



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA



TRABAJO FINAL DE GRADO

Ingeniería en Diseño Industrial y Desarrollo de Productos

DISEÑO INDUSTRIAL APLICADO A MOBILIARIO, INTERIORISMO Y GRAFISMO

Beatriz Macián Pérez
Valencia, Junio 2017
ETSID (UPV)

ÍNDICE DE ASIGNATURAS

- **COMFORT (FURN 2003):**

Diseño de un asiento multifuncional realizado con madera de haya curvada.

- **FLEXIBLE LIVING (FURN 2001):**

Diseño de una estación de trabajo flexible con dos posibles posiciones.

- **LIGHTING (FURN 2002):**

Diseño de una lámpara con una tapa troquelada que proyecta formas en el techo.

- **RETAIL (INTE 2002):**

Diseño del interior de una tienda de dos plantas de ropa y complementos.

- **PRODUCT VISUALISATION (PDVS 3411):**

Realización de dos proyectos de maquetación con Adobe In Design.

COMFORT

FURN 2003



FINAL RESOLUTION

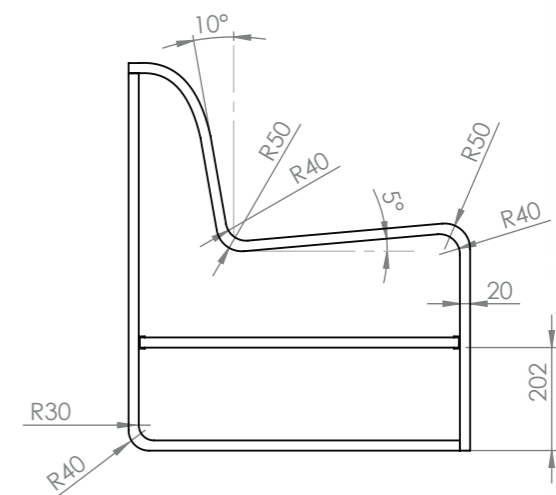
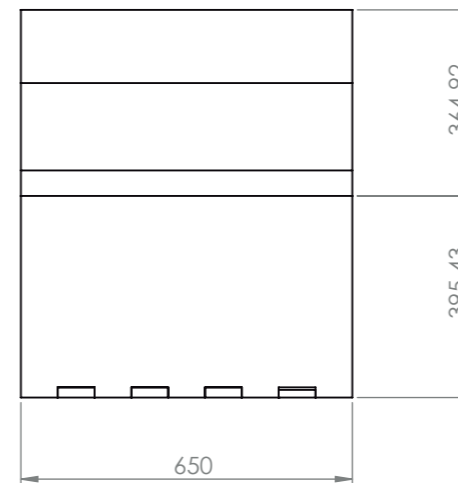
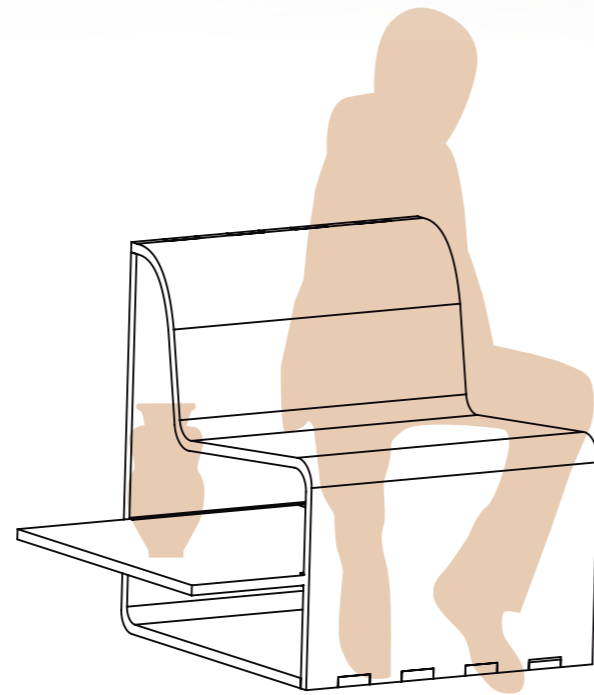
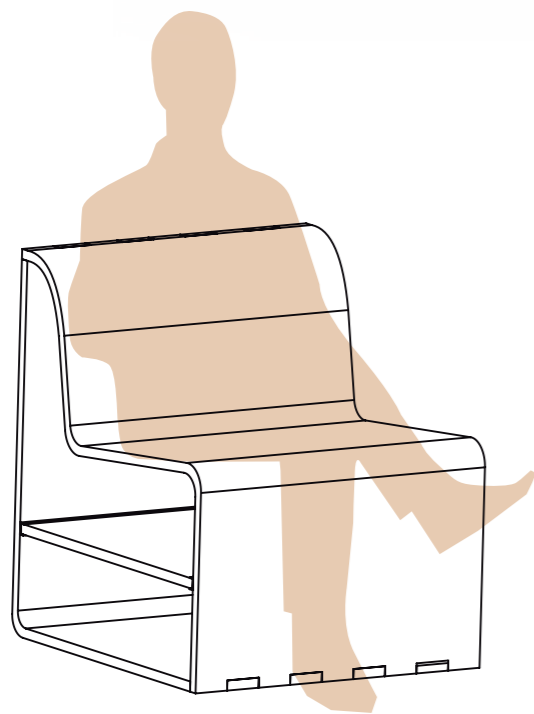
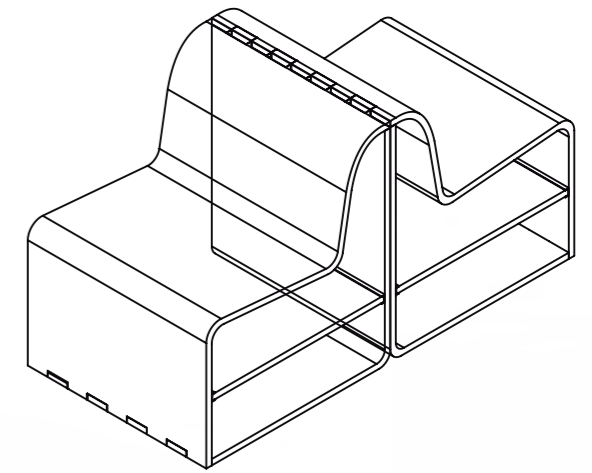
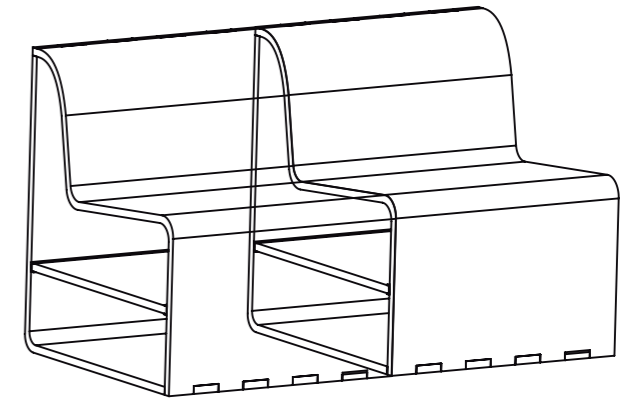
MILOS

MILOS

comfort

MILOS is a multifunctional and modular seating that allows you to relax.

It has an interior board, becoming a table when you can put books, magazines, or any other object, and it can also act as shelf to storage different objects. Apart from being an individual seating it can be also collective with the addition to another module, allowing also to create different combinations.



measures in mm

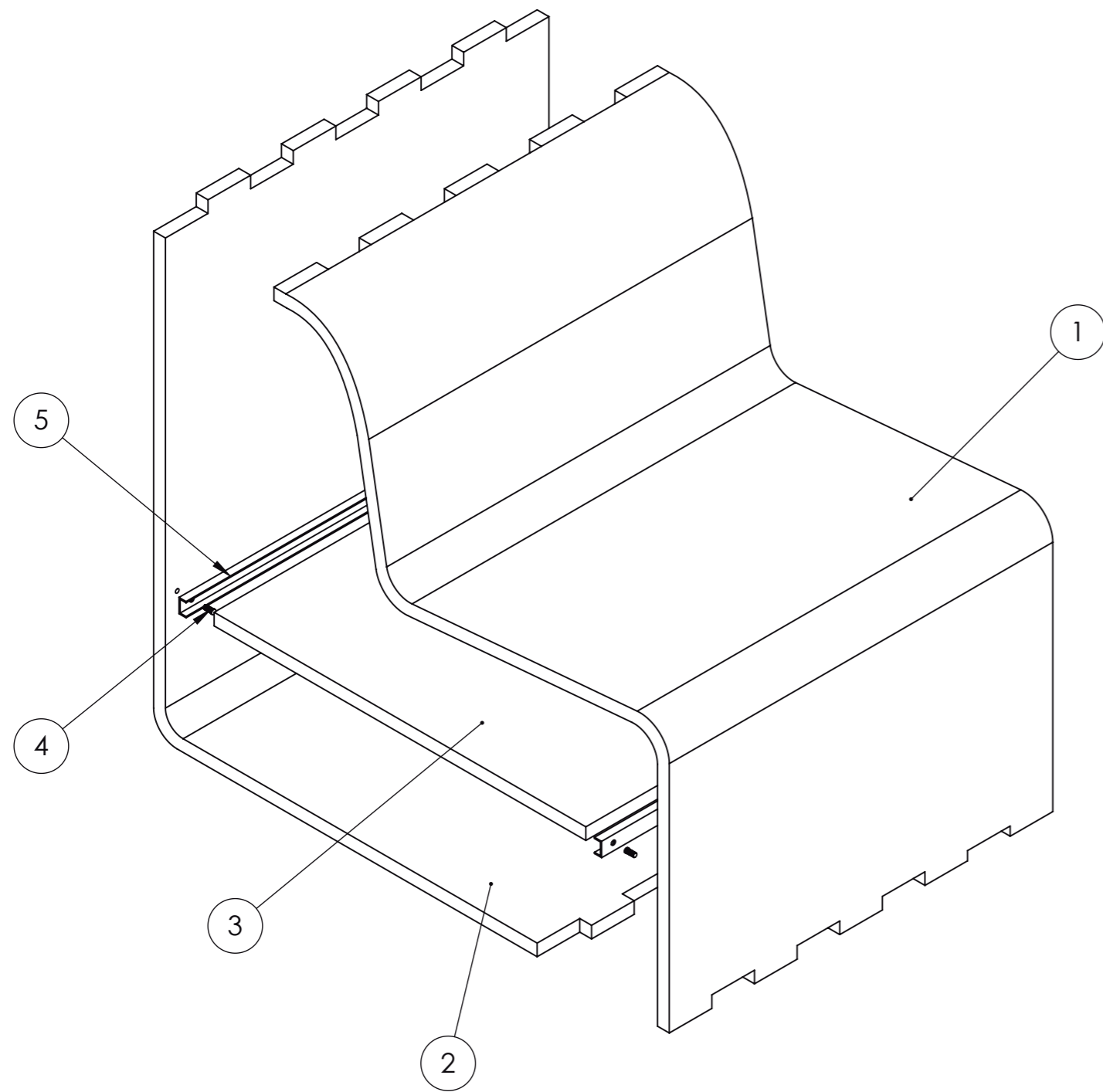






PLANS

MILOS

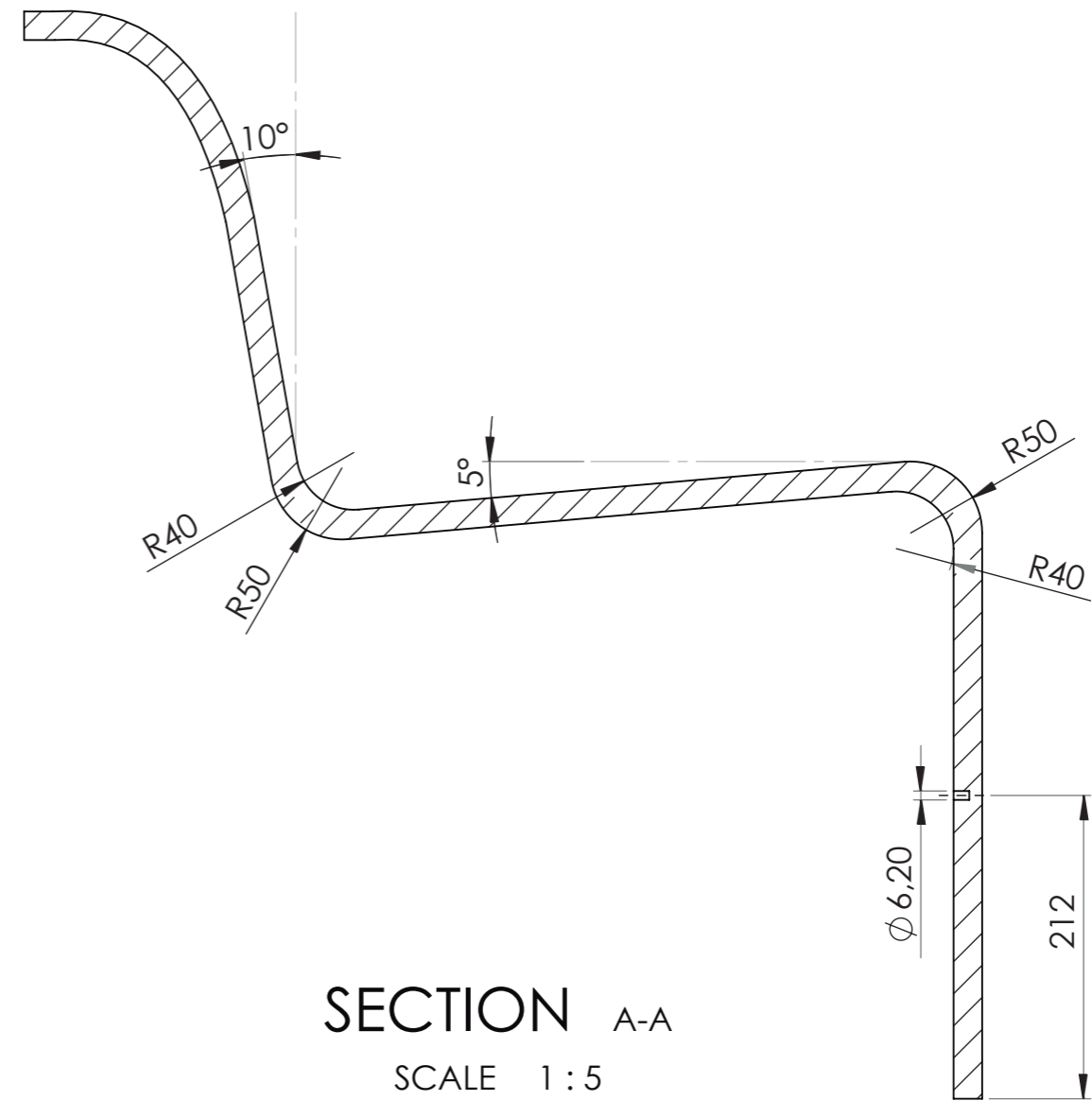
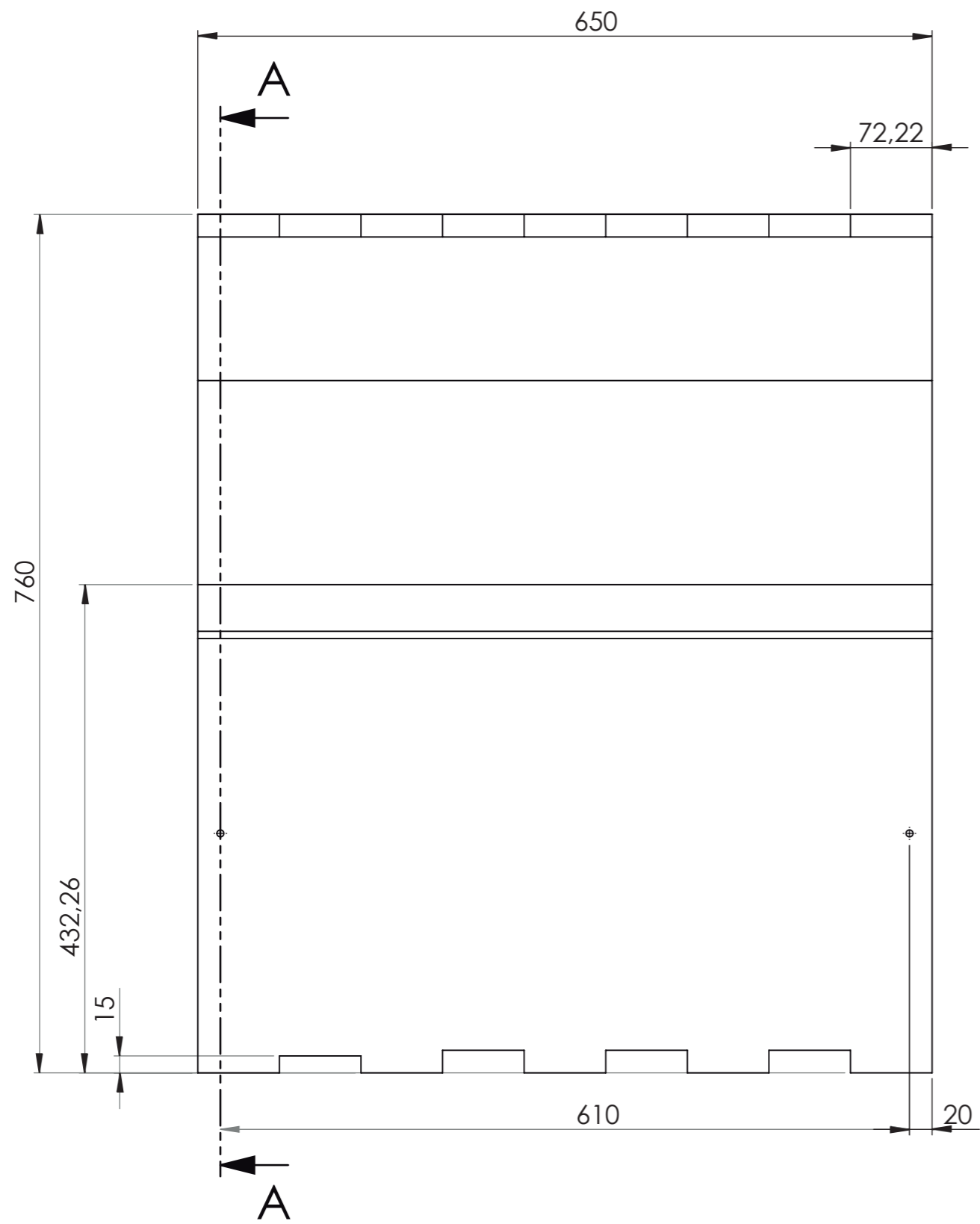


5	Metallic guide	2	Steel
4	Bolt	4	Beech
3	Shelf	1	Beech
2	Left piece	1	Plie wood (beech)
1	Right piece	1	Plie wood (beech)
Number	Pieces	Quantity	Material

AUTOR:	BEATRIZ MACIÁN PÉREZ	COMFORT - DIT
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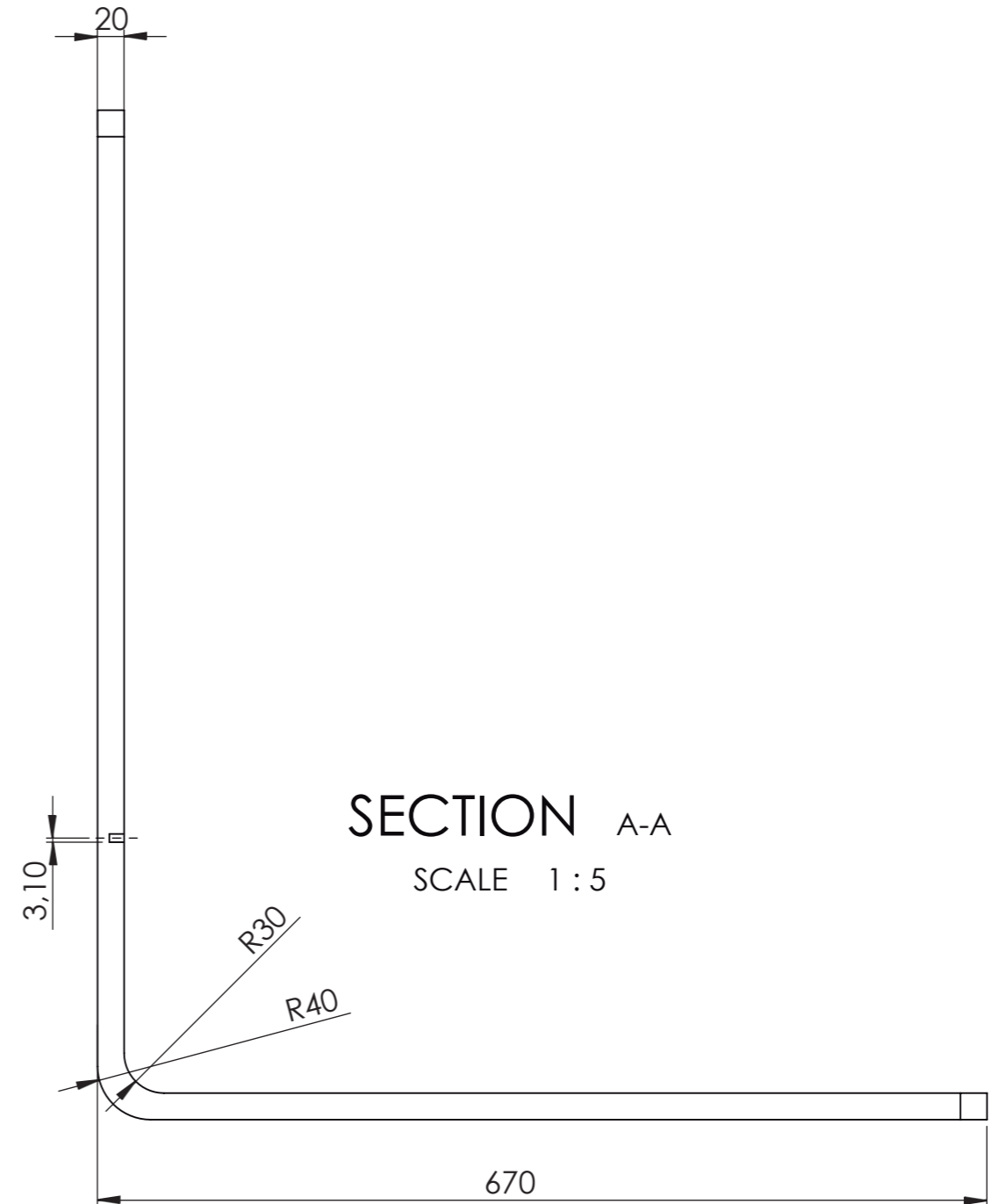
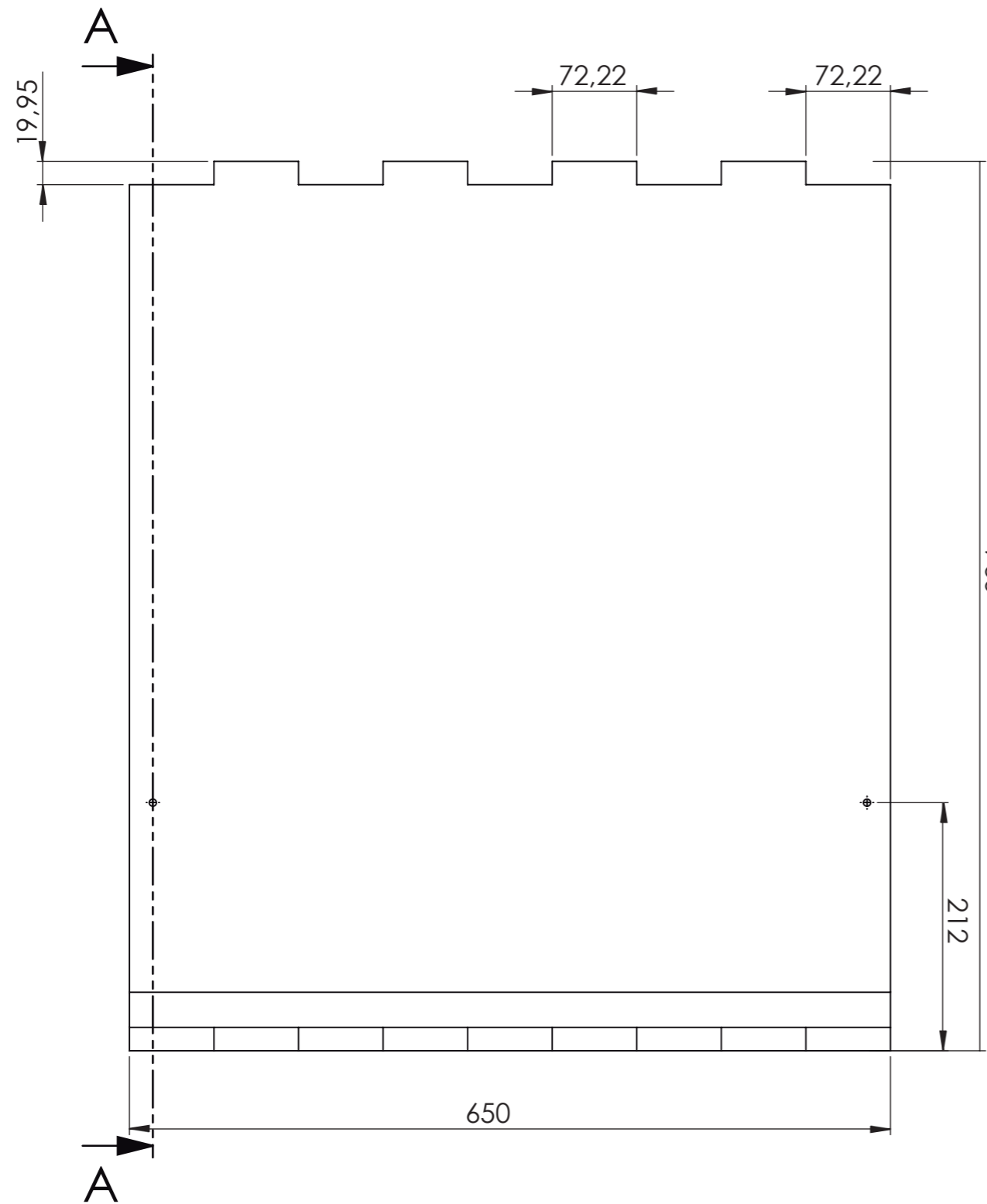
ASSEMBLY	PLAN Nº 1
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SCALE 1:7	MILOS	
mm		



