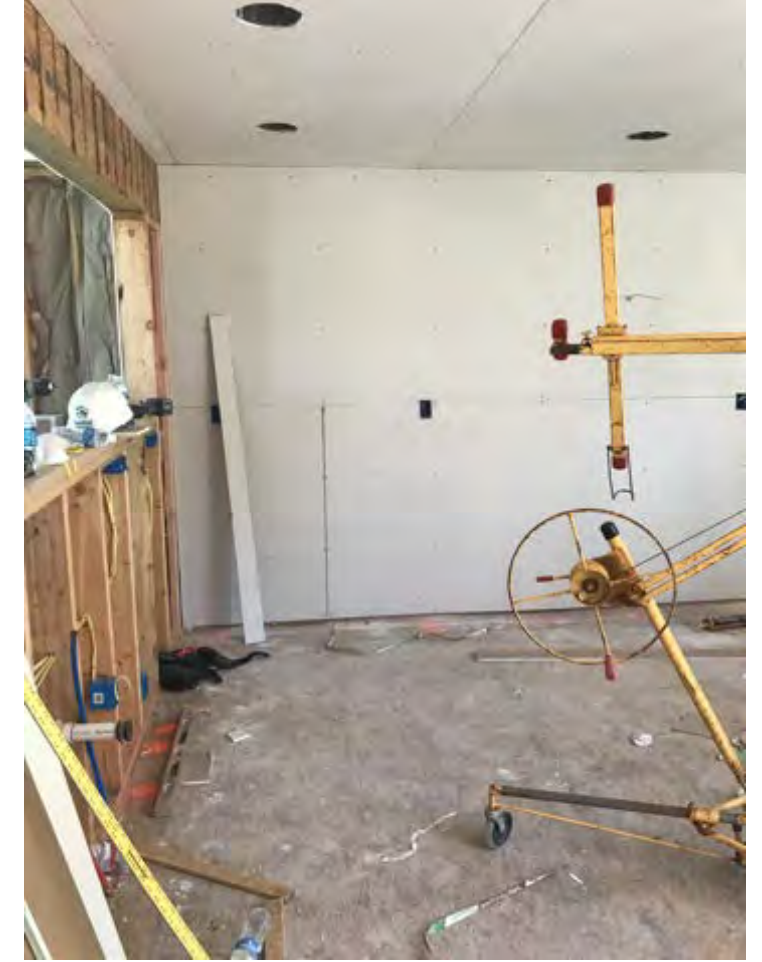
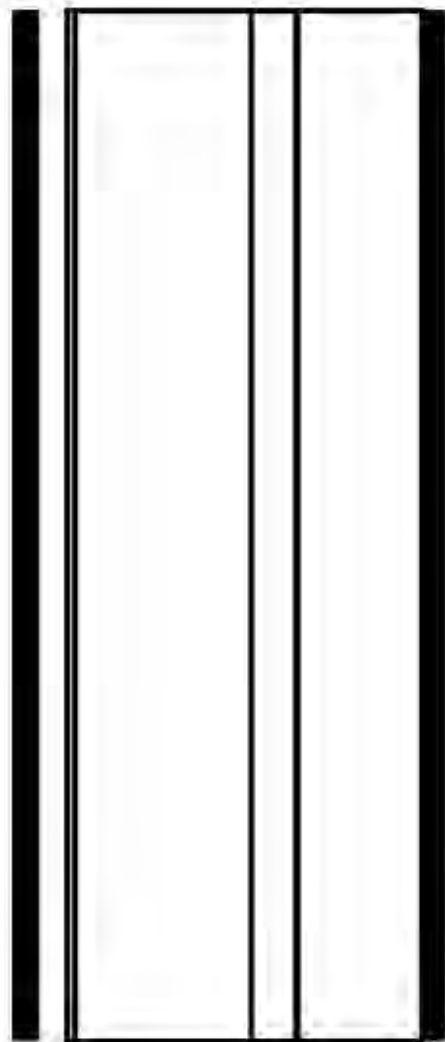


Traditional Wall





-

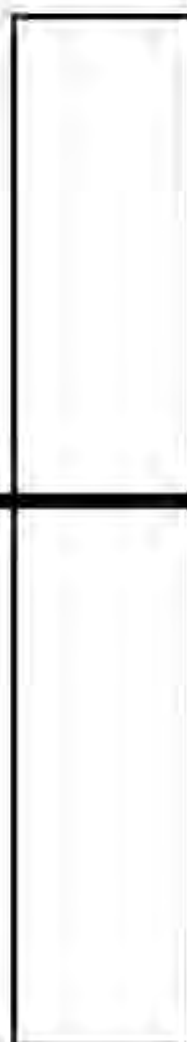
-

-

-



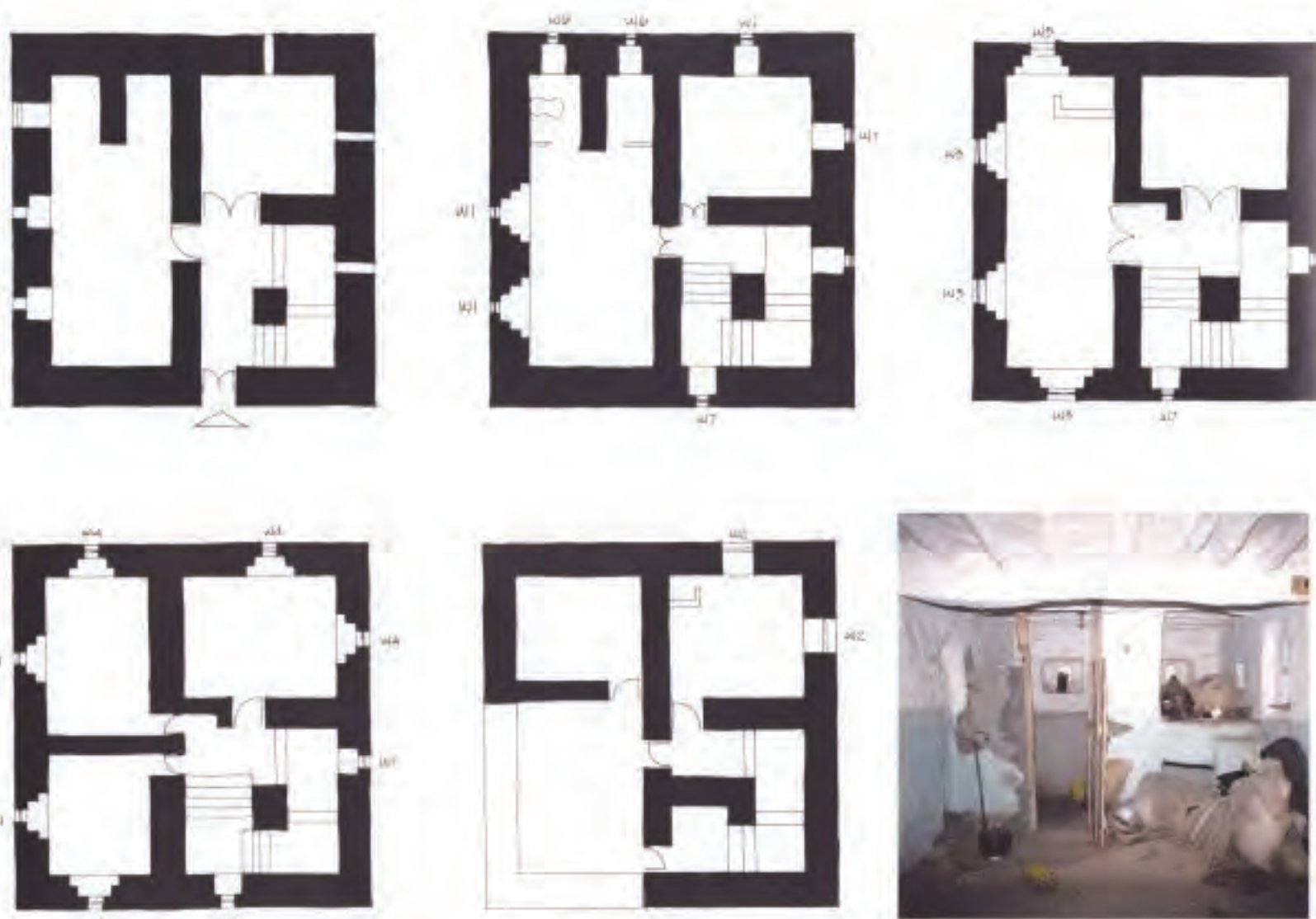
+



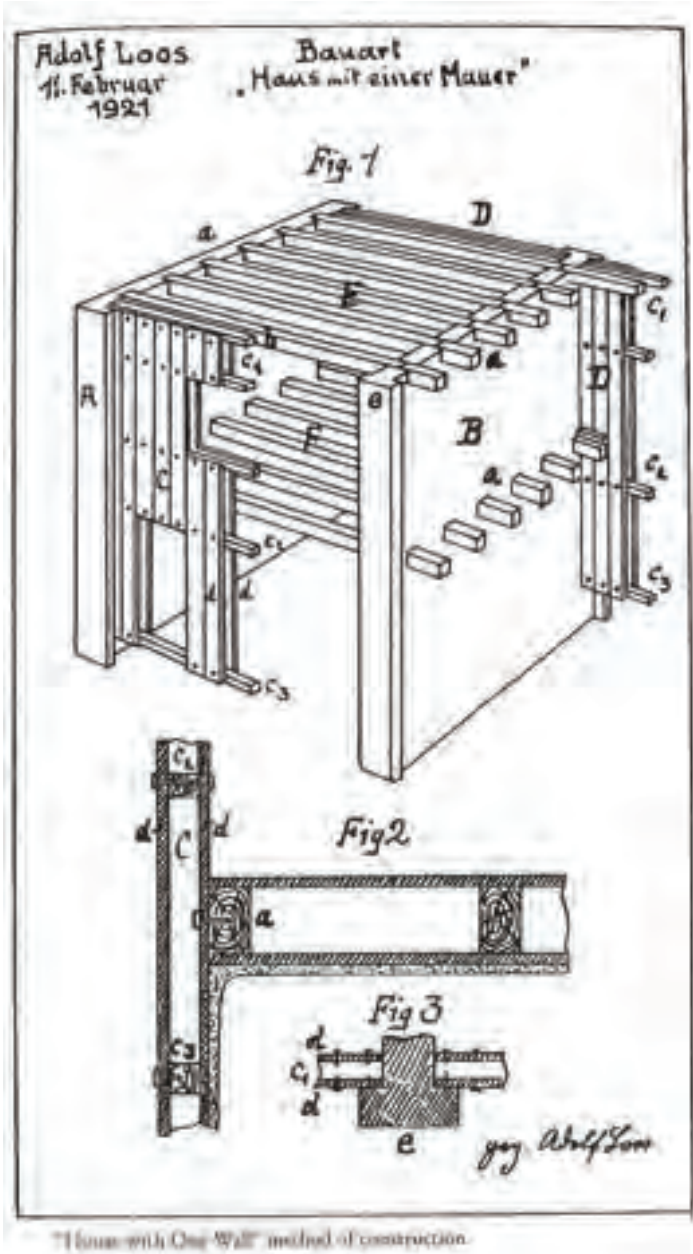
What is a Wall?

