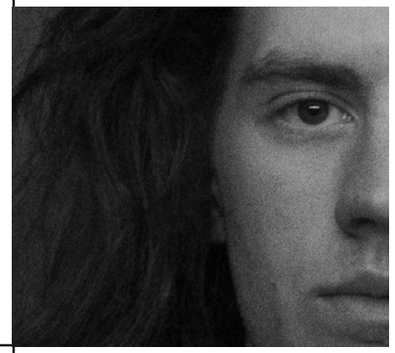
portfolio.



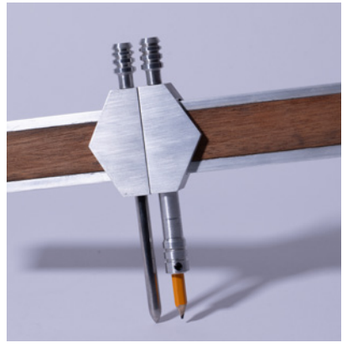
UNDERGRADUATE
WORK

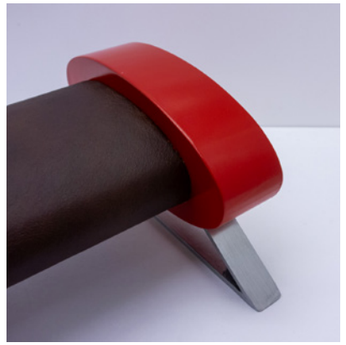
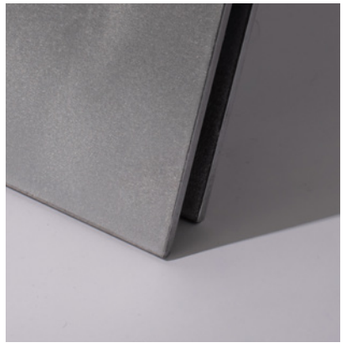
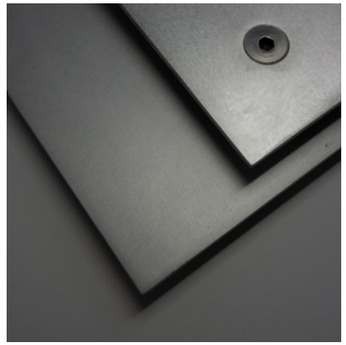
COLVIN
HARVEY

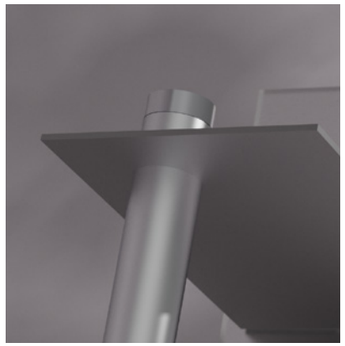
COLVIN HARVEY

Raised in rural Appalachia, I was instilled with a value for frugality and respect for resilient items at a young age. I create objects that can be brought to the masses by refining and simplifying the fabrication process. In a constantly changing post-contemporary world, quality objects are increasingly rare. I address this in each design undertaking through a basic understanding of materiality and the processes required to manipulate high-quality materials. I am a functionalist in my design, and I believe that objects should do no more and no less than intended.

selected works

2023 - 2026

WB-4

my first endeavor in woodworking and furniture fabrication; WB-4 is a handmade end table fabricated using quarter saw walnut and lathe spun brass

fall 2023

quarter sawn walnut provides consisten end grain patterns, symmetrical construction provides design with a sense of unity, enhanced by the contrast of cylindrical and rectangular forms

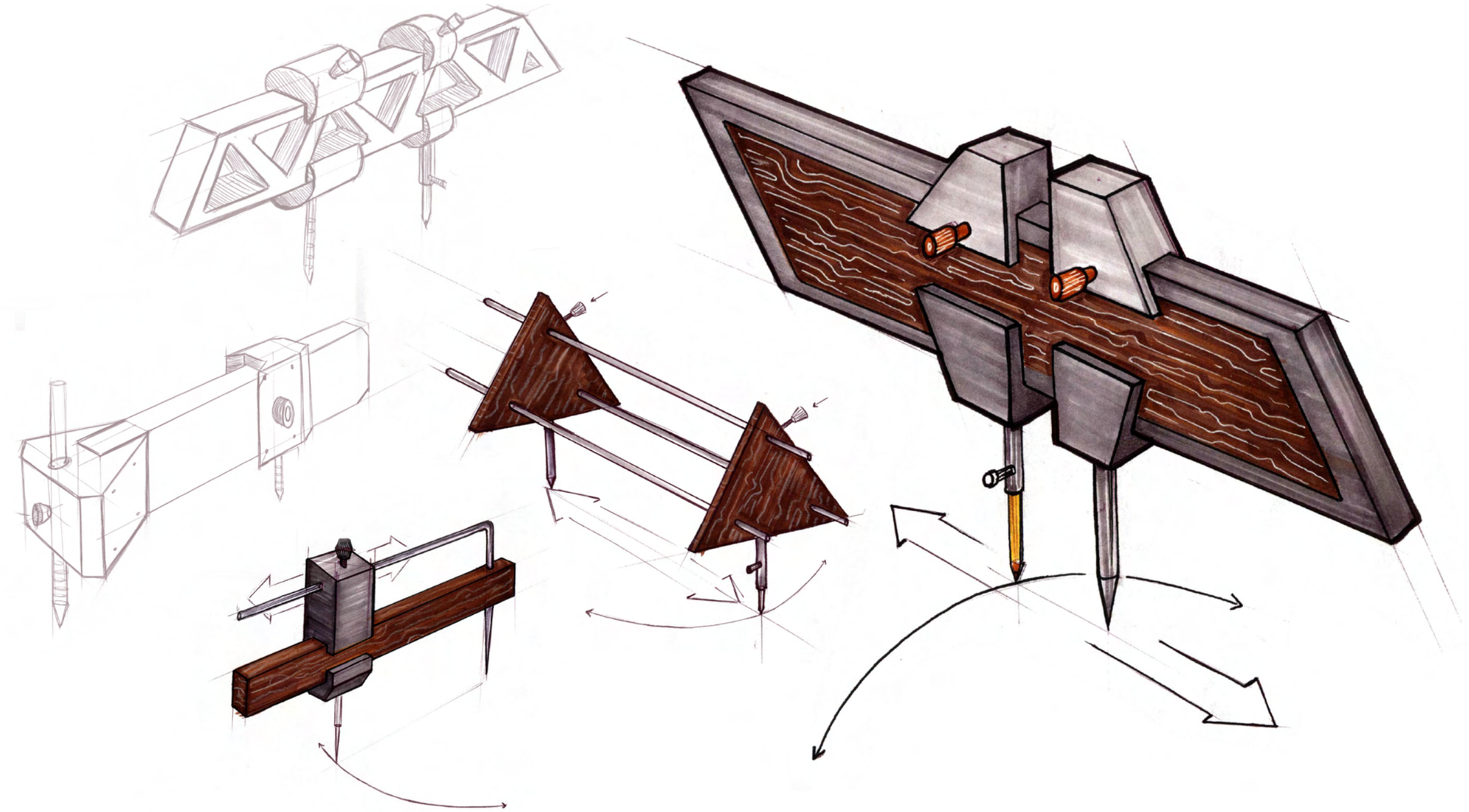
16” x 16” table top, symmetrical form, creating a sense of unity and proper scale. Entire piece sanded up to 400 grit, stained, and sealed with paste wax

TRAMMEL POINT

a study in machining technology and metal fabrication; designed to draw circles from 3 inches to 21 inches in diameter

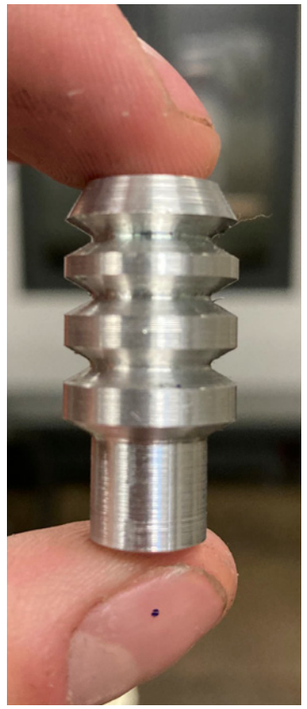
02

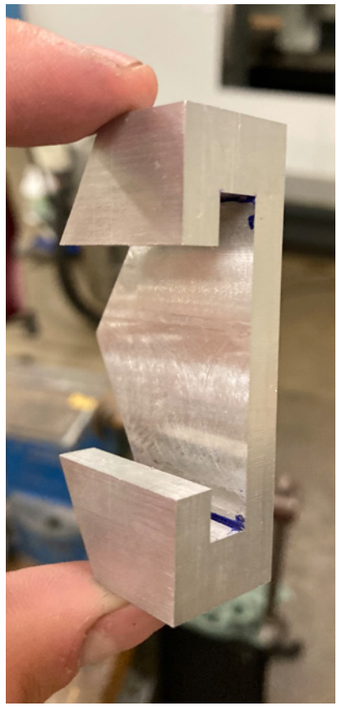
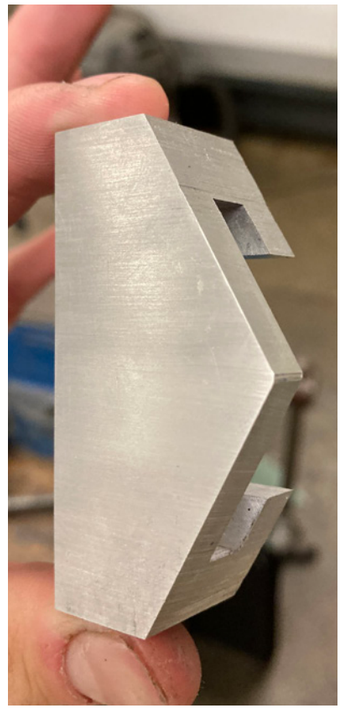
5 weeks



IDEATION

marker rendered sketches exploring combinations of atypical forms that accomodate two adjustable points, taking into consideration the machine limitations and capabilities of the vertical mill and lathe



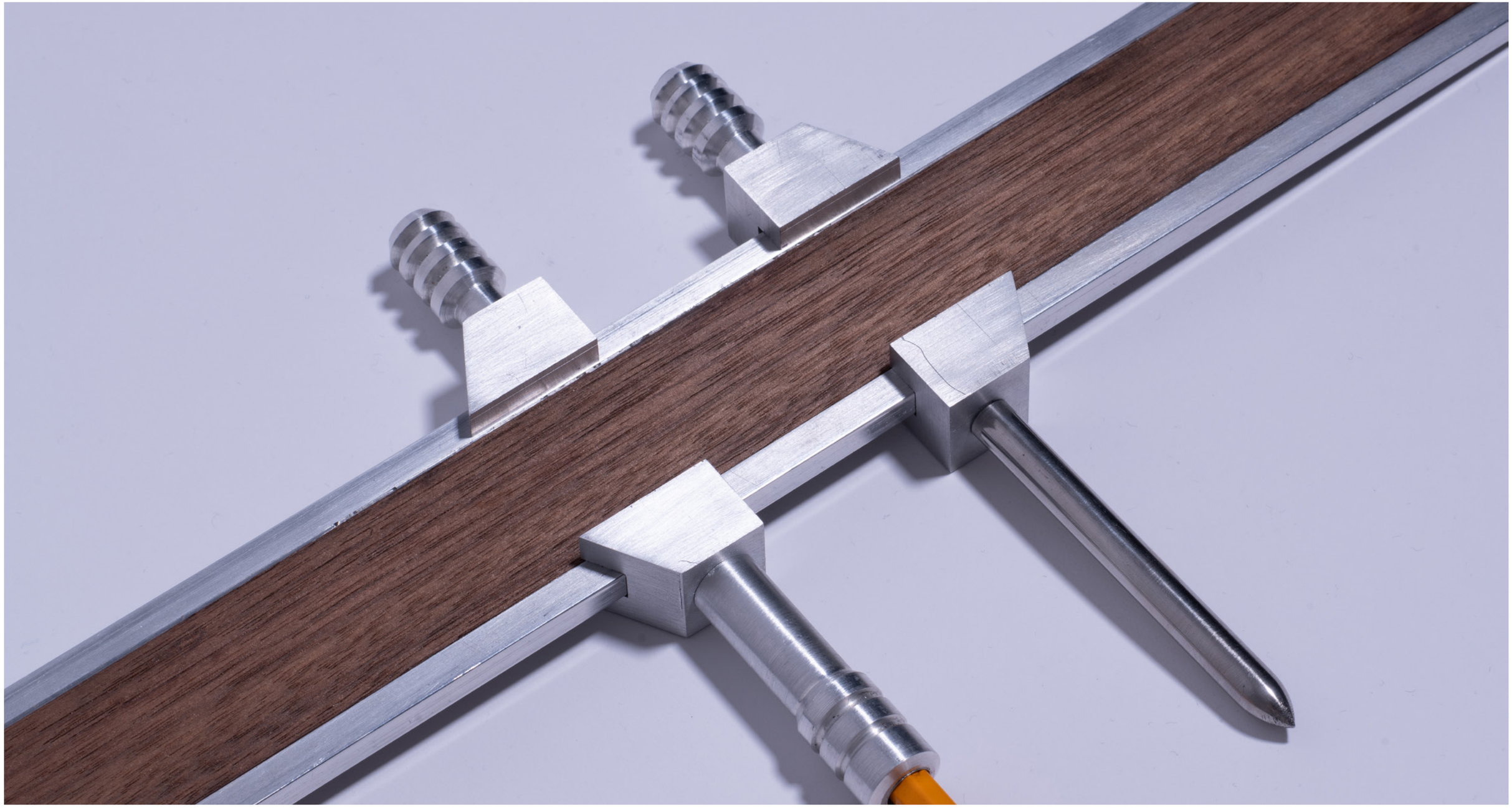



FABRICATION

knobs machined using a lathe, with the thickness of each shoulder shrinking 0.08”, 10-24 threades tapped in each knob; pencil and trammel sliders machined on a vertical mill from a single block of 6061 aluminum, inlay on bar machined to a depth of 0.032” to accomodate veneer thickness