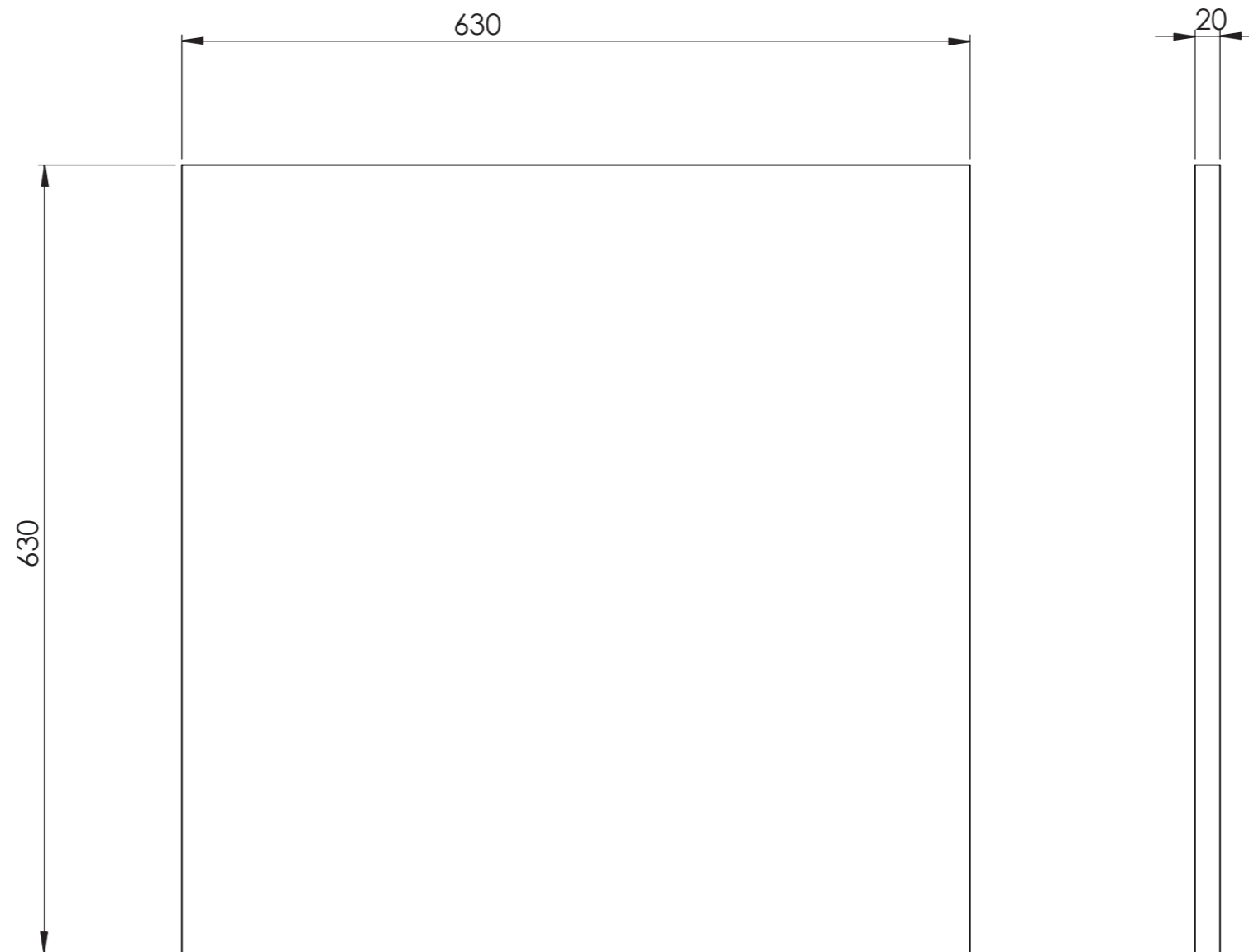
OBSERVATIONS: It has been used a Varnish for Interiors and Furniture, to give colour to the wood and make it different from the shelf

AUTOR:		COMFORT - DIT	
BEATRIZ MACIÁN PÉREZ			
RIGHT PIECE		PLAN Nº 2	
SCALE:	MILOS		PIECE Nº: 1
1:5			QUANTITY: 1

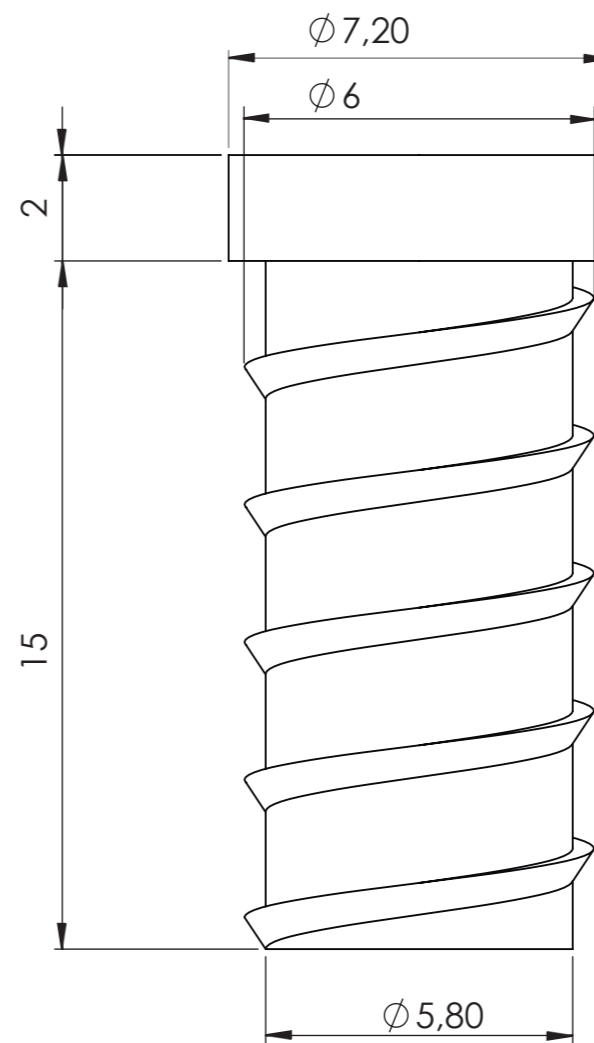
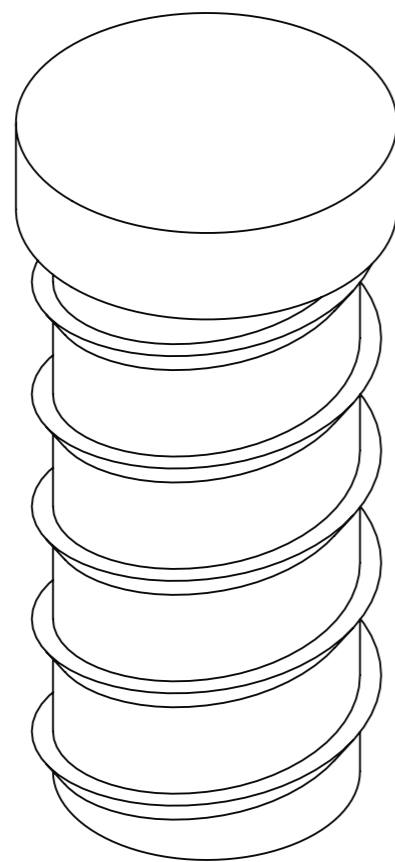


SECTION A-A
SCALE 1:5

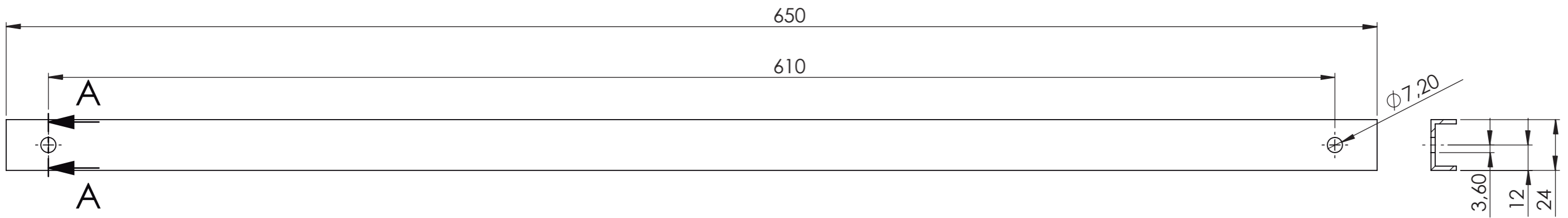
OBSERVATIONS: It has been used a Varnish for Interiors and Furniture, to give colour to the wood and make it different from the shelf		
AUTOR: BEATRIZ MACIÁN PÉREZ		COMFORT - DIT
LEFT PIECE		PLAN Nº 3
SCALE: 1:5	MILOS	PIECE Nº: 2
		QUANTITY: 1



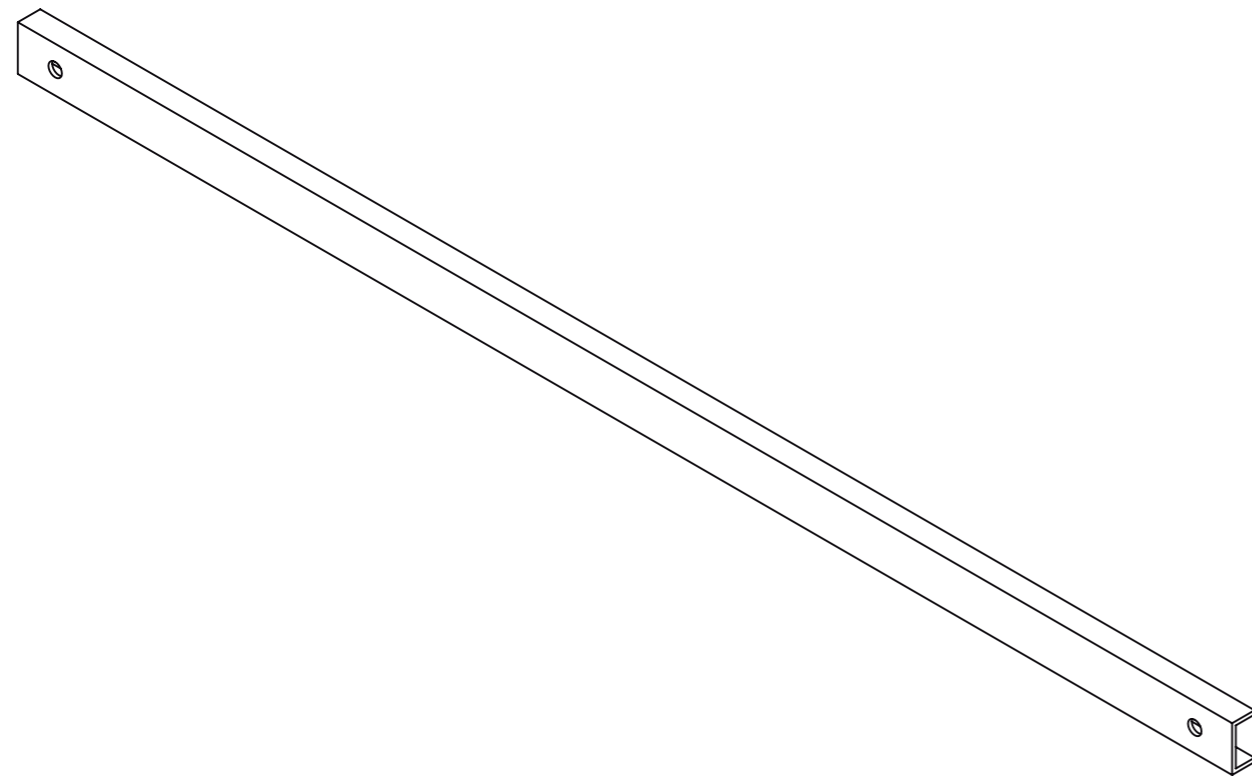
AUTOR: BEATRIZ MACIÁN PÉREZ		COMFORT - DIT	
SHELF		PLAN N° 4	
SCALE: 1:5	MILOS		PIECE N°: 3
			QUANTITY: 1



BEATRIZ MACIÁN PÉREZ		COMFORT - DIT	
BOLT		PLAN N° 5	
SCALE: 7:1	MILOS		PIECE N°: 4
			QUANTITY: 4



SECTION A-A
SCALE 1 : 2



OBSERVATIONS: It has been used a Metallic guide from Hafële catalogue (Accuride 9301 extra heavy duty runner, full extension, bright finish)

BEATRIZ MACIÁN PÉREZ		COMFORT - DIT	
METALLIC GUIDE		PLAN Nº 5	
SCALE: 1:2	MILOS		PIECE Nº: 5
			QUANTITY: 2



ADDITIONAL COMPONENTS

MILOS

VARNISH

This Varnish has been applied in the two parts that make up the main structure of the seat. The purpose of that is to difference it from the shelf and make a combination of colour, but respecting the original wood vein.

RONSEAL DOES EXACTLY WHAT IT SAYS ON THE TIN



GARDEN PRODUCTS



HOME PRODUCTS



#RONSEALTHEWEEKEND

CONTACT

BLOG

WHERE TO BUY

HOME : HOME PRODUCTS : INTERIOR WOOD AND FURNITURE : RONSEAL INTERIOR VARNISH

INTERIOR VARNISH

Our Interior Varnish gives great protection against knocks, scuffs and scratches. It's suitable for use on high wear areas such as wooden dining tables and skirting. It gives wood a richer colour and comes in gloss, satin or matt finishes. We have traditional wood colours or softer tones, if you want something different.

PRODUCT DETAILS

- It's easy to use - just apply with a brush
- Dries in just 20 minutes
- Diamond Hard protection

15 COLOURS AVAILABLE



DARK OAK -
GLOSS, SATIN
& MATT



MEDIUM OAK
- GLOSS,
SATIN & MATT



ANTIQUÉ PINE
- GLOSS,
SATIN & MATT



LIGHT OAK -
SATIN



TEAK - GLOSS
& SATIN



WALNUT -
GLOSS &



DEEP
MAHOGANY -



BEECH - SATIN
& MATT



FRENCH OAK -
SATIN





ASH - SATIN



METALLIC GUIDE

The mettalic guide that has been selected for the displacement of the wooden board is one of Häfele catalogue. This is a Ball Bearing Drawer runner and it is very resistant. In the catalogue there are a huge variety of dimensiones of this model.

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HÄFELE  Telephone **01 287 3488**  **Basket**
Total: €0.00
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[Home](#) > [Runners and Accessories](#) > [Drawer Runners](#) > [Ball Bearing Drawer Runners](#) > [Accuride](#)



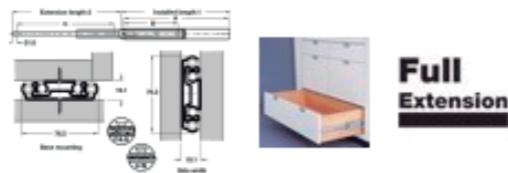
Accuride 9301 extra heavy duty runner, full extension, corrosion resistant finish

- Can be side mounted or base and top mounted for use as a pull out storage unit
- M6 hexagonal head screw can be used with these runners
- Load carrying capacity upto 227 kg - (see each individual runner capacity)
- Bright zinc-plated steel
- *Corrosion resistant for harsh enviroments, 8 times more protection than regular zinc finishes, stainless steel ball retainer, ball bearings and rivets
- Please note: Weights limit per pair based on length, weight limits reduce by 80% if base mounted
- For full illustrations and dimensions please see PDF Page

Contact us:

Contact Sales Team
Tel: 01 287 3488

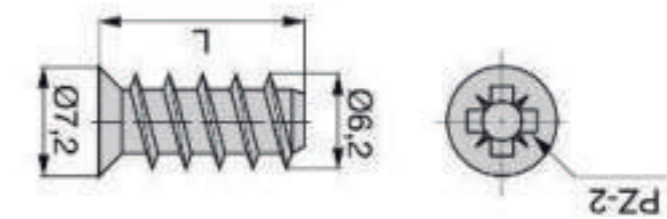
Share:




BOLT

It has been selected Flat Head Pozi Drive Euro Screws, with a length of 13 mm. They had been used to screw the metal guide to the main base of the seating.

The screenshot shows the emuca website interface. At the top left is the emuca logo with the tagline 'vida en los muebles'. Navigation links include PRODUCTOS, NOVEDADES, AMBIENTES, and SOPORTE TÉCNICO. A search bar is located at the top right. Below the navigation is a breadcrumb trail: home / Productos / Sistemas de montaje, tornillos y tuercas / Tornillos y tuercas / Tornillos Euro / Tornillos Euro cabeza plana. A search bar contains the text 'Nombre, referencia o descripción'. Below this is a navigation bar with 'ANTERIOR', 'IR A LA SECCIÓN', and 'SIGUIENTE' buttons. The main content area features a large image of a blue Euro screw. To the right of the image, the product title 'Tornillos Euro cabeza plana' is displayed, followed by the category 'TORNILLOS EURO'. Below the title is a 'SOLICITAR INFORMACIÓN' button. Further down are four buttons: 'FICHA COMPLETA (PDF)', 'DOCUMENTACIÓN', 'PRODUCTOS RELACIONADOS', and 'CONFIGURADORES DE PRODUCTO'. At the bottom of this section are social media icons for email, Facebook, Twitter, LinkedIn, and Google+.



L		Cod.	Acabado
11	1000	6108505	Cincado
11	1000	6108507	Niquelado
13	1000	5123705	Cincado
13	1000	5123707	Niquelado



FABRICATION PROCESS

MILOS

RIGHT / LEFT PIECE

The two pieces that make up the main base of the seating are made of plywood, in particular, beech. Beech has a lot of flexibility, enormous tension, stiffness and deformability.

One of the companies that make this type of process is Becker, a German company that is one of the most important manufacturers of moulded wood worldwide.

The joint that has been used for the union between right and left piece is a dovetail joint. Both pieces are glued, so this union is very resistant.



[COMPANY](#)

[MOULDED WOOD](#)

[FORMFLEECE](#)

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[MOULDED WOOD](#)

[TOOLS OVERVIEW](#)

[BECKER KNOW-HOW](#)

MOULDED WOOD

THE EXCITING VARIETY OF A NATURAL DESIGN MATERIAL

Becker Brakel's production site is located next to the greatest beech wood growing area in the world. We process up to 20,000 cubic meters of beech wood every year. Beech is our most important and sustainable natural resource. Its never-ceasing flexibility, enormous tension, stiffness

and deformability make beech wood an outstanding and unique raw material. We have the knowhow and the corresponding pressing technology to realise extreme radiuses, unusually complex 3D deformations and minimal thickness.

FLEXIBLE LIVING

FURN 2001

A modern, minimalist workstation made of light-colored wood. It features a rectangular wooden frame with a pink upholstered seat. The seat is positioned on a lower level of the frame, and the text is centered on the upper part of the frame.