Noun or Verb

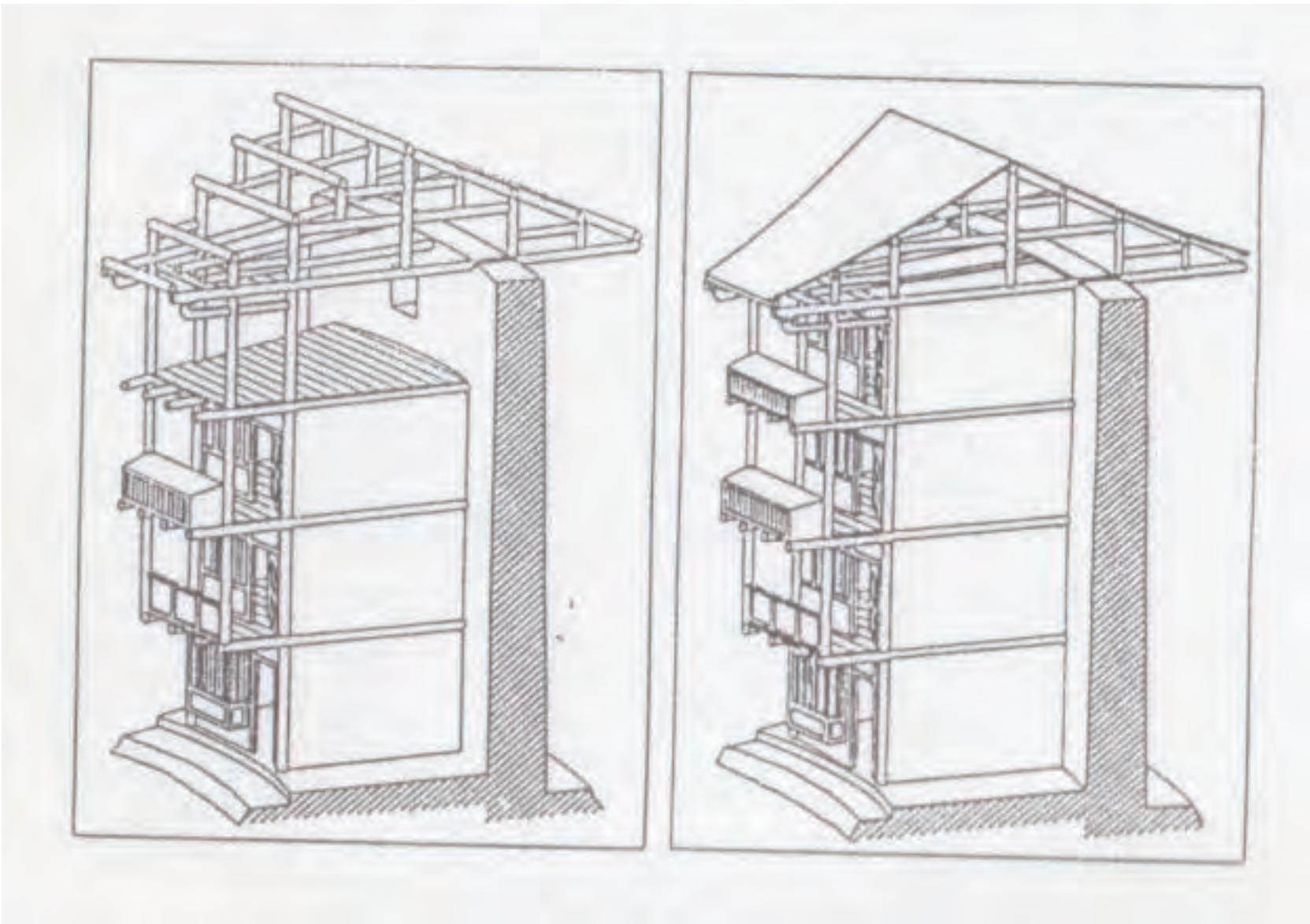
- Separator
- Divider
- Protection
- Structure
- Facade
- Privacy
- Restrictive
- Skin
- Surfaces



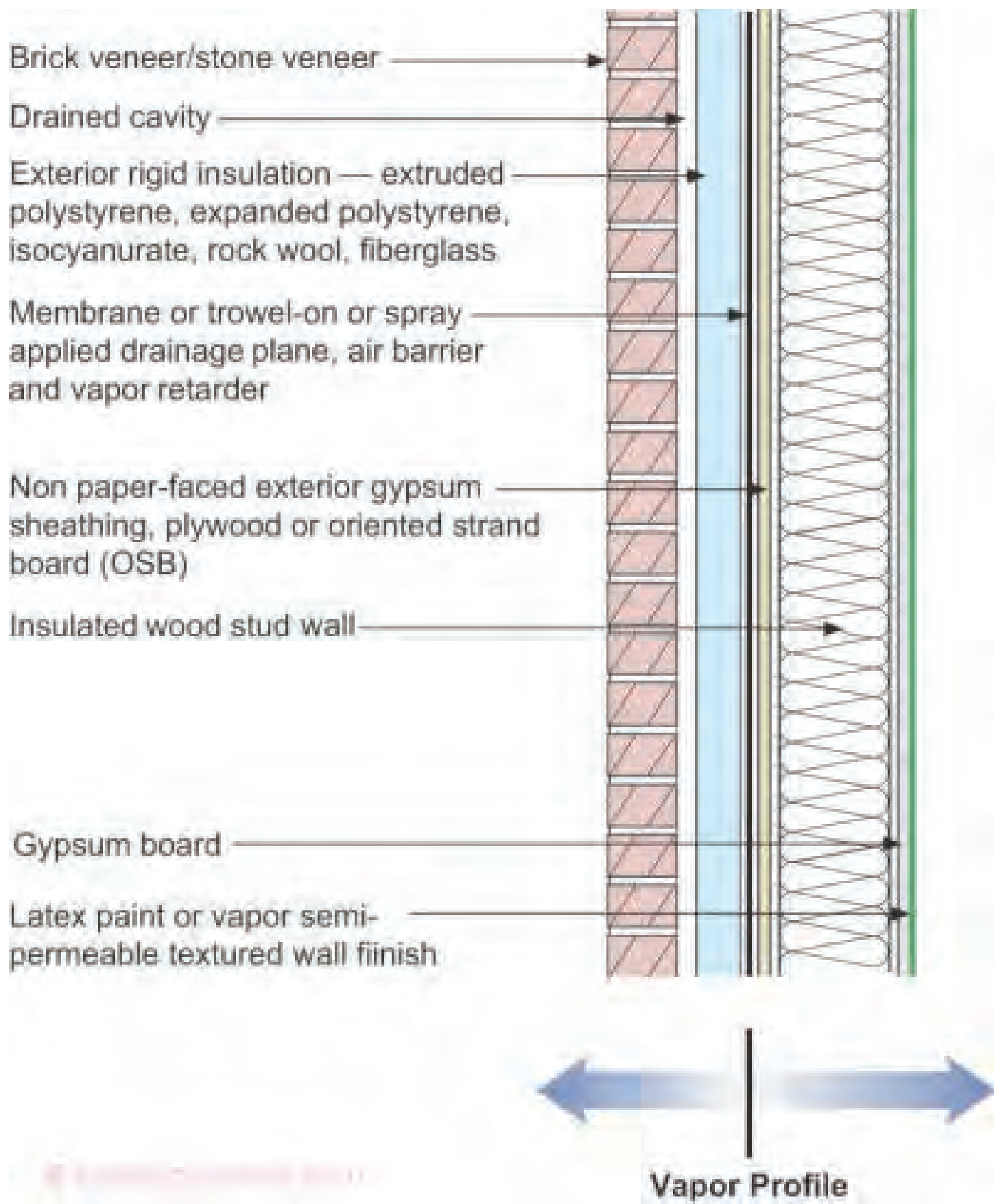
<https://misfitsarchitecture.com/2018/04/22/the-inflexible-house/>



<https://misfitsarchitecture.com/2014/01/23/the-one-wall-house/>



<https://misfitsarchitecture.com/2014/01/23/the-one-wall-house/>



https://www.buildingscience.com/sites/default/files/migrate/jpg/BSI-001_Figure_09_web.jpg

Thesis Statement

This project proposes examining the layers of a wall, separating them, and varying their anatomy to provide a more comfortable indoor environment. This project learns from and adapts traditional wall theory to modern stick-built construction, allowing for a dynamic use of interior space based on the occupants desired definition of comfort.

Comfort

- Sense
- Sight
- Taste
- Touch
- Pressure
- Itch
- Thermoception
- Sound
- Smell
- Proprioception (limbs in space)
- Tension Sensors
- Nociception (pain)
- Equilibrrioception (balance)
- Stretch Receptors
- Chemoreceptors
- Thirst
- Hunger
- Time

- Comfort in Buildings Translation
- Visual Connections, Transparency
- Texture, Materiality
- Site Location
- Touch, Texture, Materiality
- Temperature of Spaces
- Acoustics
- Spatial Connection, Ventilation

Ergonomics, Age-In-Place

- Air and Environment Quality
- Temperature, Humidity

Spaces for Each Activity and Time

- Buildings Application
- Location of stud walls and glass
- Selection of materials
- Wind and altitude of the site
- Selection of materials
- Envelope quality, HVAC systems
- Thickness and type of materials
- Openings, pressure differences

Easy movement, no stairs, finishes

- Ventilation, sensors, pollutants
- Design qualities of a space

Distinct spaces

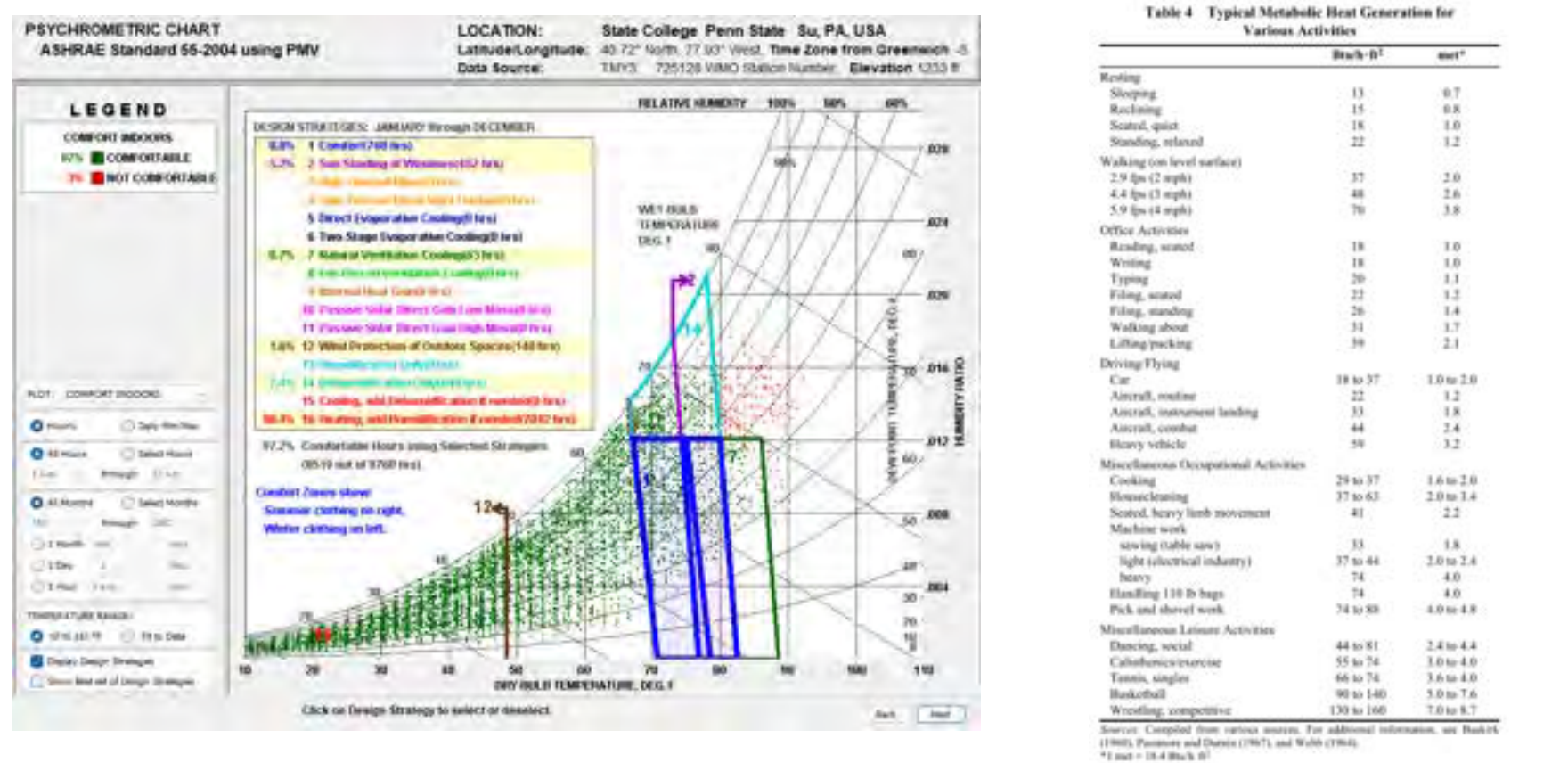
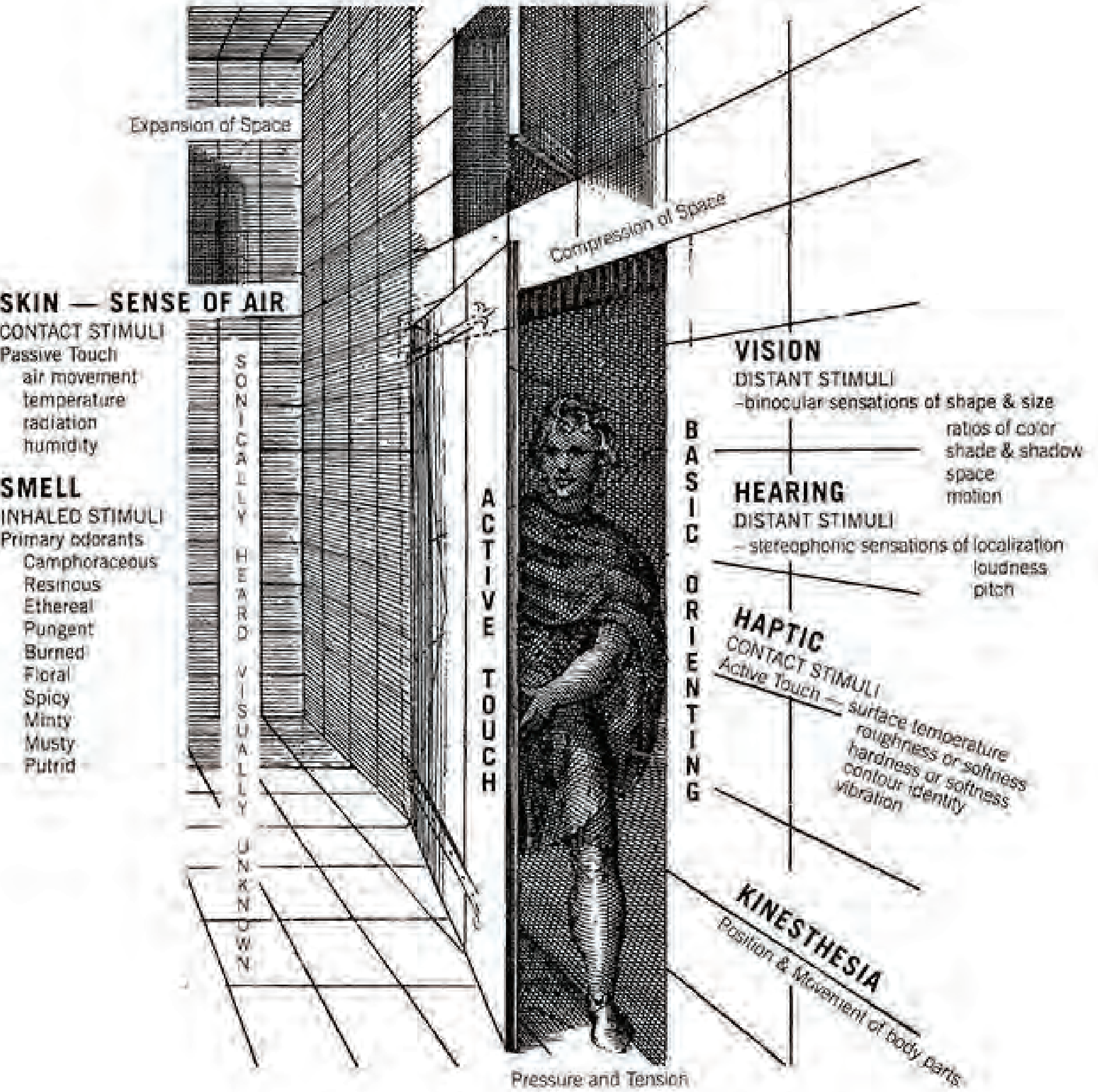


