

BAWIT

Dining Chair

Ahmed N o u r

صمم في مصر

DESIGNED IN EGYPT



A Design for a concept & also solving a problem

Mood Board

FLEXIBILITY · DYNAMISM
DURABILITY · LIGHTNESS · SUSTAINABILITY



INSPIRATION

Pre-islamic geometry – Coptic art

Painted panels with geometrical patterns from Bawit, the walls of an architectural structure that was probably used as a **refectory** (dining room)

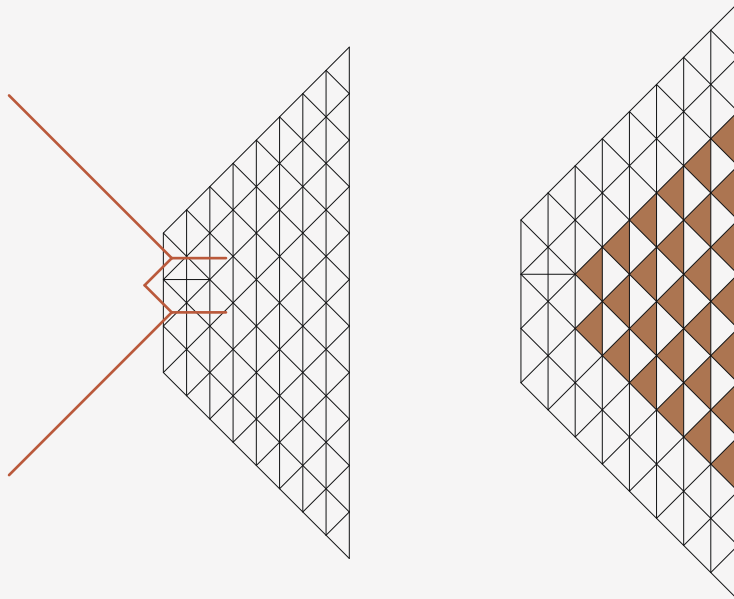
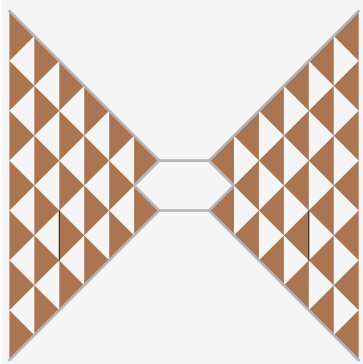
Tempera on mud plaster; 6th/7th century.



Room No 6. East wall geometric decorations
(going from right to left) (after Maspero 1943 P. XVI)



Analysis

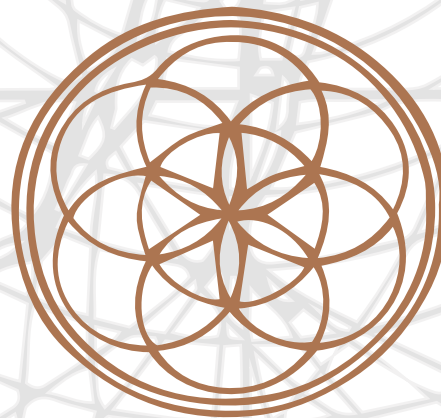
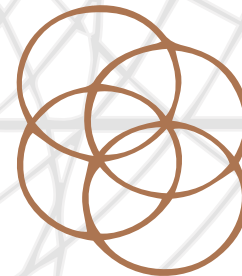
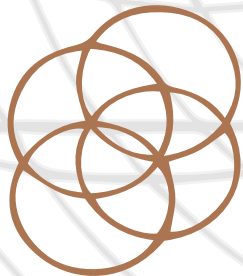
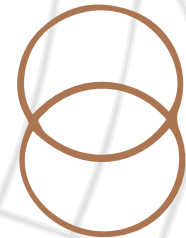
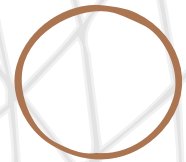