Trammel Point - size: inch 18 x 3/4 x 5 3/4 - cm 45.7 x 1.9 x 14.6

fall 2023

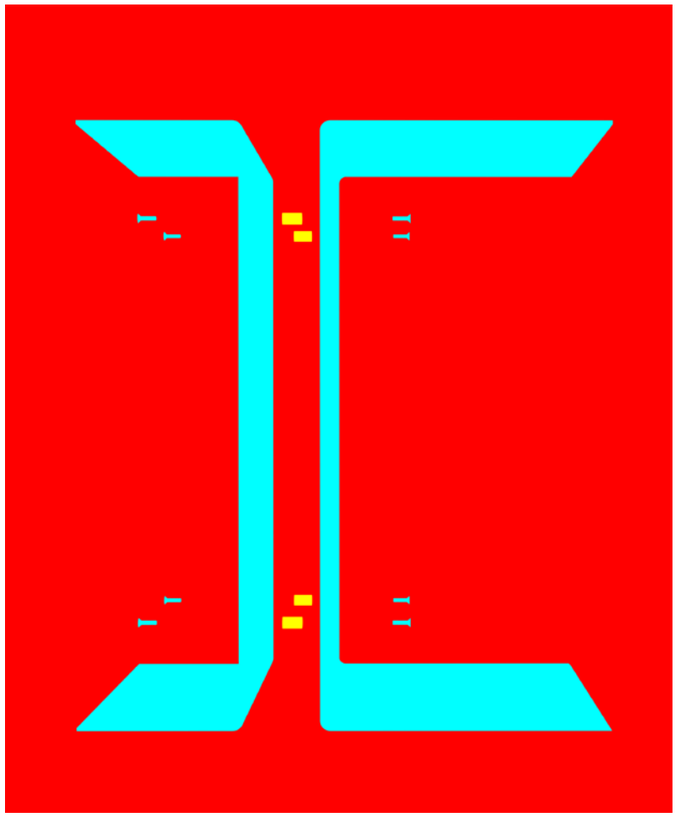


60 degree angle on bar and sliders creates flush surface when sliders are moved to end of trammel point bar, top knob allows sliders to move freely, bar measures 21"

polished steel point threads into aluminum slider, pencil holder uses 6/32 threaded grub screw to allow pencil removal from 1/2" diameter machined aluminum housing

SPLIT

designed in parallel with SPLIT Chair, two bent planes of 1/8 inch aluminum, designed to be lightweight and easily fabricated with limited tooling

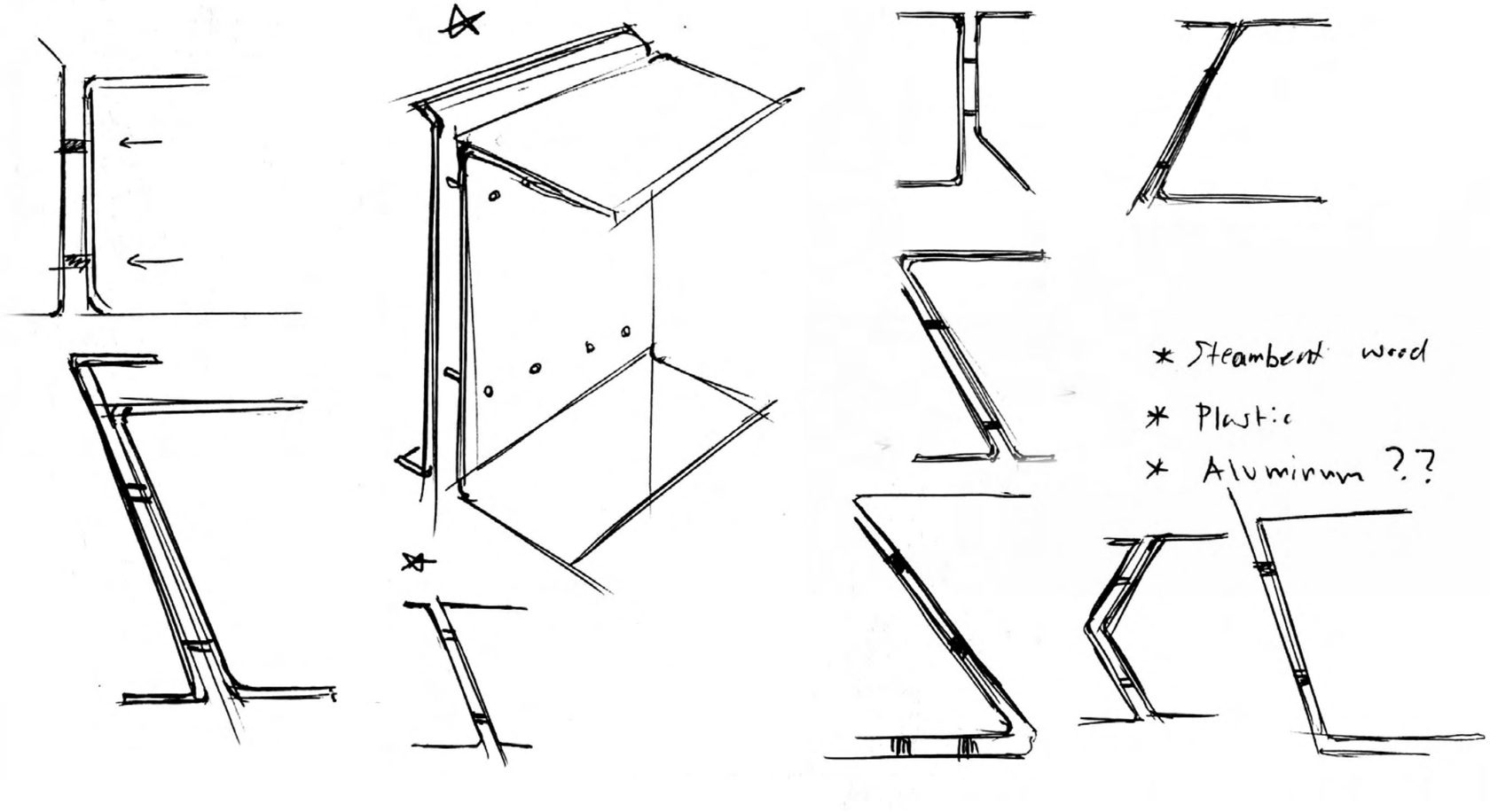


END TABLE

03

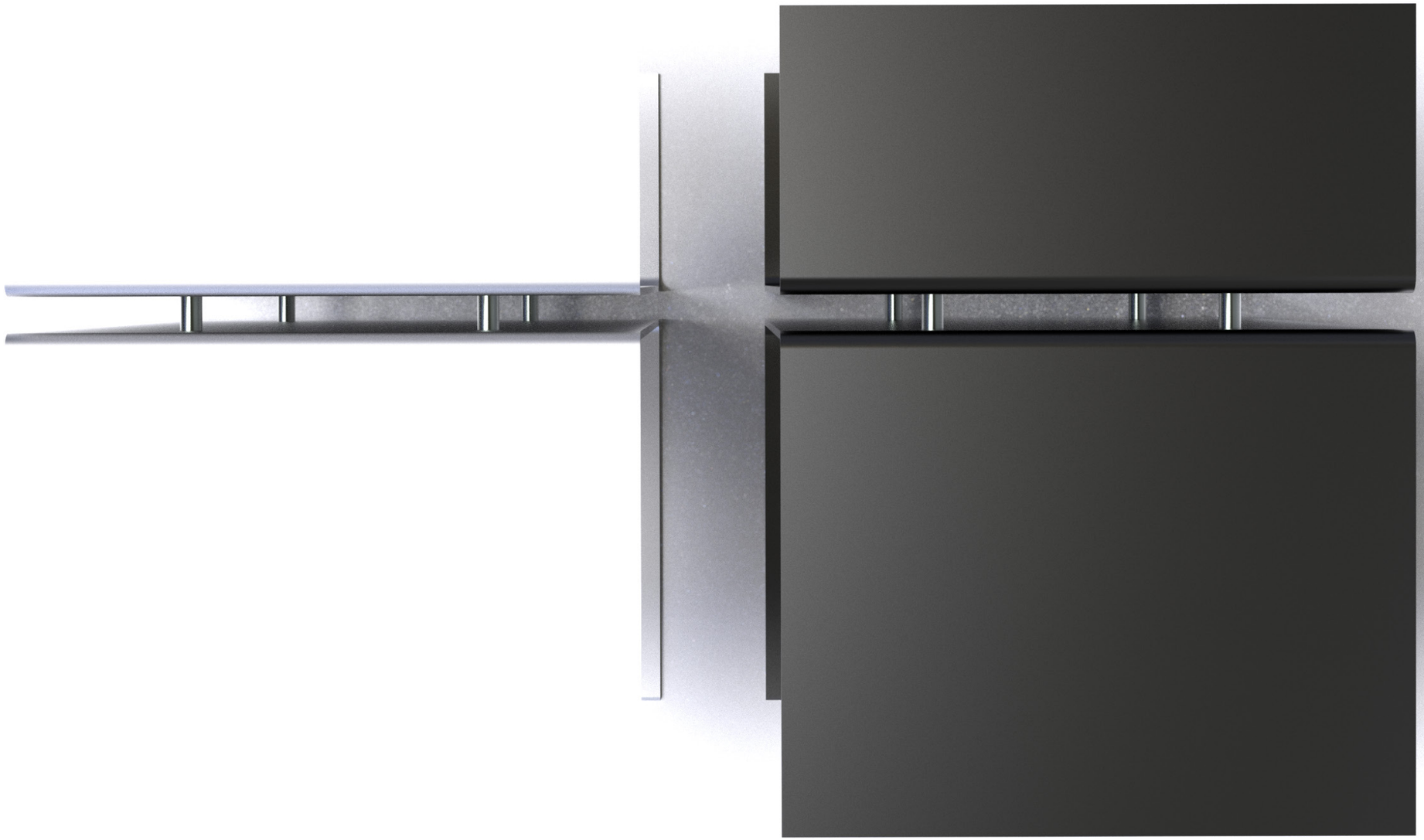
IDEATION

exploring assymmetric arrangements of bent panels and fastening methods, determining most compatible materials for the form