Table 9 Garment Insulation Values					
Garment Description ^a	<i>I</i> _{clo,p} ^b	Garment Description ^a	<i>I</i> _{clo,p} ^b	Garment Description ^a	<i>I</i> _{clo,p} ^b
Underwear		Long-sleeved, flannel shirt	0.34	Long-sleeved (thin)	0.25
Men's briefs	0.04	Short-sleeved, knit sport shirt	0.17	Long-sleeved (thick)	0.36
Panties	0.03	Long-sleeved, sweat shirt	0.34	Dresses and Skirts^c	
Bra	0.01	Trousers and Coveralls		Skirt (thin)	0.14
T-shirt	0.08	Short shorts	0.06	Skirt (thick)	0.23
Full slip	0.16	Walking shorts	0.08	Long-sleeved shirtdress (thin)	0.33
Half slip	0.14	Straight trousers (thin)	0.15	Long-sleeved shirtdress (thick)	0.47
Long underwear top	0.20	Straight trousers (thick)	0.24	Short-sleeved shirtdress (thin)	0.29
Long underwear bottoms	0.15	Sweatpants	0.28	Sleeveless, scoop neck (thin)	0.23
Footwear		Overalls	0.30	Sleeveless, scoop neck (thick)	0.27
Ankle-length athletic socks	0.02	Coveralls	0.49	Sleepwear and Robes	
Calf-length socks	0.03	Suit Jackets and Vests (Lined)		Sleeveless, short gown (thin)	0.18
Knee socks (thick)	0.06	Single-breasted (thin)	0.36	Sleeveless, long gown (thin)	0.20
Panty hose	0.02	Single-breasted (thick)	0.44	Short-sleeved hospital gown	0.31
Sandals/thongs	0.02	Double-breasted (thin)	0.42	Long-sleeved, long gown (thick)	0.46
Slippers (quilted, pile-lined)	0.03	Double-breasted (thick)	0.48	Long-sleeved pajamas (thick)	0.57
Boots	0.10	Sleeveless vest (thin)	0.10	Short-sleeved pajamas (thin)	0.42
Shirts and Blouses		Sleeveless vest (thick)	0.17	Long-sleeved, long wrap robe (thick)	0.69
Sleeveless, scoop-neck blouse	0.12	Sweaters		Long-sleeved, short wrap robe (thick)	0.48
Short-sleeved, dress shirt	0.19	Sleeveless vest (thin)	0.13	Short-sleeved, short robe (thin)	0.34
Long-sleeved, dress shirt	0.25	Sleeveless vest (thick)	0.22		

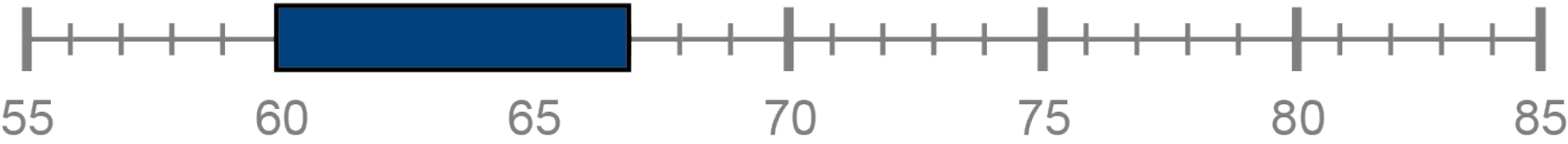
^aThin garments are summerweight; "thick" garments are winterweight. ^b1 clo = 0.81 ft² · h/Btu. ^cKnee-length

^a"Thin" garments are summerweight; "thick" garments are winterweight. ^b1 clo = 0.88 °F · ft² · h/Btu ^cKnee-length

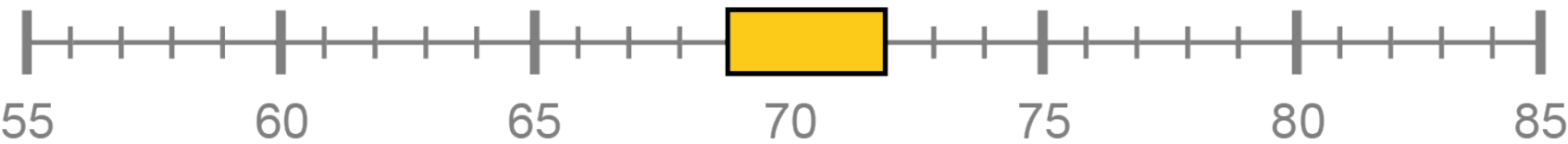


<https://www.cooperhewitt.org/2018/04/03/why-sensory-design/>

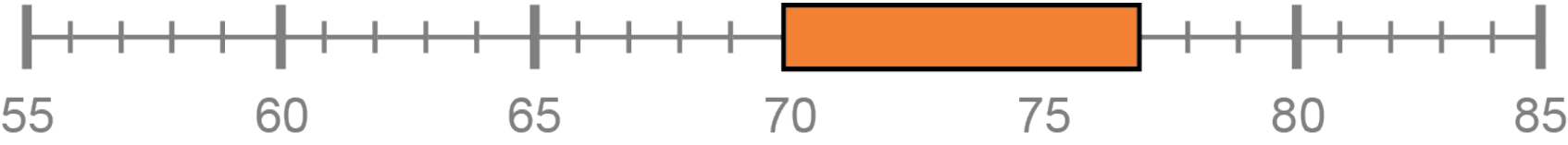
Sleep



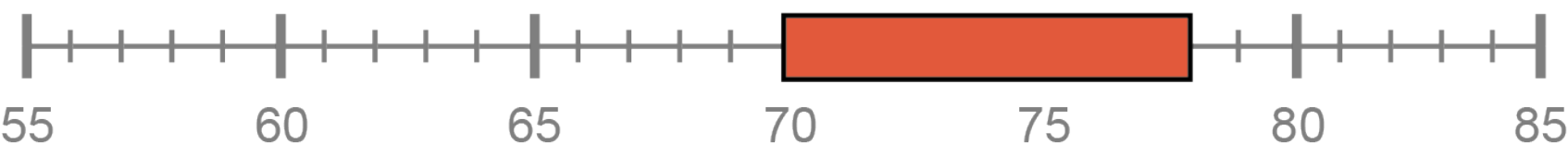
Eat



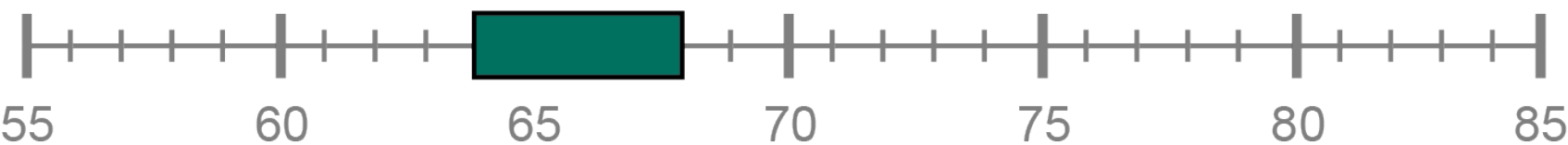
Work



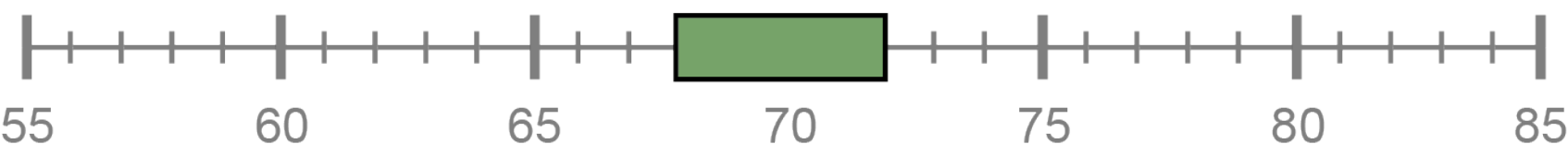
Sit



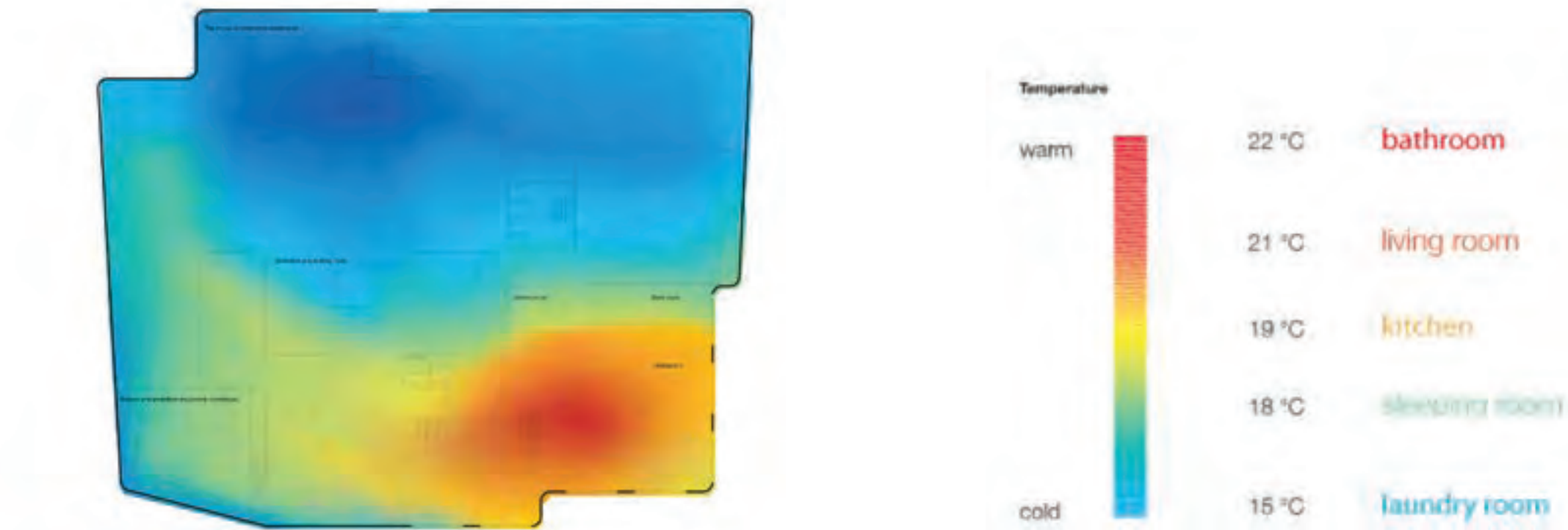
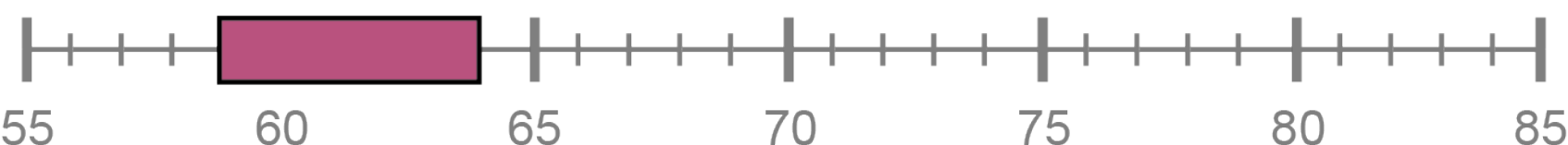
Cook