FINAL RESOLUTION

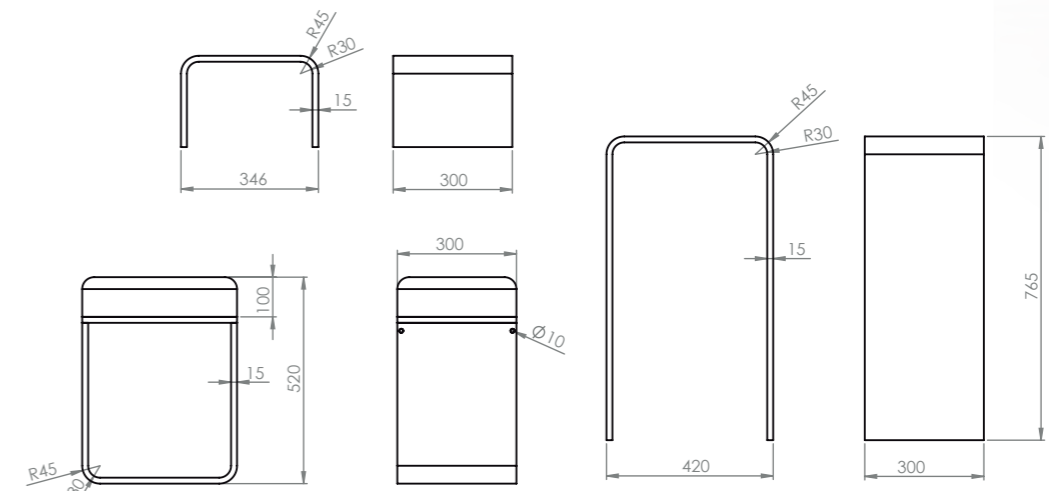
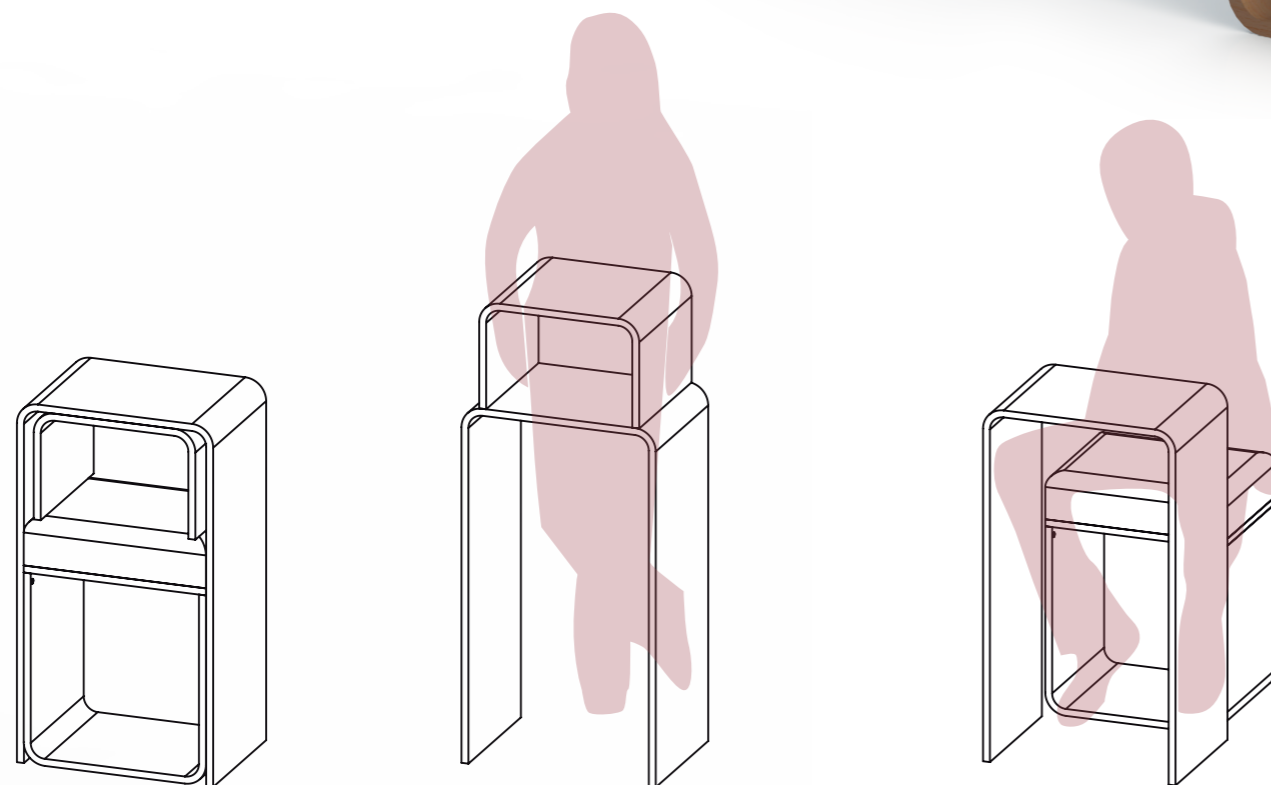
WORKSTATION

WORKSTATION

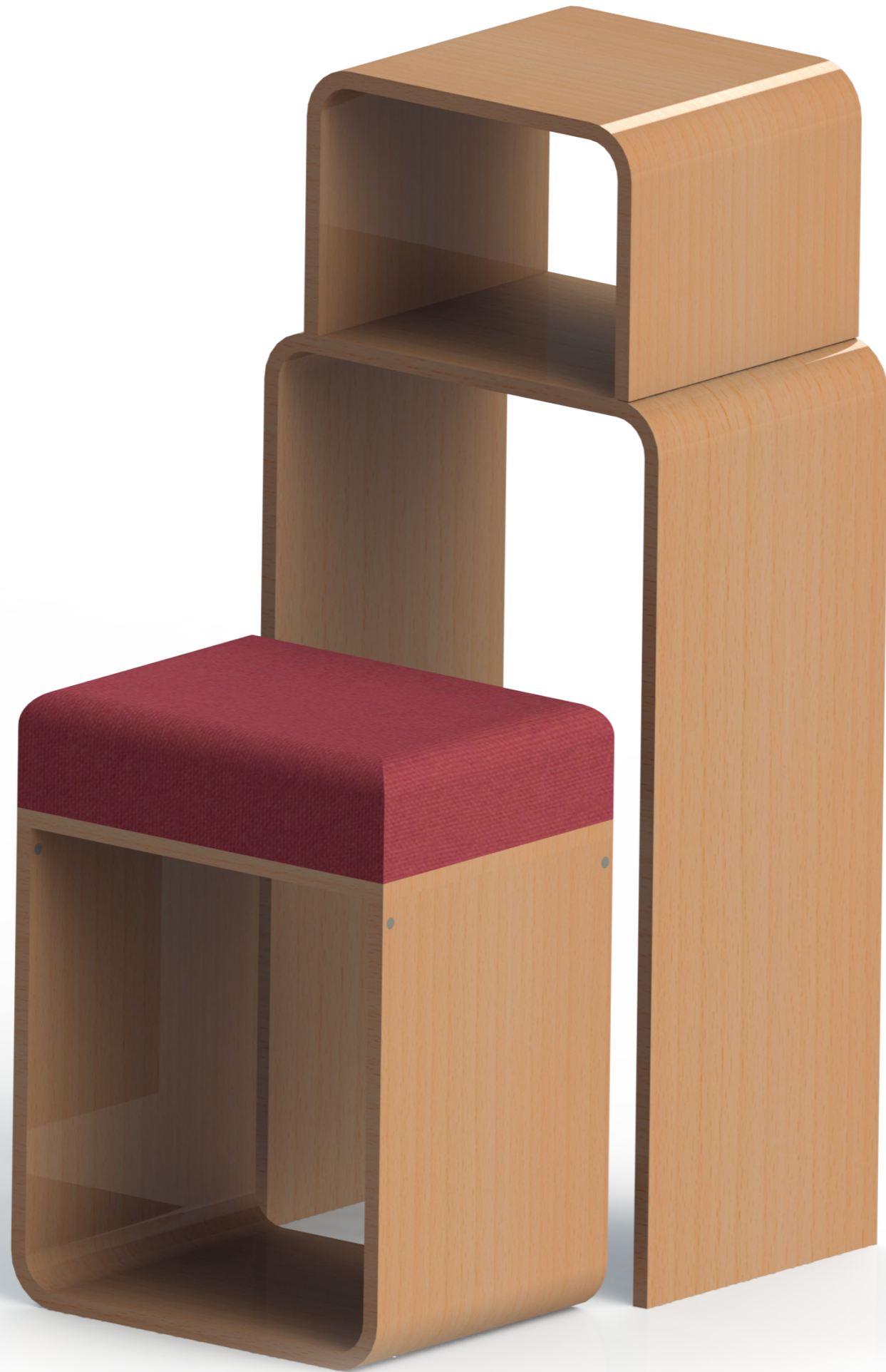
flexible living

WORKSTATION is a new form of working that adapts to you depending your necessities. Not everybody works in the same way or position all time, because of that, the need arises to create a module that allows you to do your tasks in the most comfortable way.

This module has three parts, which combined in different ways allow you to work both sitting, removing the auxiliary table, and standing, placing the auxiliary table on the base table. Once the working day is over, it is possible to store the two smallest modules inside the base table.



measures in mm

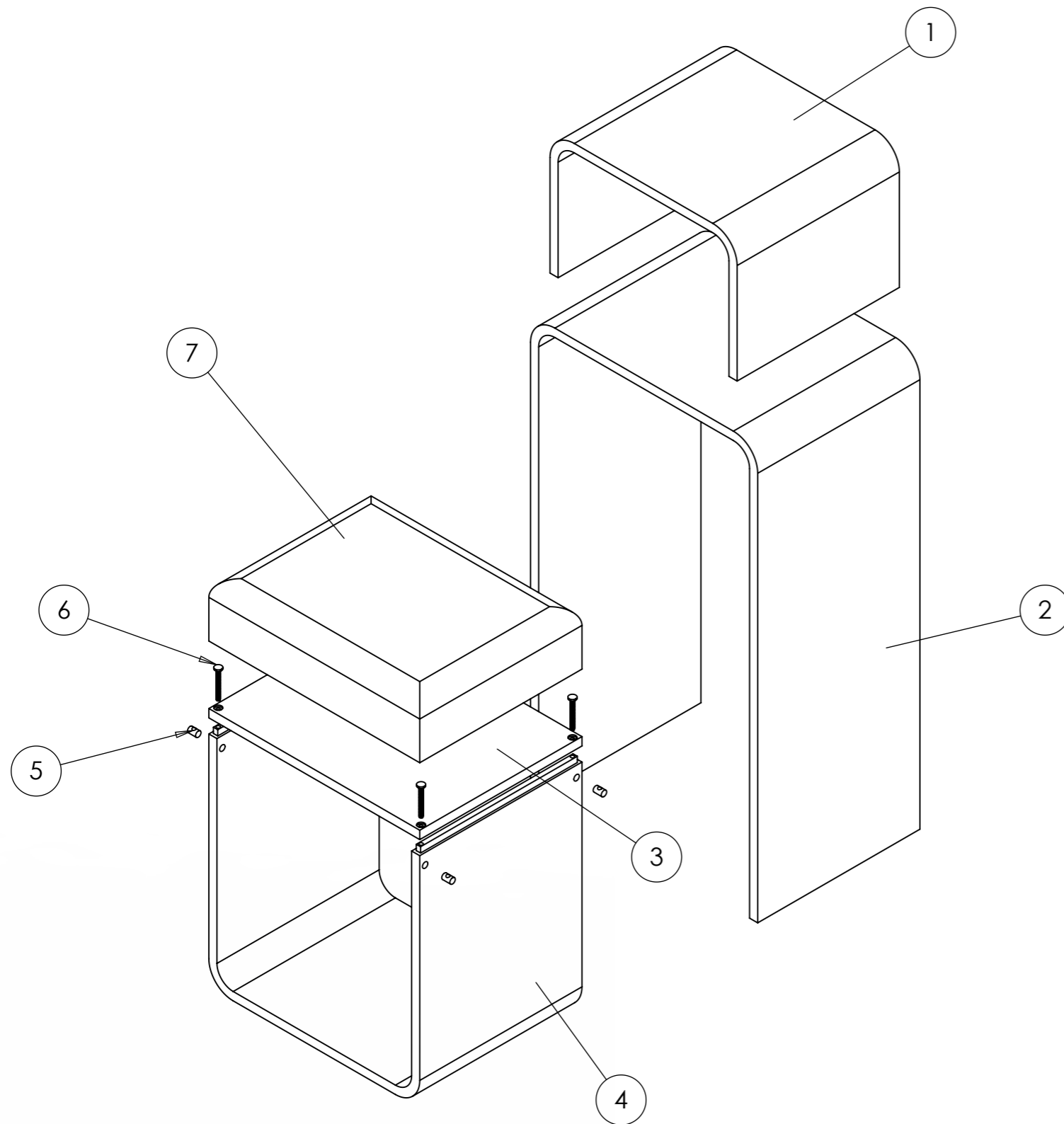




A 3D architectural rendering of a modern workstation. The workstation features a light-colored wood-grain finish. It includes a vertical post on the left, a horizontal shelf above, and a main desk surface. A pink upholstered seat is attached to the desk. The background is a plain, light-colored wall.

PLANS

WORKSTATION

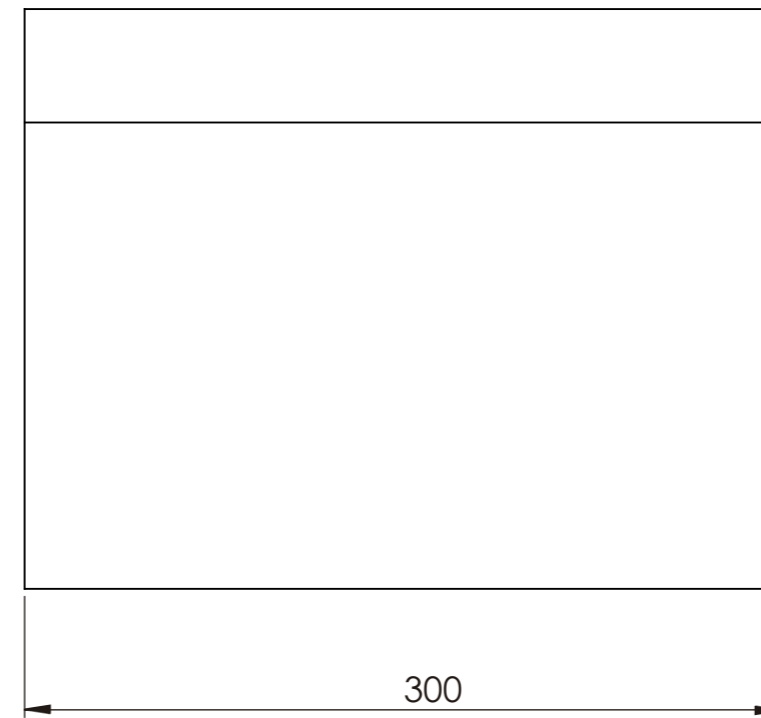
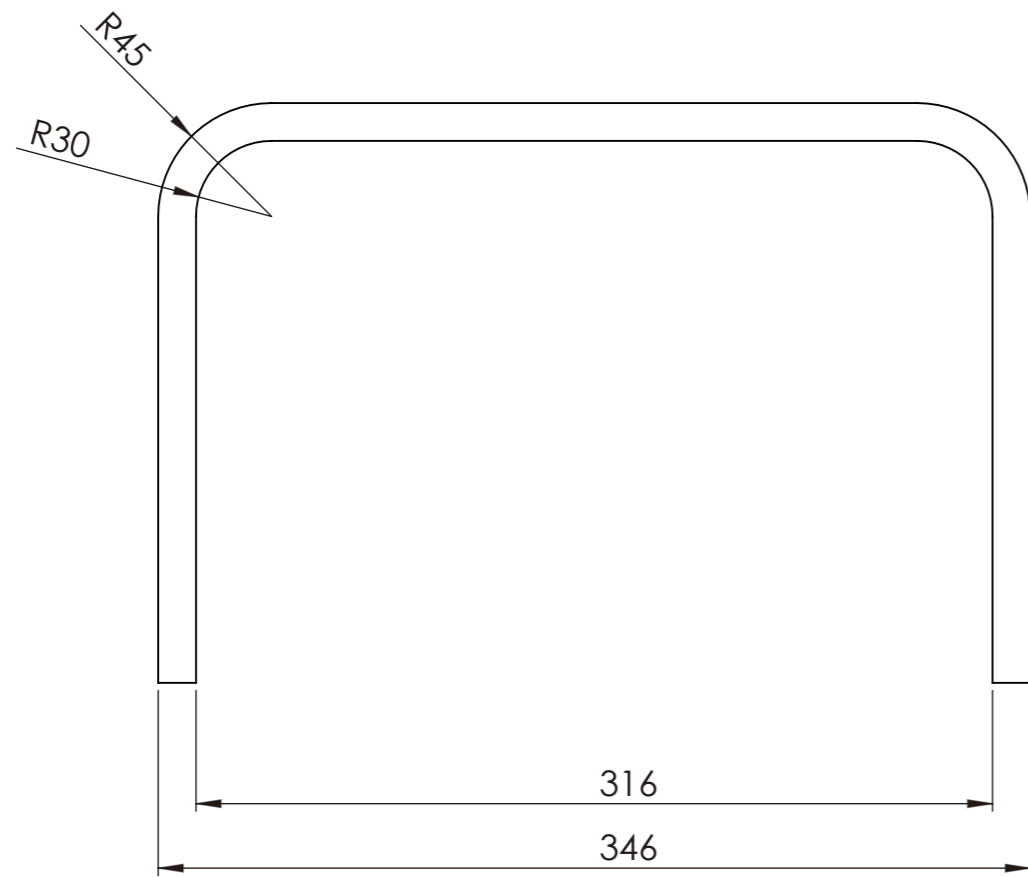


7	Pillow	1	Foam, linen
6	Bolt	4	Steel
5	Barrel nut	4	Steel
4	Seat inferior part	2	Beech
3	Seat top board	1	Beech
2	Base table	1	Plywood (beech)
1	Auxiliar table	1	Plywood (beech)
Number	Pieces	Quantity	Material

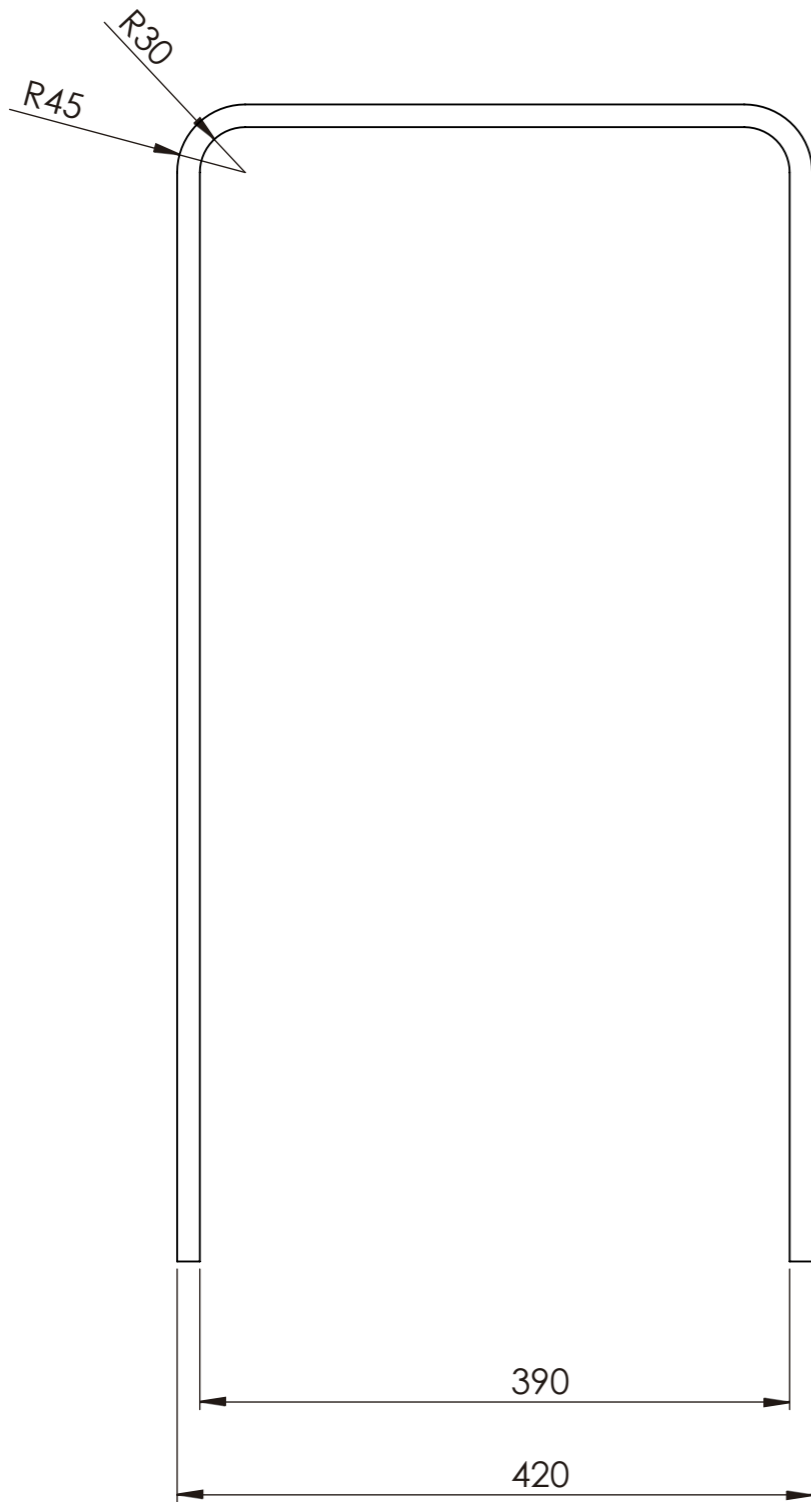
AUTOR:	BEATRIZ MACIÁN PÉREZ	FLEXIBLE LIVING - DIT
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ASSEMBLY	PLAN Nº 1
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SCALE 1:7	WORK STATION	
mm		

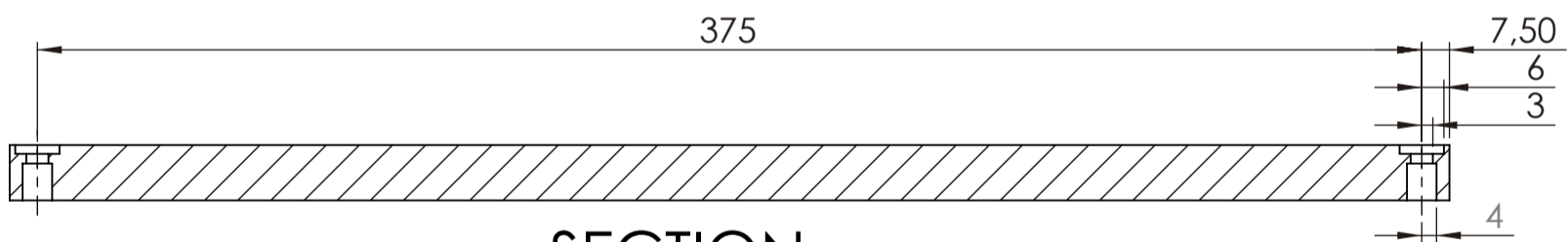


AUTOR: BEATRIZ MACIÁN PÉREZ		FLEXIBLE LIVING - DIT	
AUXILIAR TABLE		PLAN Nº 2	
SCALE: 1:3	WORK STATION		PIECE Nº: 1
mm			QUANTITY: 1



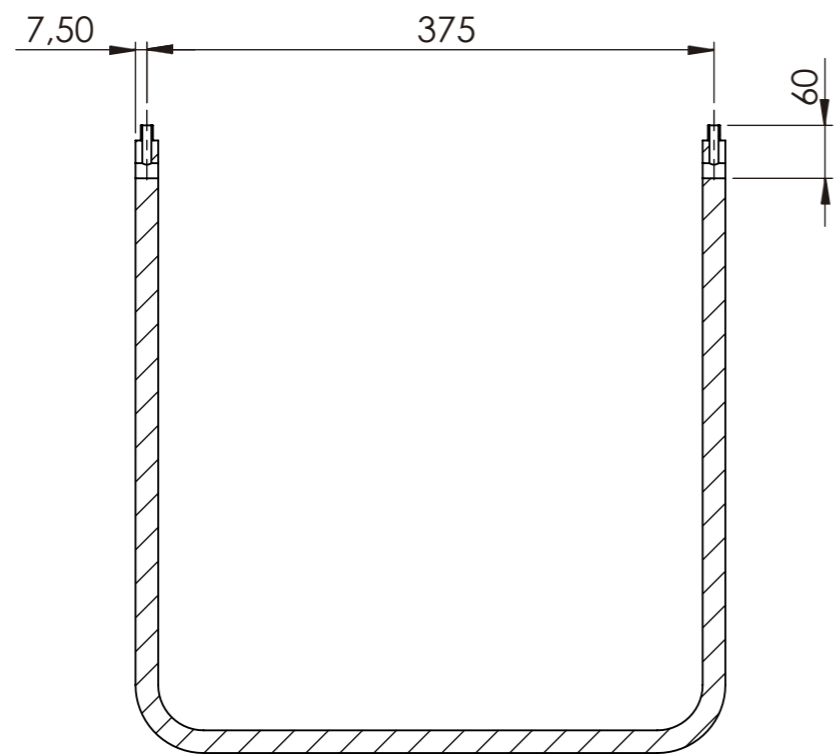
OBSERVATIONS: It has been included 4 silicone tabs in the surface in order to keep fixed the auxiliar table when it is on the base table.