selected analog sketches

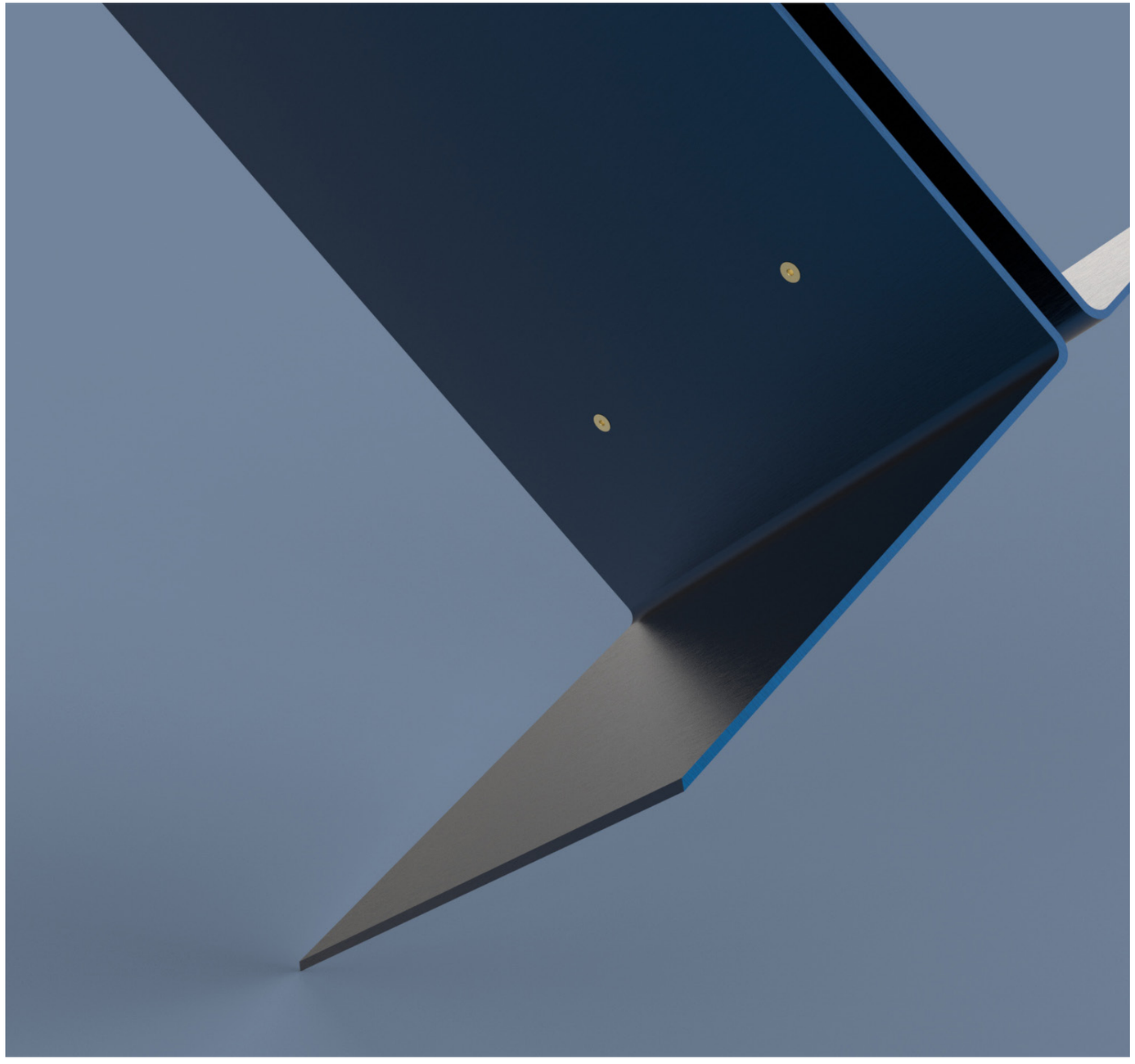
4 weeks



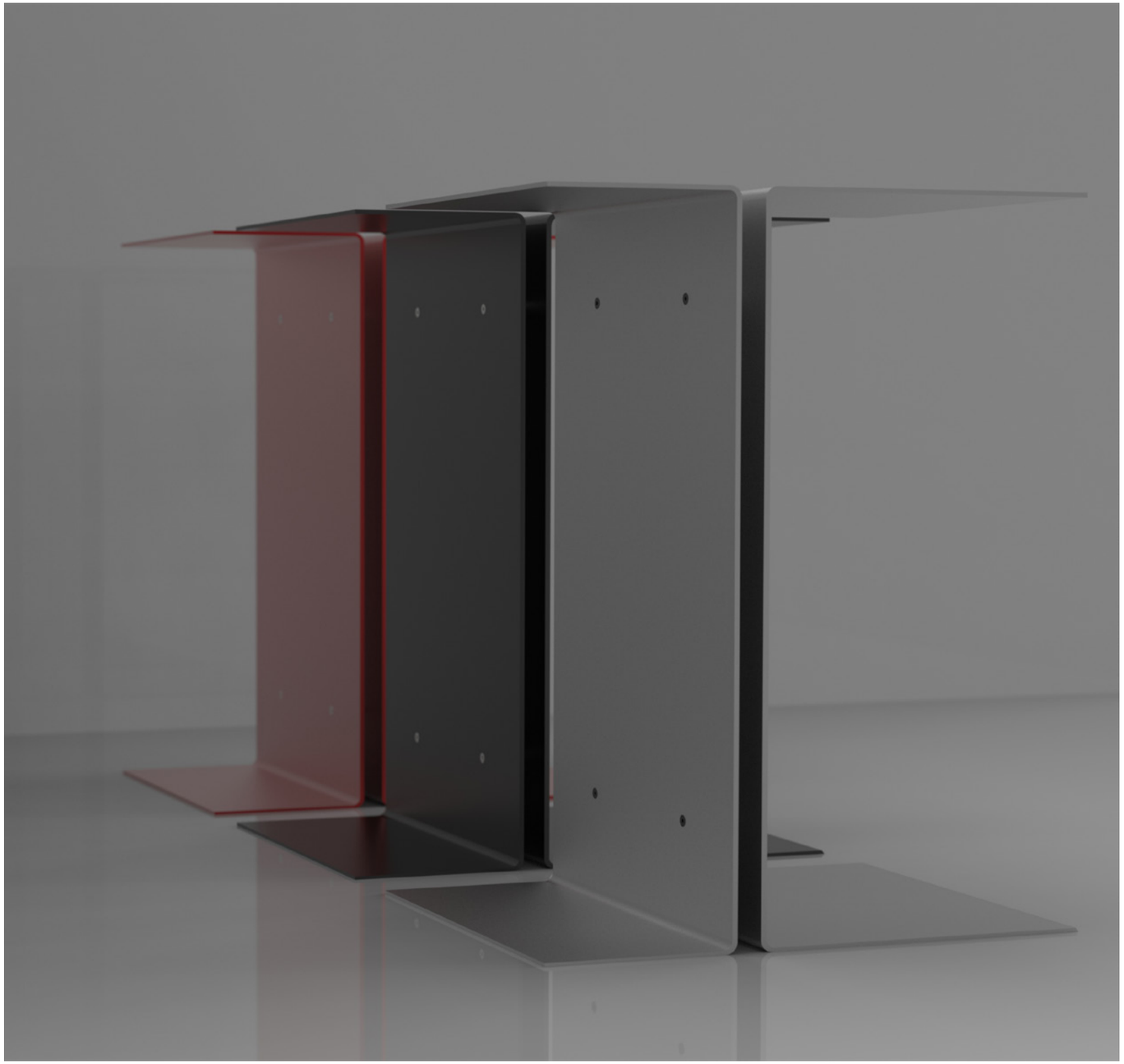
spring 2024

designed in tangent with my SPLIT chair, color variation achieved through anodization of 1/4" aluminum sheets, fastened using 1/4-28 x 3/4" stainless hardware, countersunk to sit flush in aluminum

digital renders

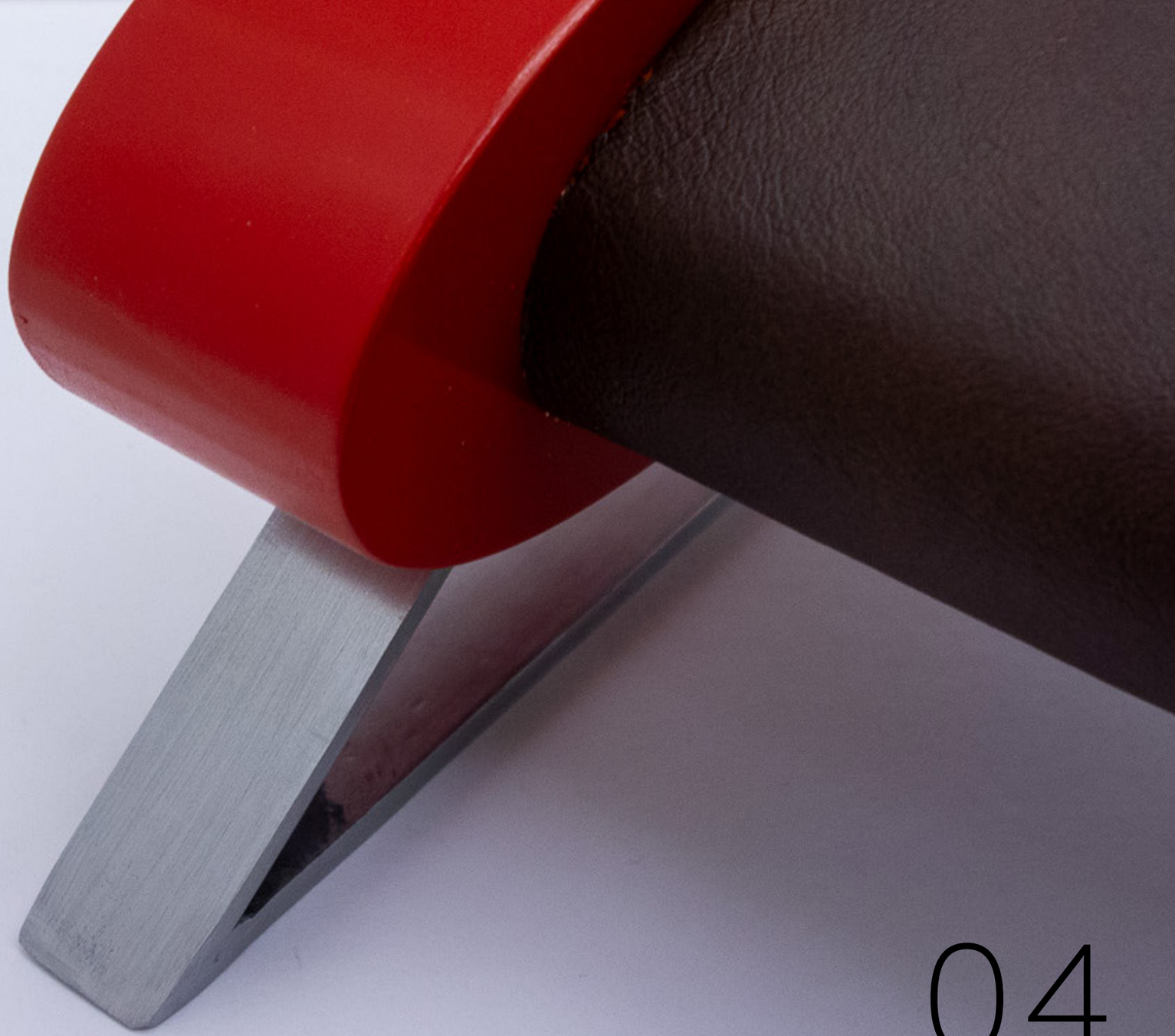


array of SPLIT tables, reduction of necessary processes in fabrication increases accessiblity of design, good design should be readliy accessible to all those who value durability, contemporary styling increases versality for interior installment, material lends itself to use in both exterior and interior environments



SPLIT End Table - size: inch 15 3/4 x 14 1/2 x 24 - cm: 22.9 x 12.7 x 33

deco bench



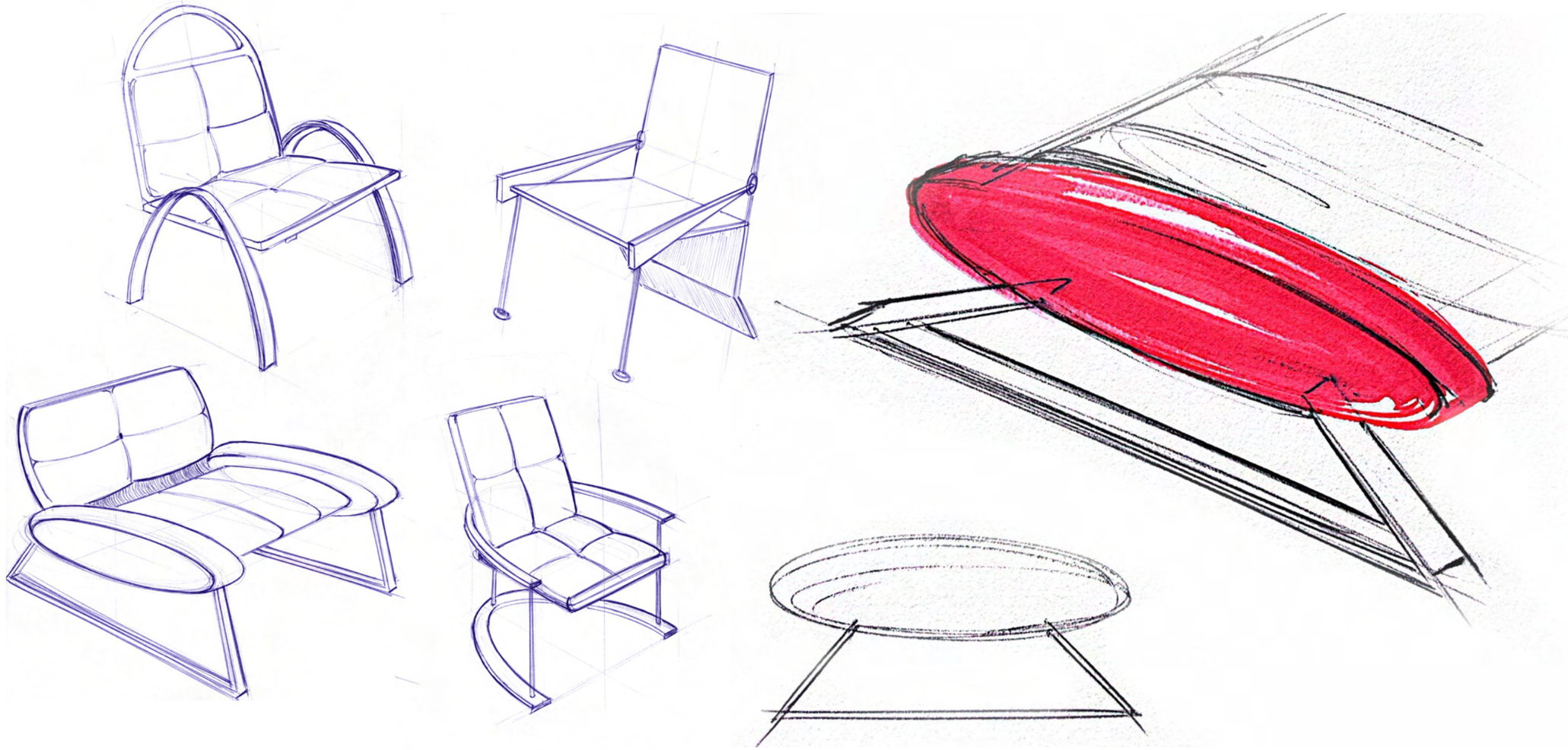
translating the art deco and streamline modern design language of American industrial designer Donald Deskey, into a quarter scale seating model

04

three extruded ellipses create the body of the couch, using the same radii to invoke a sense of unity throughout the main body of the couch, contrasted by angularity of welded steel legs

spring 2024

3 week project duration



IDEATION

fusing my interpretation of deco styling with Deskey's design language, focusing on symmetrical forms with repitition of basic shapes, specifically arcs and triangles

selected analog sketches

leather wrapped body creates soft seating surface, contrasting the angular and sharp metal legs of the seating, constructed at 1/4 scale from high density polyeurathane

size: inch 12 x 4 1/2 x 4 1/4 - cm 30.5 x 11.4 x 10.8

SPLIT

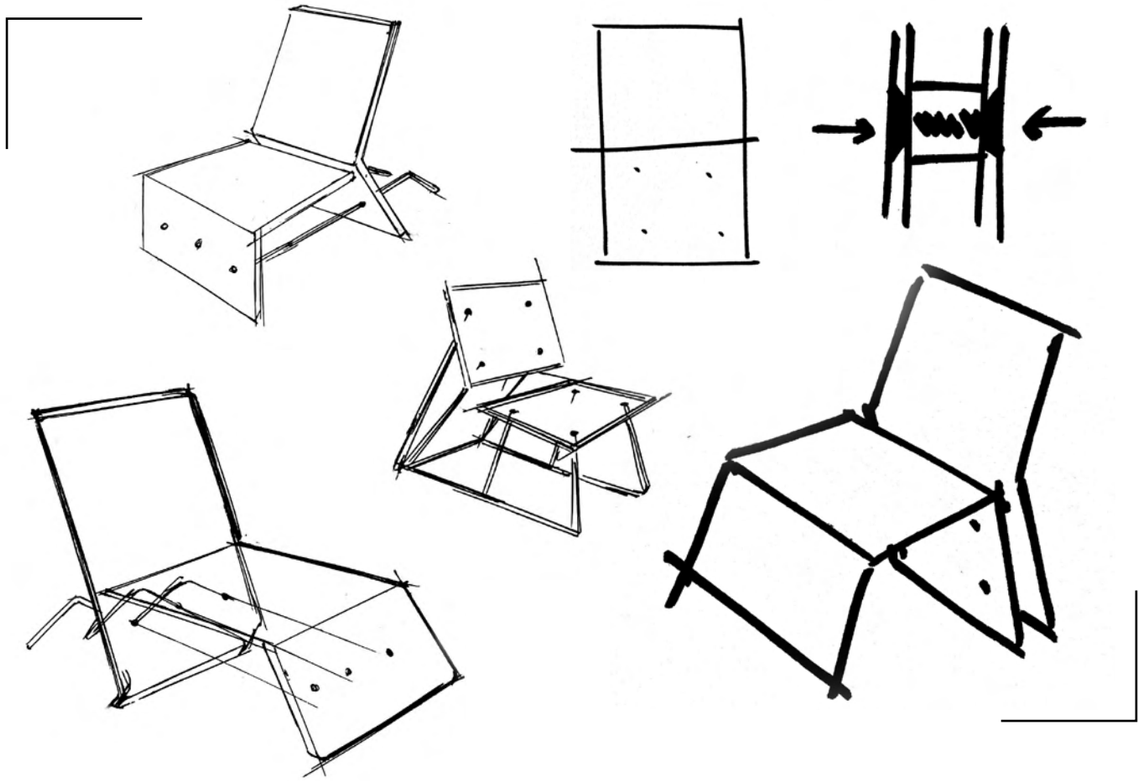
05

designed to be manufactured with as few processes as possible,
constructed using two quarter inch aluminum panels