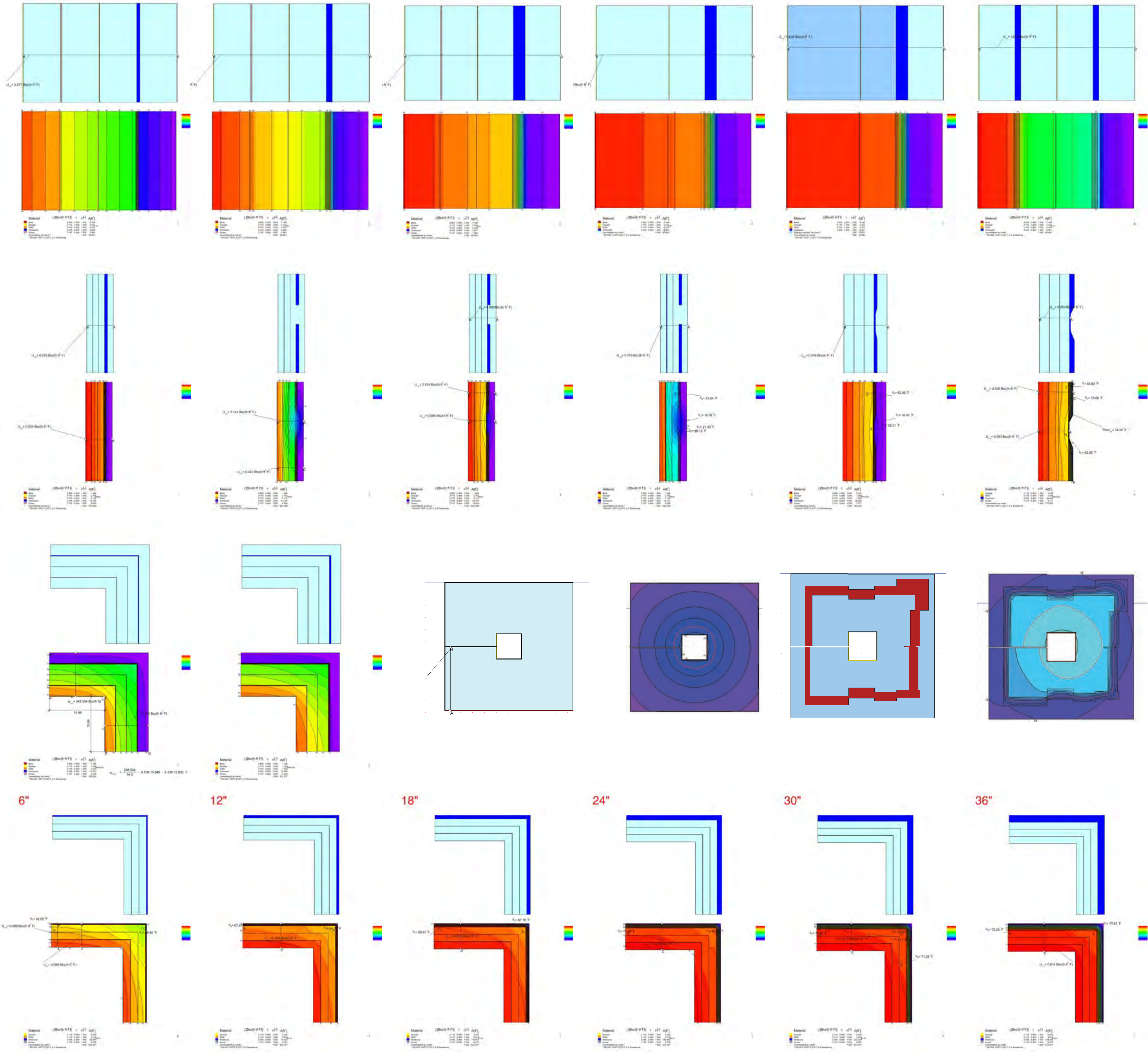
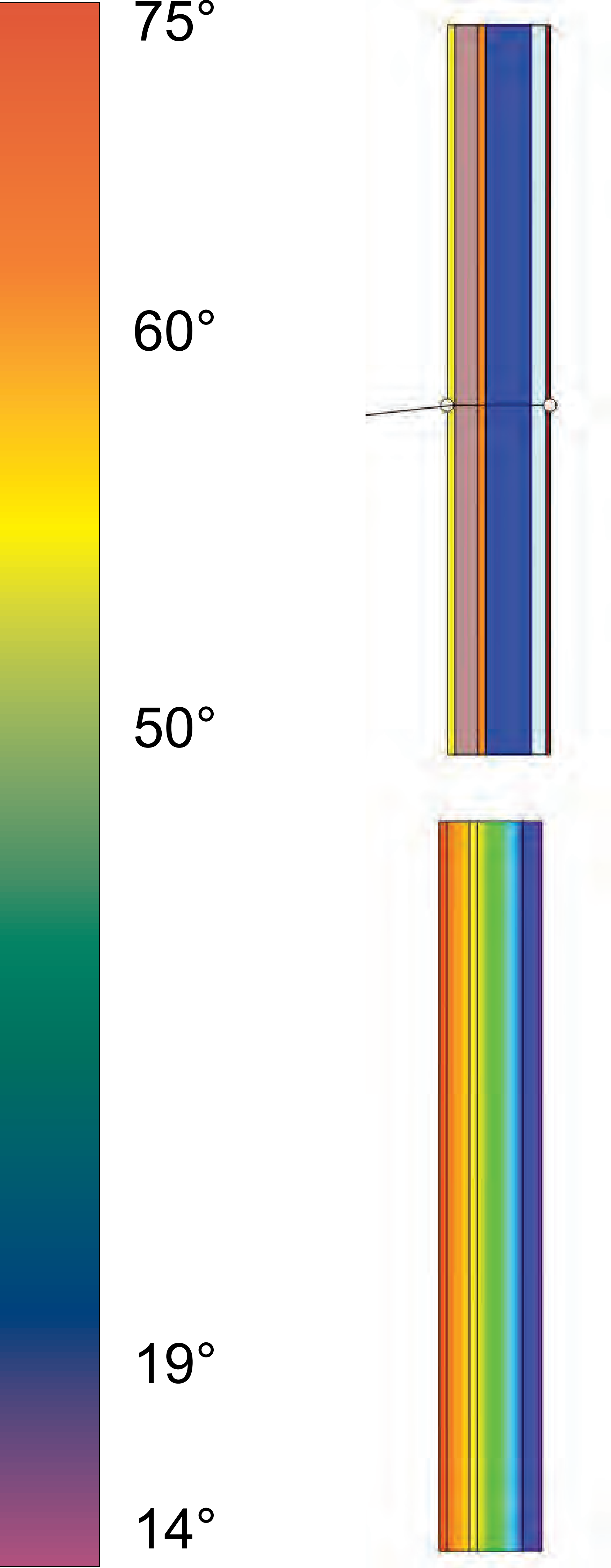
Exercise