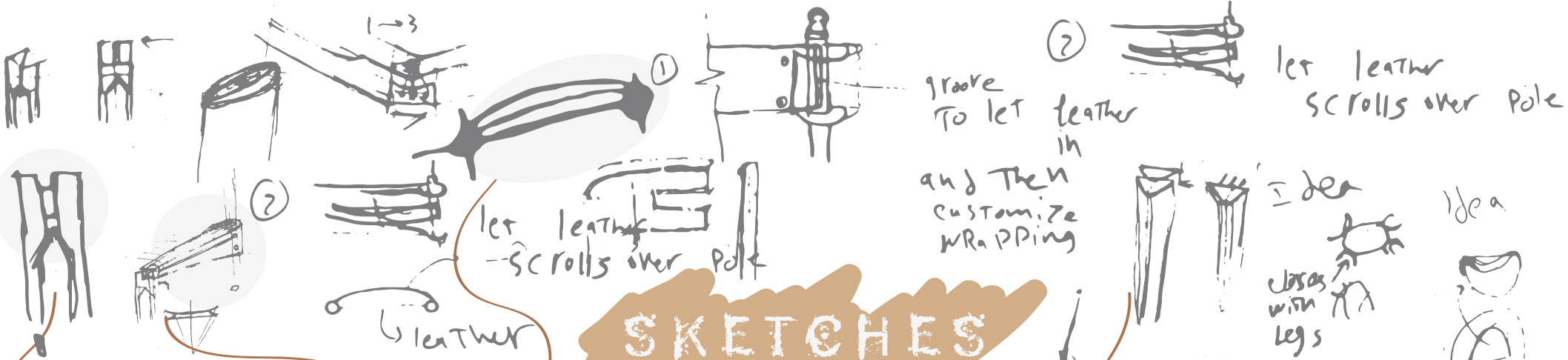
Hard lines accentuated by soft curves

● CONCEPT ●

**“Learn how to see.
Realize that everything connects
to everything else.”**

– Leonardo da Vinci

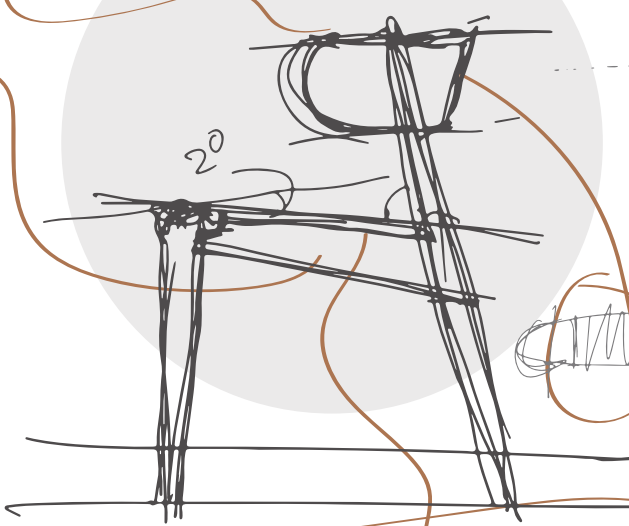




SKETCHES



solution for leather + back ble



20

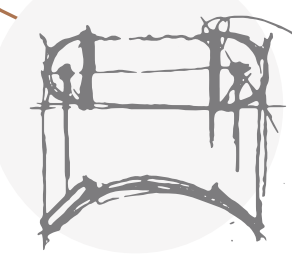
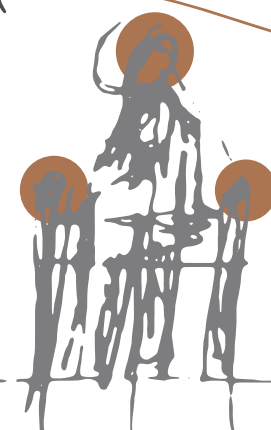
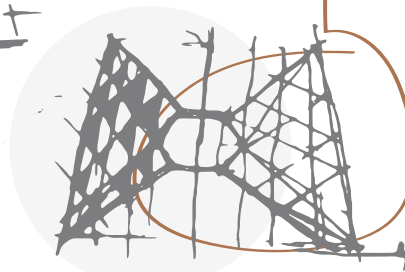
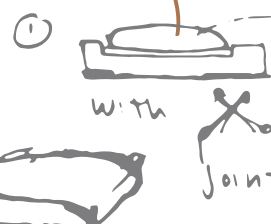


groove added

leather Band 100

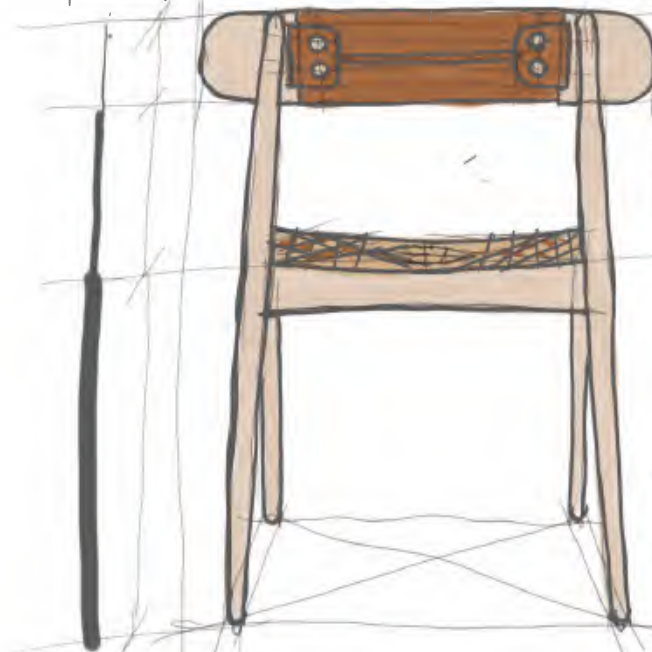
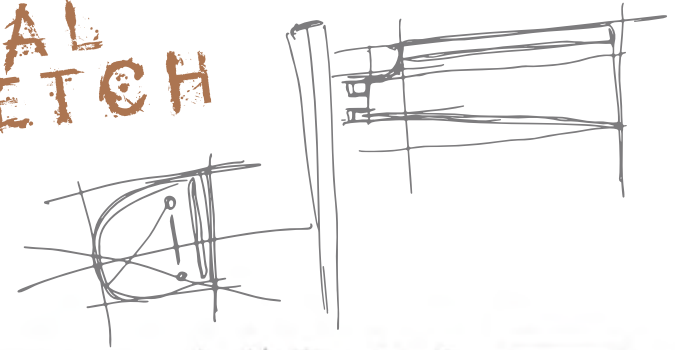
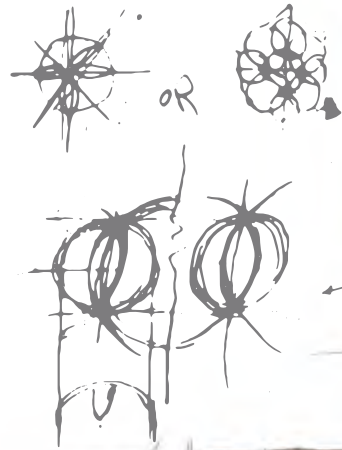
③ Post and Rung (weaving)