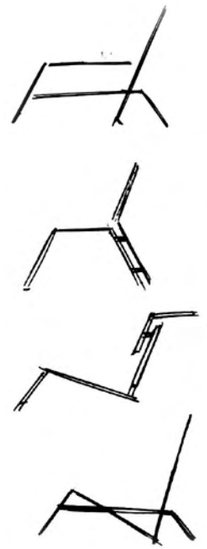
INDOOR / OUTDOOR SEATING

spring 2024

Split Chair - size: inch 31 x 17 3/4 x 35 - cm: 78.7 x 45.1 x 88.9



selected analog sketches



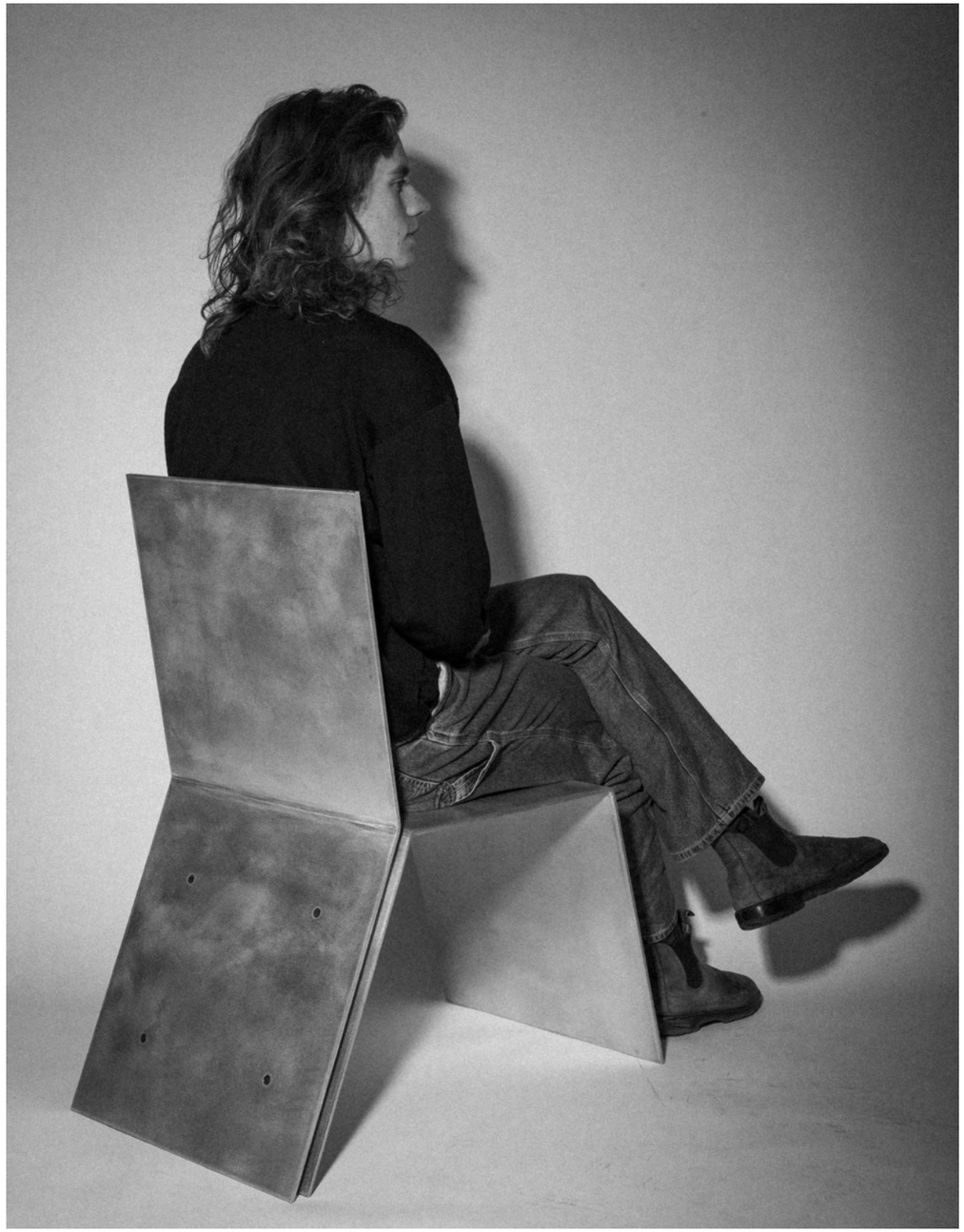
form ideation, designed with heavy consideration of side profile, angles chosen via testing quarter scale models constructed from 1/16 inch thick polyethylene panels, bent using heat

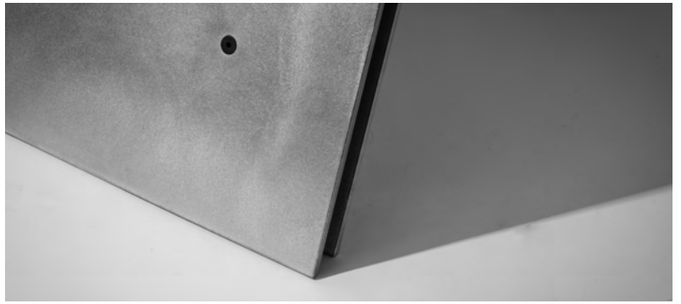
stemming from a quarter scale sketch model exploration in parallel planes and their relationship to seating, sketches evolved from lounge seating concepts into dining chairs, concepts built on idea of limiting complex processes

Aluminum 6061 sheet , 1/4 inch thickness

identical bend radius achieved by bending each sheet of aluminum with the same tooling, identical k-factor for each bend allows the angle of each bend to be different while maintaining a consistent aesthetic at each angle

(x8) countersunk stainless steel hardware 1/4 28 x 3/4 inch
(x4) aluminum spacer 1/2 x 3/4 inch





raw matte finish achieved with random orbital sander and 400 grit sandpaper, aluminum protected with polymer sealant to retain finish and prevent staining

ideal for gallery seating, dining environments, material choice lends chair to use both indoors and outdoors, color variation possible via anodization, relatively low production cost

7 weeks project duration

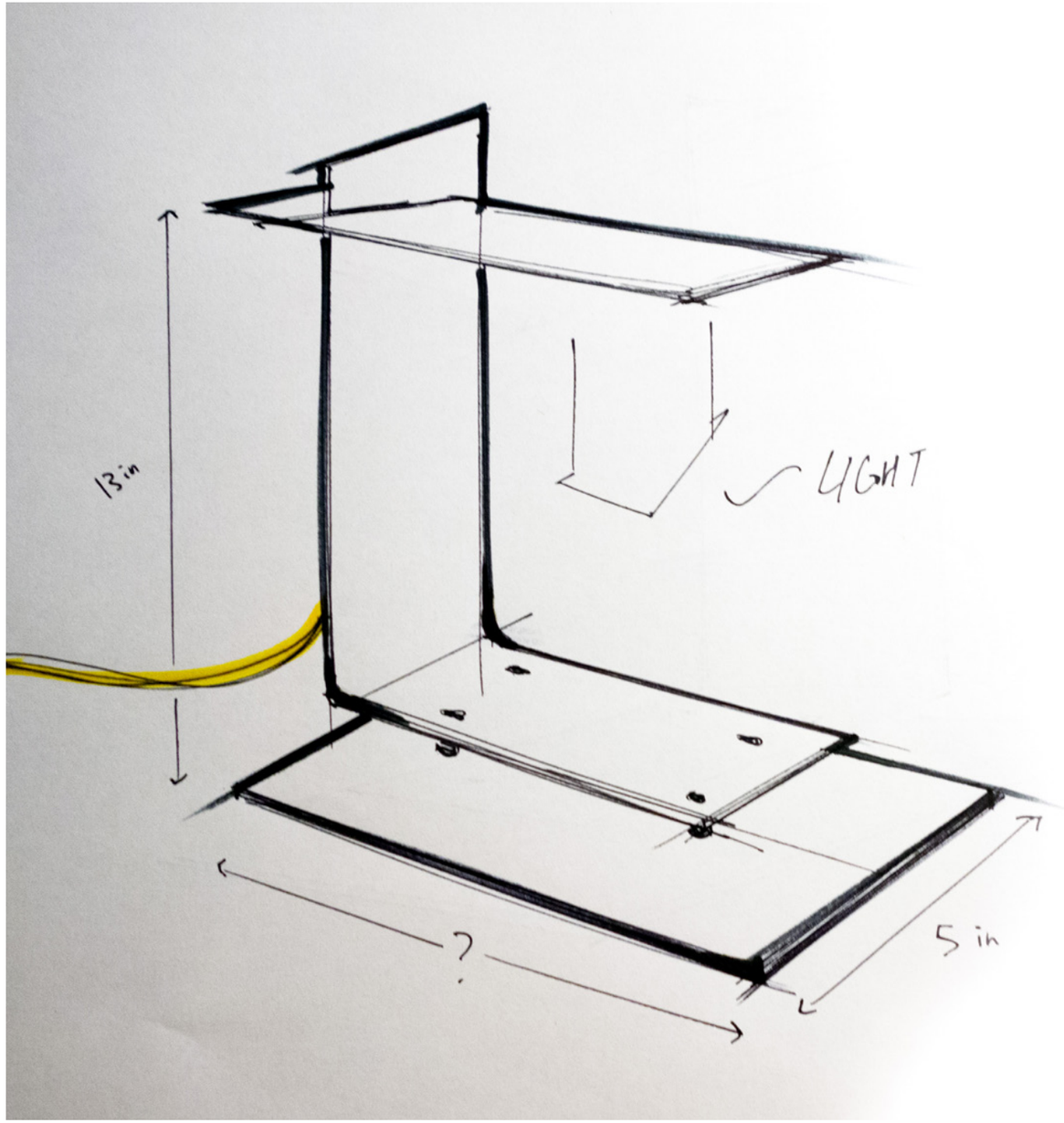
task lighting constructed using notched and bent aluminum panels, designed to provide soft ambient lighting in either a commercial or personal work environment

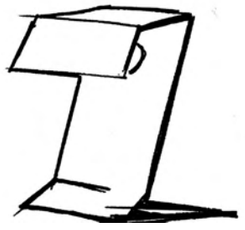
LC-7

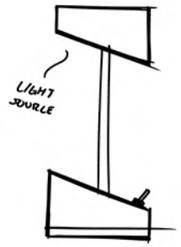
06

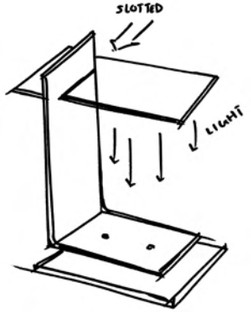
fall 2024

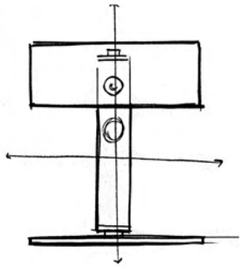
deriving stylistic elements from architectural forms with primarily right angles, using oversized planes to increase ambiance of singular led panel











Selected Hand Sketches

oversized intersecting aluminum panels provide mounting surface for LED panel, lamp body anodized to preserve finish quality and create a mildly reflective surface, all connections made without welds to simplify production and reduce cost

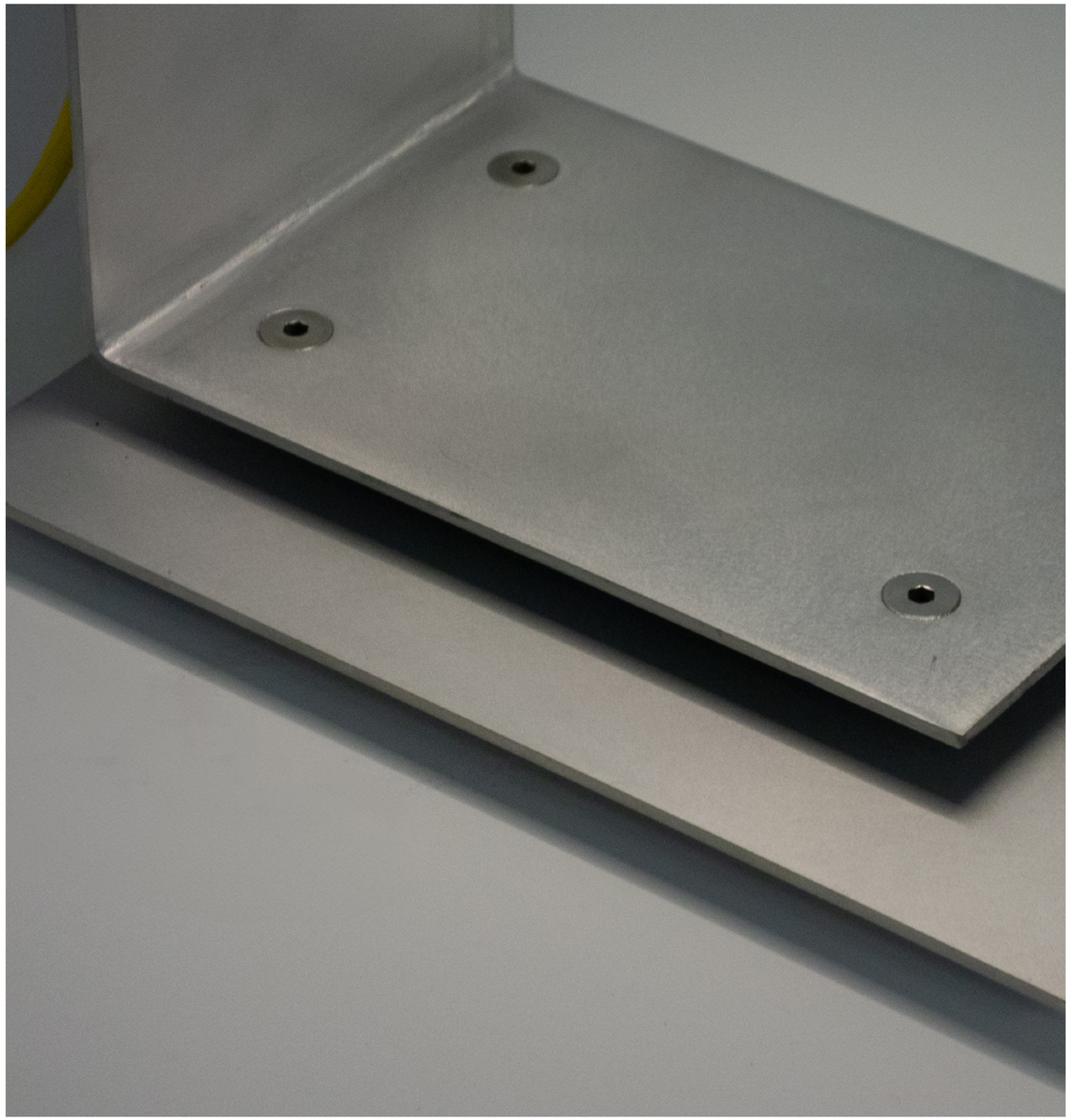
LC7 lamp - size: inch 9 x 5 3/4 x 7 - cm 22.9 x 14.6 x 17.8