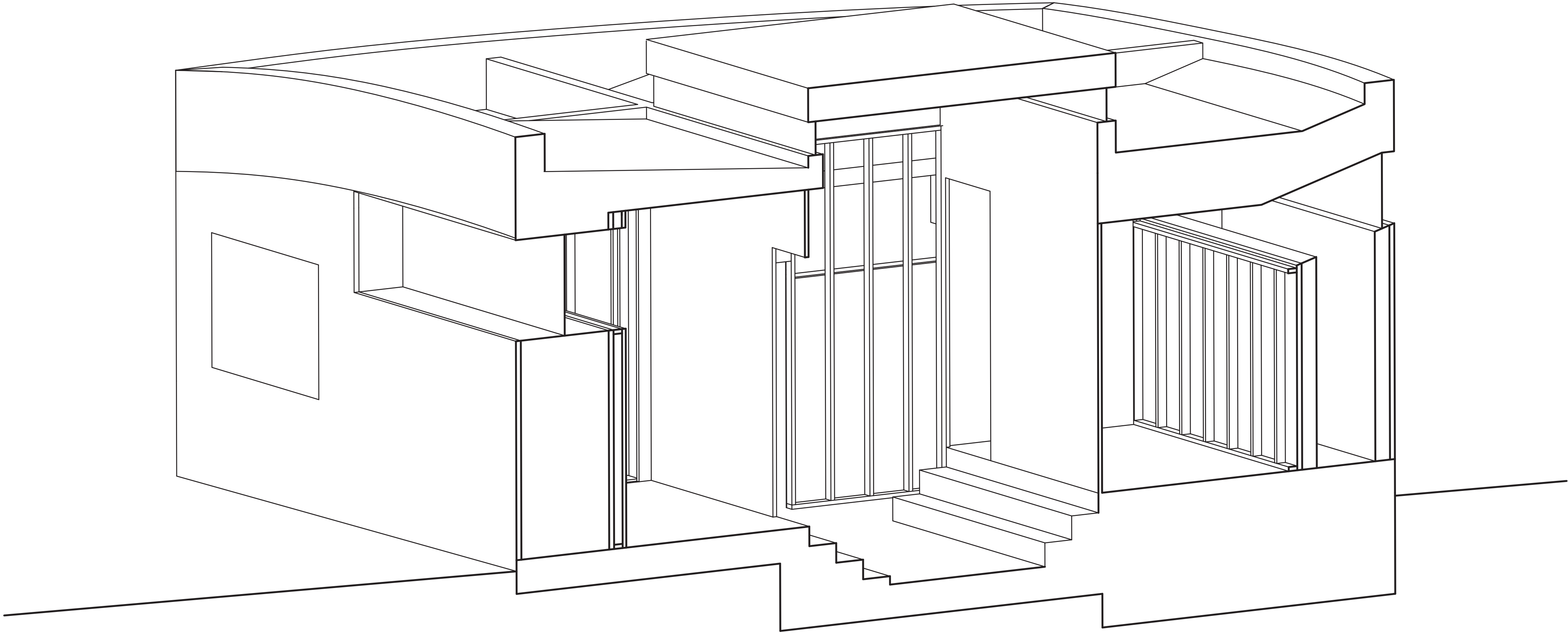
Transition



Flixo Thermal Transmittance Modeling



N/S Sectional Perspective



E/W Sectional Perspective

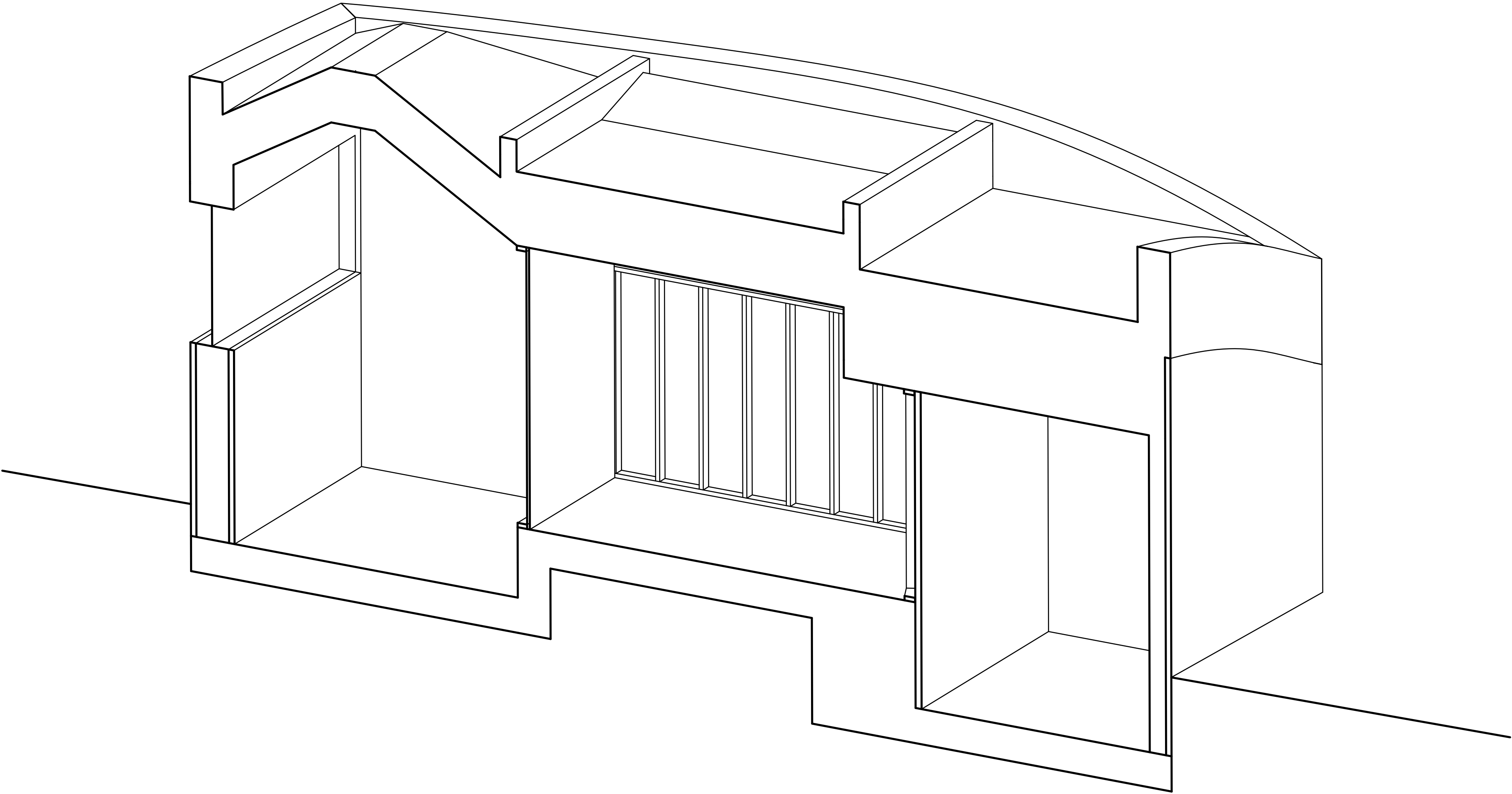
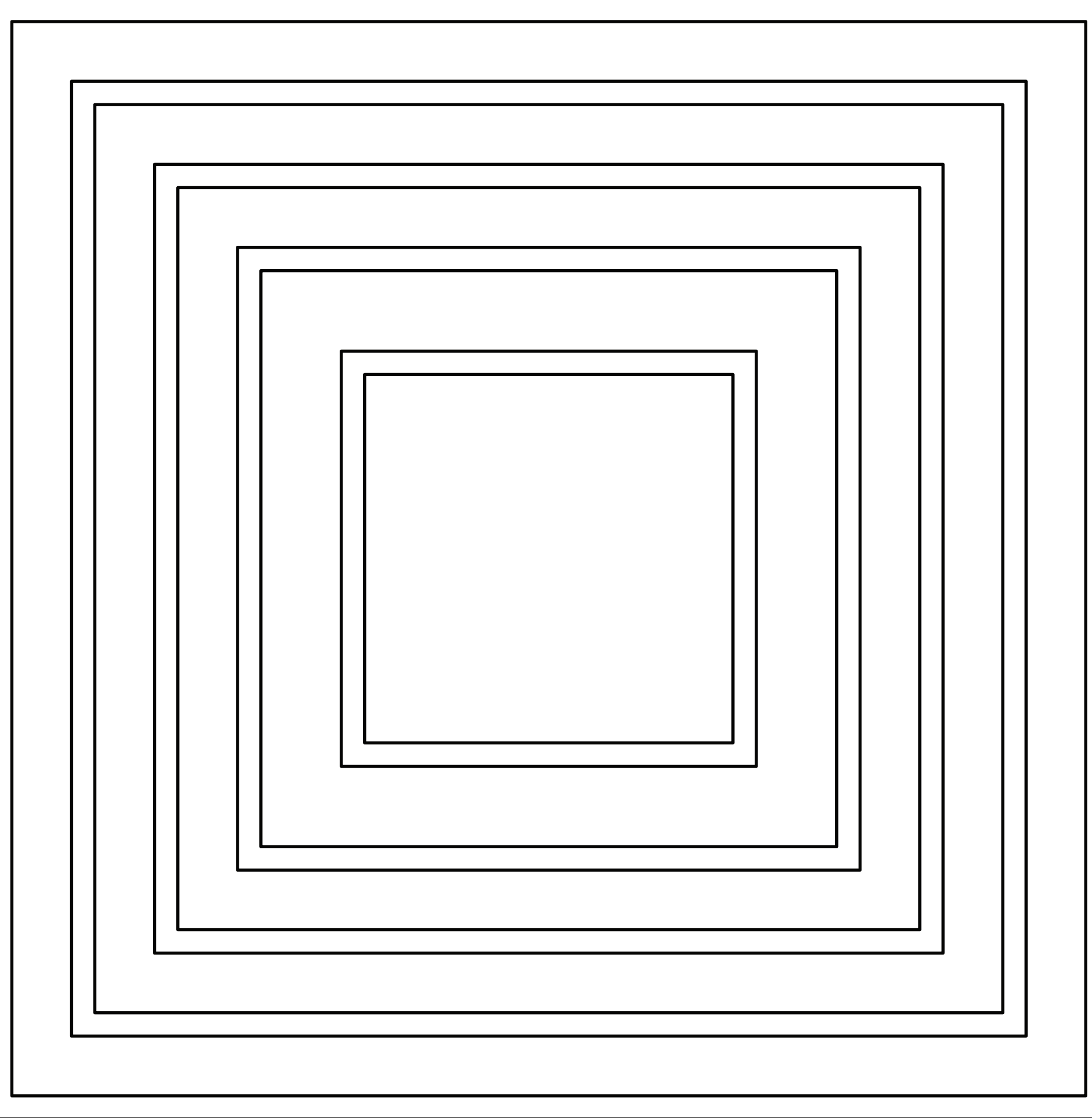
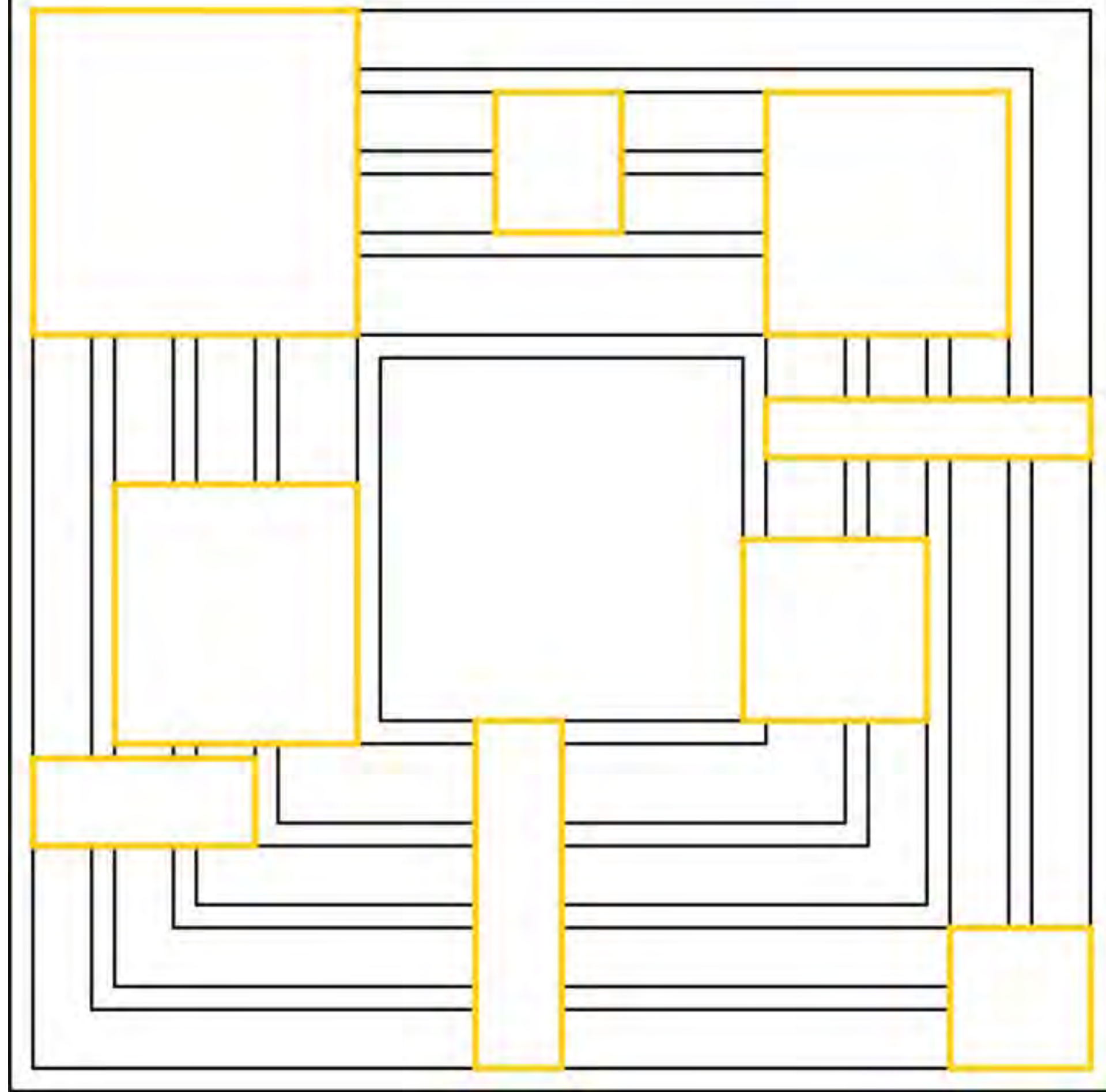