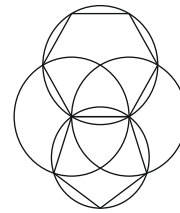
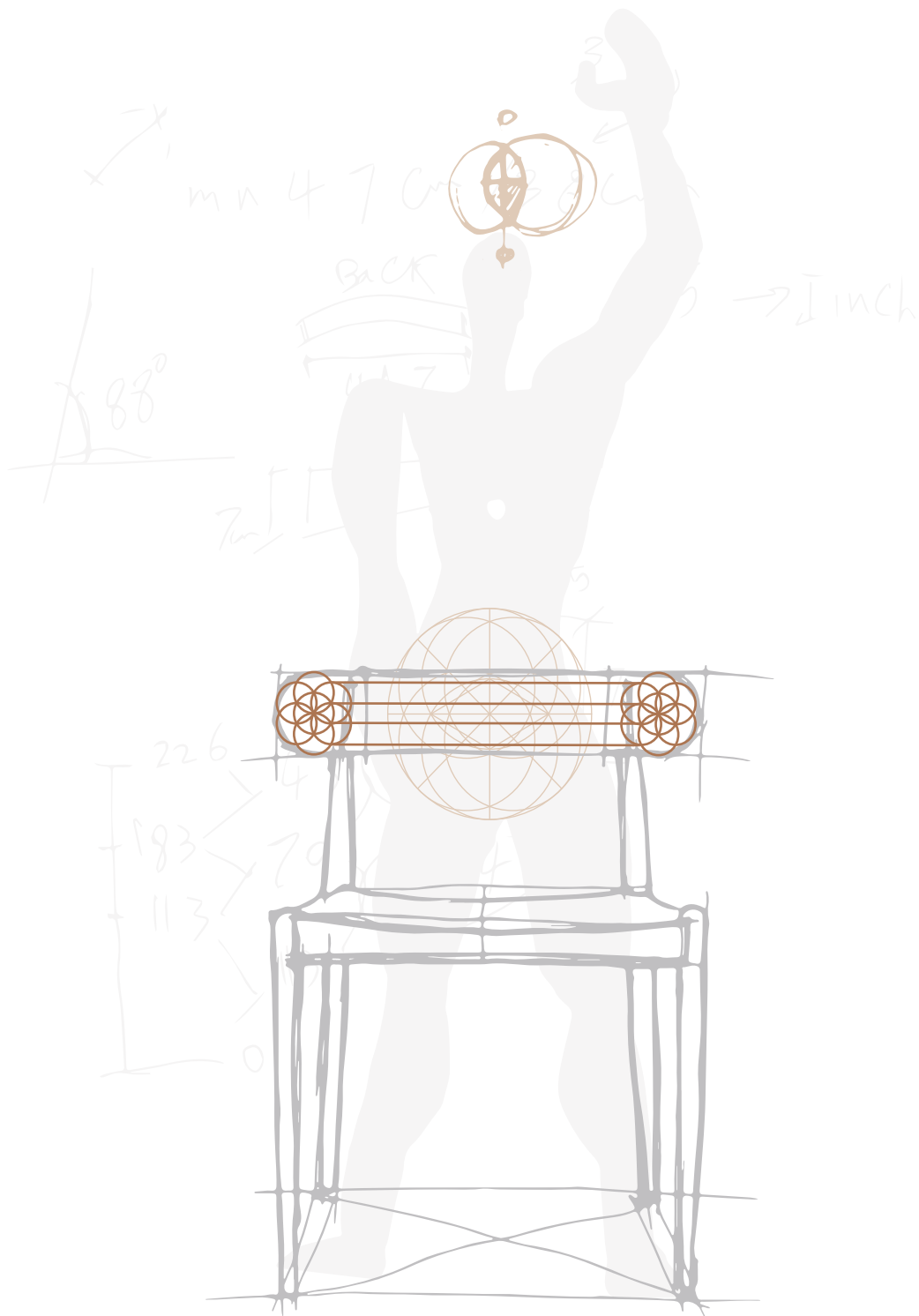
solution for seat