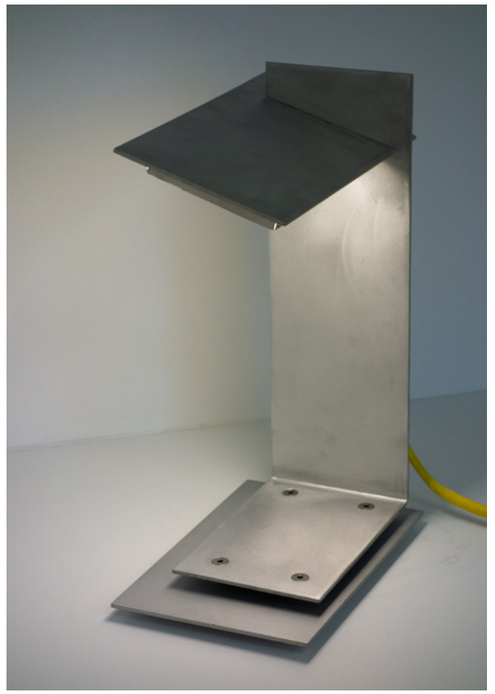
asymmetric construction places visual interest on base of lamp, where the asymmetry is contrasted by the uniform arrangement of the countersunk stainless steel hardware, void in between lamp body and base panel create shadows as subdominant details

Aluminum sheet, 1/8” thickness, 3 piece construction

colored heatshrink wrap protects exposed power cord, 3/8" tall aluminum feet machined from 1/2" diameter 6061 rod, 1/4-20 threads tapped in all four bottom spacers , to affix bent lamp body to oversized base plate

project duration 5 weeks



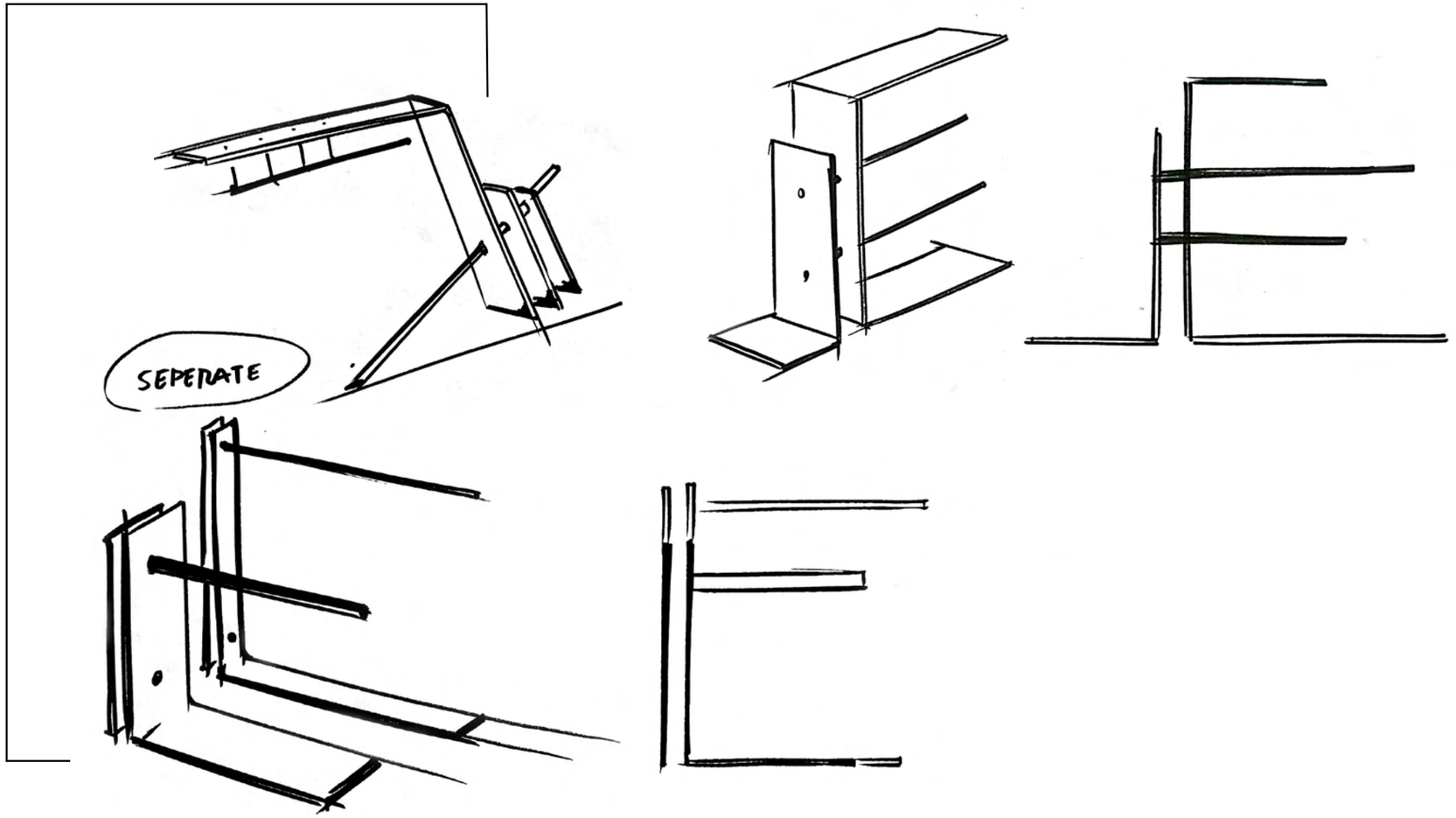


(x8) countersunk stainless steel hardware 1/4 28 x 3/4 inch
(x4) aluminum spacer 1/2 x 3/4 inch

PVA-09

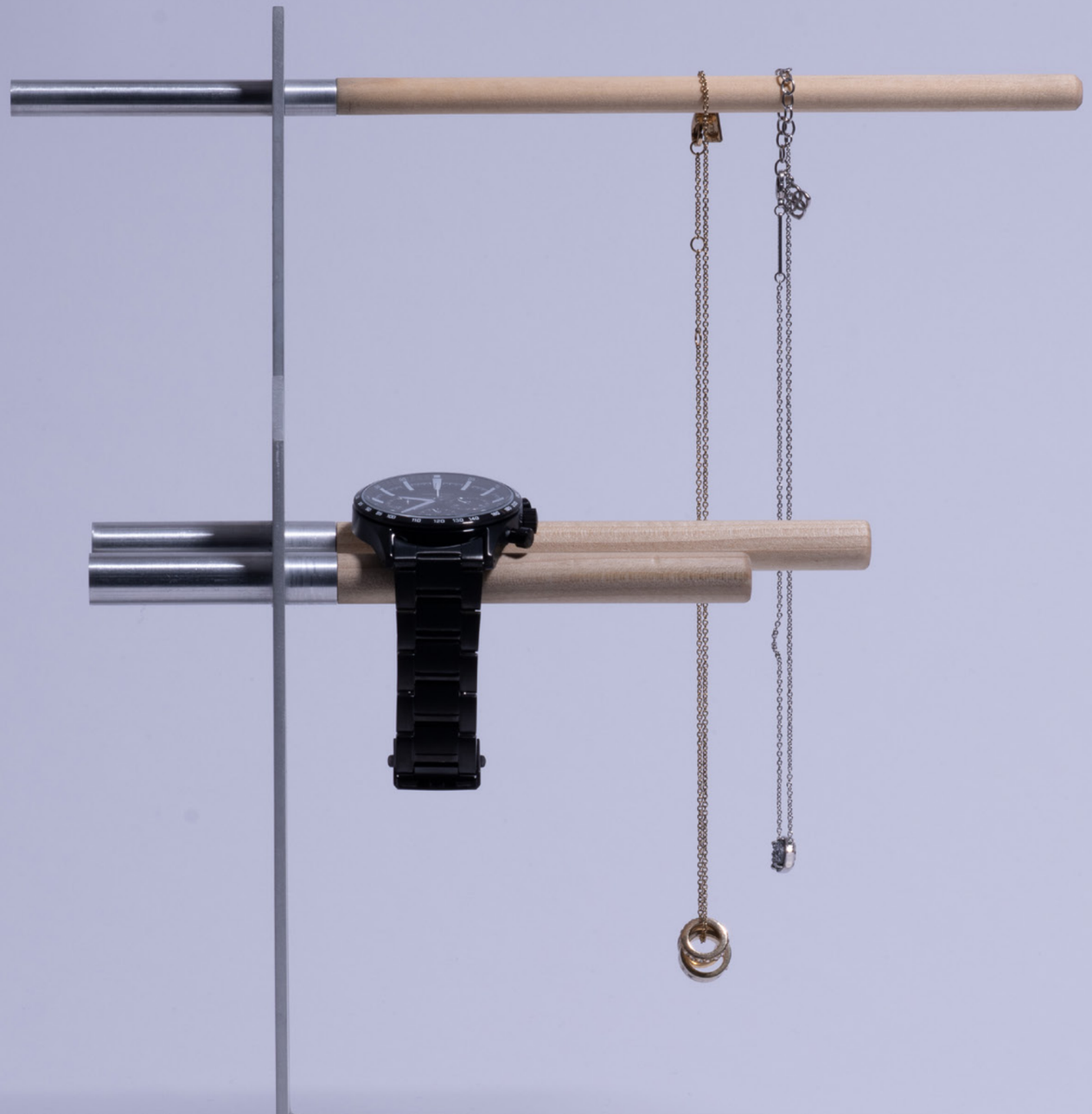
jewelry hanger fabricated from aluminum, using an array of poplar dowels to support pieces of all sizes, designed in parallel with the LC-7 lamp

07



staying true to fabrication language used for LC-7 lighting, balancing designs to not subtract from prominence of jewelry on display, concepts focusing on intersections of cylinders and planes

Selected Hand Sketches

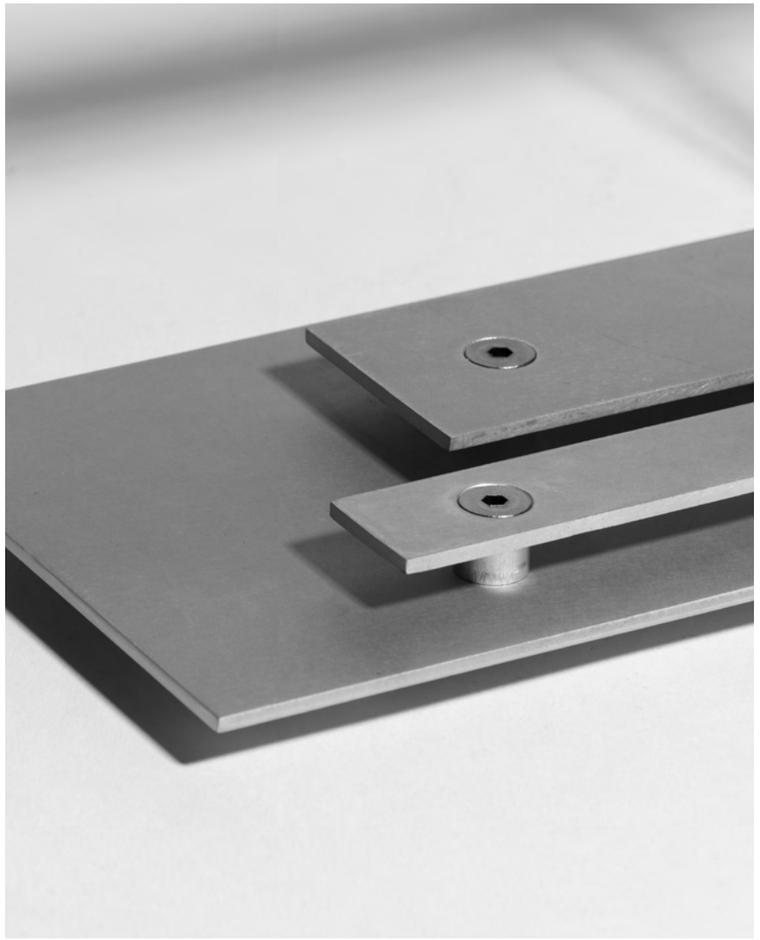


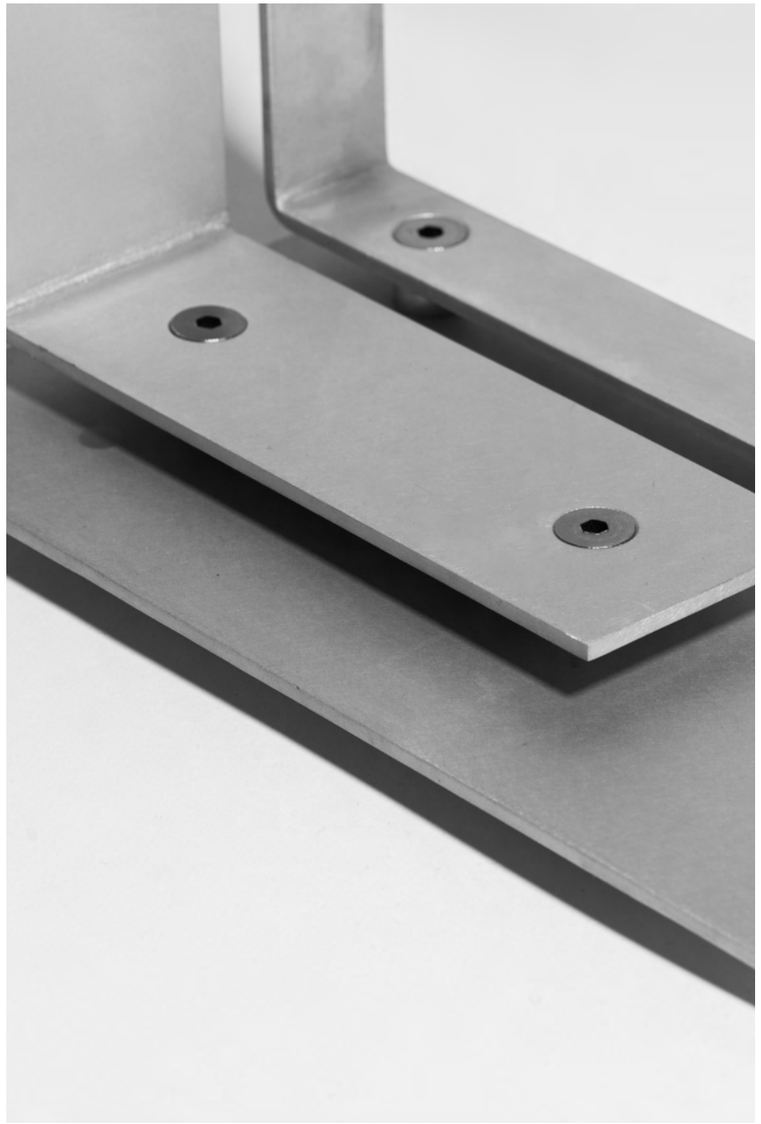
3 dowel array sets apart visual mass of each jewelry piece, lower dowels cradle watches, slightly angled to display face, upper bar set at 11 for pendant of necklaces to hang just above base plate