AUTOR:		BEATRIZ MACIÁN PÉREZ	FLEXIBLE LIVING - DIT
		BASE TABLE	PLAN Nº 3
SCALE:	WORK STATION		PIECE Nº: 2
1:5			QUANTITY: 1
mm			

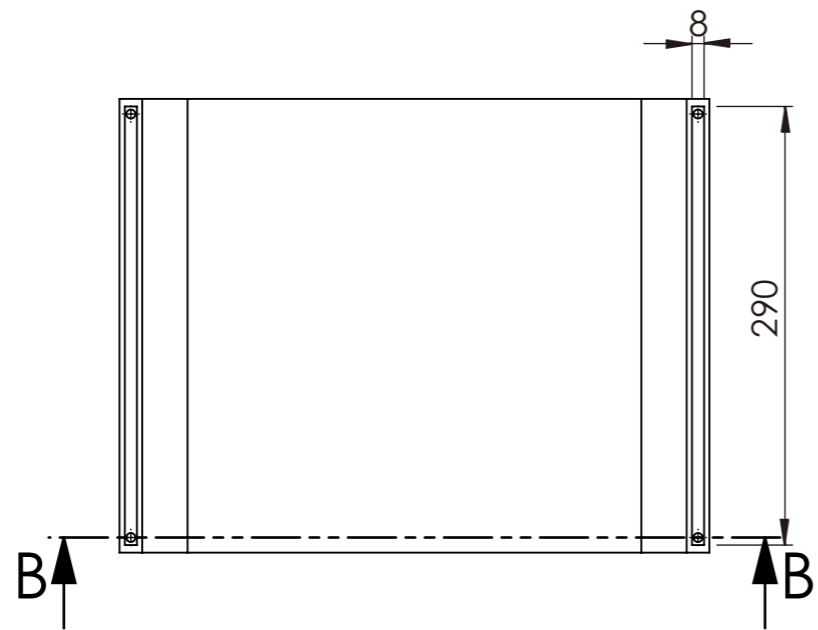
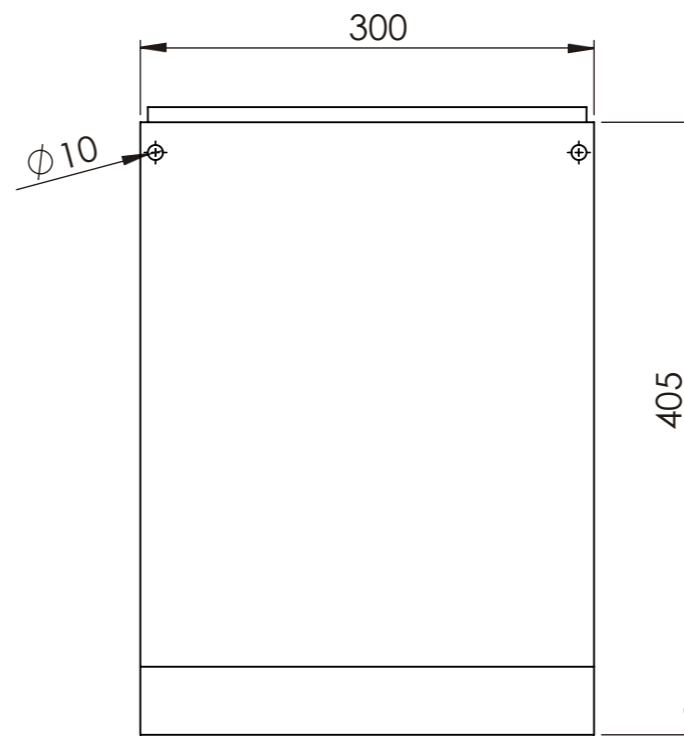


SECTION A-A
SCALE 1 : 2

AUTOR:		BEATRIZ MACIÁN PÉREZ	FLEXIBLE LIVING - DIT
		SEAT TOP BOARD	PLAN Nº 4
SCALE:	WORK STATION		PIECE Nº: 3
1:2			QUANTITY: 1
mm			

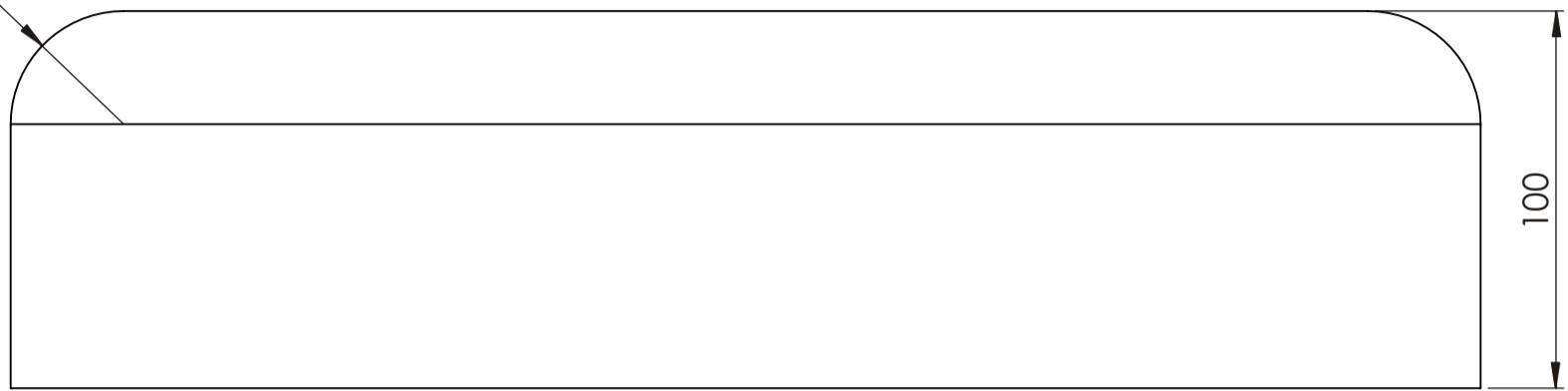


SECCIÓN B-B

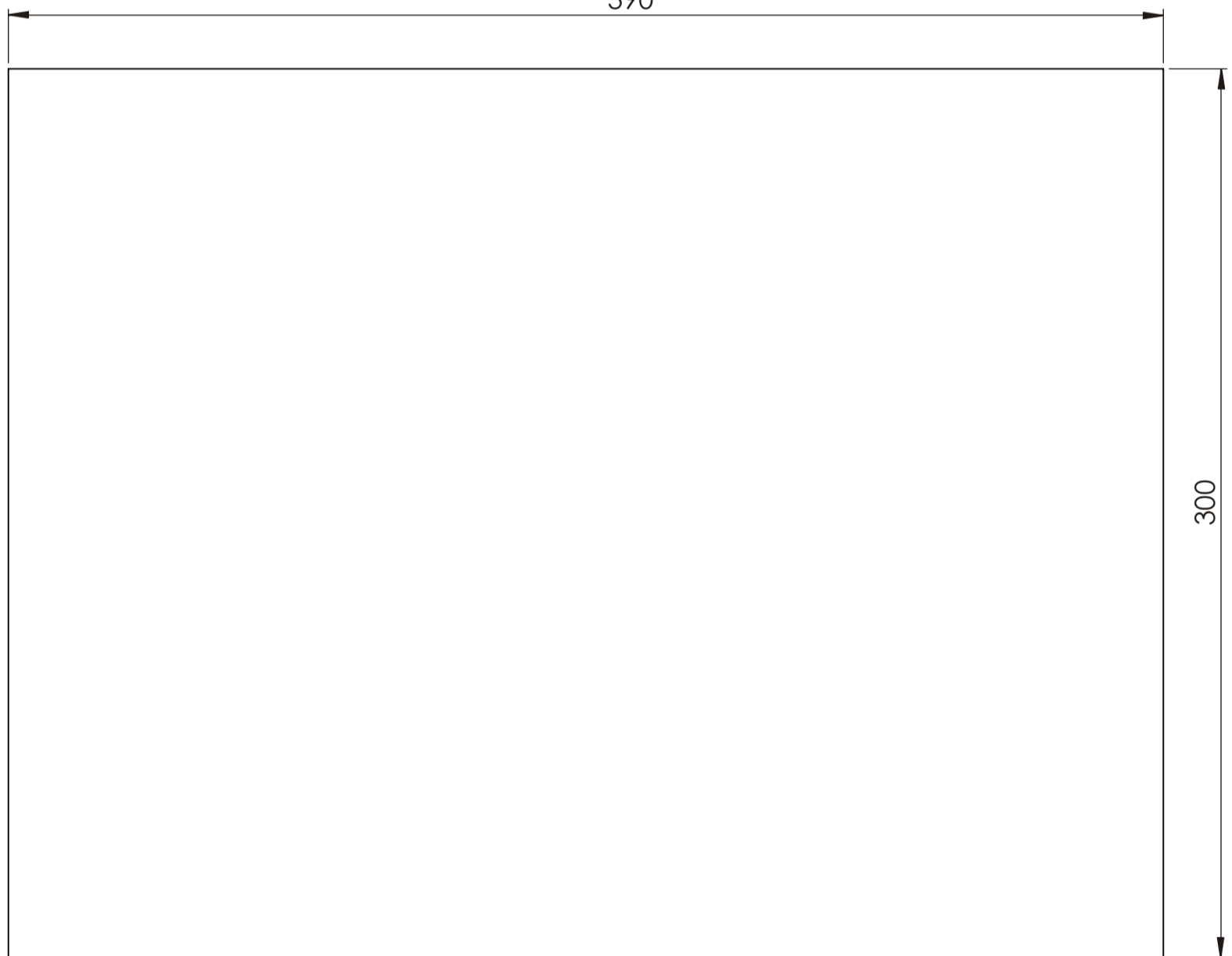


AUTOR:		BEATRIZ MACIÁN PÉREZ	FLEXIBLE LIVING - DIT
		SEAT INFERIOR PART	PLAN Nº 6
SCALE:	WORK STATION		PIECE Nº: 4
1:5			QUANTITY: 1
mm			

R30



390



300

AUTOR:		BEATRIZ MACIÁN PÉREZ	FLEXIBLE LIVING - DIT
		PILLOW	PLAN Nº 7
SCALE:	WORK STATION		PIECE Nº: 7
1:2			QUANTITY: 1
mm			

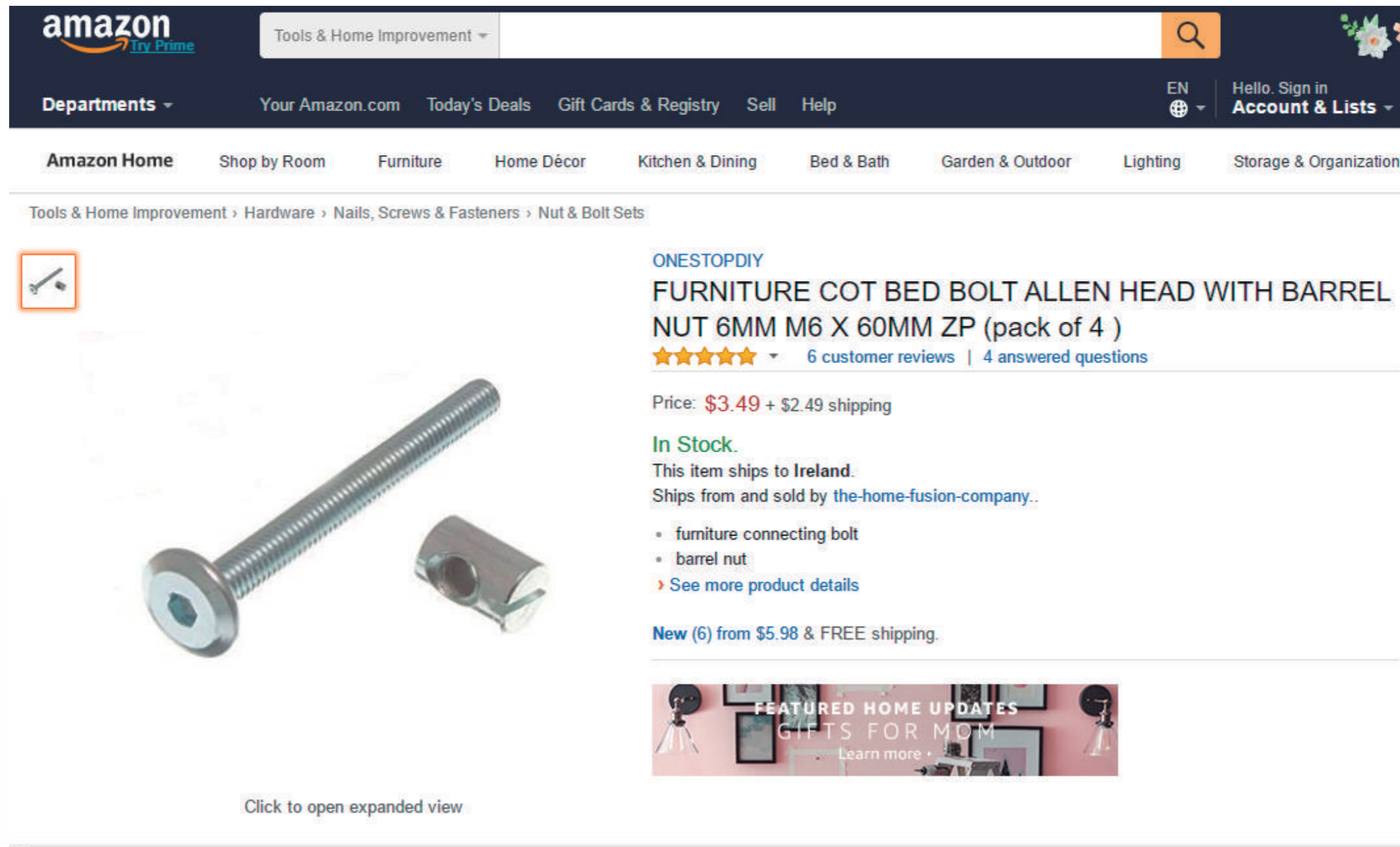
A wooden workstation with a pink cushioned seat. The workstation consists of a light-colored wooden frame with a curved backrest and a flat top surface. A pink, rectangular cushioned seat is attached to the bottom of the frame. The background is a plain, light color.

ADDITIONAL COMPONENTS

WORKSTATION

COT BED BOLT / BARREL NUT

It has been used a cot bed bolt with allen head and a barrel nut for the union between the inferior part of the sit and the top board.



The screenshot shows the Amazon product page for a cot bed bolt and barrel nut. The page includes the Amazon logo, navigation links, and product details. The product is titled "FURNITURE COT BED BOLT ALLEN HEAD WITH BARREL NUT 6MM M6 X 60MM ZP (pack of 4)". It has a price of \$3.49 plus \$2.49 shipping and is currently in stock. The page also features a banner for "FEATURED HOME UPDATES GIFTS FOR MOM" and a link to "Click to open expanded view".

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EN Hello. Sign in Account & Lists

Amazon Home Shop by Room Furniture Home Décor Kitchen & Dining Bed & Bath Garden & Outdoor Lighting Storage & Organization

Tools & Home Improvement > Hardware > Nails, Screws & Fasteners > Nut & Bolt Sets



ONESTOPDIY

FURNITURE COT BED BOLT ALLEN HEAD WITH BARREL NUT 6MM M6 X 60MM ZP (pack of 4)

★★★★★ 6 customer reviews | 4 answered questions

Price: **\$3.49** + \$2.49 shipping

In Stock.

This item ships to **Ireland**.

Ships from and sold by **the-home-fusion-company**.

- furniture connecting bolt
- barrel nut

[See more product details](#)

New (6) from \$5.98 & FREE shipping.

FEATURED HOME UPDATES
GIFTS FOR MOM
[Learn more](#)

[Click to open expanded view](#)

FOAM / LINEN

It has been selected a medium foam for the pillow. This foam is covered by a piece of linen. The pillow can be removed from the sit top board.

The screenshot shows the eFoam website interface. At the top, there is a navigation bar with the eFoam logo, a phone number (01-5394598), and a search bar. Below the navigation bar, there are several menu items: Home, About us, Trade foam, Testimonials, Payment, Delivery, Video guides, Questions, and Contact us. The main content area is titled "Quote for foam cut to size". It features a blue 3D cube icon representing a foam cushion. The text indicates that the selected shape is a "Square / Rectangle cushion" with dimensions: width 300mm, length 390mm, and thickness 100mm. There is a link to "Go back to your shape". Below this, there are two sections: "Please select a foam type:" and "Recommended Additions:". The foam type section has radio buttons for Average (soft), Medium (selected), High (firm), Severe (very firm), Reconstituted (super firm), Reflex Superior (medium), Reflex Superior (firm), Cot safe, Memory, and Random. The recommended additions section has radio buttons for No additions, Stockinette undercover, Polyfibre/dacron wrap with stockinette, and Domed cushion with stockinette. A quantity selector is set to 1, and the total price is €16.17. There is a link to "Buy another one for only €4.89!". An "Add to Cart" button is present. At the bottom, it says "ALL PRICES INCLUDE VAT. The more you buy the more you save!". On the left side, there is a sidebar with various foam categories: Foam cut to size, Foam sheet offers, Bolster cushions, Sample service, Mattresses/toppers, Acoustic foam, Packaging foam, Ethafoam semi-rigid, Closed cell/Plastazote, FIRESEAL™ class 0, Aquatic filter foam, and a section for "Foam grades & types" with icons for fire, water, and recycling.

The screenshot shows the fabric.com website interface. At the top, there is a navigation bar with the fabric.com logo, a search bar, and a "Checkout" button. Below the navigation bar, there are several menu items: HOME DÉCOR FABRIC, APPAREL FABRIC, QUILTING FABRIC, NOTIONS & PATTERNS, NEW ARRIVALS, and SALE. The main content area is titled "European 100% Washed Linen Scarlet". It features a large image of the fabric. The price is \$15.98 per yard, and there are 3 in stock. A quantity selector is set to 1 yard. There is a "4+ yards \$13.58 /yd 15% off" offer. An "Add to Cart" button is present. Below the "Add to Cart" button, there are buttons for "Add to Design Wall" and "Order Swatch \$3.00 each". At the bottom, there are social media sharing icons for Facebook, Pinterest, Twitter, and Email. On the right side, there is a section titled "You may also like" with three small images of other fabric products.

SILICON TABS

It has been included 4 silicone tabs in the surface of the base table in order to keep the auxiliar table fixed when it is on top.

100x Self Adhesive Rubber Feet Transparent Semicircle Bumper Pad 8x2.5 mm High Q

★★★★★ Be the first to write a review.

Item condition: **New**

Sale ends in: 06d 12h 57m

Quantity: More than 10 available / **78 sold**

Was: C \$1.99 ?

You save: C \$0.10 (5% off)

Price: **C \$1.89**
Approximately US \$1.38

Buy It Now

Add to cart

Best Offer:

20 watching

Make Offer

[Add to watch list](#)

[Add to collection](#)

78 sold | More than 60% sold | Experienced seller

Shipping: **FREE** Standard Int'l Shipping | [See details](#)

Seller information
industry_mall (29925) ★
99.7% Positive feedback

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FABRICATION PROCESS

WORKSTATION

PLYWOOD

Three pieces of WORKSTATION (Auxiliar Table, Base Table and the Inferior part of the seat) are made of plywood, in particular, beech. Beech has a lot of flexibility, enormous tension, stiffness and deformability.

One of the companys that make this type of process is Becker, a german company that is one of the most important manufacturers of moulded wood worldwide.



[COMPANY](#)

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MOULDED WOOD

THE EXCITING VARIETY OF A NATURAL DESIGN MATERIAL

Becker Brakel's production site is located next to the greatest beech wood growing area in the world. We process up to 20,000 cubic meters of beech wood every year. Beech is our most important and sustainable natural resource. Its never-ceasing flexibility, enormous tension, stiffness

and deformability make beech wood an outstanding and unique raw material. We have the knowhow and the corresponding pressing technology to realise extreme radiuses, unusually complex 3D deformations and minimal thickness.

LIGHTING

FURN 2002

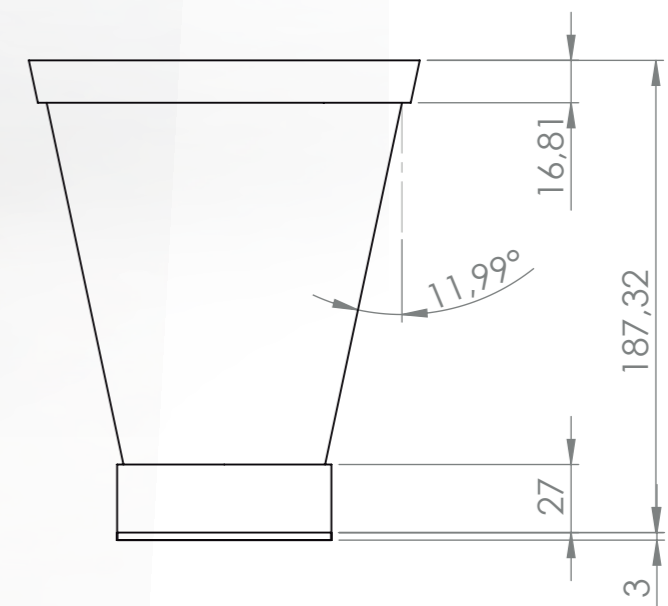
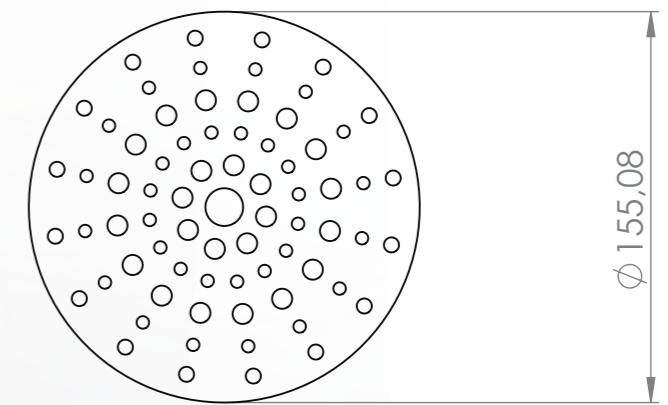


FINAL RESOLUTION
UNIVERSE

UNIVERSE

lighting

UNIVERSE is a lamp with two possible forms of use. It has a die cut cover with a picture that simulates the stars in the universe. When the light is on, it pass through the holes projecting the picture in the ceiling, and rotating the tap It creates an effect of movement. It is also removable; in case we want an ambient light. This combines a functional and decorative lighting which develops the imagination.