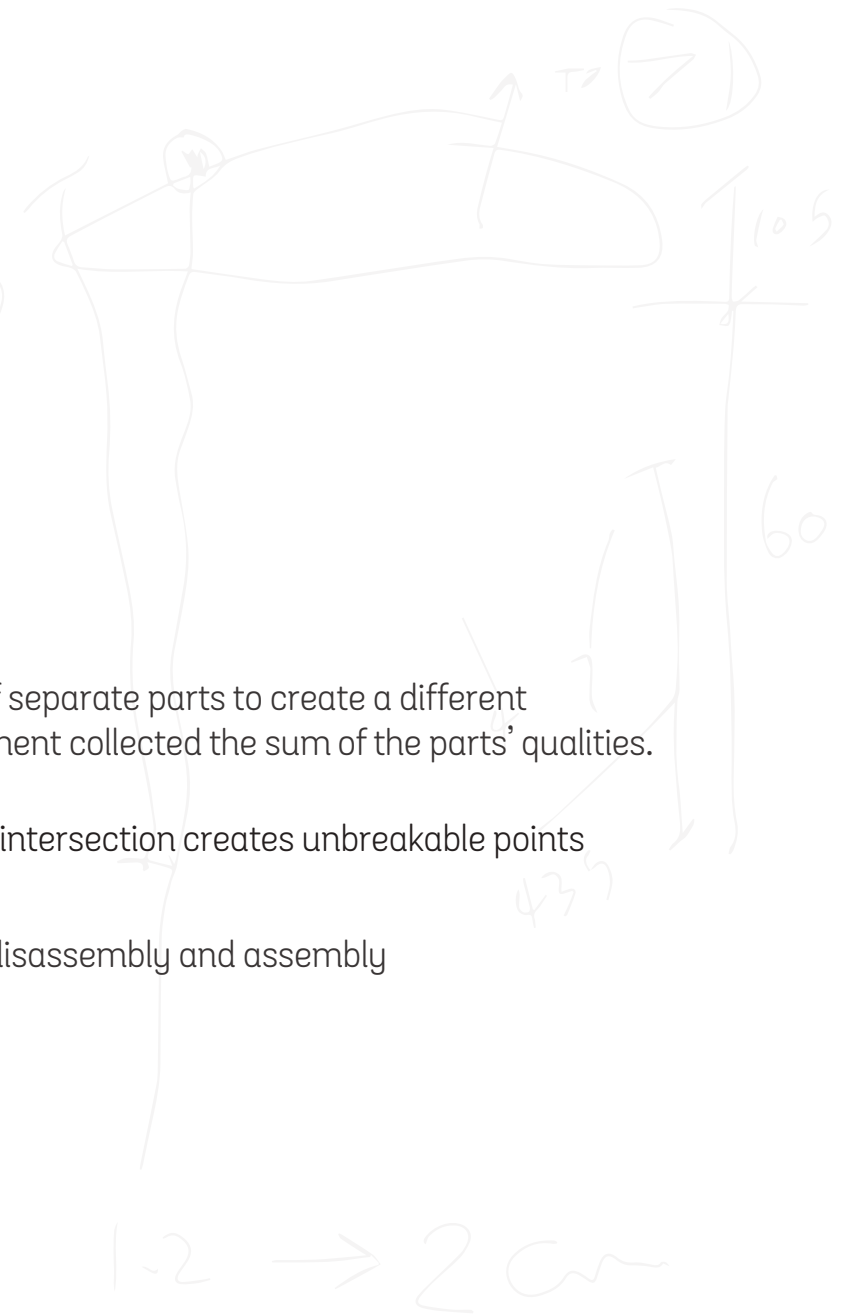
leather thickness

FINAL
SKETCH





- Connection of separate parts to create a different major component collected the sum of the parts' qualities.
- Interlacing or intersection creates unbreakable points
- Flexibility by disassembly and assembly



Materials

Steamed
beech wood

Natural leather
sheet (terracotta)

Linen Arizona
(off white)



Recon Foam



Padding



Plywood

Beech wood
Biege washed

Fabric Variations

RAL 1001

Wood

RAL 8023

Leather

RAL 1013

Fabric



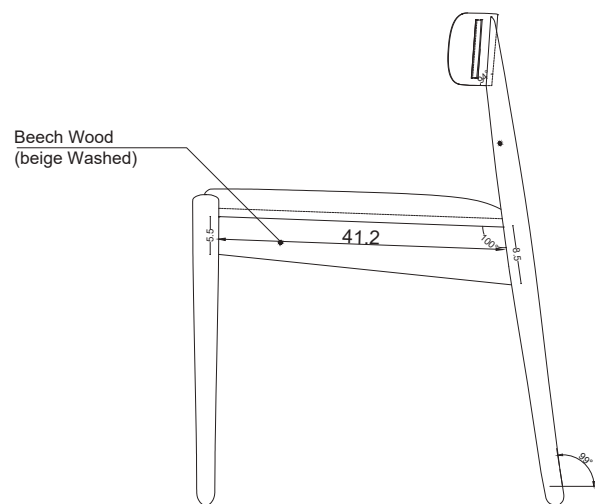
biege linen

Houndstooth

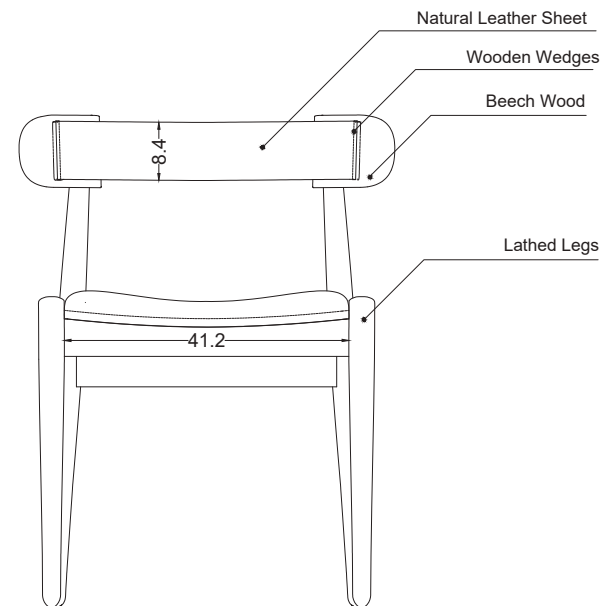
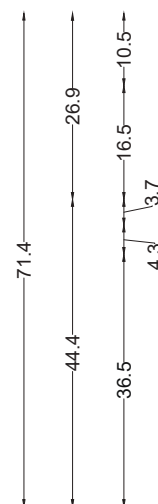
Linen tweed beige

Jimmy tweed beige

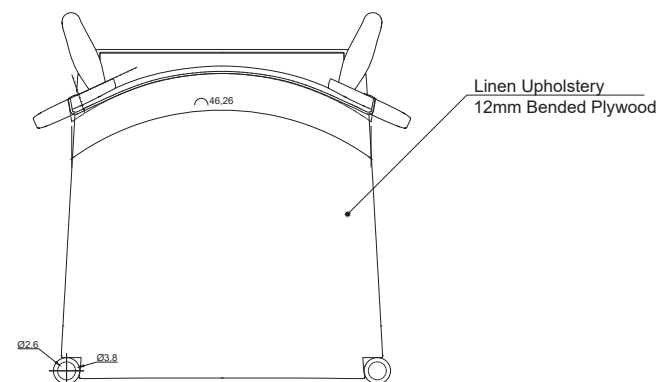
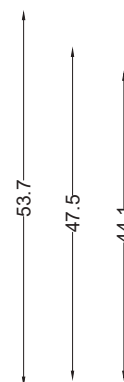
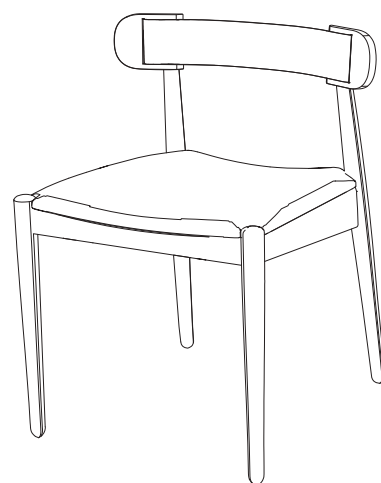
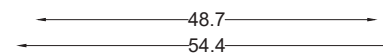
2D VIEWS



Side V.



