2.25 people
- Need for privacy was mentioned often

Customer



0%

Yellow B

Preliminary Contract



Preliminary Contract

Customer Need	Privacy	Stability/Safety	Ease of Use
Product Attribute	Physical Partition	Strength	Modularity, Weight, Intuitive Setup
Engineering Specs	 Fits range of ceilings 8' to 10' Panels combine to fit any length room 	- Support a person's leaning weight, 80 lbs of horizontal force	 Parts must fit through door (32" x 82") All pieces under 20 lbs

 As few parts as possible

Privacy	
Physical Partition	
 Fits range of ceilings 8' to 10' 	5
- Panels combine to	

 Panels combine to fit any length room

- Modular design enables wall to fit a wide range of sizes
- Vertical fit
- Horizontal fit

Privacy

Physical Partition

Fits range of ceilings
 8' to 10'

- Panels combine to fit any length room

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8' 4"		
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- Posts are pressure fit between ceiling and floor
- Post must hold load but not damage ceiling
- From analysis, our target range to support load is 4-8 psi



- through door (32" x 82")
- All pieces under 20 lbs
- As few parts as possible

Modular design enables team of two people to set up 10 ft of wall in 2 hours

• Floor guides and plumb line to ensure straightness





 Careful selection of materials for aesthetic, weight, stability, and cost