PVA-09 Jewelry Hanger - size: inch 9 x 5 x 13 - cm: 22.9 x 12.7 x 33

seamless aluminum rivets sanded flush connect feet to baseplate, elavating jewelry hanger 3/8" off the ground, an array of four 1/4 28 x 3/4" stainless steel bolts fasten watch and necklace pieces to baseplate, watch and necklace offset to differentiate function of each piece of bent aluminum

1/8 Inch Alumninum Sheet, Stainless Hardware, and Poplar Dowels

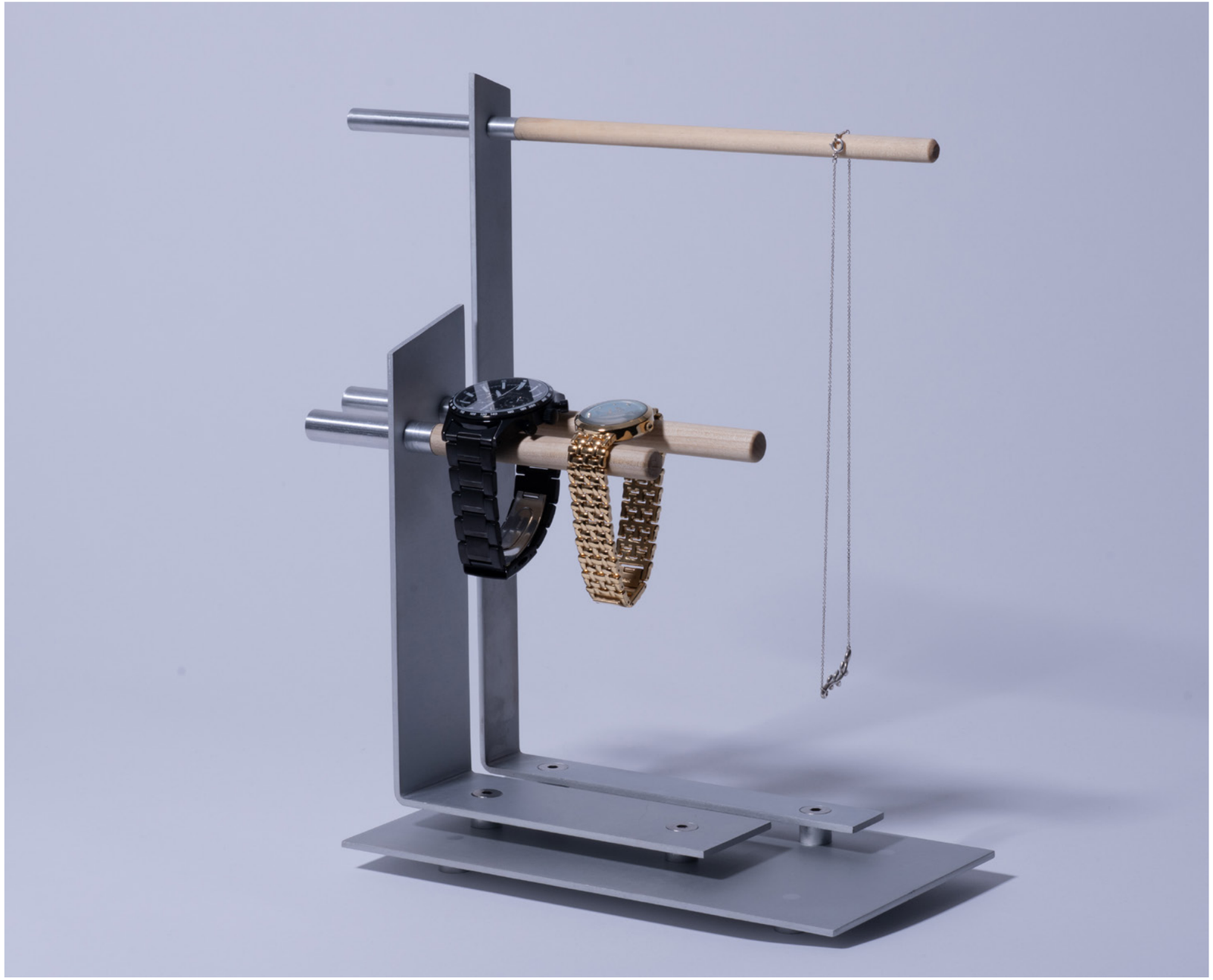




(x4) 1 1/4 inch length stainless steel bolts
(x4) 3/8 x 1/2 in diameter aluminum spacers

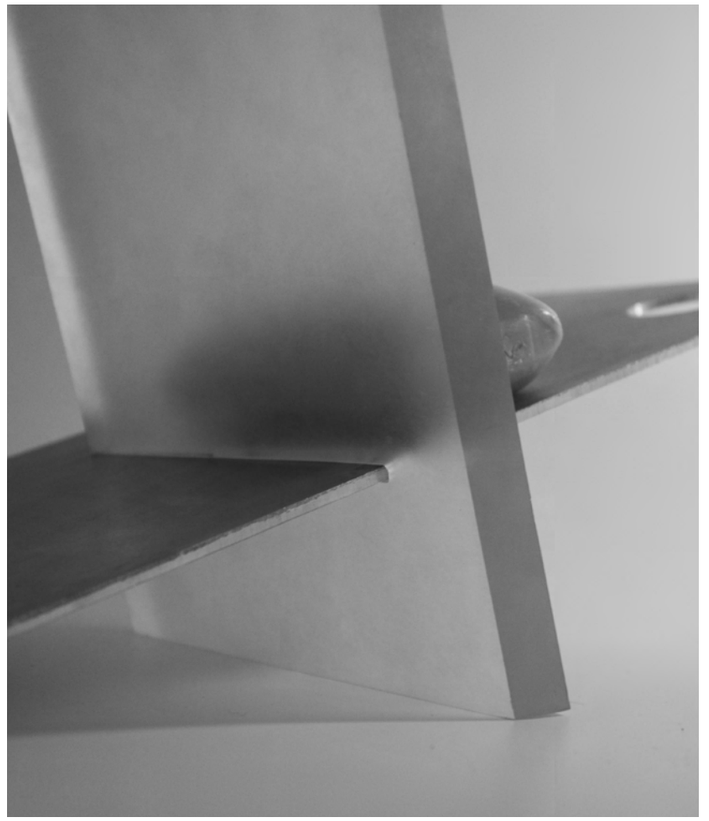
{x1) 1/8 inch diameter Aluminum rod threaded
(x2) 1/2 inch diameter Aluminum rod threaded

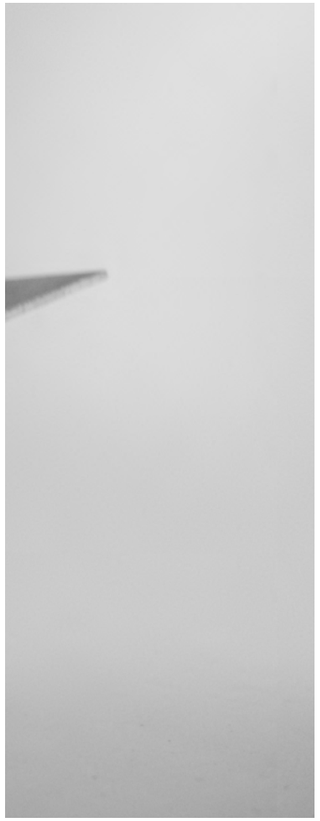
project duration 5 weeks



visual hierarchy created via differing heights of display bars, lower bars intended to cradle watch bodies, upper bar for lighter and longer jewelry such as necklaces

08

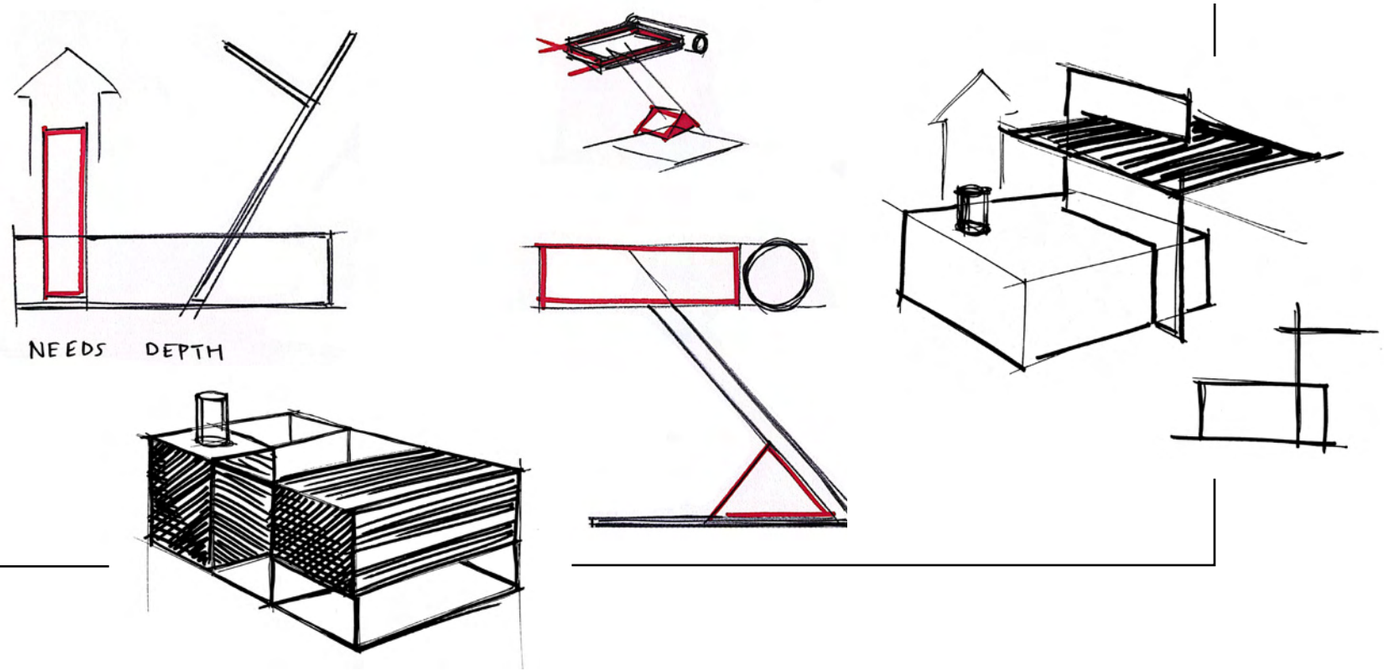


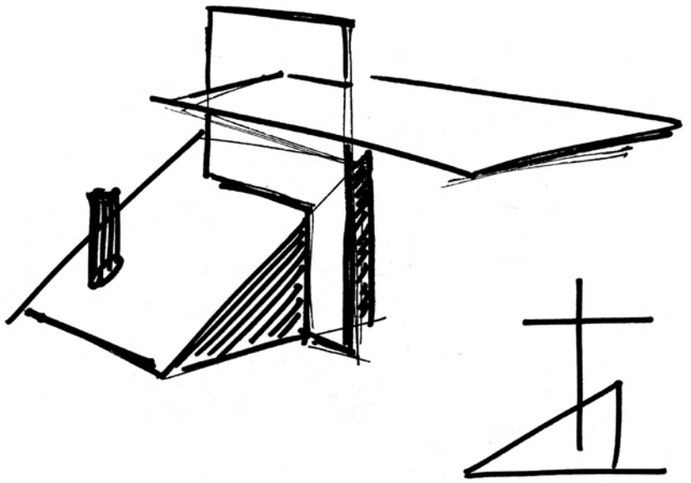


designed to be the antithesis of wasteful and cyclical contemporary product design, semi-functional as soap dish and tootbrush capsule, furthering my visual understanding of material interaction