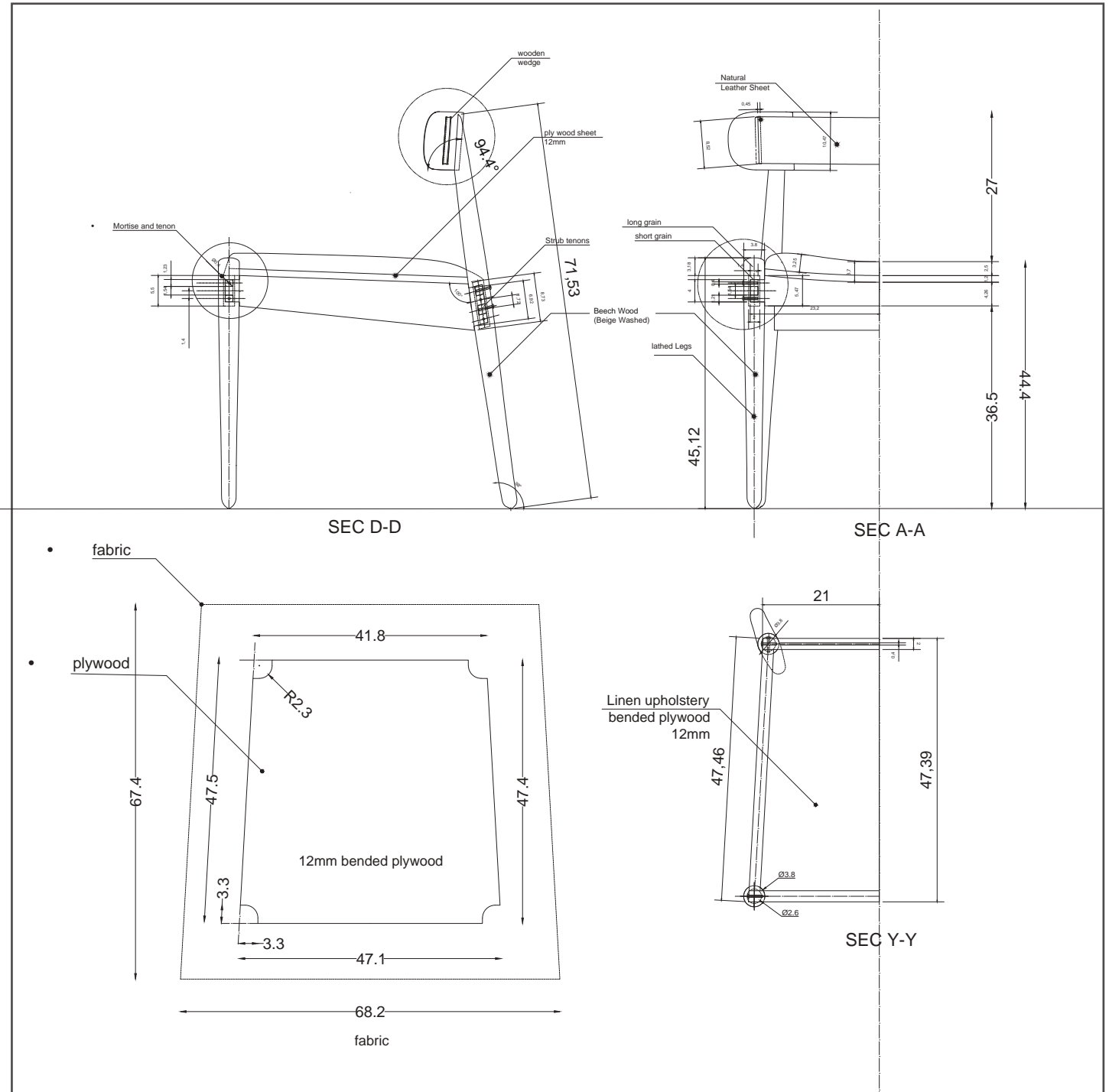
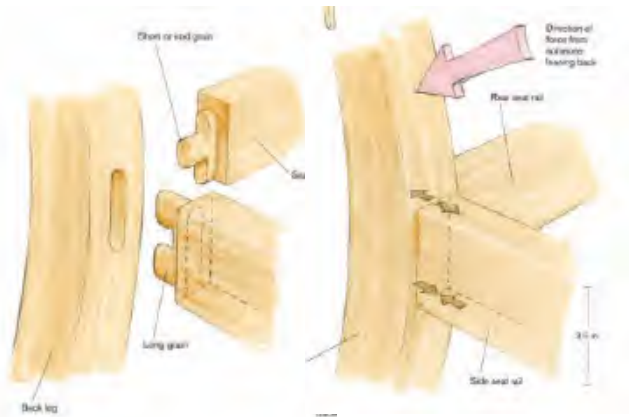
Front V.