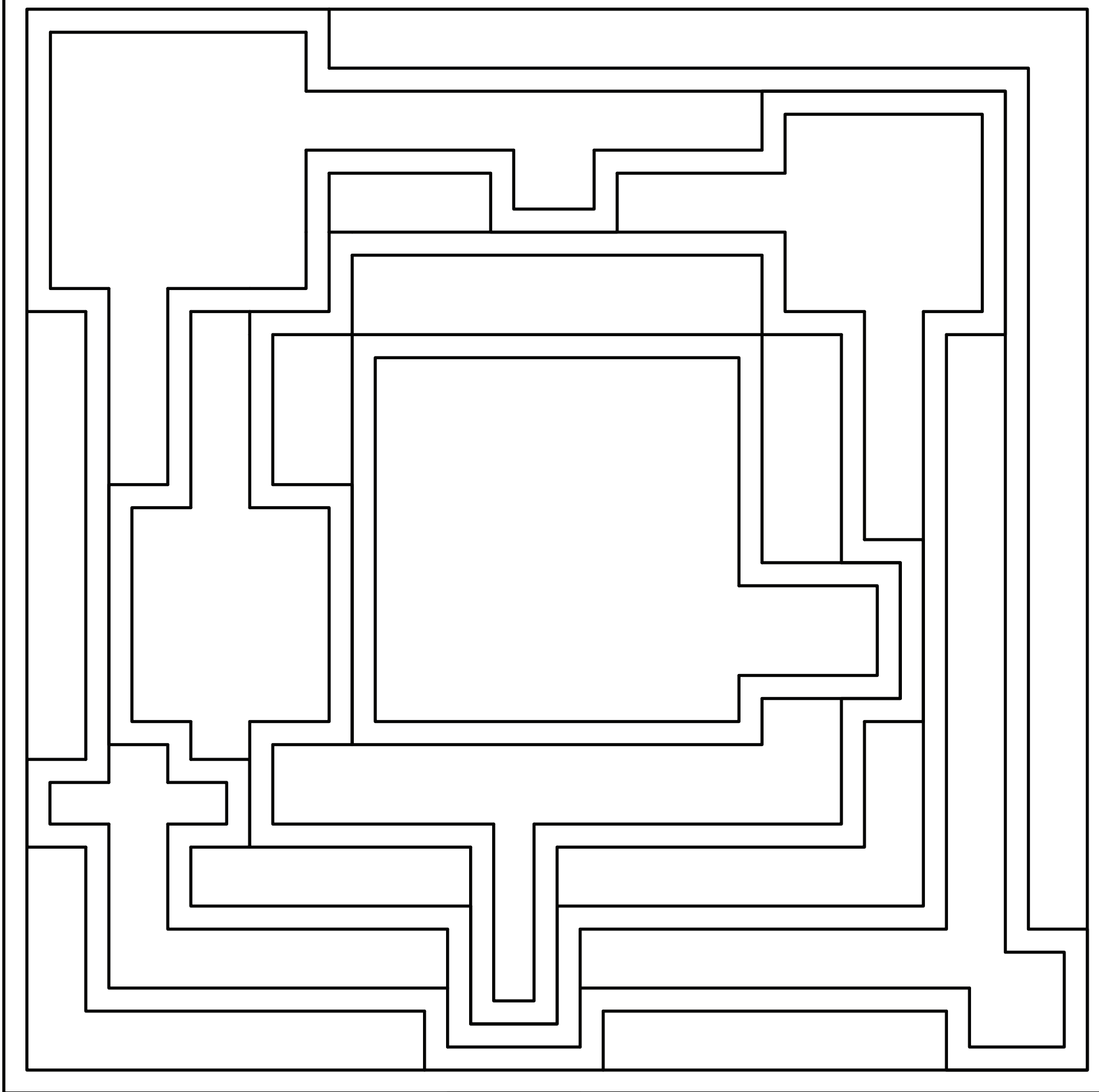
Diagram Progression



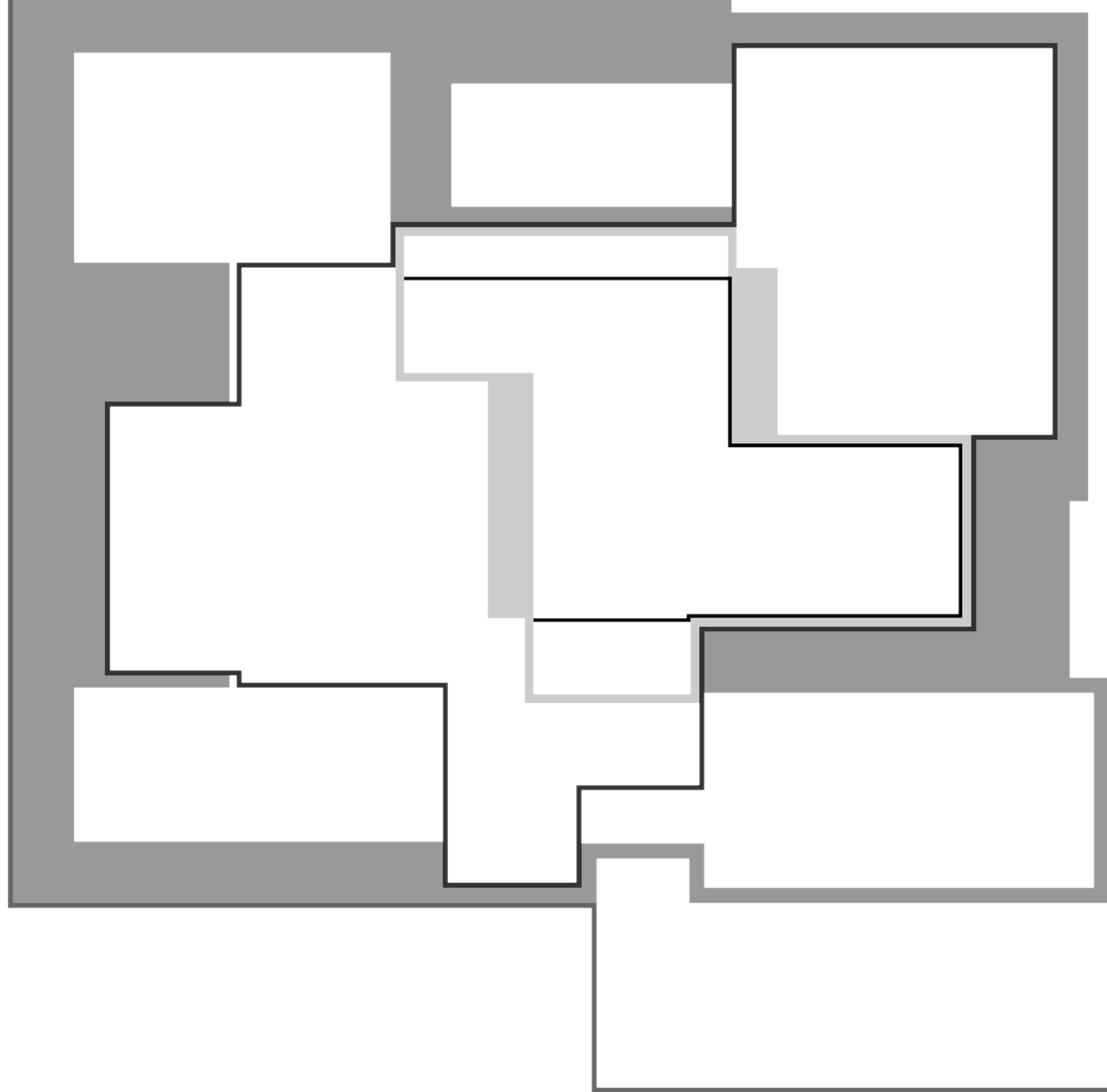
Base



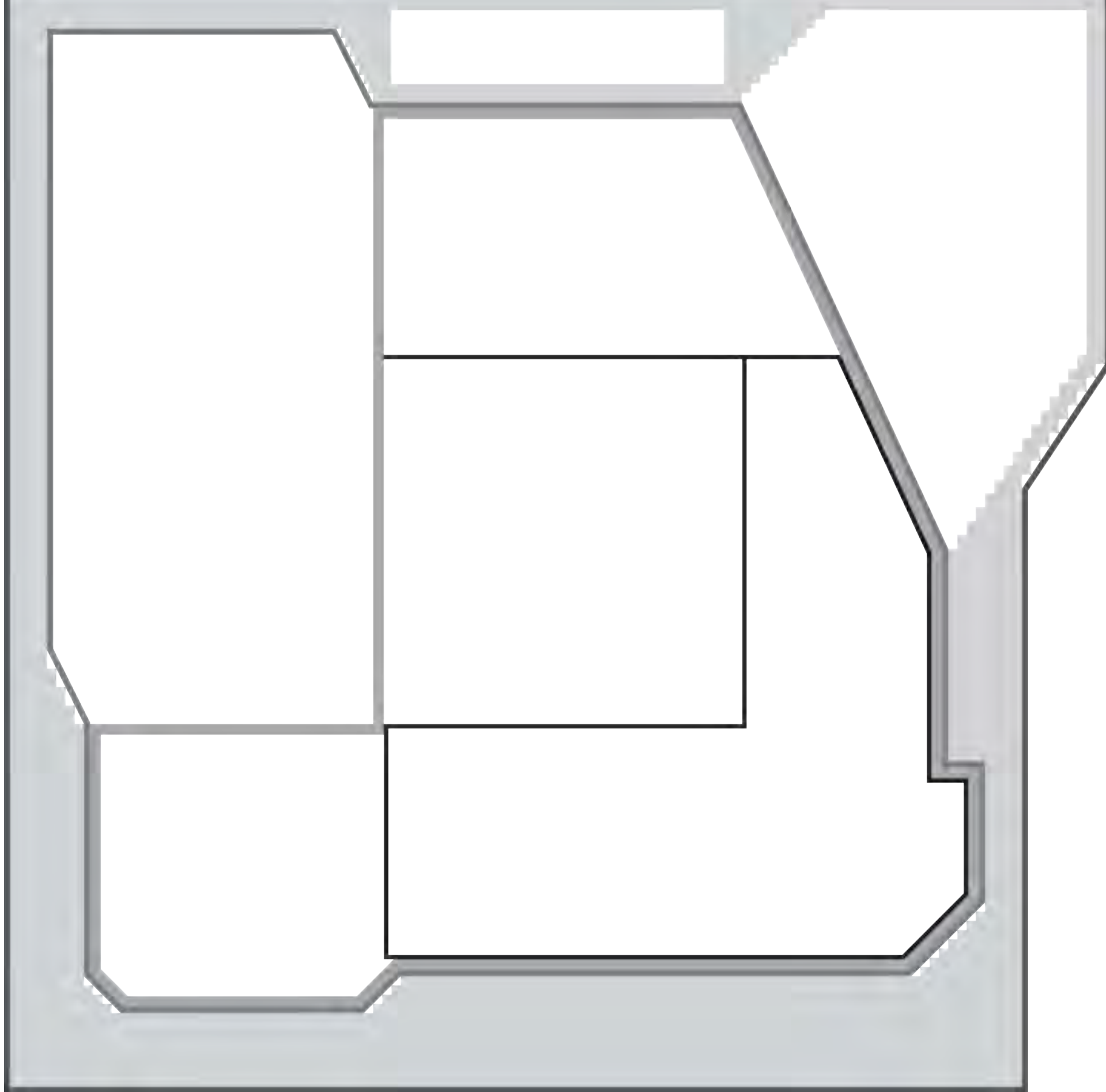
Cut Space



Continuous

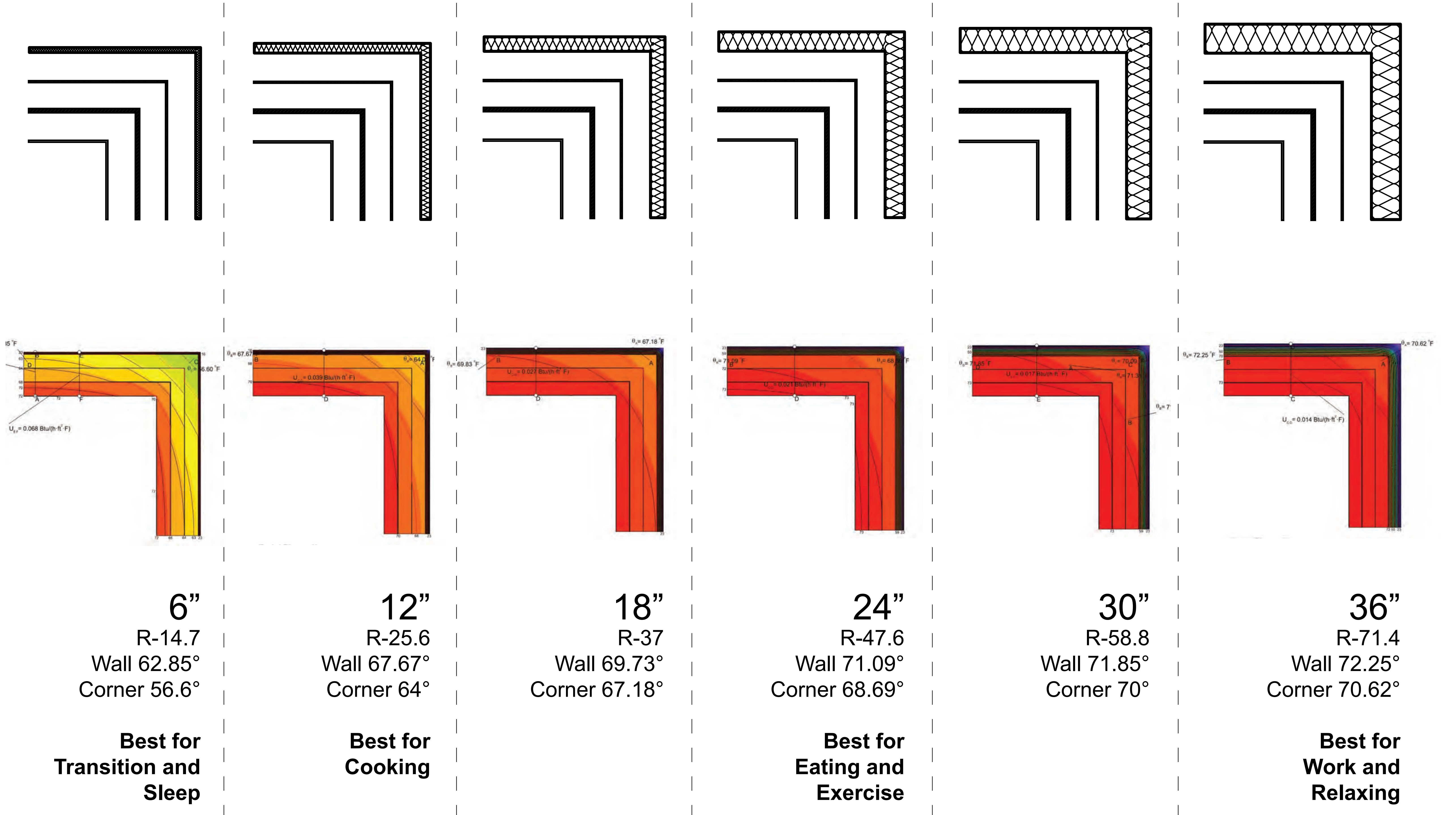


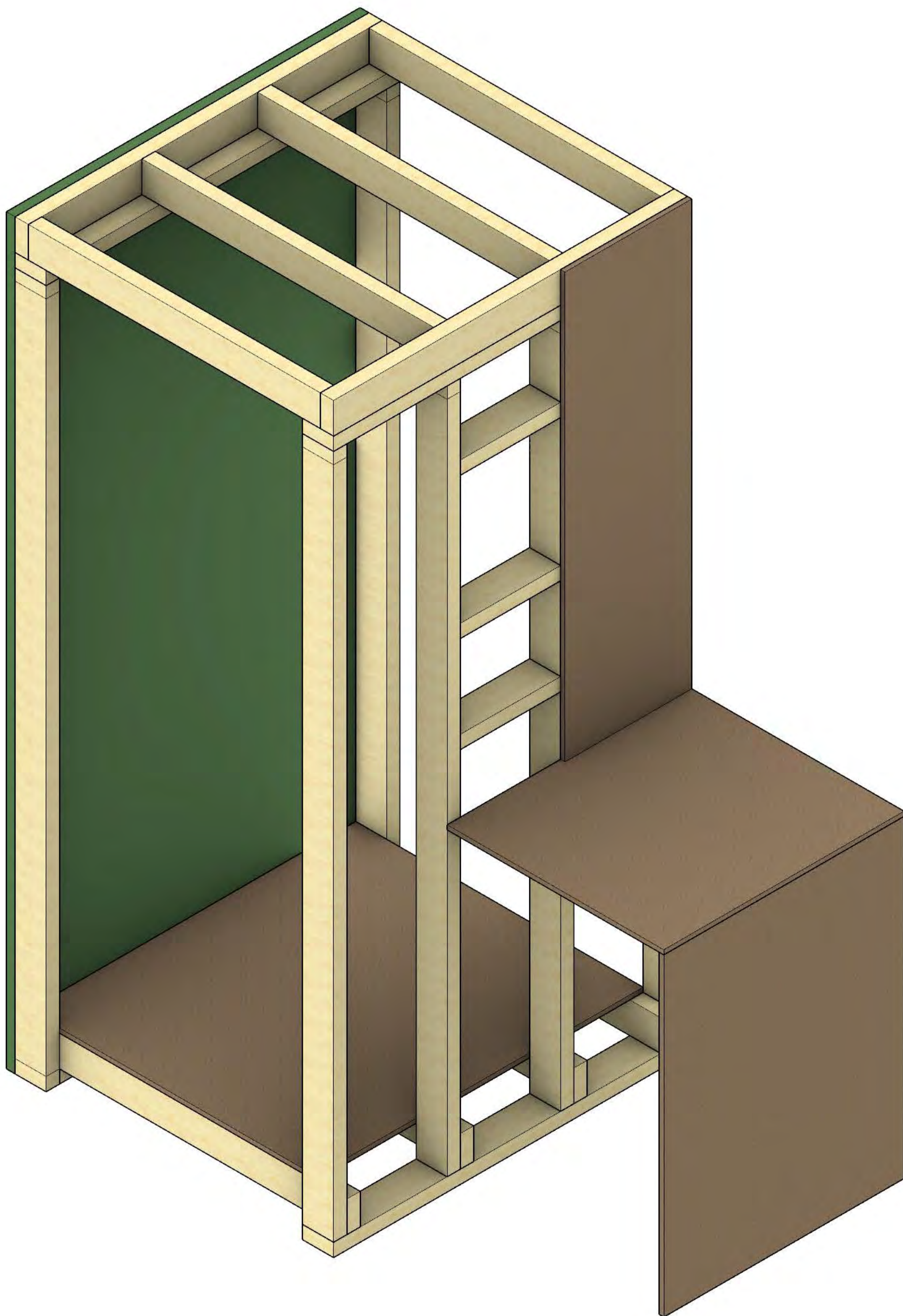
Size