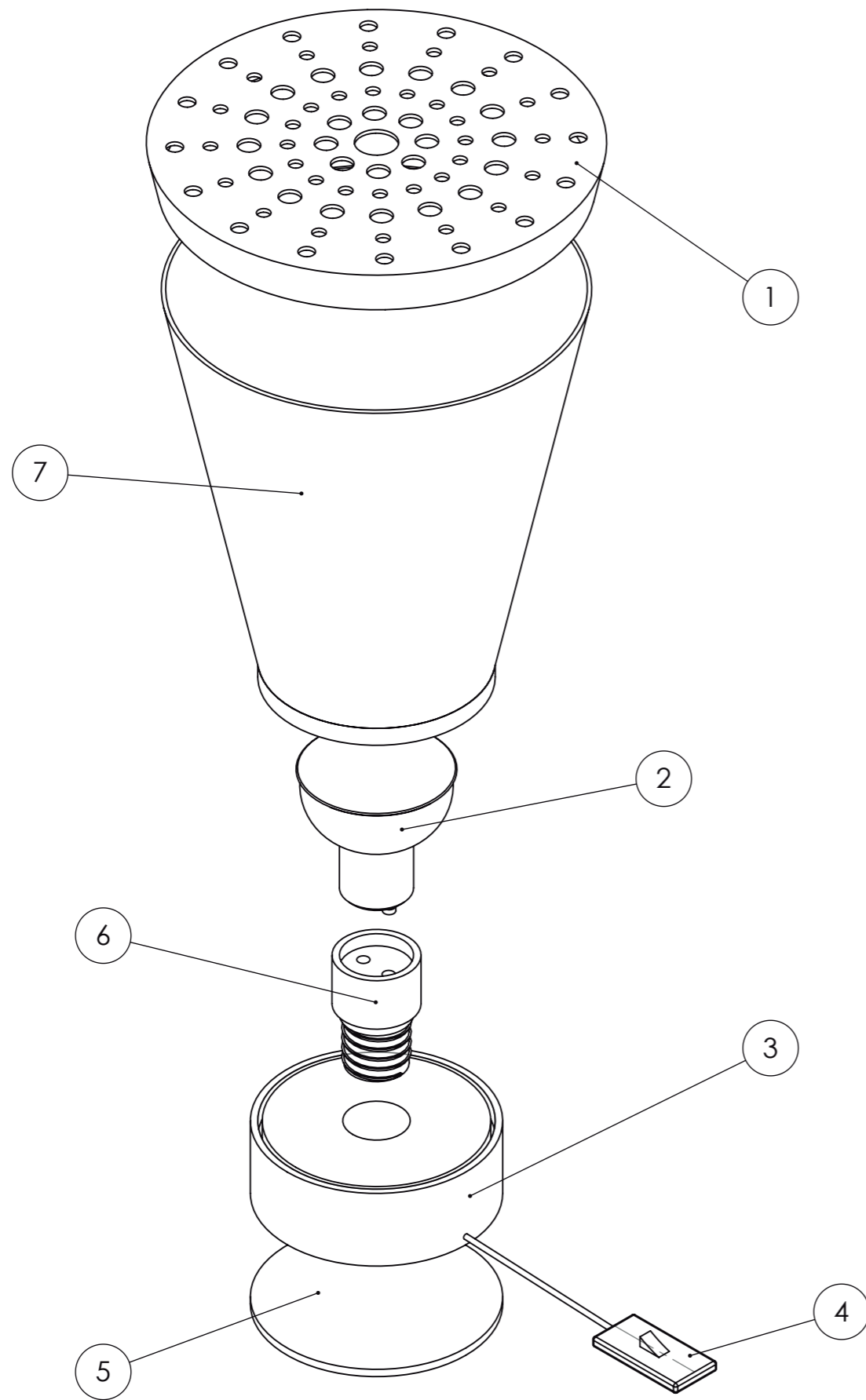






PLANS

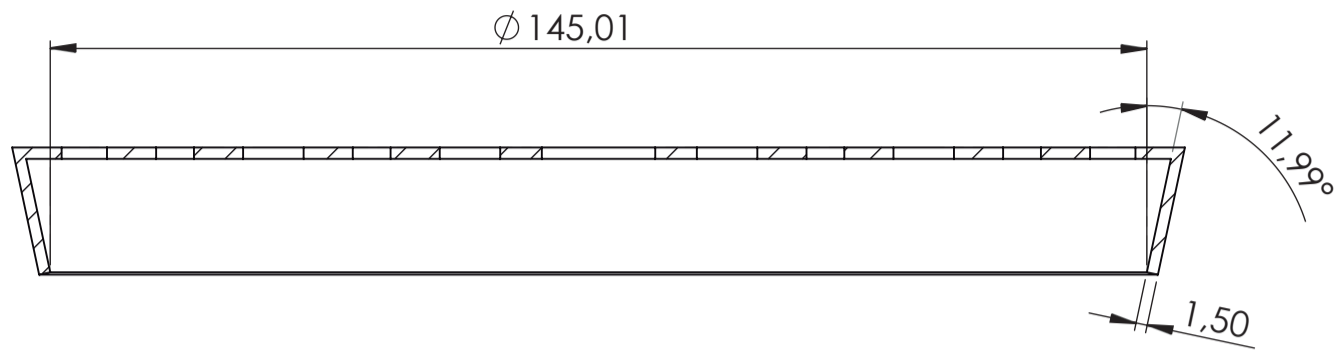
UNIVERSE



7	Screen	1	Translucid plastic
6	GU10 Adaptator	1	Aluminum, plastic
5	Base cover	1	Wood
4	Switch	1	Plastic, copper (cable)
3	Base	1	Wood
2	GU10 Led Bulb	1	Aluminium, crystal
1	Tap	1	Translucid Plastic (polyethylene)
Number	Pieces	Quantity	Material

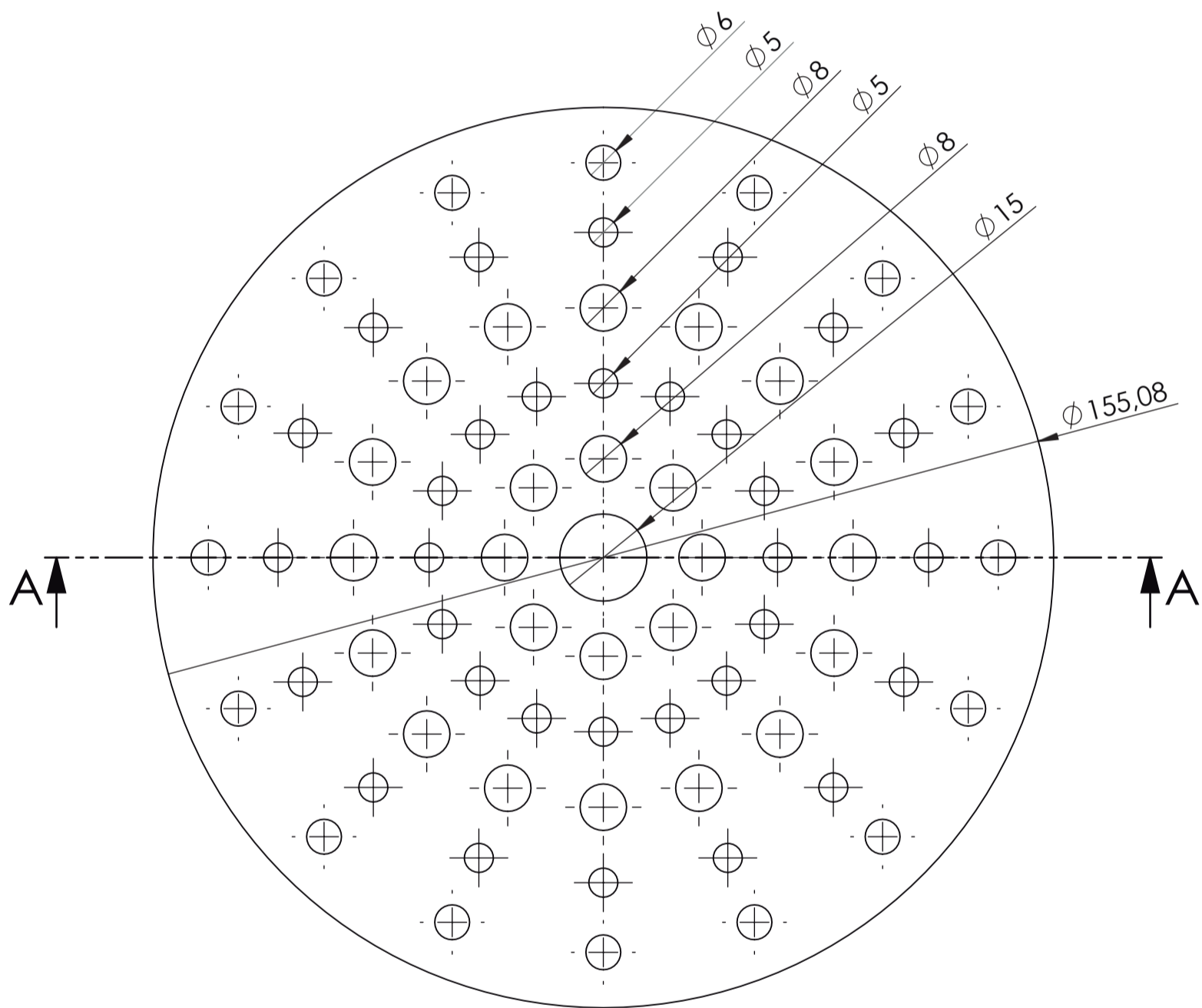
AUTOR: BEATRIZ MACIÁN PÉREZ		LIGHTING - DIT	
ASSEMBLY		PLAN Nº 1	

SCALE 1 : 2	UNIVERSE	
mm		

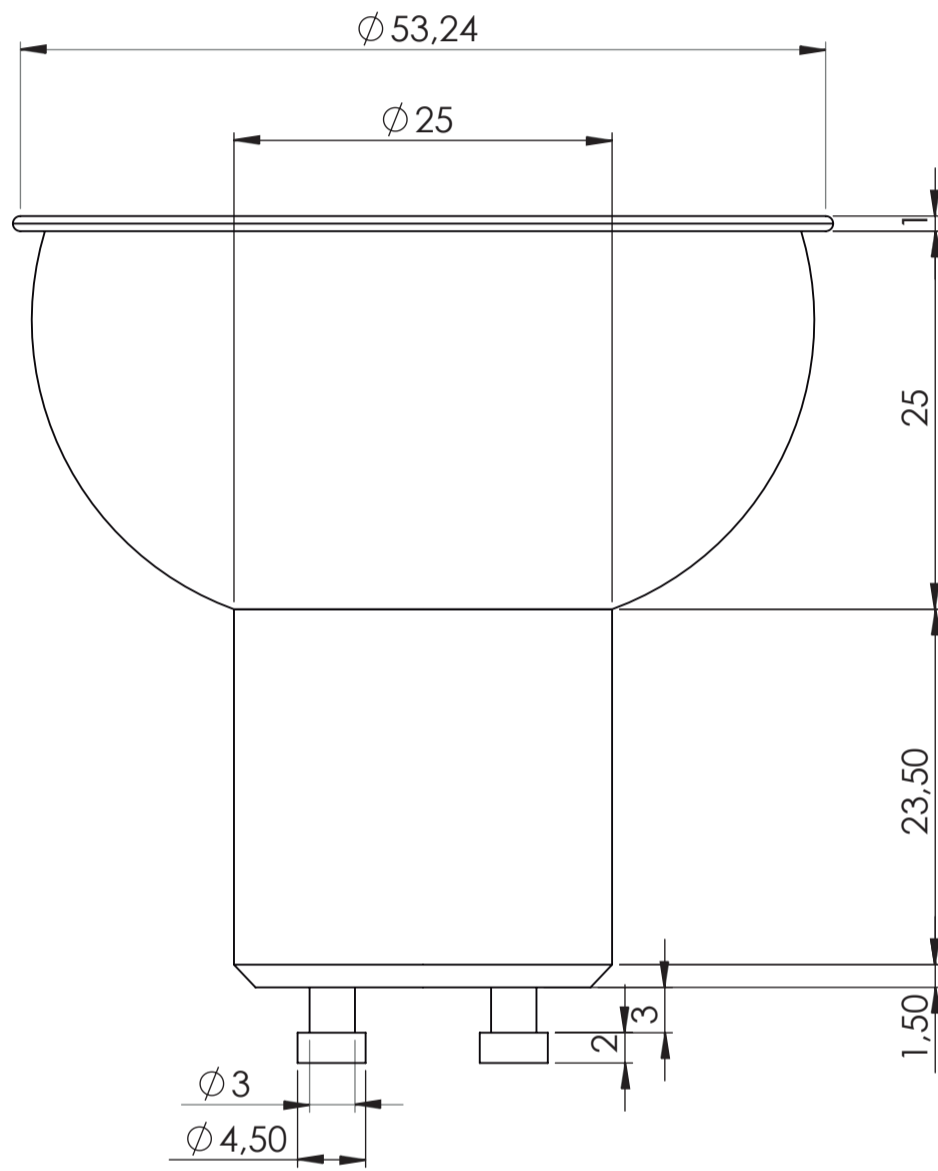


SECTION A-A

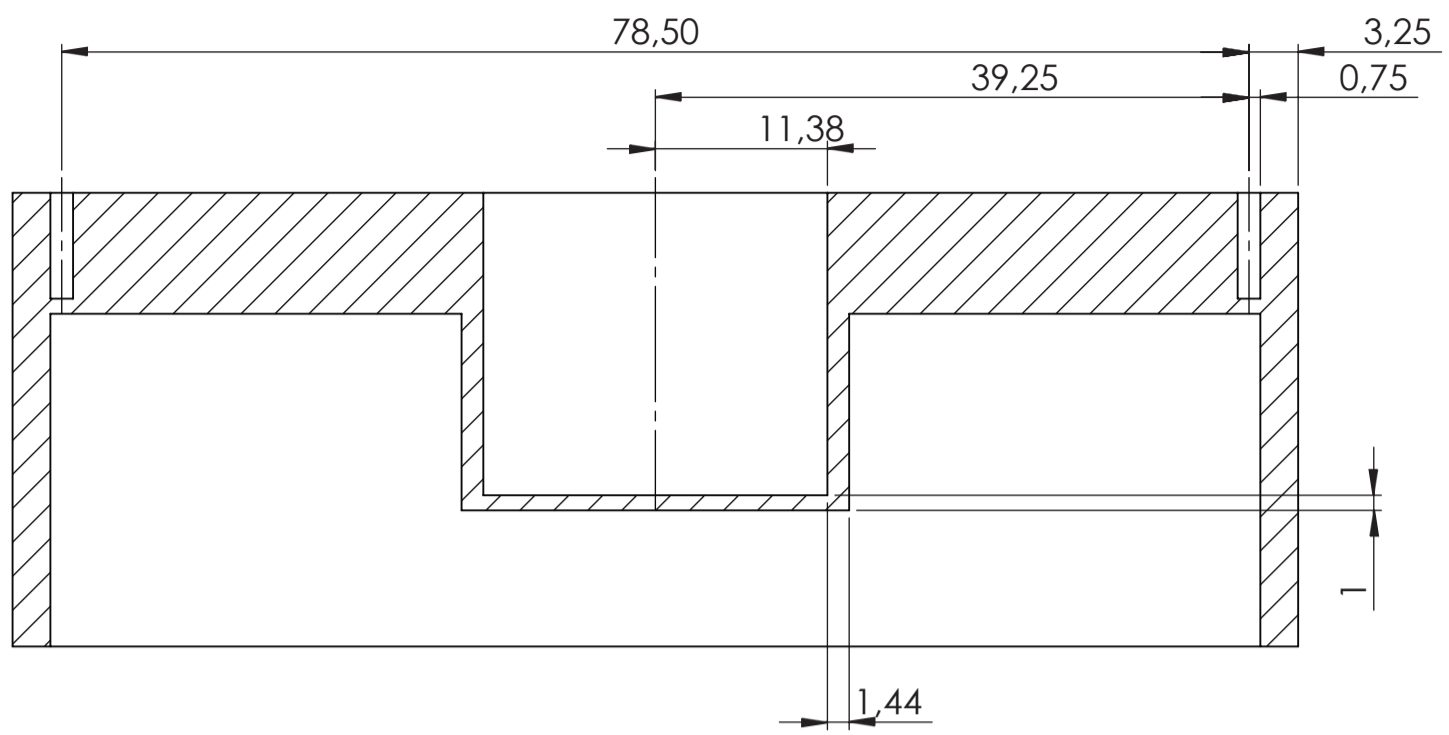
SCALE 1:1



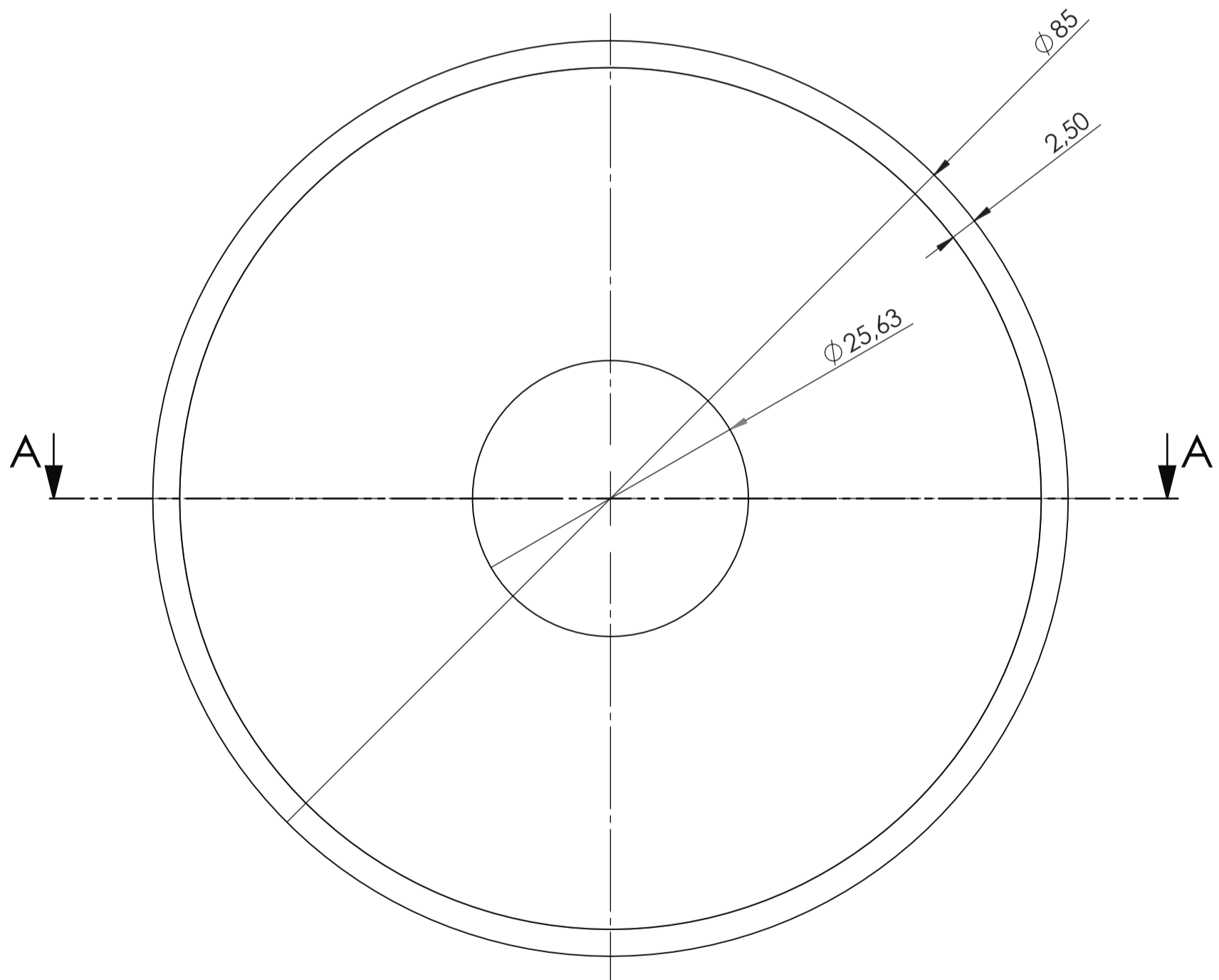
AUTOR: BEATRIZ MACIÁN PÉREZ		LIGHTING- DIT	
TAP		PLAN N° 2	
SCALE: 1:1	UNIVERSE		PIECE N°: 1
mm			QUANTITY: 1