INHIBITION

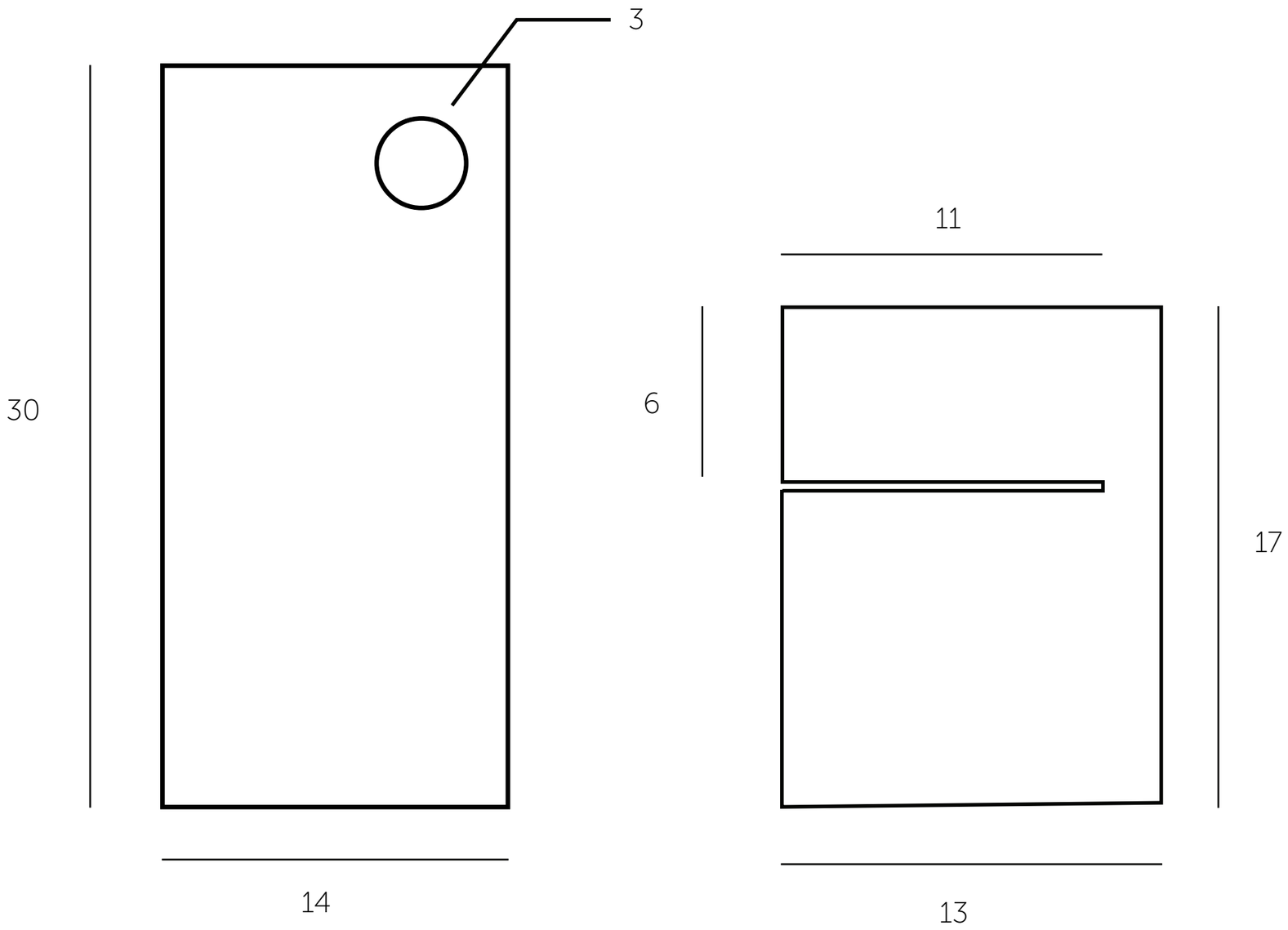
Hogeschool-West Vlanderen | 6 weeks



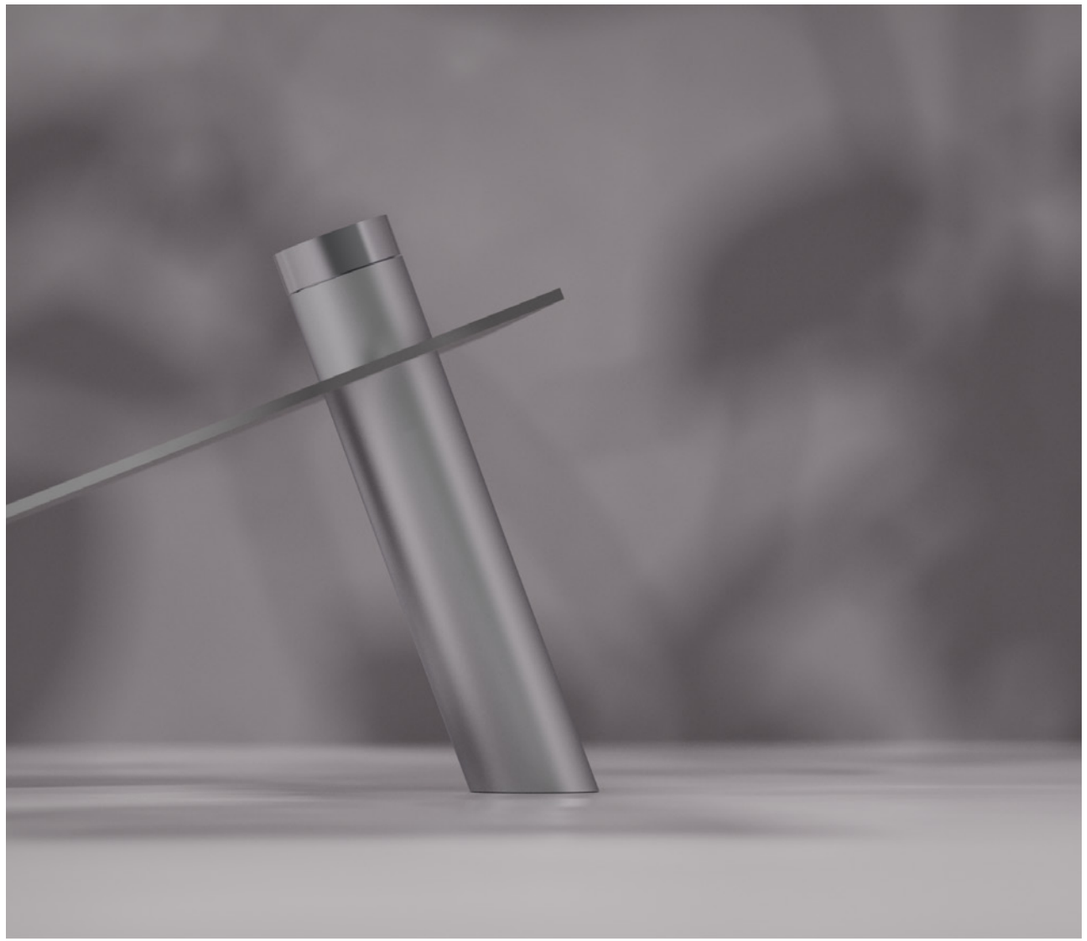


sketches focusing on contrast between imbalanced shapes, attempting to create a cohesive form without symmetry, incorporating slotted joinery

left, 3 mm thick aluminum sheet, 3 cm diameter through hole
right, 1.5 cm thick acryllic block, notch cut 3 mm wide



inch 6.3 x 1.2 Ø - cm 16 x 3 Ø



CAPSULE

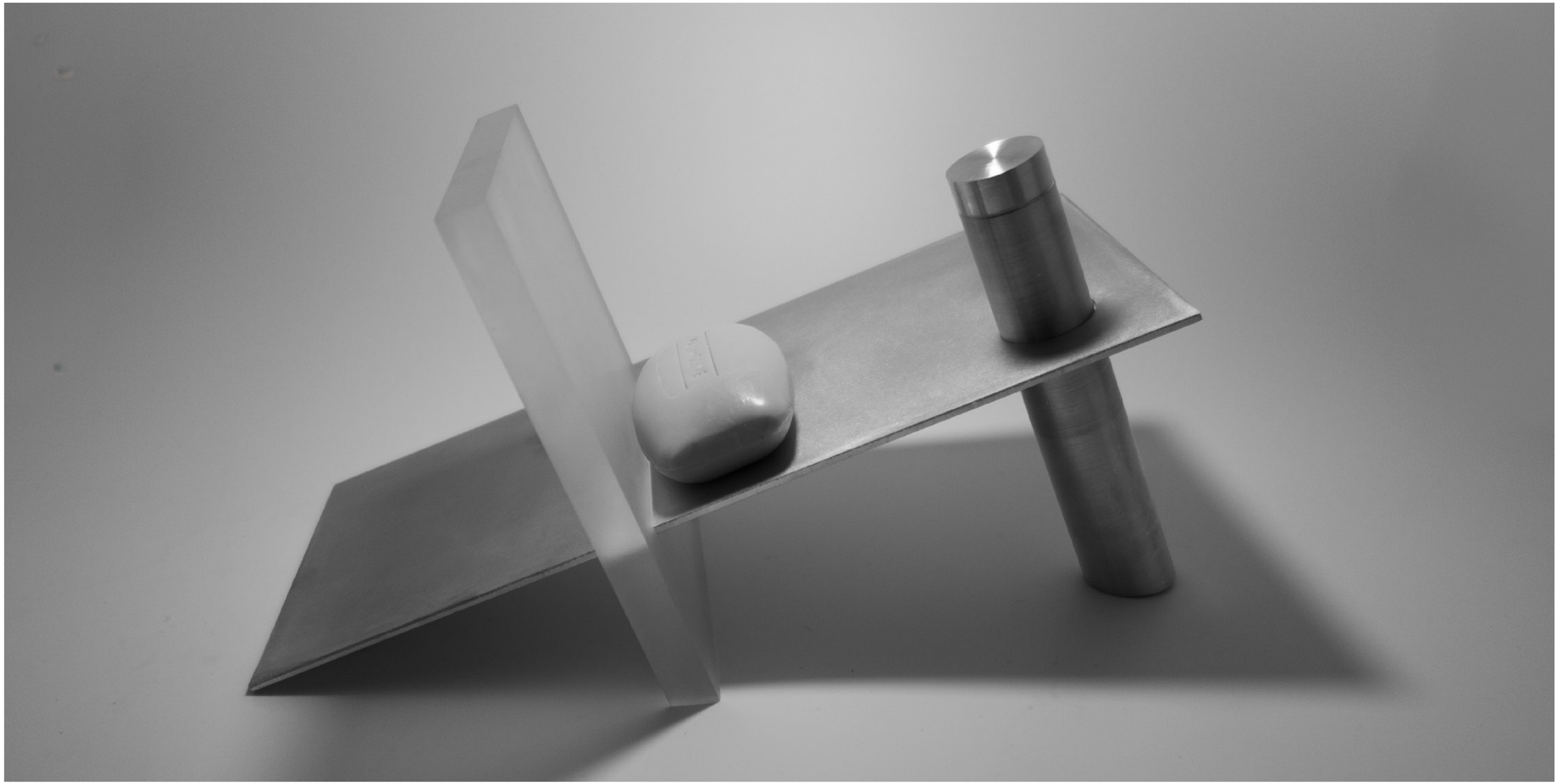
two part cylindrical aluminum capsule, threaded cap,
angled base, nests through 3 cm hole in aluminum sheet

toothbrush capsule, exploded view

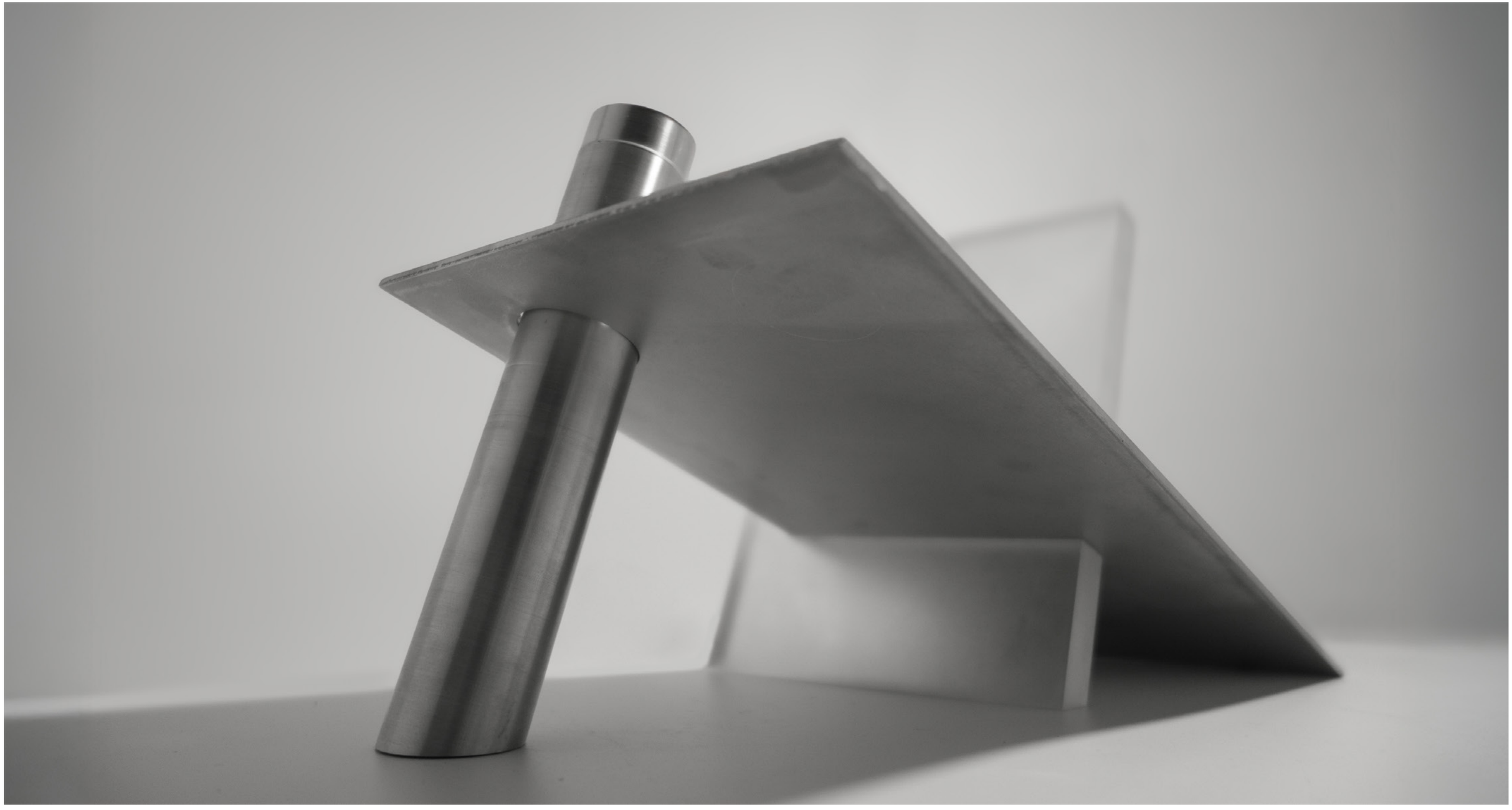
TOOTHBRUSH

10 mm diameter bamboo shaft, 22 degree angle cut at bottom to match profile of capsule, disposable brush

serving as a study in proportion and material relationship, serendipitously functioning
as a durable soap dish, fabricated by hand using band saw, metal lathe and metal break