Flexible

Insulation Thickness Performance





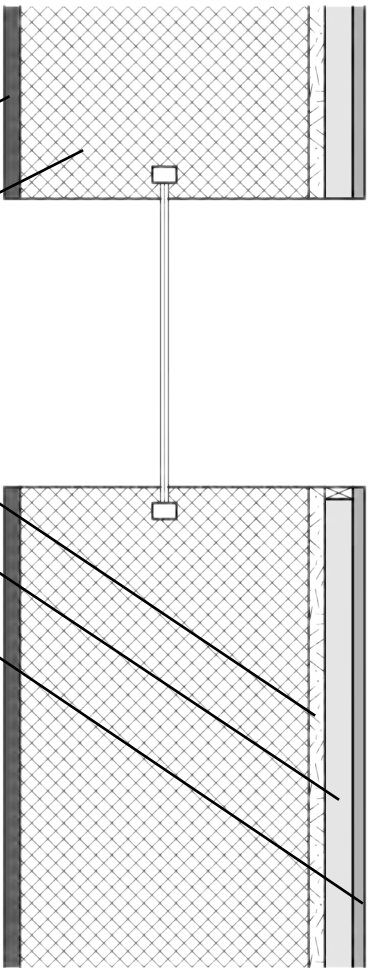
Materials

Used Here

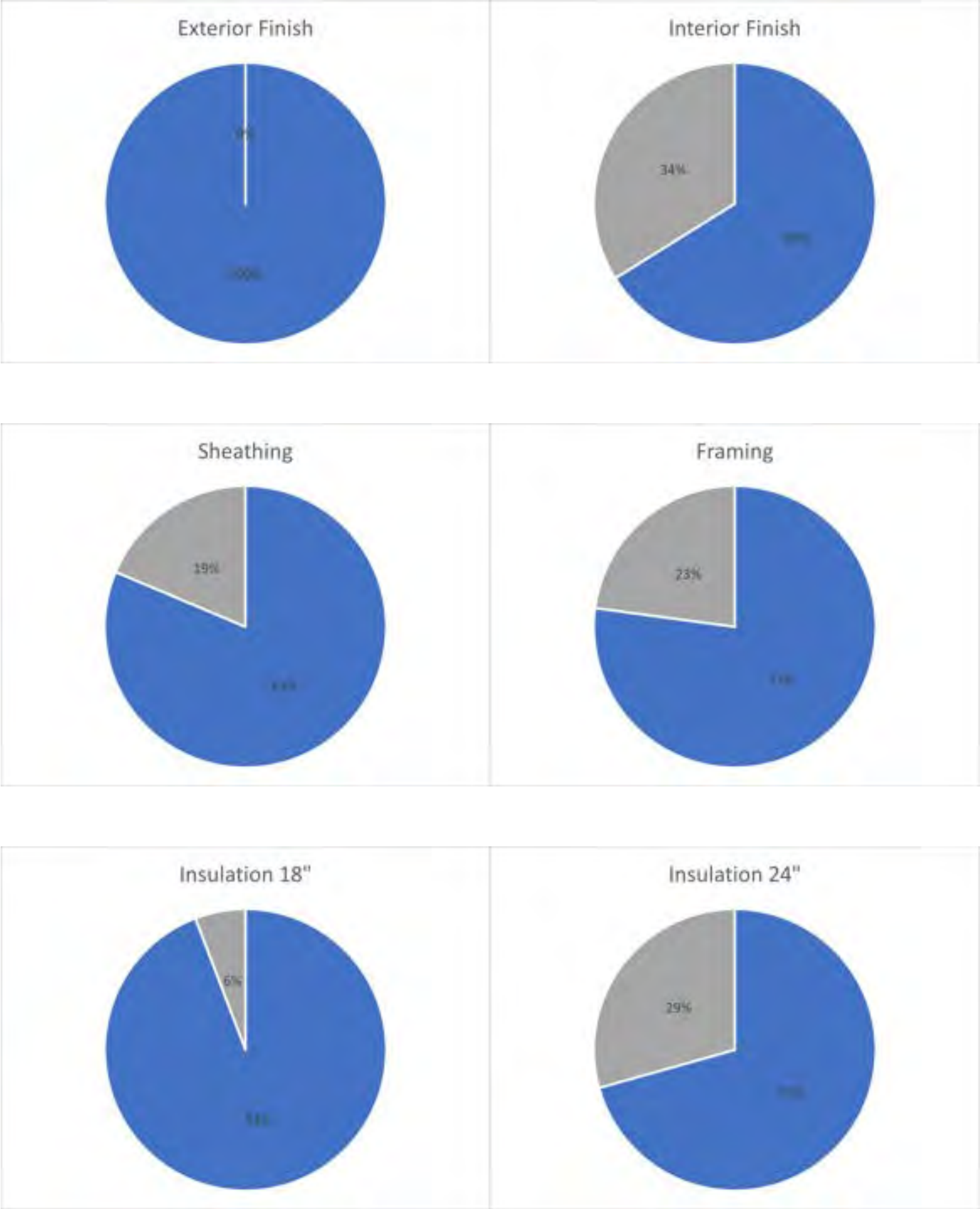
- Exterior Rainscreen Cladding
- Rockwool Insulation
- OSB Sheathing
- Conventional Stud Framing
- Interior Gypsum Board Finish