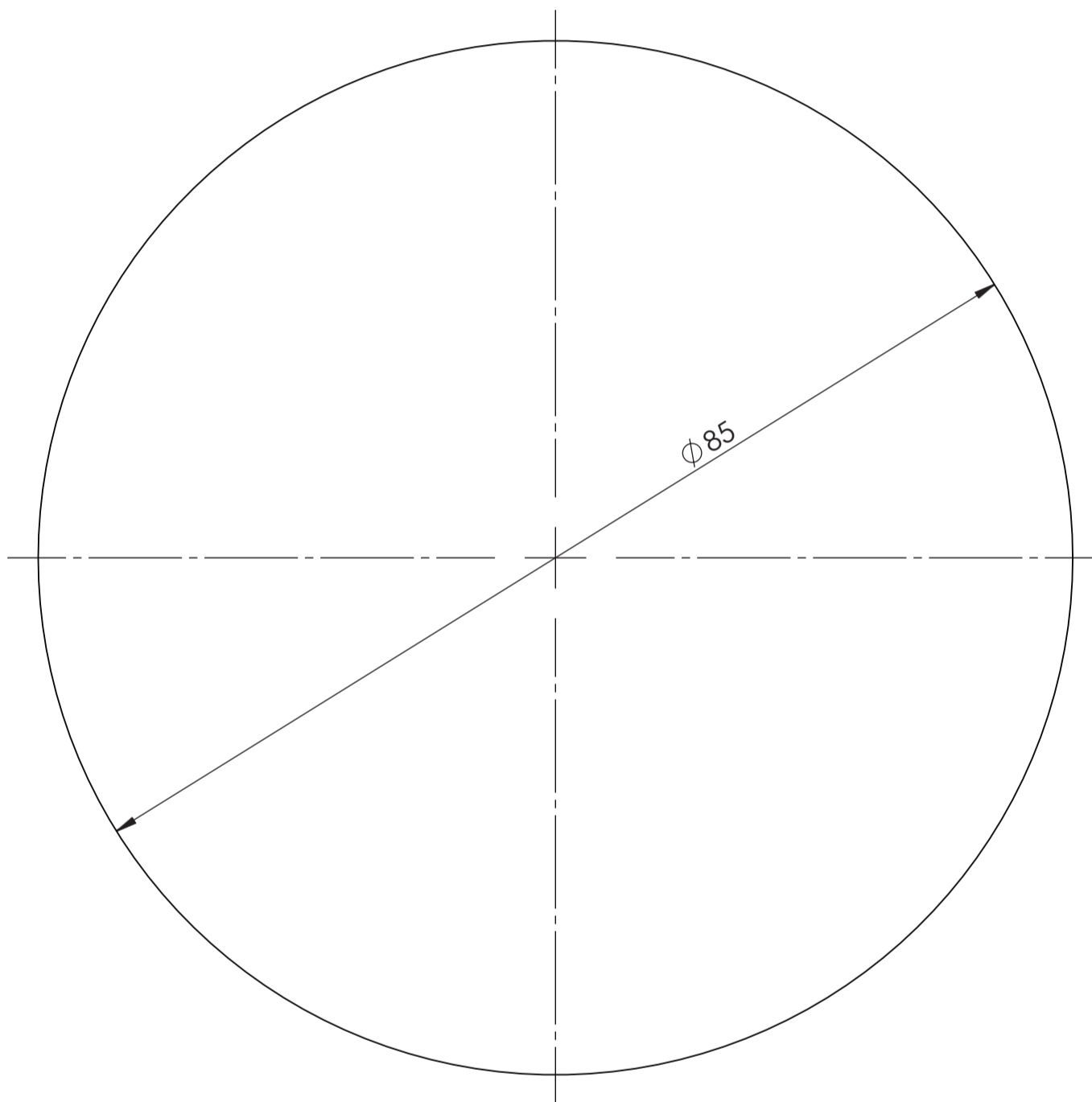
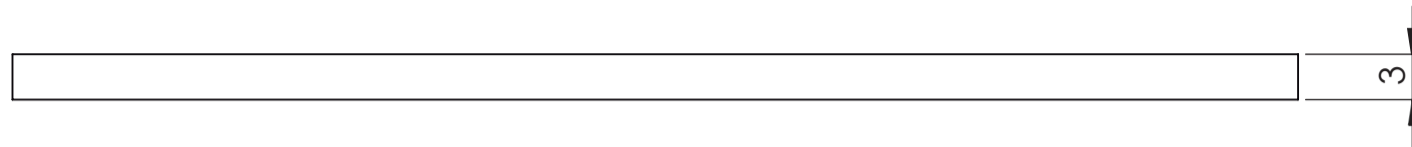
AUTOR: BEATRIZ MACIÁN PÉREZ		LIGHTING- DIT	
GU10 LED BULB		PLAN N° 3	
SCALE: 2:1	UNIVERSE		PIECE N°: 2
mm			QUANTITY: 1



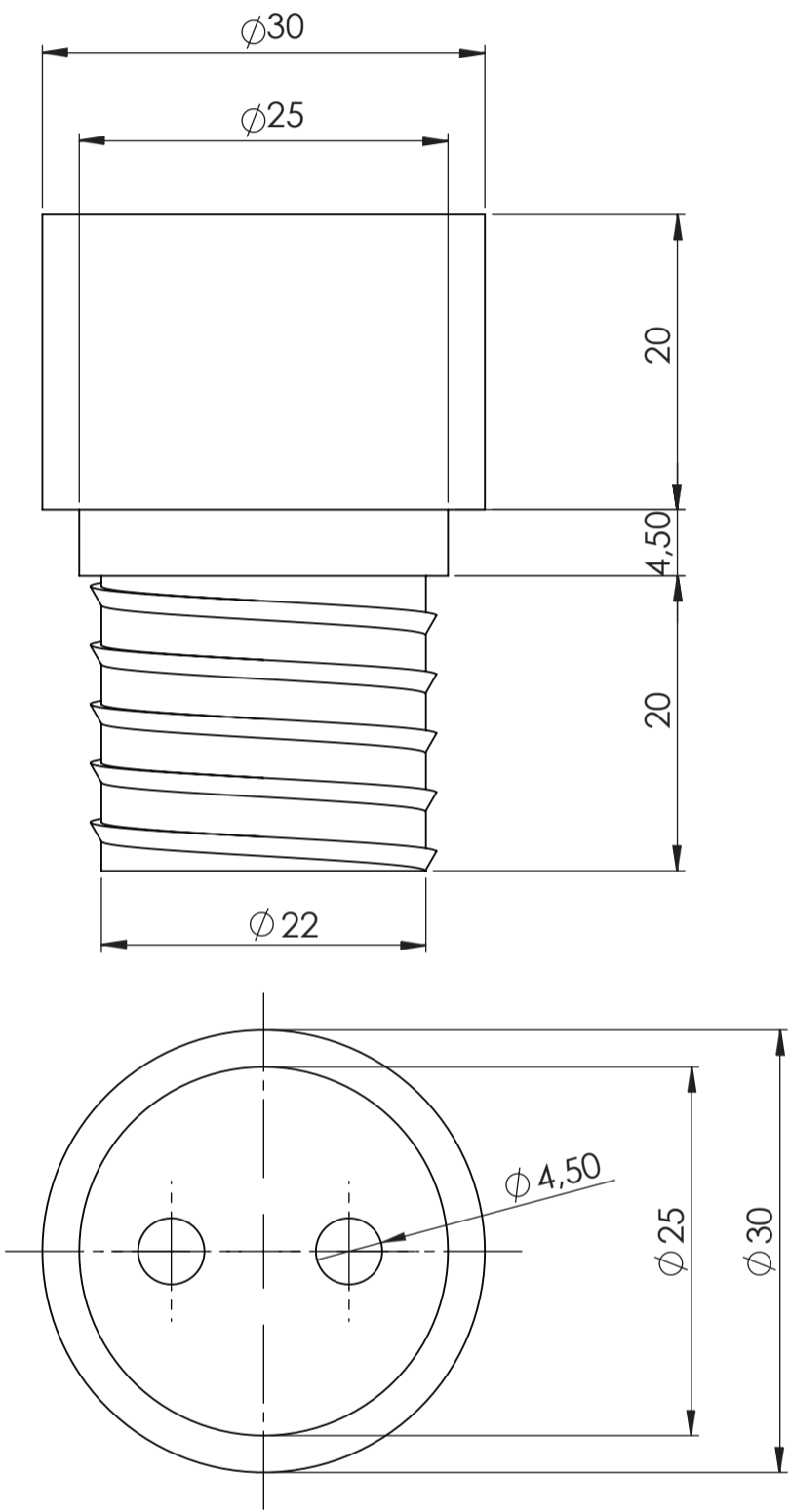
SECTION A-A
SCALE 2:1



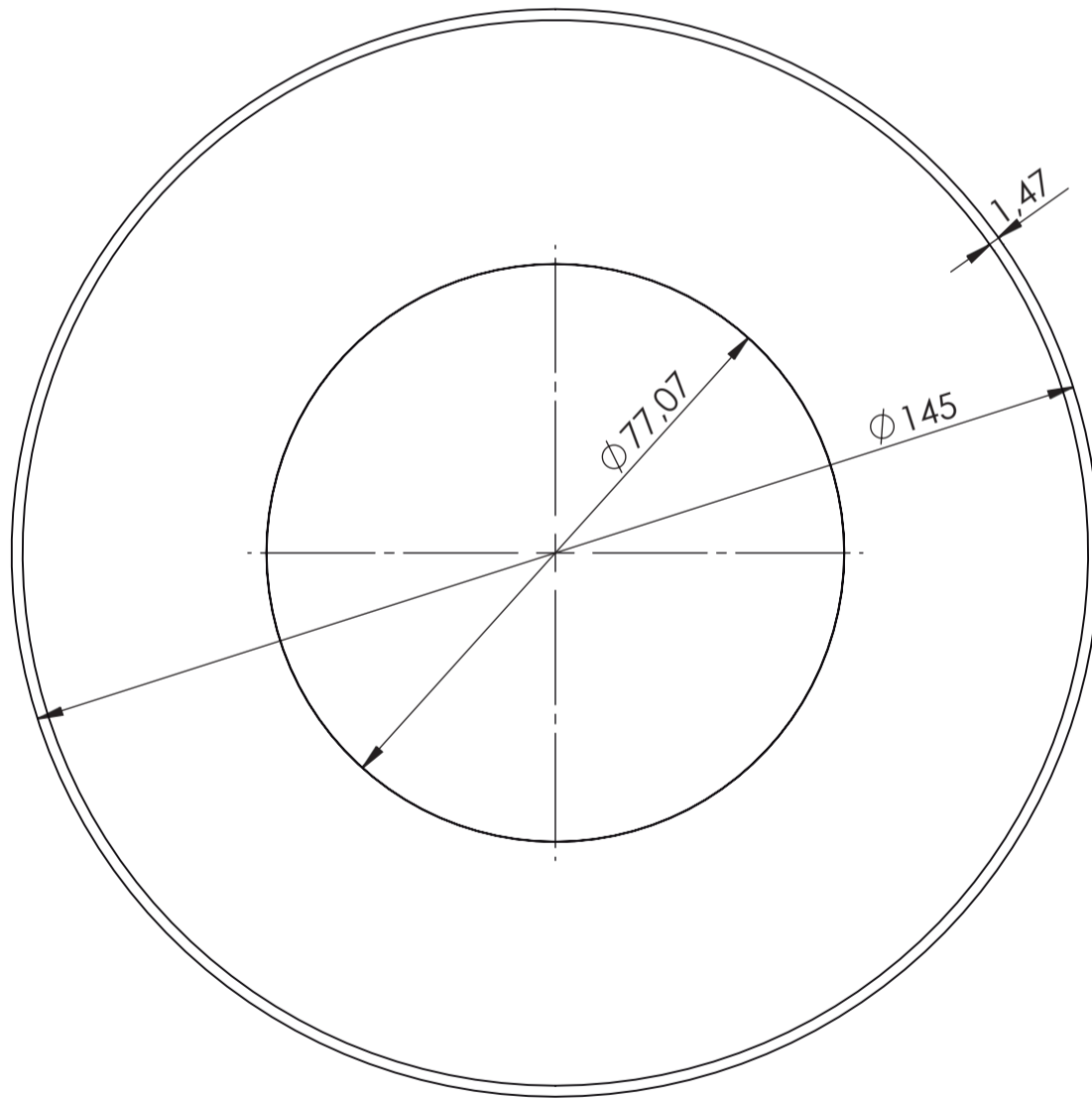
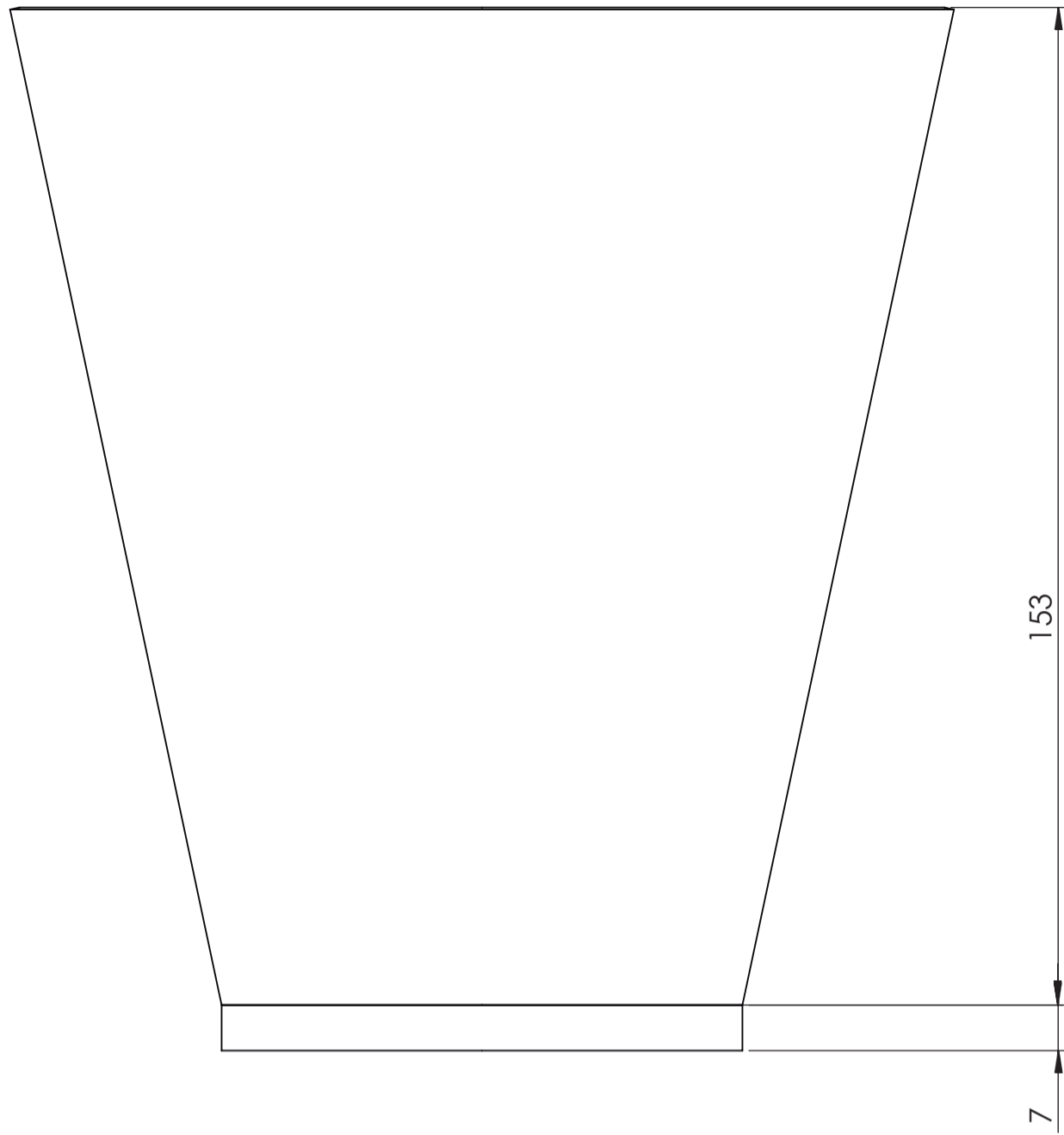
AUTOR: BEATRIZ MACIÁN PÉREZ		LIGHTING- DIT	
BASE		PLAN N° 3	
SCALE: 2:1	UNIVERSE		PIECE N°: 3
mm			QUANTITY: 1



AUTOR:		BEATRIZ MACIÁN PÉREZ	LIGHTING- DIT	
		BASE COVER	PLAN N° 4	
SCALE:	UNIVERSE			PIECE N°: 5
2:1				QUANTITY: 1
mm				



AUTOR:		BEATRIZ MACIÁN PÉREZ	LIGHTING- DIT
		GU10 ADAPTATOR	PLAN Nº 5
SCALE:	UNIVERSE		PIECE Nº: 6
2:1			QUANTITY: 1
mm			



AUTOR:		BEATRIZ MACIÁN PÉREZ	LIGHTING- DIT	
		SCREEN	PLAN Nº 6	
SCALE:	LAMP			PIECE Nº: 7
2:1				QUANTITY: 1
mm				



ADDITIONAL COMPONENTS

UNIVERSE

GU 10 LED BULB

This type of light bulbs are that they have a high quality of illumination, they reduce the electricity consumption and they last 20 to 30 times longer than other types of bulbs, apart from having the possibility to choose different colours of light. In that case It has been selected a GU10 Light Bulb without colour.

The screenshot shows the LEDKIA website interface. At the top left is the LEDKIA logo with the tagline 'UK's Biggest LED Lighting Website'. A search bar is located to the right of the logo. Further right are links for 'BASKET (empty)', 'Login', and 'Sign Up'. A teal navigation bar contains links for 'PRODUCTS', 'OFFERS', 'IDEAS AND ADVICE', 'LATEST NEWS', '2 YEAR WARRANTY', 'ABOUT LEDKIA', and 'HELP'. On the right side of this bar is a phone number '020 3514 1392' and operating hours 'MONDAY TO FRIDAY FROM 8AM-5.30PM'. Below the navigation bar is a breadcrumb trail: 'Home > GU10 LED Bulbs > Conventional GU10 LED Bulbs...'. The main product image is a 'Glass GU10 45° 7W COB LED Bulb'. Below the image are CE and RoHS certification icons. To the right of the image, the product title is 'Glass GU10 45° 7W COB LED Bulb', followed by the reference number 'LL-GU10-CC-220-7' and social sharing icons. The price is listed as '£ 4.95 VAT incl.'. Below the price is a section titled 'Choose a Colour Temperature : [+ Info]' with three options: 'Warm White 3000K Delivery in 24/72h', 'Daylight 4000K Delivery in 24/72h', and 'Cool White 6000K Delivery in 24/72h'. At the bottom of the page, there are small thumbnail images of other lighting products.



Glass GU10 45° 7W COB LED Bulb

Reference: LL-GU10-CC-220-7

Print or share in

£ 4.95 VAT incl.

Choose a Colour Temperature : [+ Info]

Warm White 3000K
Delivery in 24/72h


Daylight 4000K
Delivery in 24/72h

Cool White 6000K
Delivery in 24/72h



E27 TO GU10 ADAPTATOR

This E27 to GU10 Adaptor allows us to place GU10 bulbs and use them in luminaires which only accept E27 LED Bulbs.



LEDKIA LIGHTING UK's Biggest LED Lighting Website

Search

BASKET (empty)

Login Sign Up

PRODUCTS OFFERS IDEAS AND ADVICE LATEST NEWS 2 YEAR WARRANTY ABOUT LEDKIA HELP

020 3514 1392 MONDAY TO FRIDAY FROM 8AM-5.30PM

Home LED Lamps & Bulbs LED Bulb Accessories

E27 to GU10 Adaptor

Reference: S-LED-1304

Print or share in

£ 1.95 VAT incl.

Available
Receive in 24/72h

Quantity:

— 1 +

Add to Basket

DESCRIPTION

SHIPPING/PAYMENT

ARE YOU A PROFESSIONAL?

This E27 to GU10 Adaptor allows us to place GU10 bulbs and use them in luminaires which only accept E27 LED Bulbs. This adaptor has an attractive and modern design and is painted white.

With these adaptors we can install all sorts of GU10 bulbs in E27 lampholders, which is the most common format found. With this product, not only do we have new options for installing bulbs, but we can also use any GU10 bulbs we have lying around the house, due to the fact that we don't have the right fitting.





FABRICATION PROCESS

UNIVERSE

BASE

The base of the lamp has been manufactured from a wood block which has been punched to create the necessary slots

TAP

The tap has been created by plastic injection. Moreover, it has been punched in the superior surface to create the desired picture.

SCREEN

The screen has been created by plastic injection.

RETAIL

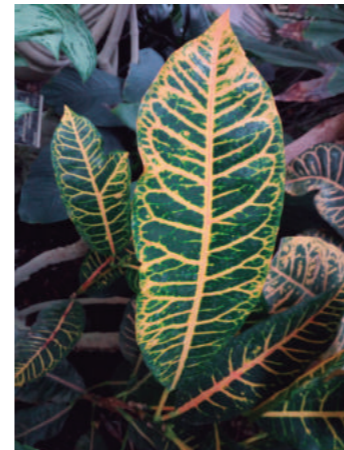
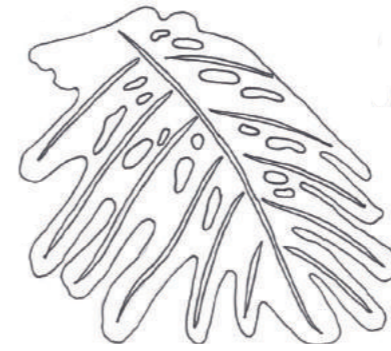
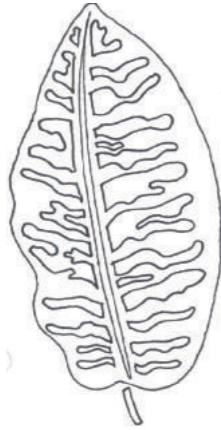
INTE 2002

INDEX

enzo
SHOP

- 01 | Primary Research & Observational Sketches
- 02 | Concept development of Main Module
- 03 | Units
- 04 | Plans
- 05 | Ergonomics
- 06 | 3D Model - Renders
- 07 | Materials