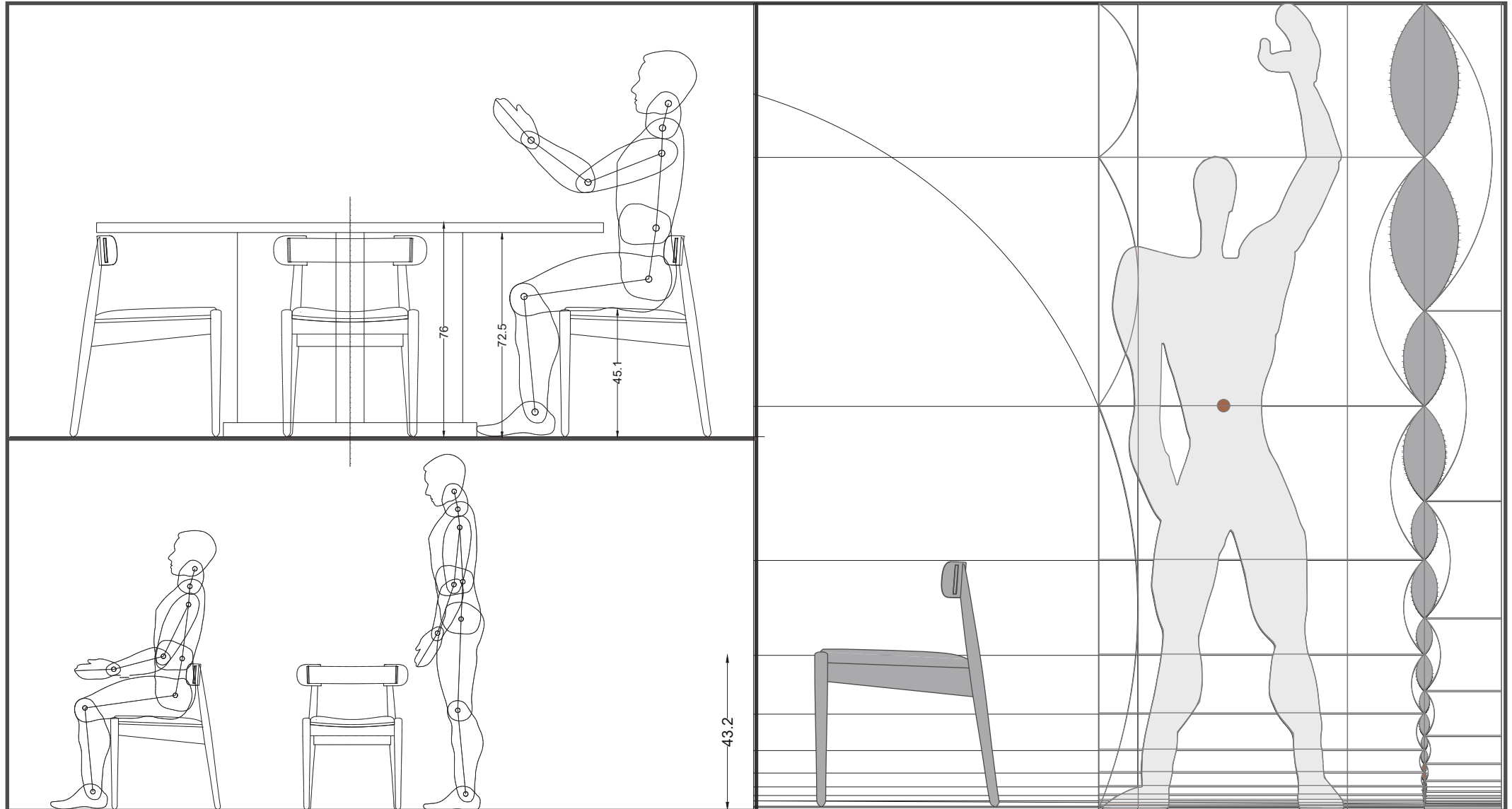
Top V.



WorkShop Drawing



ERGONOMICS





Humane
Aspect





3D Visuals



- **Modular** parts
- **Unified** materials
- **Reduce** manufacturing process.
- Lightweight
- **Easily** assembled