Other materials could include

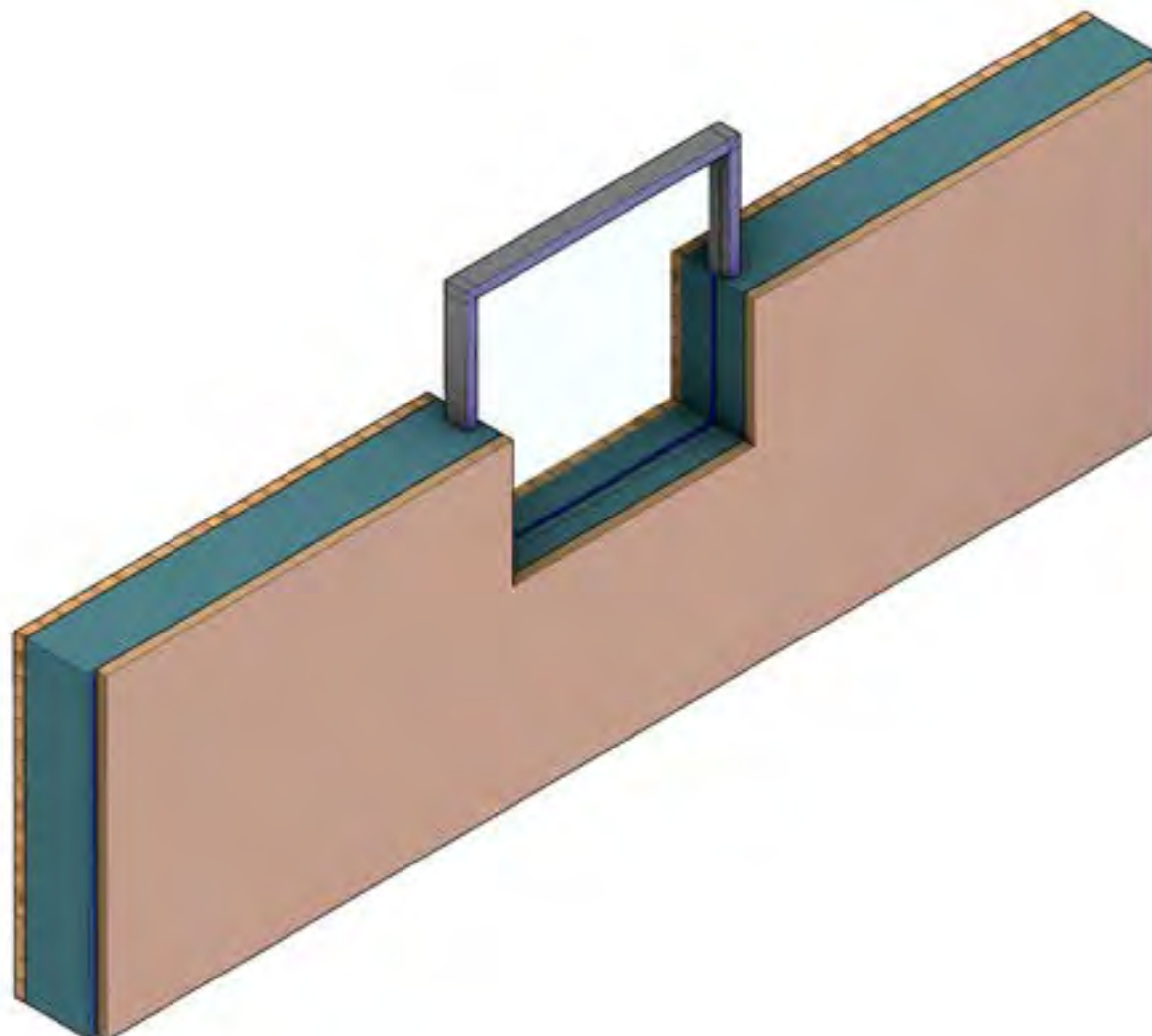
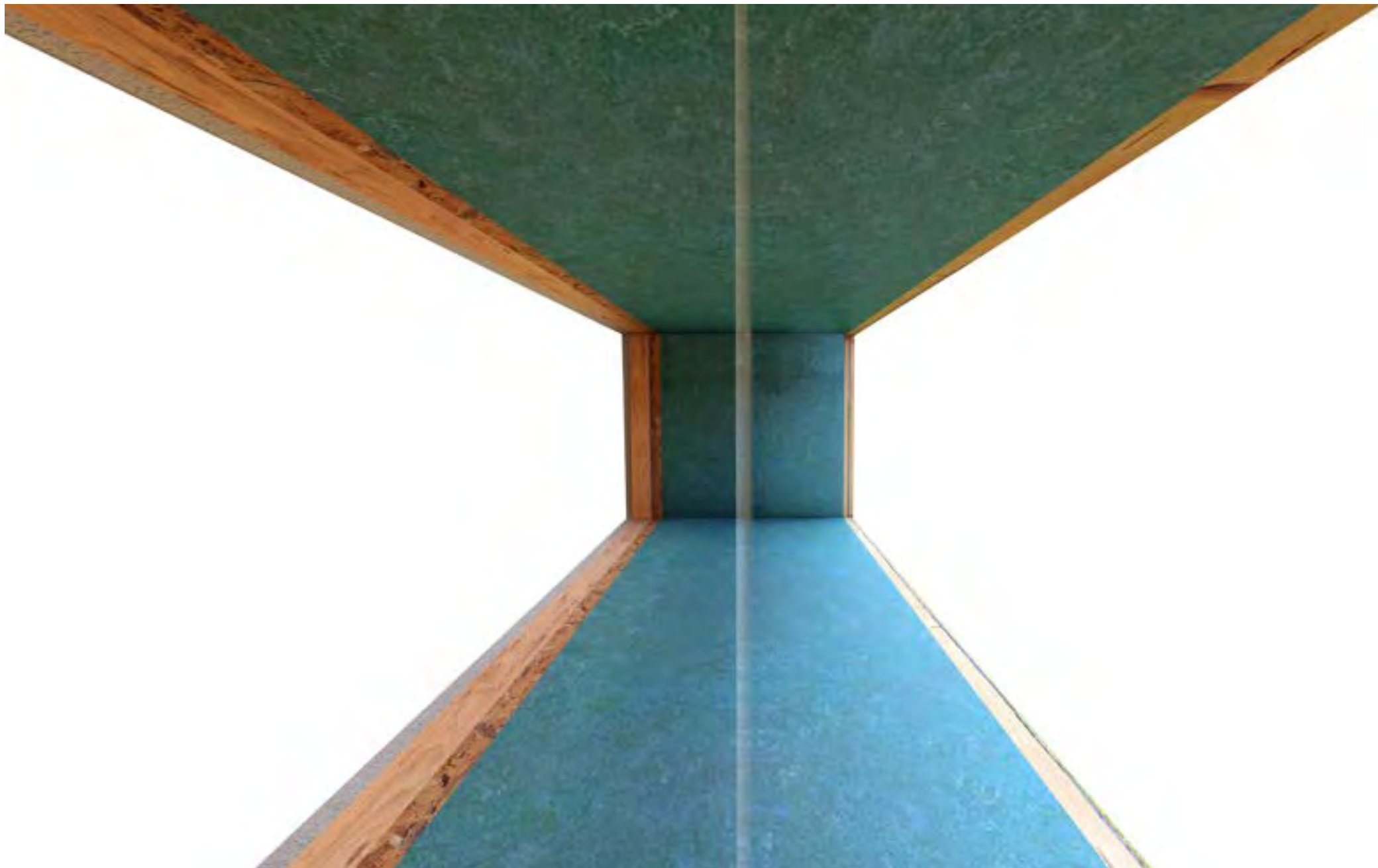
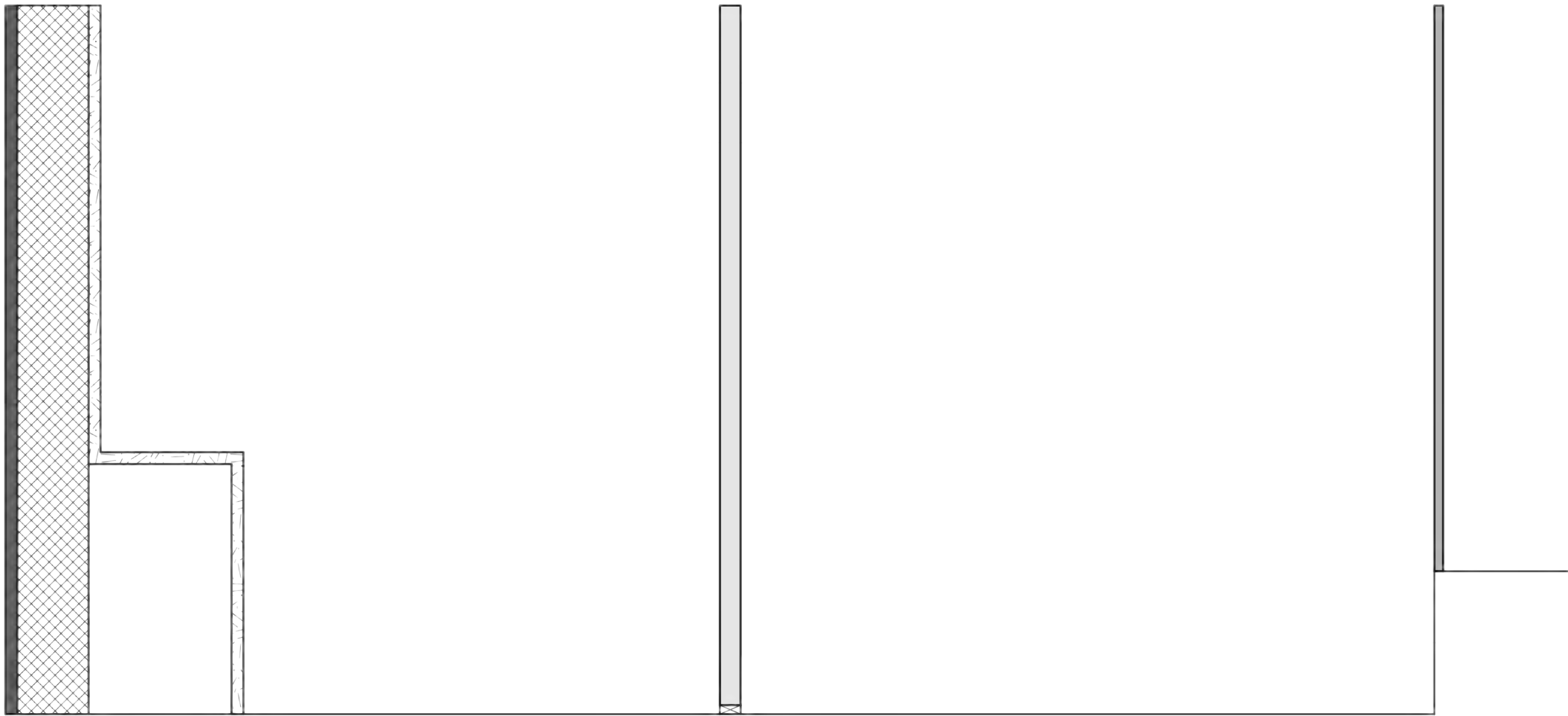
- Hay Bales
- Concrete
- Cork
- Cotton Batts
- Fiberglass Batts
- Earthen Construction
- Recycled Materials



Material Savings



Wall Sections



Renders

Entrance



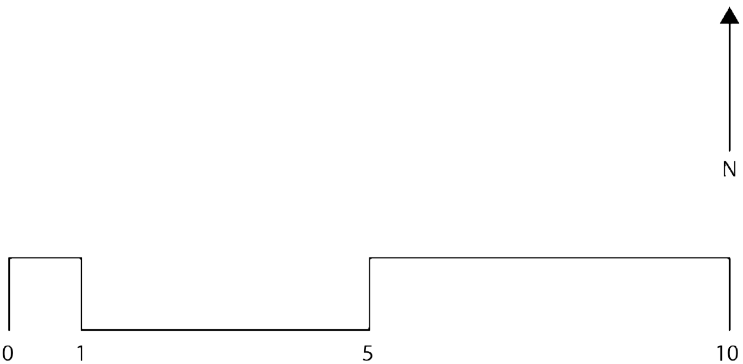
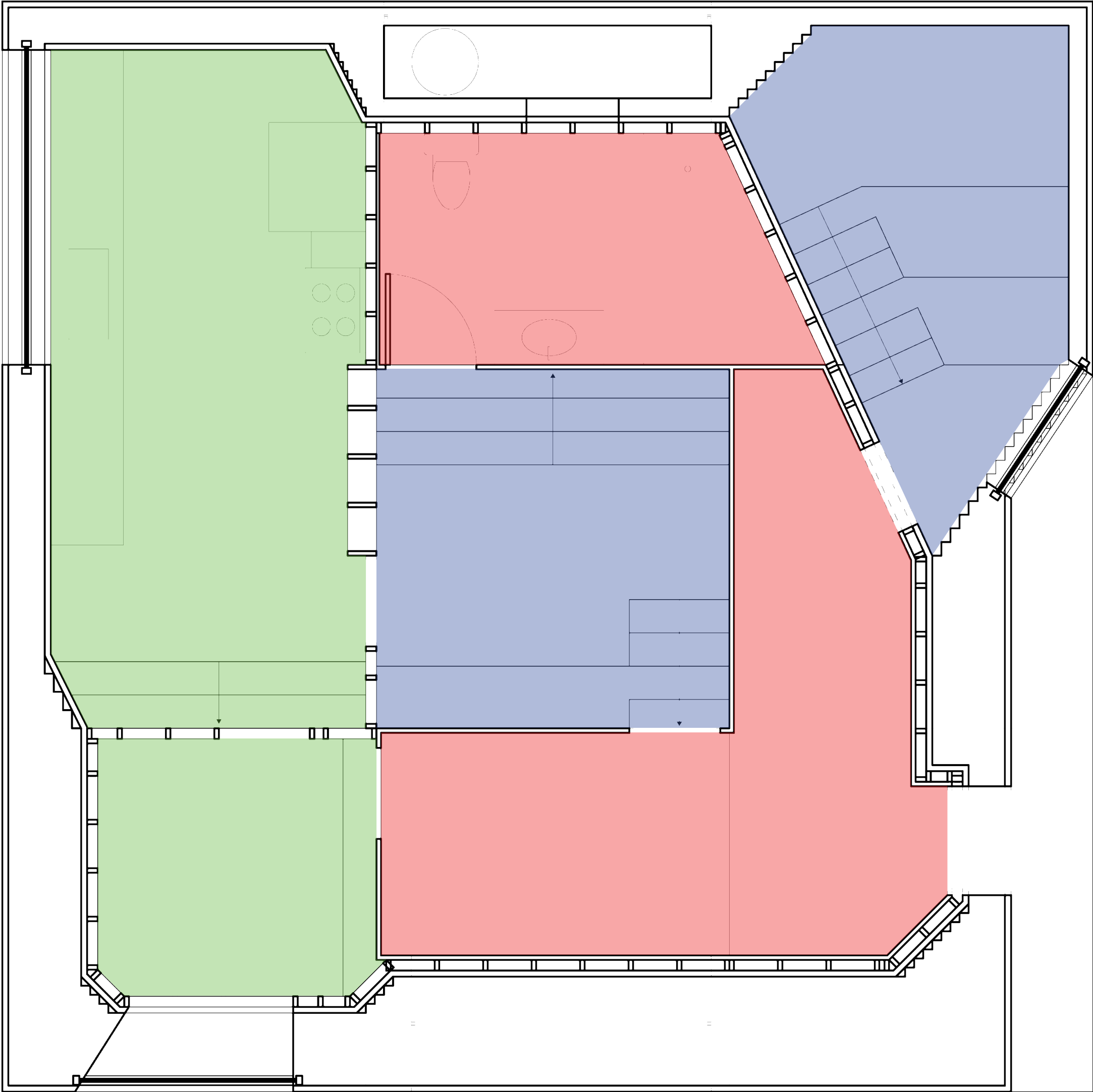
Warm Space



Center



Thermal Spaces



Layers