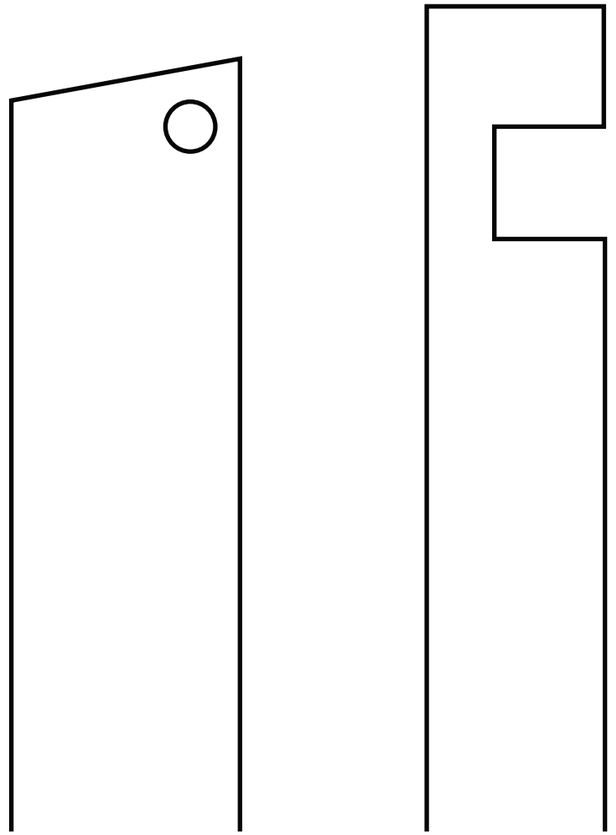


INHIBITION - size: inch 13 x 6 x 6 3/4 - cm 33 x 15.2 x 17.1



PROPORTION

an exploration of personal values as a designer, bottle opener and corkscrew that embodies both my design and fabrication language, digital project

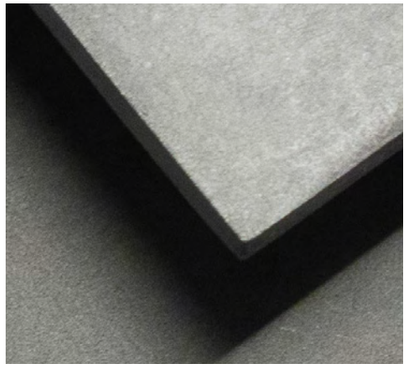


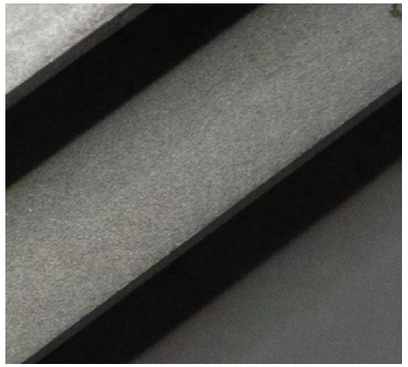
09

Hogeschool-West Vlanderen | 3 weeks

Hogeschool-West Vlanderen | 3 weeks

individuality is what differientiates intentional design from the marsh of AI slop, to create intentional design, one must be entirely cognisent of their personal values, aesthetically and in fabrication methods, only when one understands these values, can they be manipulated, these values will evolve with time





FUNCTIONAL

design must function while retaining unique qualities

CONTRAST

essential in creating design that retains the viewers interest

PRECISION

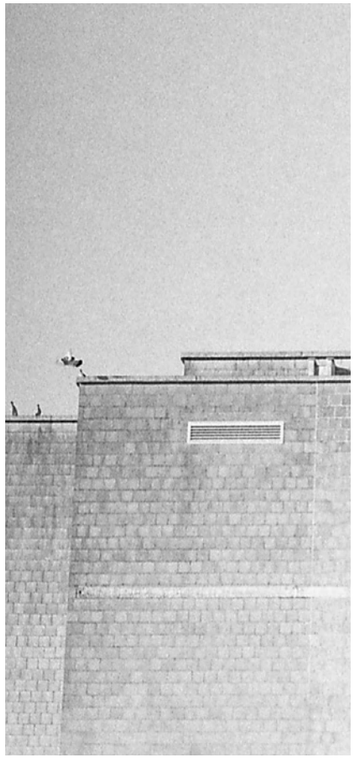
creates value in objects without relying on materiality

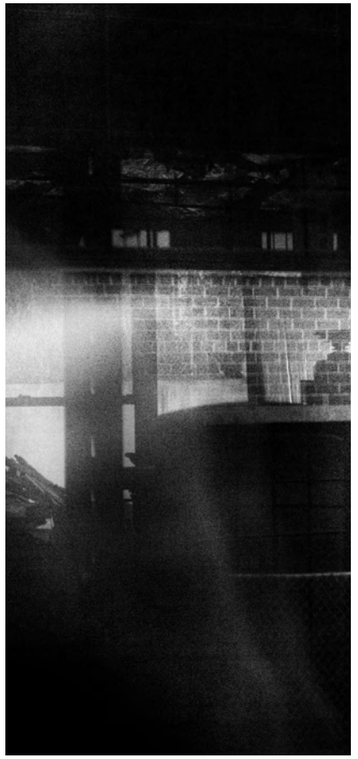
TRUTH

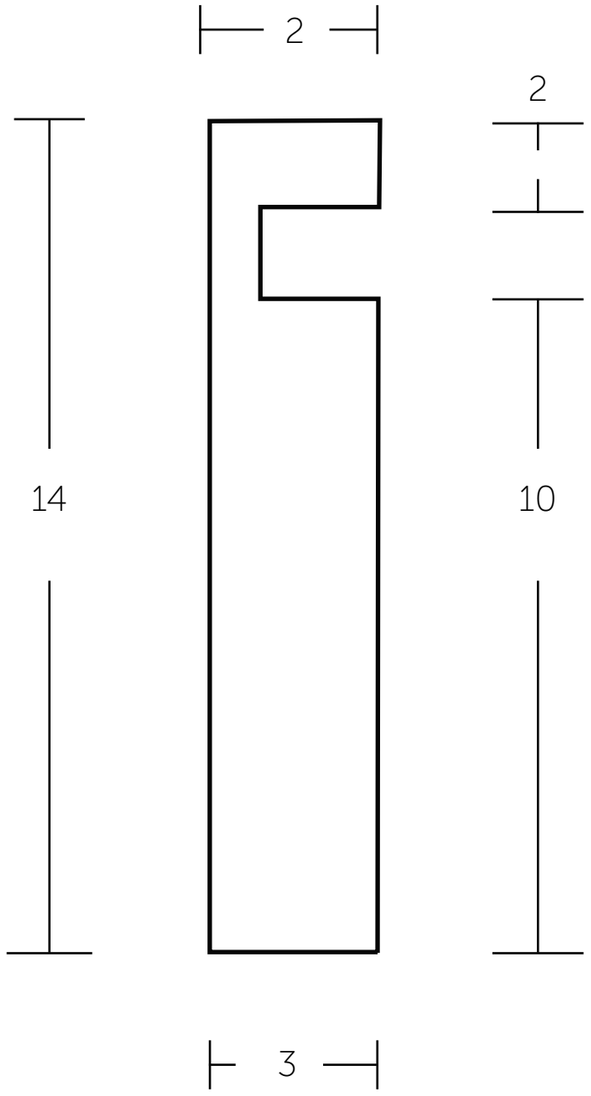
design must stay true to identity in every process

FILM AND SKETCHING

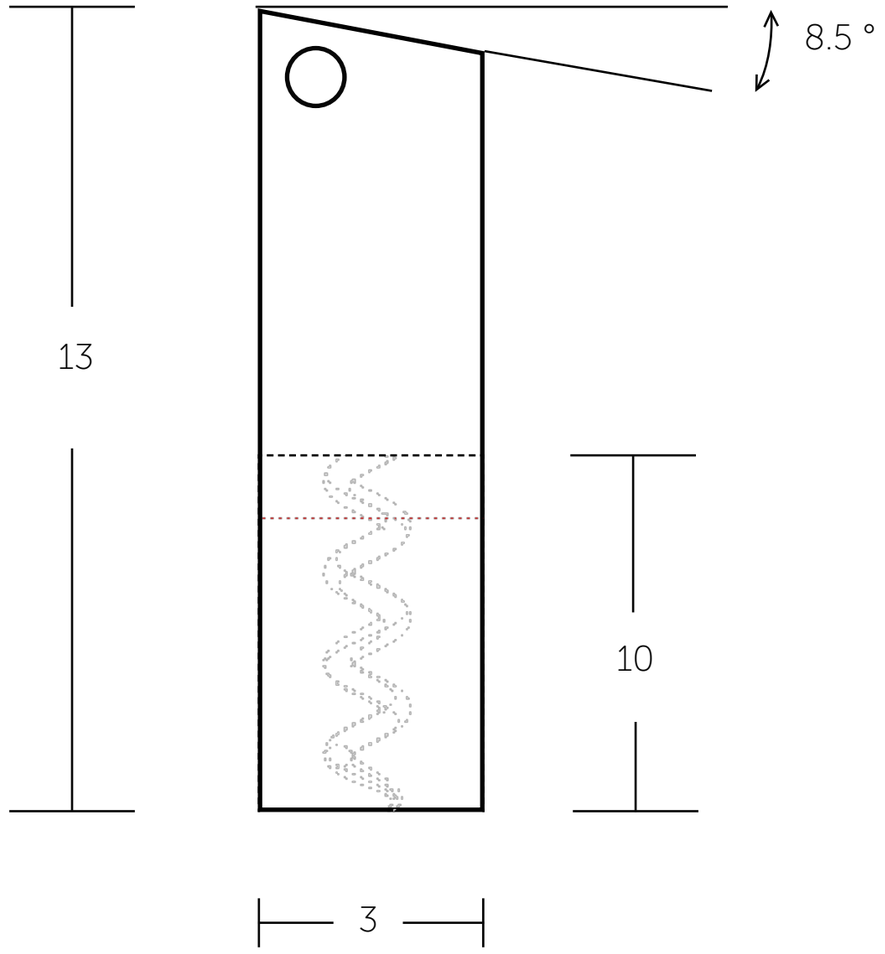
from my time in Kortrijk, furthering my understanding of self and values, attempting to understand subconscious values







not to scale



CONTRAST

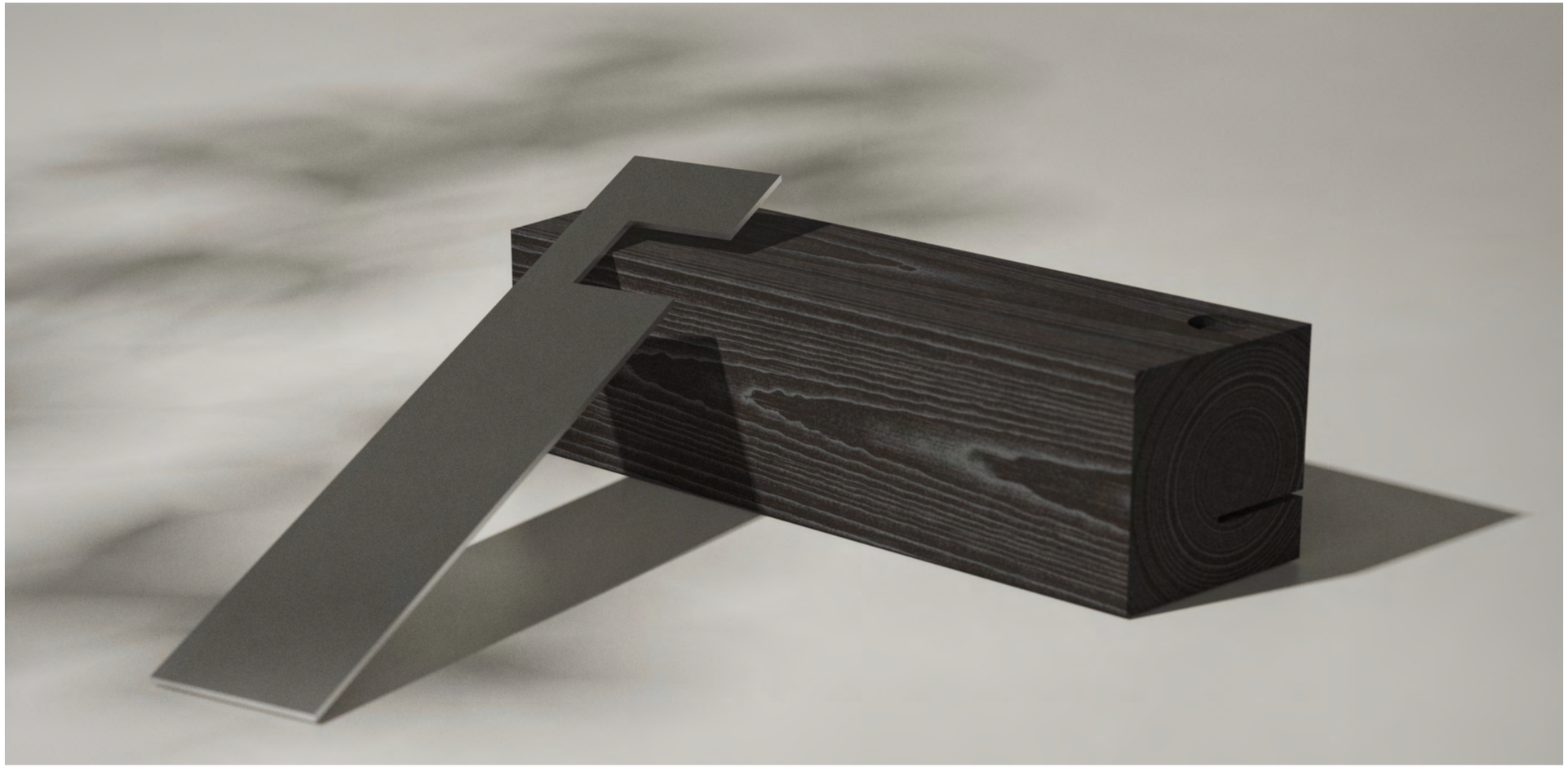
via material, bottle opener from 2.5 mm stamped steel, corkscrew ripped from 4 cm thick maple plank

RAW MAPLE FINISH

3 cm diameter hole allows corkscrew to fit over most bottles, steel corkscrew hidden in solid maple block, bottle opener must be removed for operation

SLOTTED BLOCK

allows for seamless addition of steel bottle opener
without any external fastening mechanisms



VARIATION

black dyed white oak / dark walnut / maple