Durability weighted against *delicacy*

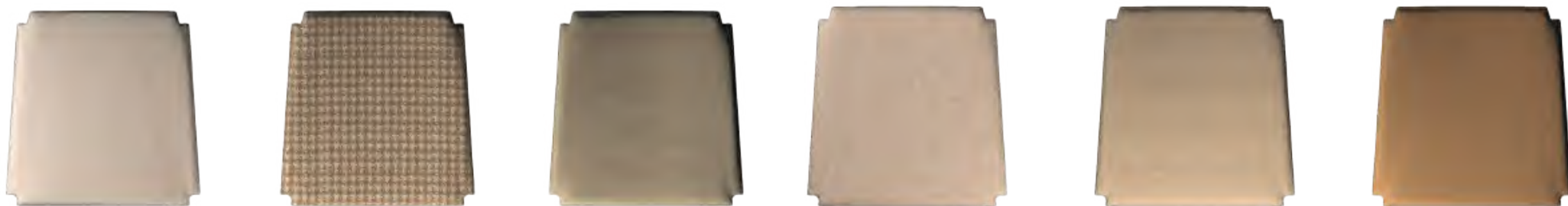
Strength against *comfort*

Weight against *beauty*



Fabric Variations









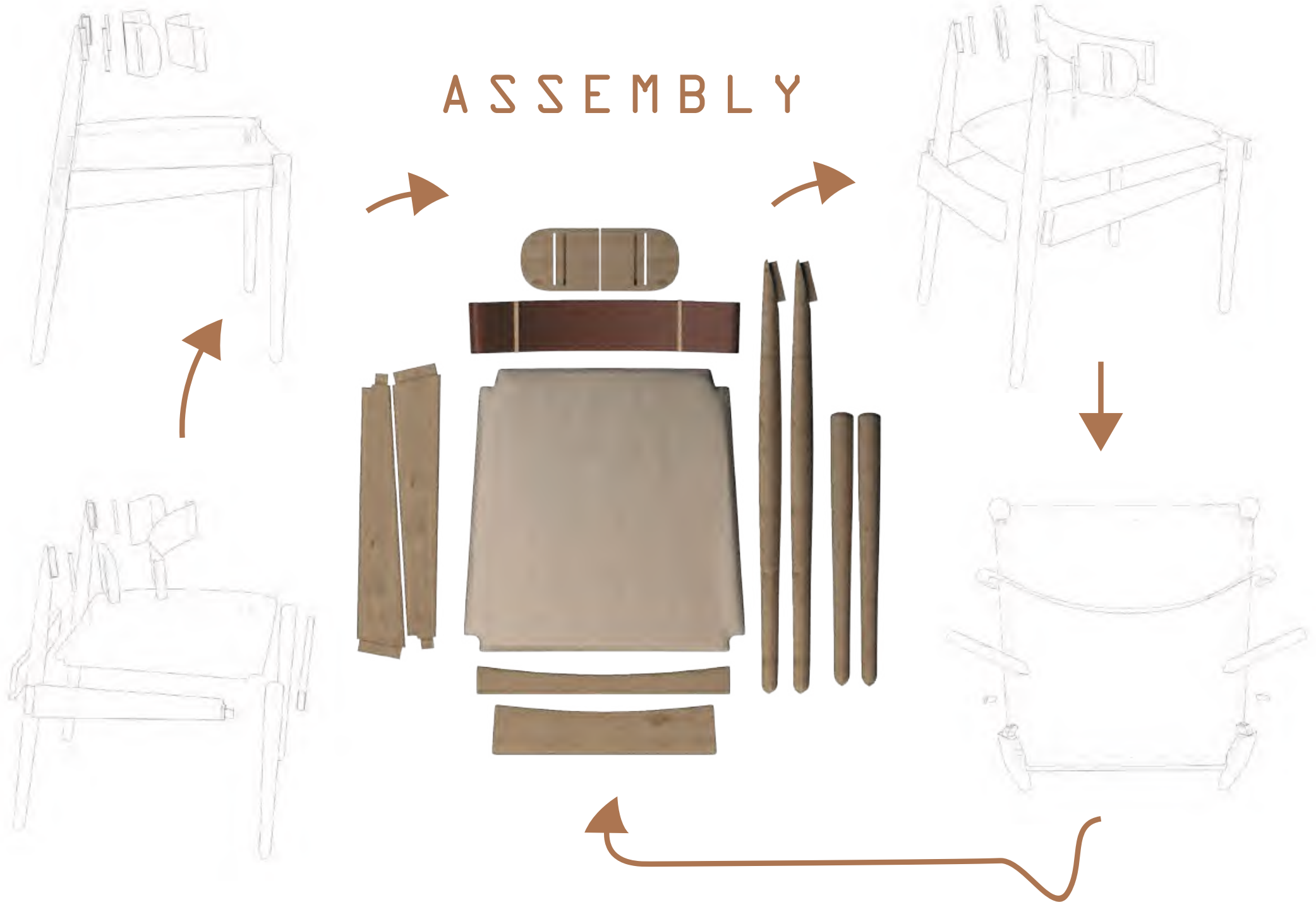


*'The most difficult
member of furniture
family to master,
a chair''*

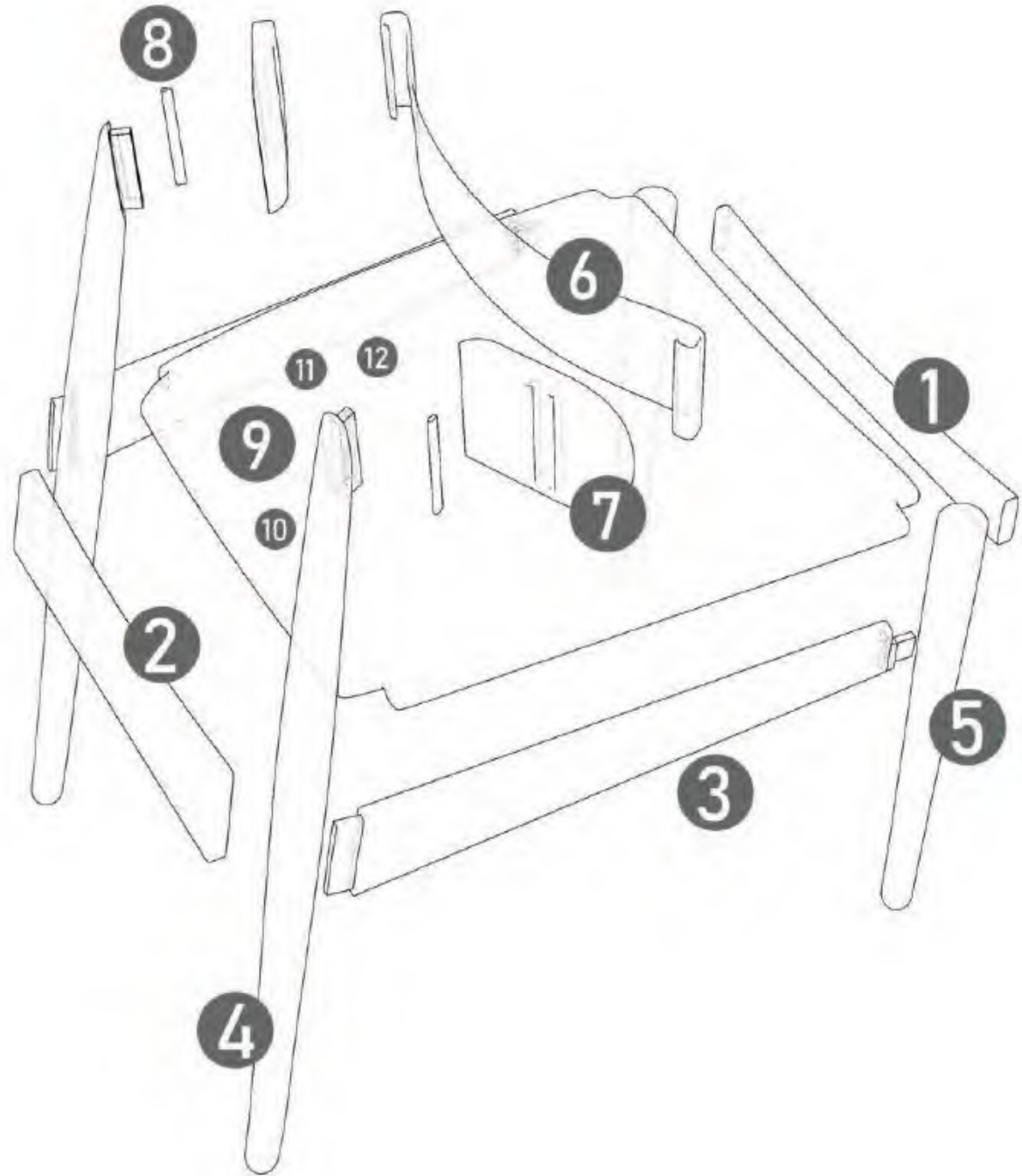
– Carl Malmsteen



ASSEMBLY



Bill of Materials



N	piece	Q	Material	notes	Dim (shown) (cm)	Total	Price for unit
1	Front rail	1	Beech Wood	3cm thickness	46.4*5.5*2 (47*6*3)		
2	Rear rail	1	Beech Wood	3cm thickness	42*8.3*2 (43*9*3)		
3	Side rail(s)	2	Beech Wood	3cm thickness	47.5*8.3*2 (48*9*3)		
4	Back leg(s)	2	Beech Wood	5cm thickness - Lathed	D3.8+1.5*71.6 (72*5)		
5	Front leg(s)	2	Beech Wood	5cm thickness - Lathed	D3.8*45 (45.5*5)		
7	Crest rail	2	Beech Wood	3cm thickness	13*10.4*1.5 (13.5*11*3)		
6	Back leather sheet	1	Natural leather Sheet (3.5mm)	terracotta brown full grain, semi-aniline leather with a soft hand and subtle sheen. Full grain leather with exceptional durability and anti-bacterial finish.	52.3*8.4*0.358 (46.3+1.5+2.5+2)		
8	Back wedge(s)	2	Steamed beech wood	3cm thickness	8.5*0.8*0.4 (9*3*1)		
9	Plywood	1	12mm	bended	47.2*42*1.2		
10	Fabric upholstery	1	Arizona (off white)	https://esorus.com/product/fabrics/arizona-off-white-22138 (64% cotton 36% linen) 140cm2	68*68		385
11	PADDING (upholstery)	1	PU Dacron	5mm thickness	47*47.5		
12	Foam (upholstery)	1	Recon/chip - Medium density	recycled foam manufactured 2.5cm thickness	47*47.5		

Beech wood

Thickness	Dims	Q	Dims	total
3cm	47*6	1	47*6	232*57 cm
	43*9	1	43*9	
	48*9	2	96*18	
	14*11	2	28*22	
	9*1	2	18*2	
5cm	72*5	2	144*10	235*20 cm
	45.5*5	2	91*10	

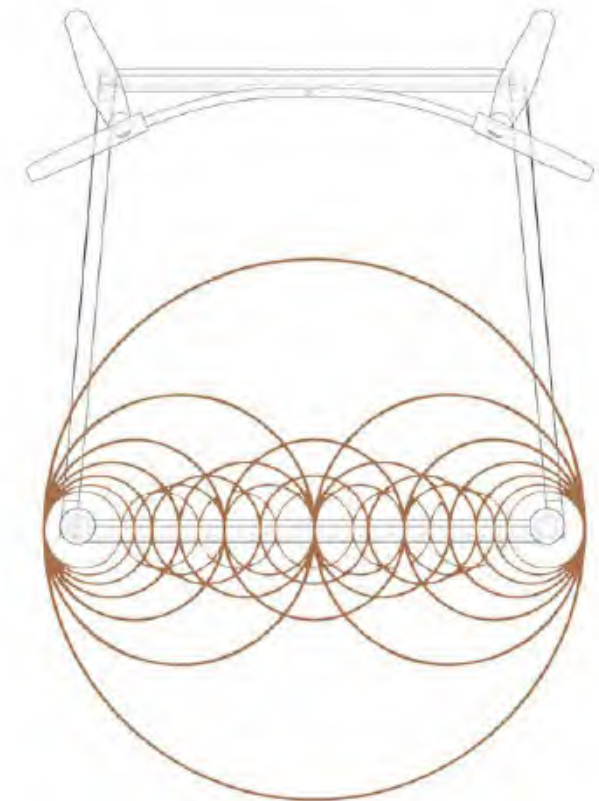
*"A wave is never found alone,