01 | Primary Research & Observational Sketches



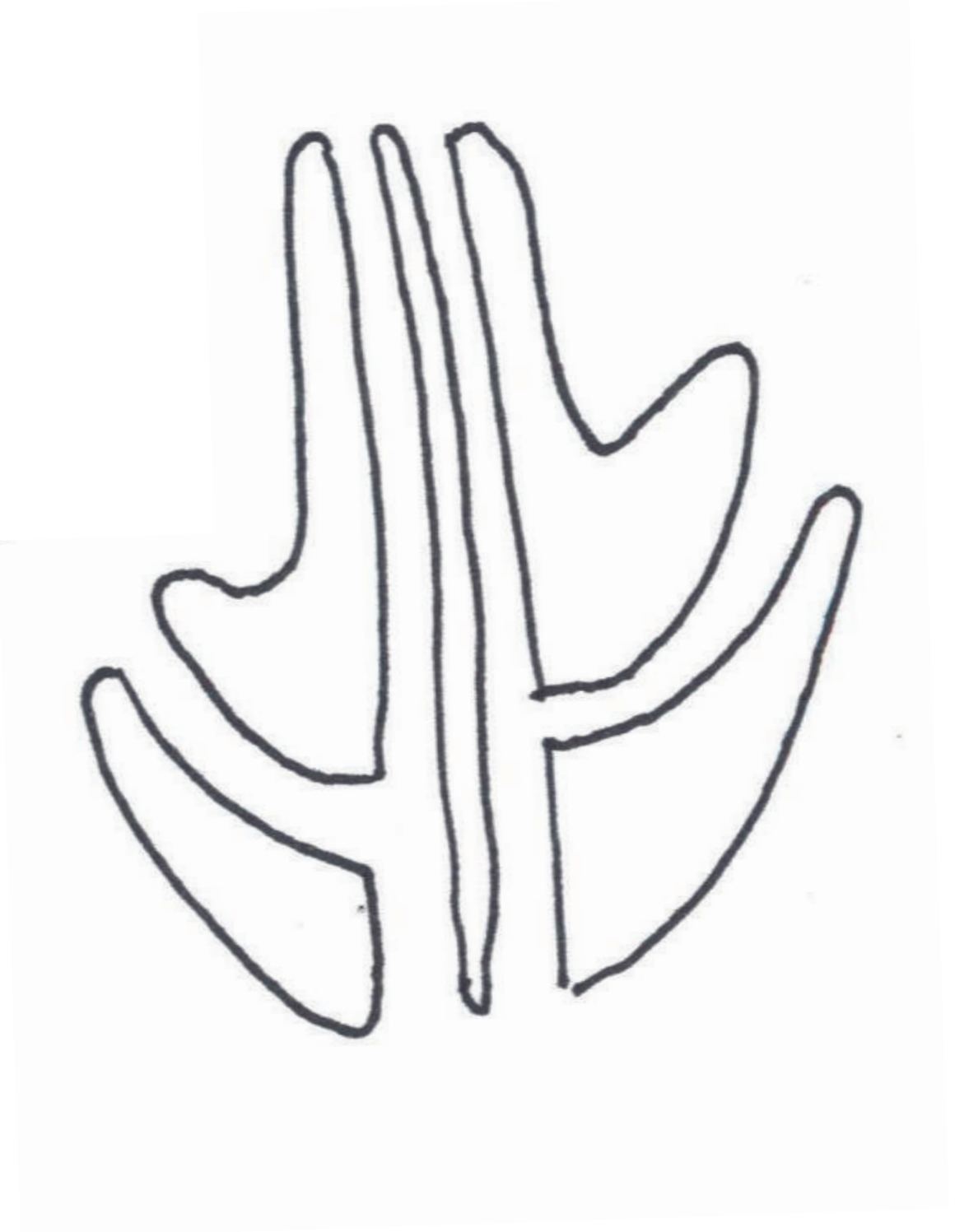
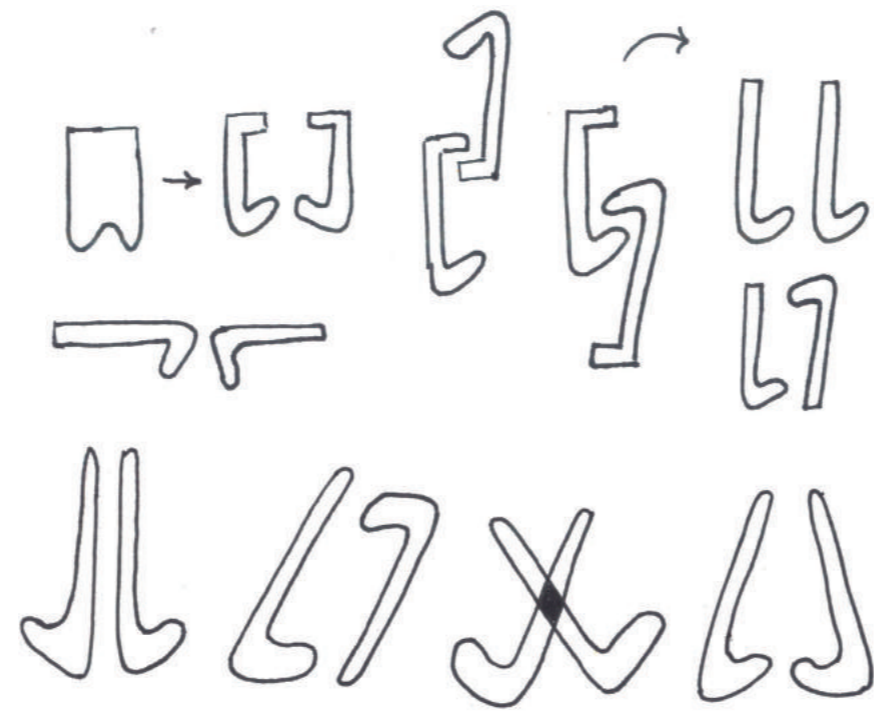
MODULE SELECTED



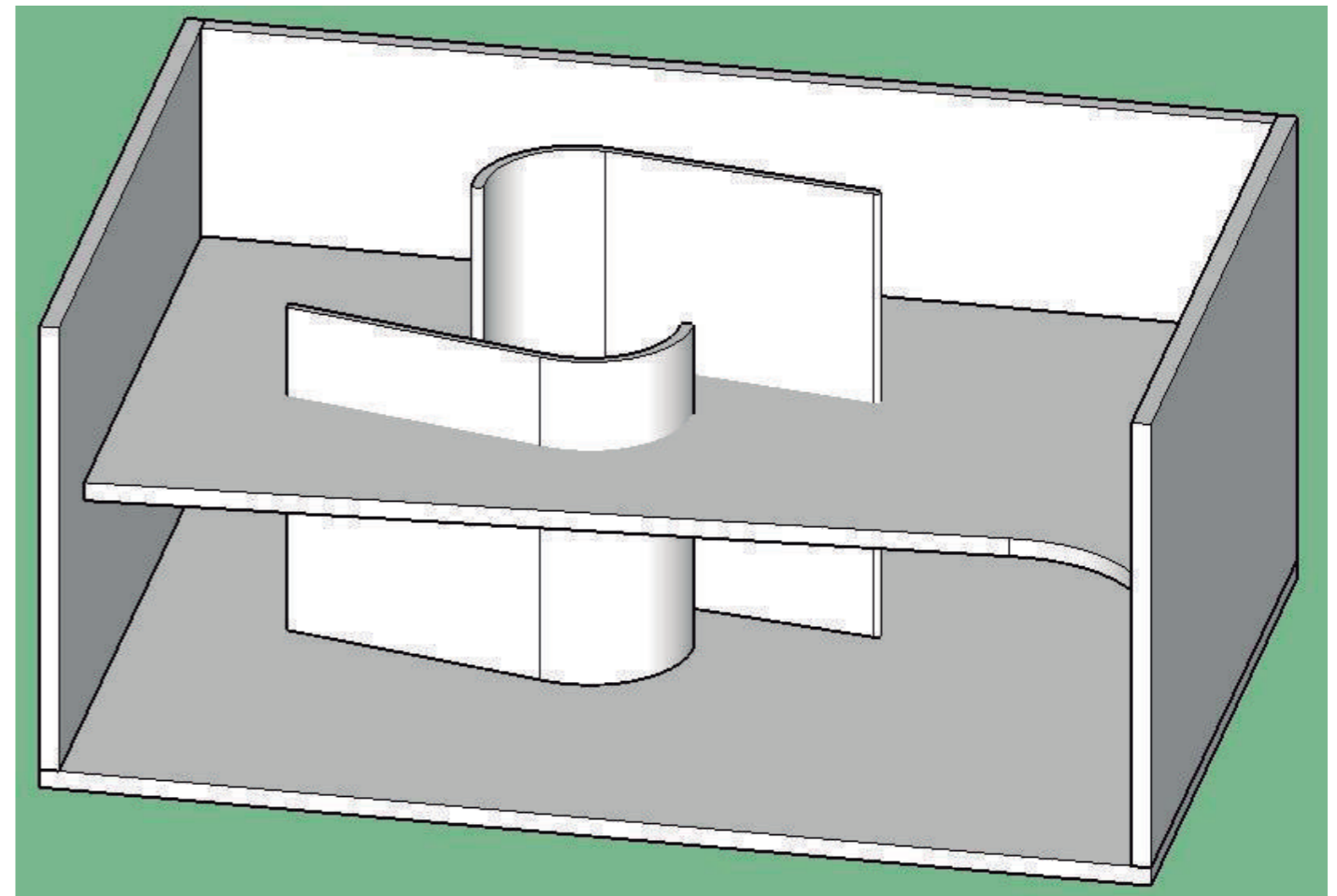
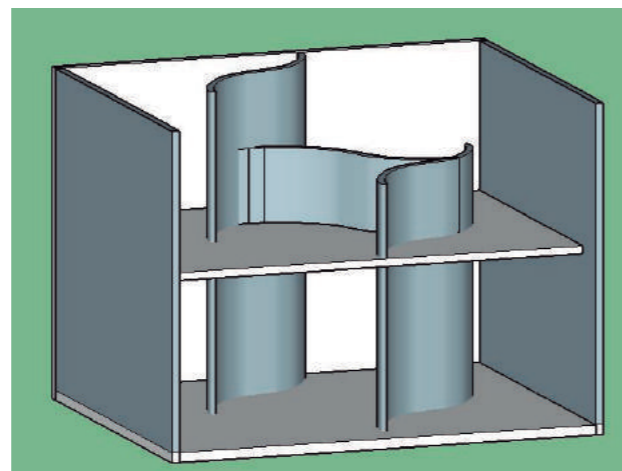
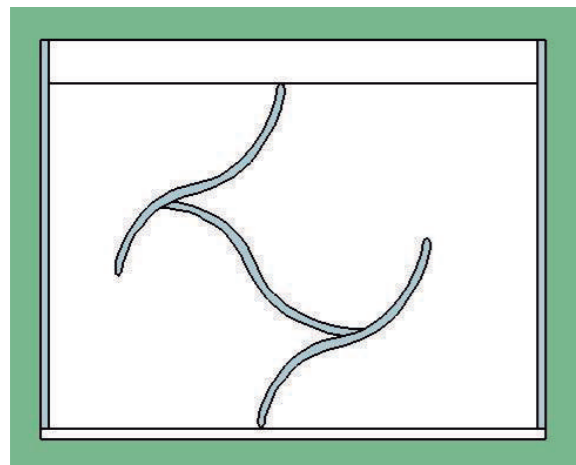
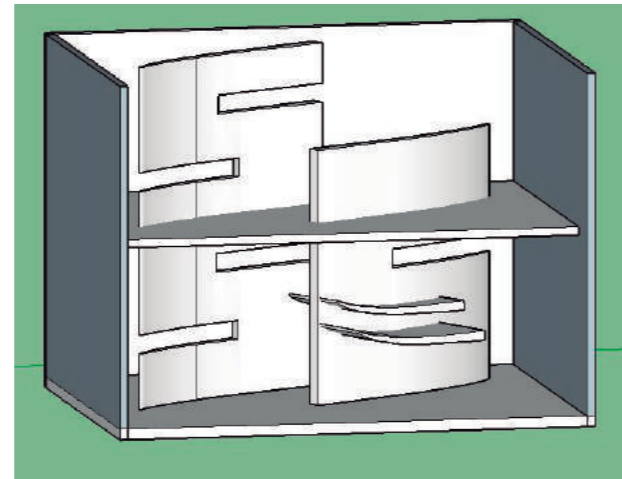
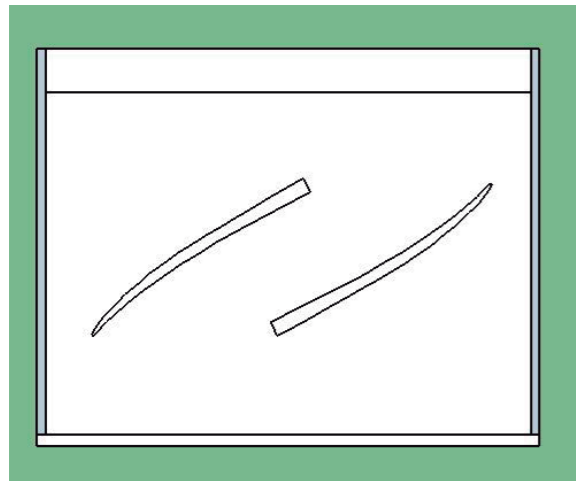
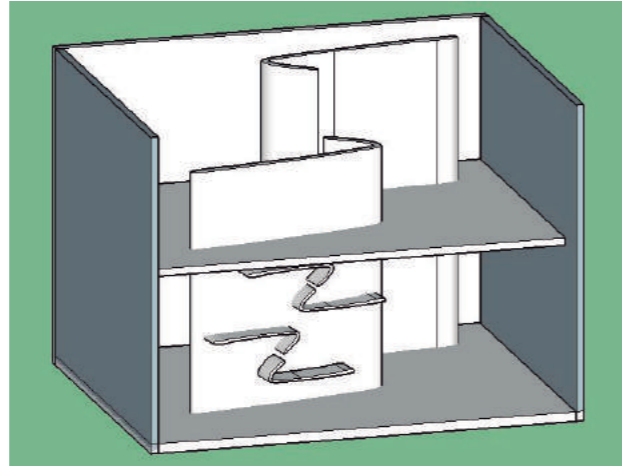
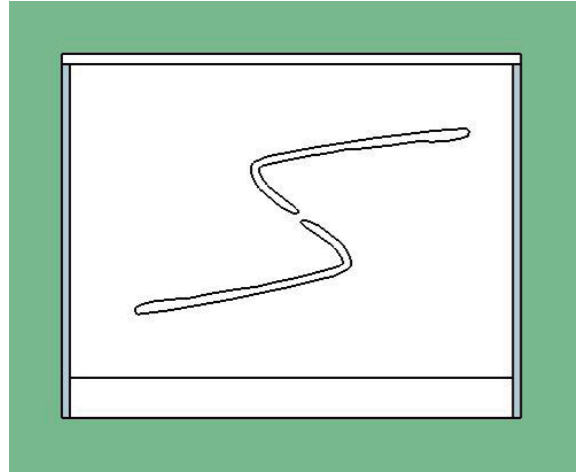
OBSERVATION

It had been done a primary research in the National Botanic Gardens (Dublin). The research consists on doing some sketches of natural elements (leaves and flowers) in a greenhouse. When we had the sketch of the leaf, we had to decompose it in close modules and create simple shapes. The shape selected is the left one, because the module is very simple and aesthetic, and it has been done different combinations of the module to determinate could be the best to the shop.

TRANSFORMATIONS



02 | Concept development of Midfloor Wall Unit

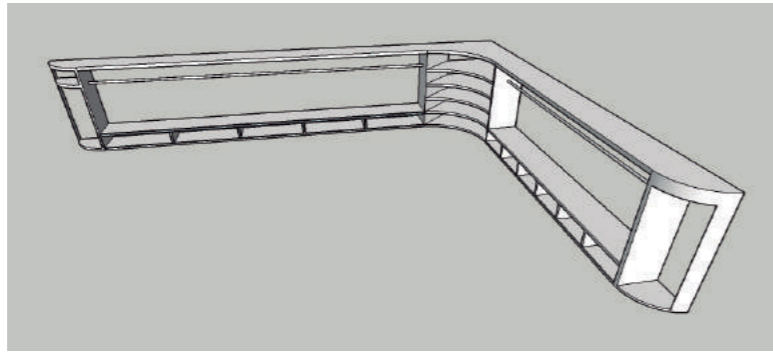


FINAL DESIGN MAIN MODULE

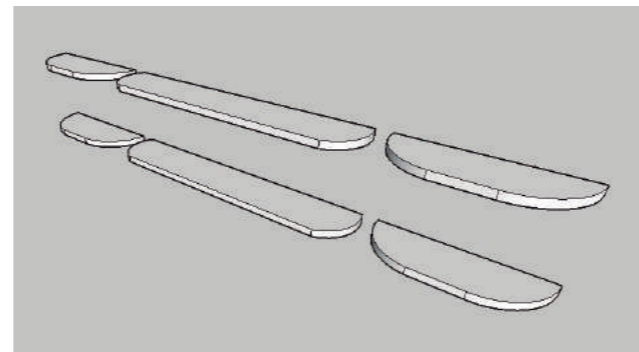
It has been done different combinations with some shapes of the primary research and they have been built in Sketchup to have a more realistic view. The final design shown above, is the choice with more possibilities of combination inside the shop.