but is mingled with the other waves."*

- Leonardo da Vinci

Leather data sheet

OUNCES	IRONS	GRAPHIC	FRACTIONAL INCHES	DECIMAL INCHES	MILLIMETERS	APPLICATION
1 oz.	0.75	—	1/64	0.016	0.41 mm	Linings, Shoes, Boots, Pouches, Purses, Gussets, and Garments
2 oz.	1.50	—	1/32	0.031	0.78 mm	
3 oz.	2.25	—	3/64	0.047	1.19 mm	
4 oz.	3.00	—	1/16	0.063	1.60 mm	Purses, Shoes, Boots, Pouches, Aprons, Chaps and Knife Sheaths
5 oz.	3.75	—	5/64	0.078	1.98 mm	
6 oz.	4.50	—	3/32	0.094	2.39 mm	
7 oz.	5.25	—	7/64	0.109	2.78 mm	
8 oz.	6.00	—	1/8	0.125	3.18 mm	Belts, Saddlebags, Bridles, Halters, Dog Collars, Straps, Scabbards, Holsters, Sheaths, Tool Pouches and Slings
9 oz.	6.75	—	9/64	0.141	3.58 mm	
10 oz.	7.50	—	5/32	0.156	3.96 mm	Heavy Belts and Strap Goods, Gun Belts, Stirrup Straps, Cattle Halters, Heavy Horse Halters and Leads
11 oz.	8.25	—	11/64	0.172	4.37 mm	
12 oz.	9.00	—	3/16	0.188	4.78 mm	
13 oz.	9.75	—	13/64	0.203	5.17 mm	
14 oz.	10.50	—	7/32	0.219	5.57 mm	Safety Belts*, Harnesses, Stirrup Straps, Saddle Skirting, Soles and Heels, Gunbelts and Machine Belting
15 oz.	11.25	—	15/64	0.234	5.95 mm	
16 oz.	12.00	—	1/4	0.250	6.36 mm	Safety Harnesses*, Work Harnesses*, Saddle Skirting, Soles and Heels

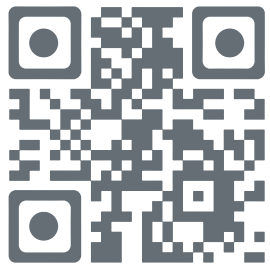
*Always remember that leather is a natural material that's not intended for use on products that carry a high liability or certification of tensile strength. On occasion, leather fibers can become weak without any visible signs of wear. Fall arrest or safety equipment should never be made with leather constructing the strength member. More consistent materials like heavy-duty webbing should be used for strength member construction.



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THANK YOU...