03 | Units

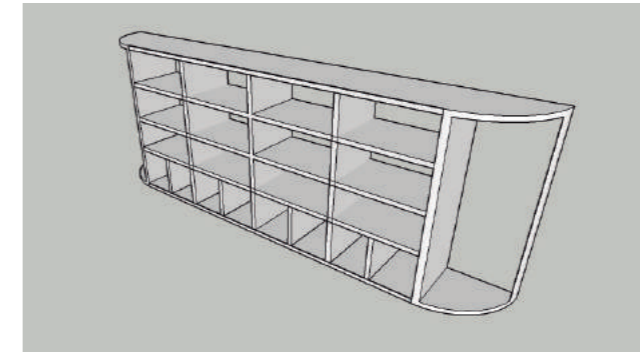
WALL UNITS



Clothes and shoes

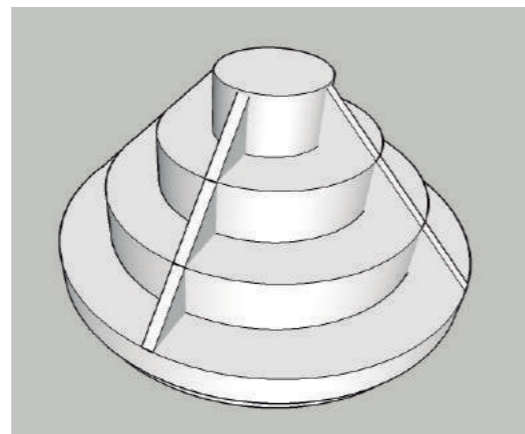


Complements

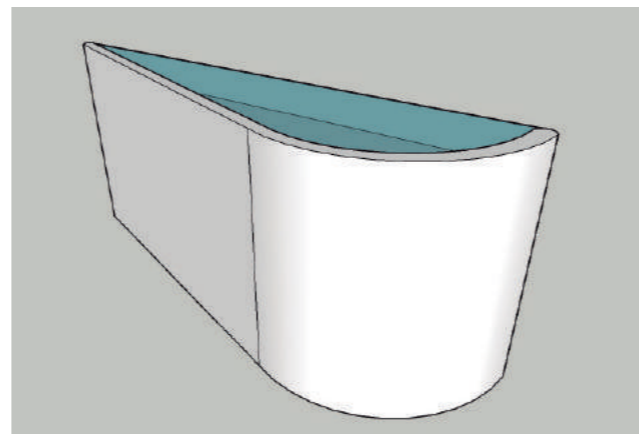


Clothes and shoes

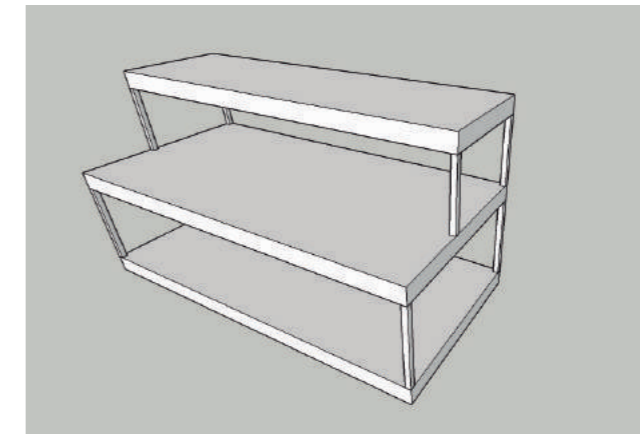
MID FLOOR UNITS



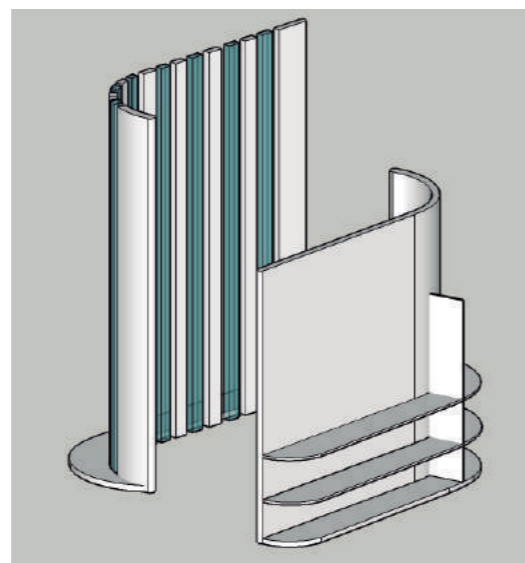
Cosmetics



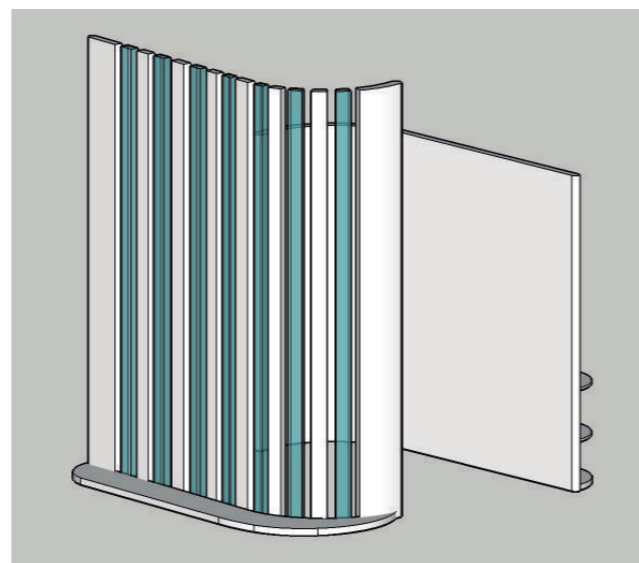
Cash desk



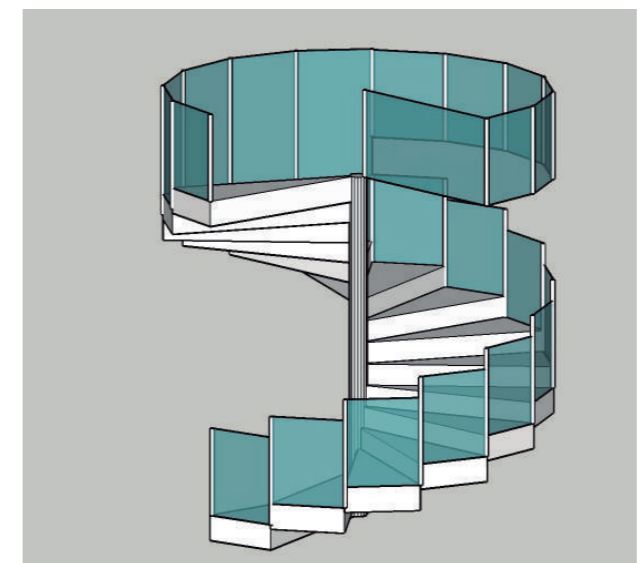
Clothes and shoes



Main Module - View 1

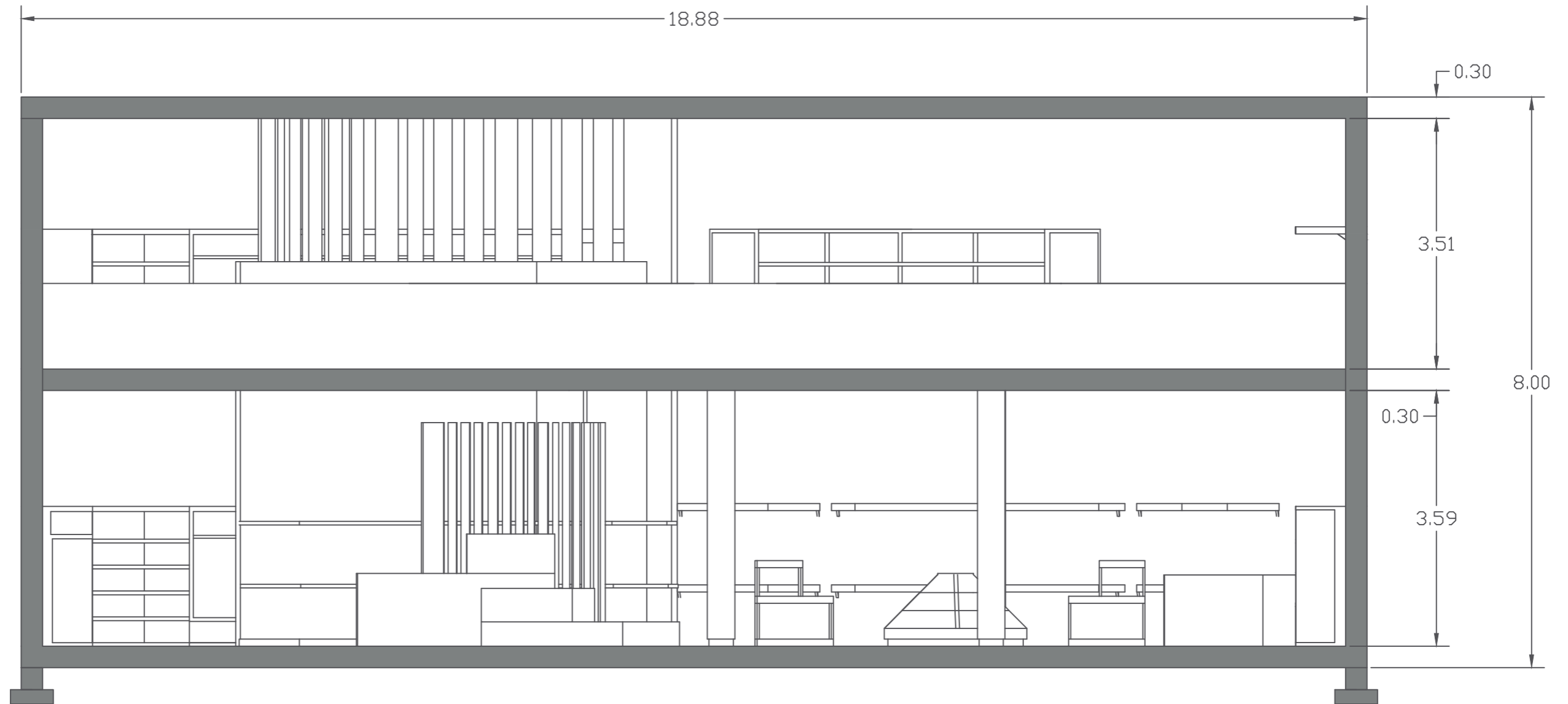


Main Module - View 2



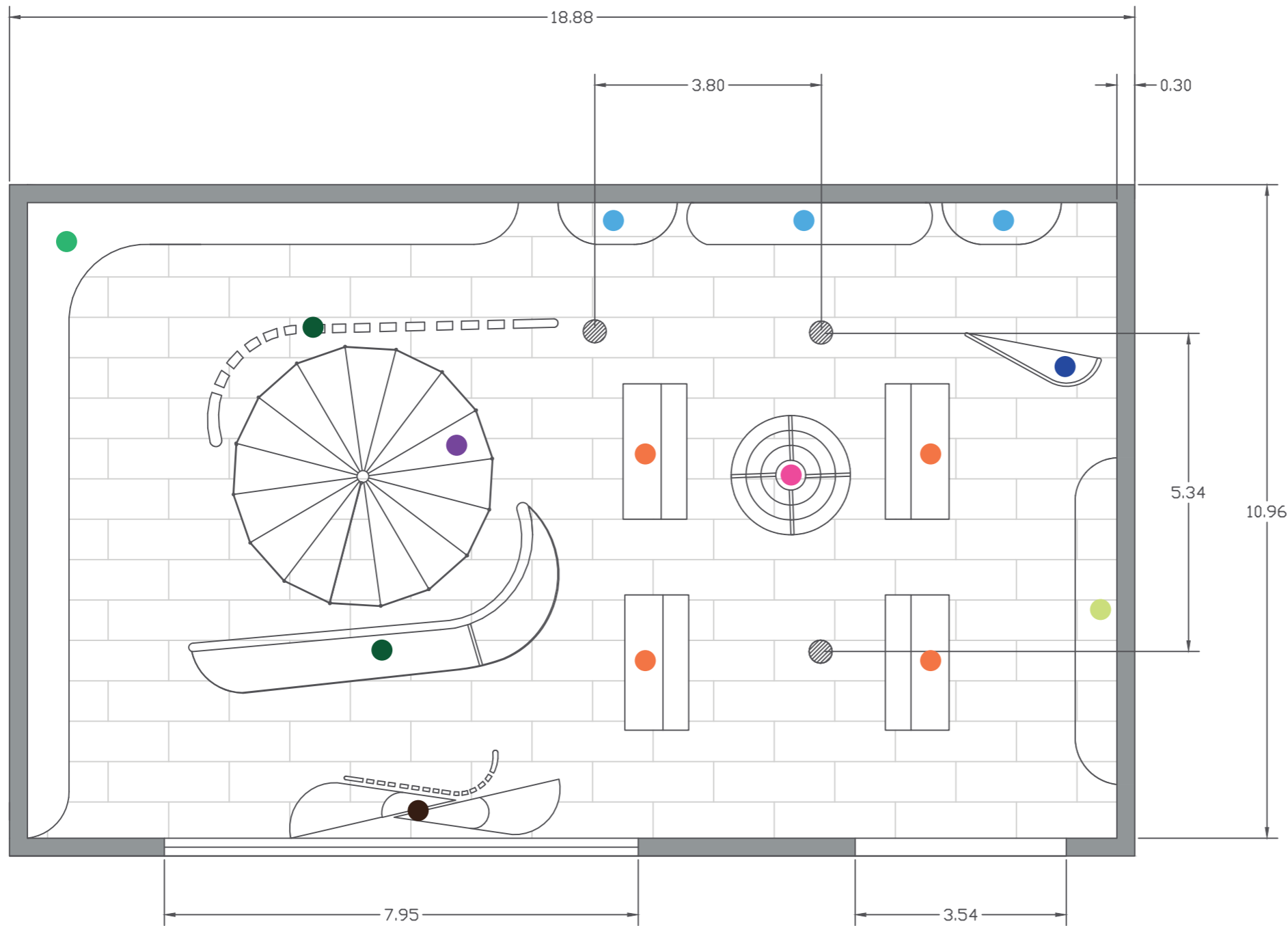
Stairs

SECTION



measures in m

GROUND FLOOR

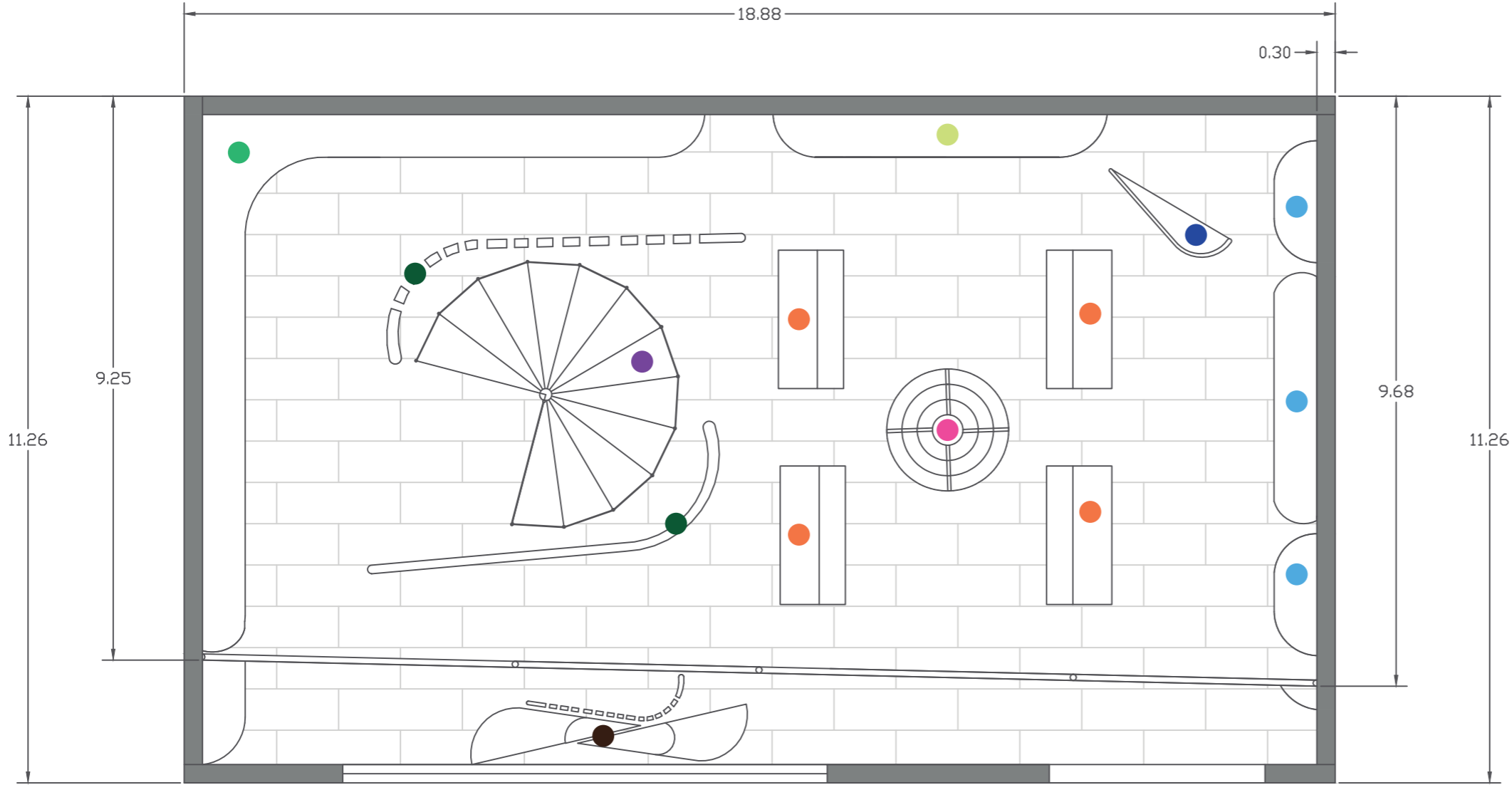


UNITS

- Wall Unit - Complements
- Wall Unit 1 - Clothes and Shoes
- Wall Unit 2 - Clothes and Shoes
- Mid Floor Unit - Clothes and shoes
- Mid Floor Unit - Cosmetics
- Stairs
- Cash desk
- Main Module
- Window merchandising

measures in m

FIRST FLOOR

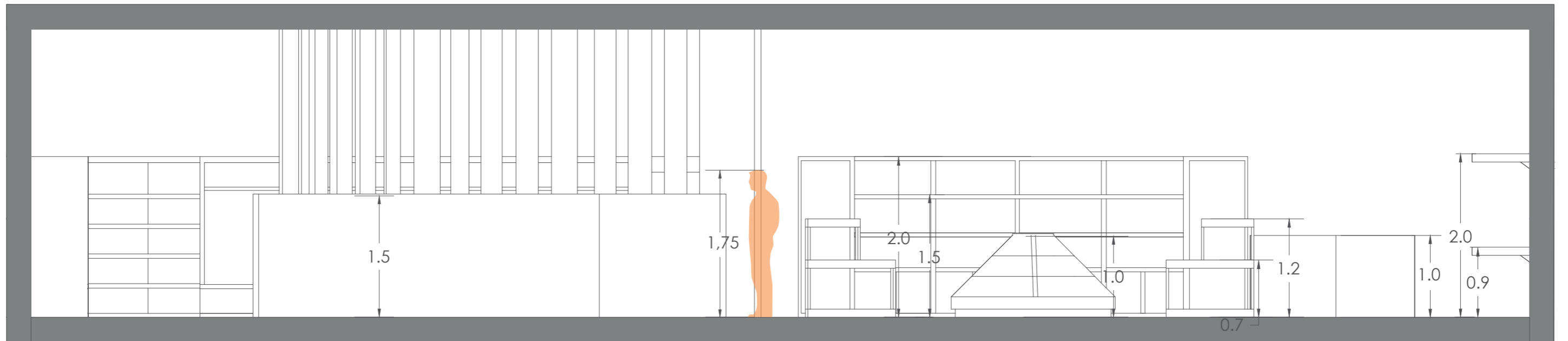


UNITS

- Wall Unit - Complements
- Wall Unit 1 - Clothes and Shoes
- Wall Unit 2 - Clothes and Shoes
- Mid Floor Unit - Clothes and shoes
- Mid Floor Unit - Cosmetics
- Stairs
- Cash desk
- Main Module
- Window merchandising

measures in m

05 | Ergonomics

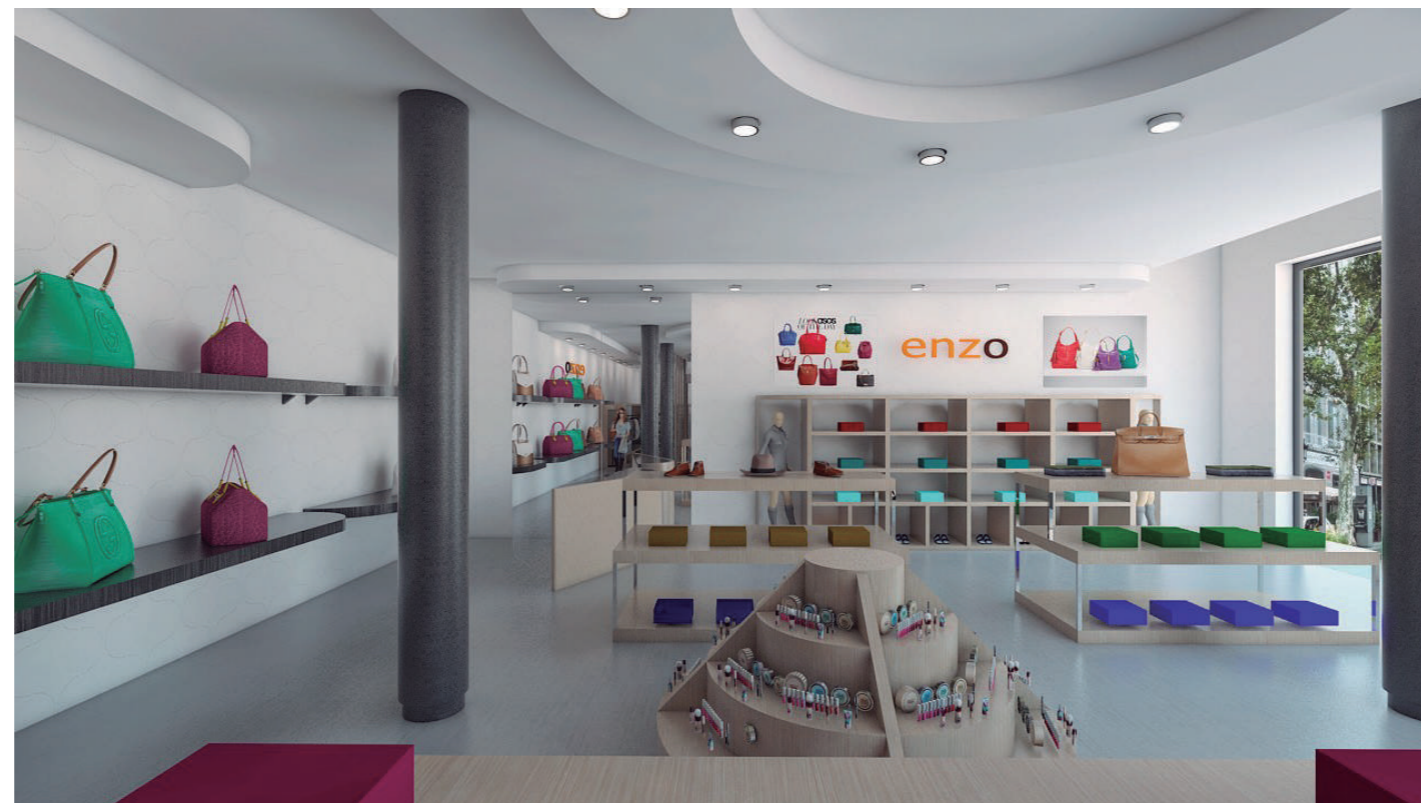


measures in m

SKETCHUP MODEL



GROUND FLOOR



1st FLOOR



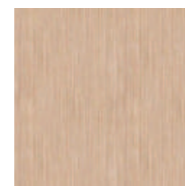
EXTERIOR



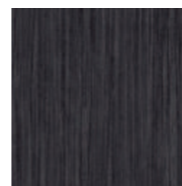
WINDOW



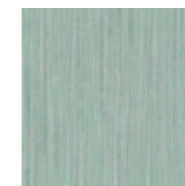
07 | Materials



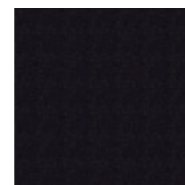
Formica
Laminate



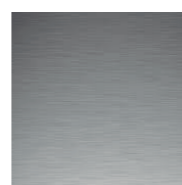
Formica
Laminate



Formica
Laminate



Granite
Dark Grey



Metal



Quarz
Light Grey

PRODUCT VISUALISATION

PDVS 3411

ASSESSMENT 1

BUILDING BROCHURE

Leinster House

DUBLIN





INDEX

01 **HISTORY**
Background and local significance

02 **ACCESSIBILITY**
to the public

03 **ARCHITECTURAL ASPECTS**
Internal and external

04 **ANNUAL EVENTS**
Special and significant



01 | HISTORY



The house was originally known as Kildare House because the Earl of Kildare, James Fitzgerald. He ordered to build it between 1745 and 1747. Fitzgerald has the purpose to create the most important of Dublin Georgian Mansions to reflect his high status in Irish Society. On becoming the Duke of Leinster in 1776 the house was renamed Leinster House. The house remained in the family for seventy years. In 1875, Augustus Frederick, the third Duke of Leinster, sold the mansion to the Royal Dublin Society.

A number of historic events took place in the house. The first balloon ascent in Ireland was made in July 1783 by Richard Crosbie from Leinster Lawn, and also The Great Industrial Exhibition that was opened on 12 May 1853.

After the establishment of the Irish Free State in 1922, The Government secured a part of Leinster House for parliament use. The entire building was acquired by the State in 1924.

Nowadays, Leinster House is the seat of the two Houses of the Oireachtas (National Parliament), comprising Dáil Éireann (The House of Representatives) and Seanad Éireann (the Senate). It is recognised the primacy of Dáil Éireann in regard to the Parliament, in that a general election to Seanad Éireann must take place not later than 90 days after the dissolution of the Dáil.

Different public institutions of the present day owe their origins to the RDS: The National Botanic Gardens, the National College of Art and Design, the Dublin Veterinary College, the National Library, the National Gallery and the National Museum.



The Houses of the Oireachtas offers 30 minute free guided tours of Leinster House during the year. There are two types of visits: Visit sponsored by a TD or Senator, and Walk-up tours for people living in the State or visitors.

The first option, the Walk-up tours of Leinster House are available on Mondays and Fridays (in case the House is not sitting) at 10:30am and 2:30pm. Each tour is limited to the first 30 people who have booked a place who arrive to the Kildare St Gate. The tour focusses on the history of the building and the traditions of Ireland's rich parliamentary heritage. A guide accompanies visitors through the building and, includes a visit to the public galleries of the Dáil and Seanad debating chambers.

The other option is to take a tour contacting the local TD or Senator with the contact details of the person who want to join the tour, the number in the party and the date and time. This type of tours is available Monday to Friday at 10:30 am, 11:30 am, 2:30 pm and 3:30 pm. When the Dáil and Seanad are in session additional tours are available on Tuesday and Wednesday evening at 7:00 pm and 8:00 pm.



ARCHITECTURAL ASPECTS

03



Leinster House was designed by Richard Cassels in 1745 for the Earls of Kildare and Leinster, the Fitzgeralds. Leinster House was built on the edge of Molesworth Fields is a country house constructed in town. It is of Ardbraccan limestone with the east or garden front in granite. All the ornamental parts and the Kildare Street front of Leinster House are of Portland stone.

The obelisk in front of the building is dedicated to Arthur Griffith, Michael Collins and Kevin O'Higgins, the architects of independent Ireland.

The projecting bow on the northern side of the house is said to be the prototype for the bow fronted White House in Washington, particularly on the building's first and second floors. The architect of the White House was James Hoban, who studied architecture at the Dublin Society's School where he won a prize in 1780.

Due to their social position, the Kildares place great importance on the interior of their mansion. The main staircase below is one of the most elaborates in Dublin. This staircase is different to others because it does not rise directly out of the main hall but from a room adjacent. Nowadays, it leads to the Seanad Chamber. The Dáil chamber is in a lecture theatre installed by the Royal Dublin Society in the 19th Century. The Seanad sits in the old first floor saloon. This room has an elaborate ceiling design.

Leinster House has two main entrances. The most important is on Kildare Street, and to the left is the National Library next to the National Museum.

04 | ANNUAL EVENTS

There are different public events during the year such as September Culture Night and October Open House Dublin.

The Culture Night, where different arts and cultural organisations open their doors. The Houses of the Oireachtas have participated some years in association with the Temple Bar Cultural Trust.

In last editions a lot of people passed through the doors of parliament to enjoy an evening of culture and art in the surroundings of Leinster House. There is also guided tours of Leinster House, with access to the debating chambers of both Dáil and Seanad Éireann, and walk through the historic corridors of the Houses of the Oireachtas and view the home of the Oireachtas Committee system in Leinster House 2000.

On the other hand, the Leinster House also opens its door in the October Open House Dublin, which is an important celebration of architecture in Ireland presented by the Irish Foundation. During that time, thousands of visitors can participate in different activities, tours and lectures, such as brass bands, music events, face-painting, strolling players, and a children's parliament.



ASSESSMENT 2

PRODUCT BROCHURE

Cordless Drill

POWER TOOL

The Cordless Drill is a tool that is used to drill different materials. It is appropriate to different uses, being suitable to work both at home and in the construction sectors due to its huge variety of functions. Its main advantage is that it is very easy to use without the need to be a specialist. It has a great accuracy and can have up to 3 speed settings, achieving great results using the proper diameter drill, depending on the hole that is going to make and with the help of a chuck that make easier the interchange of the cutting tools. Moreover, it can be used in different surfaces such as wood, plastic, stone, granite, cement, concrete, light metals and even some types of iron and steel.



DETAILS



ERGONOMIC HANDLE

It allows to use the tool in a comfortable way, adapting it to the shape of the hand.



CHUCK SLEEVE

It allows to adjust or loosen and remove the drills manually



BATTERY

The power depends on the voltage of the battery. Some models, designed for professional users, can come up to 32 V.

PARTS



A VERSATILE TOOL

In this case, it is the cordless drill, which is portable, so it allows to the user a freedom of movement because it is not necessary to be connected to a source of energy.

In addition, it has a great variety of accessories that fit to the main structure, such as a milling cutter, a screwdriver, a paint stirrer or a sanding stone.

