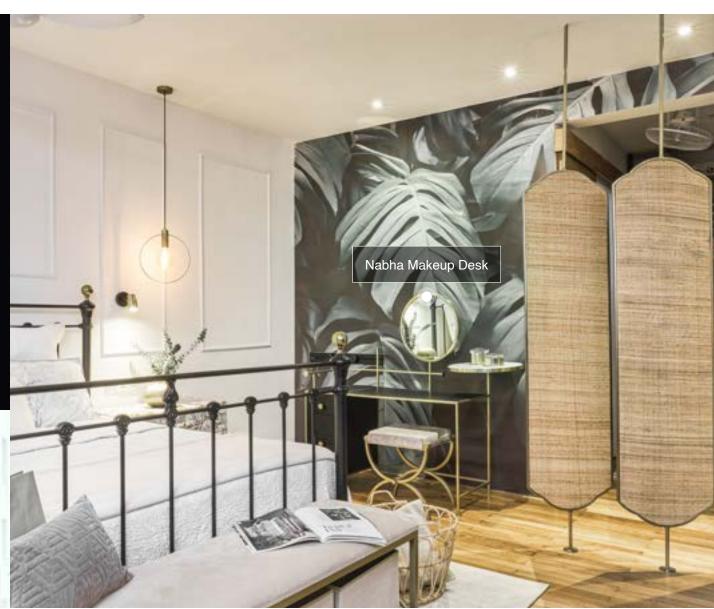


Ipse Showflat

05/10

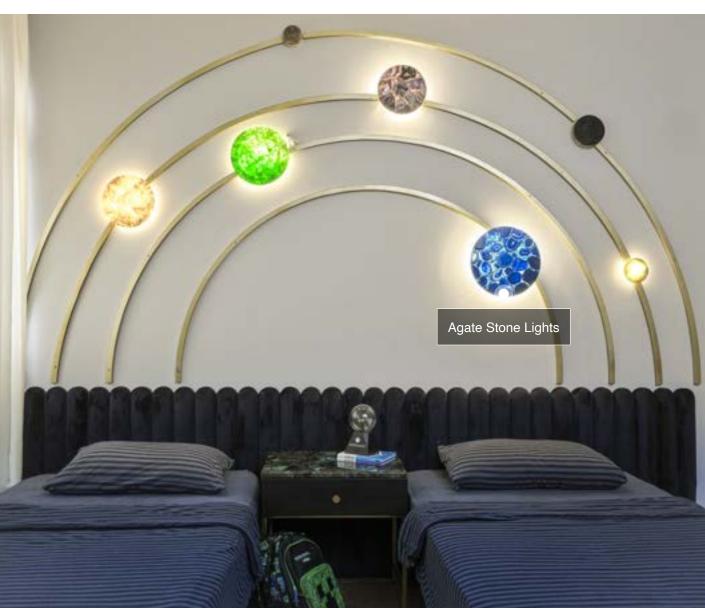




Ipse Showflat

Kids Room 06/10



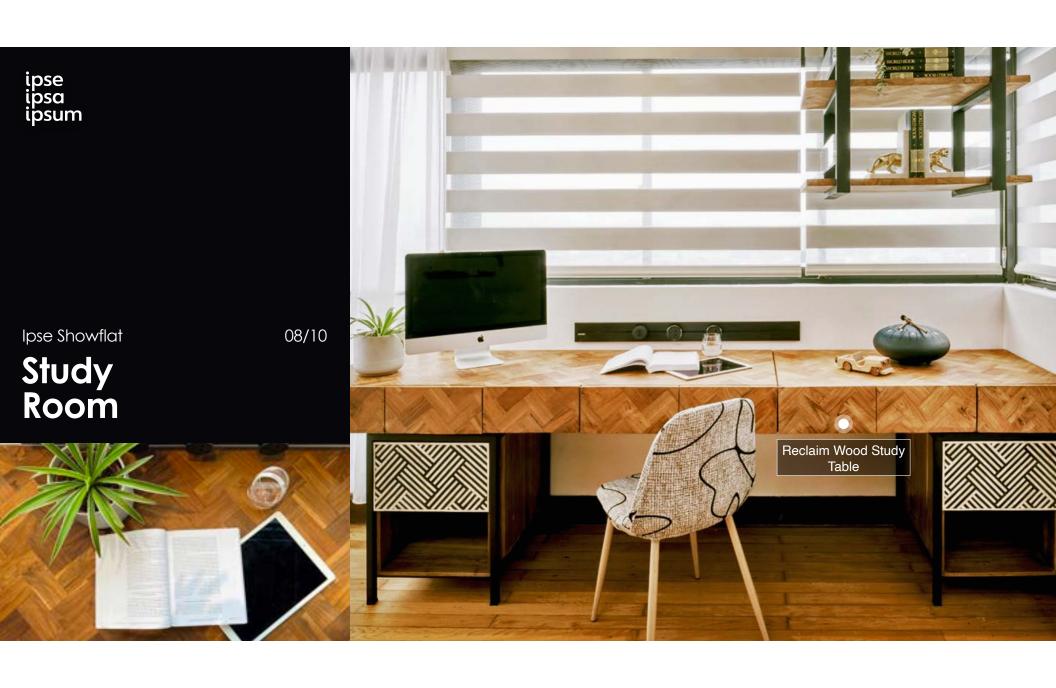


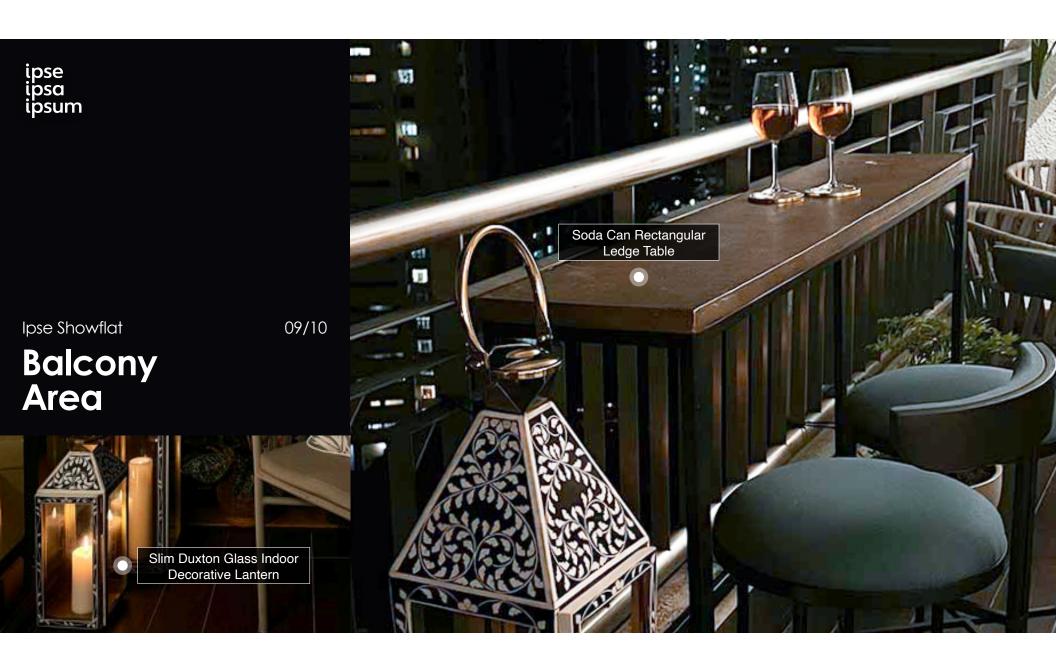
Ipse Showflat

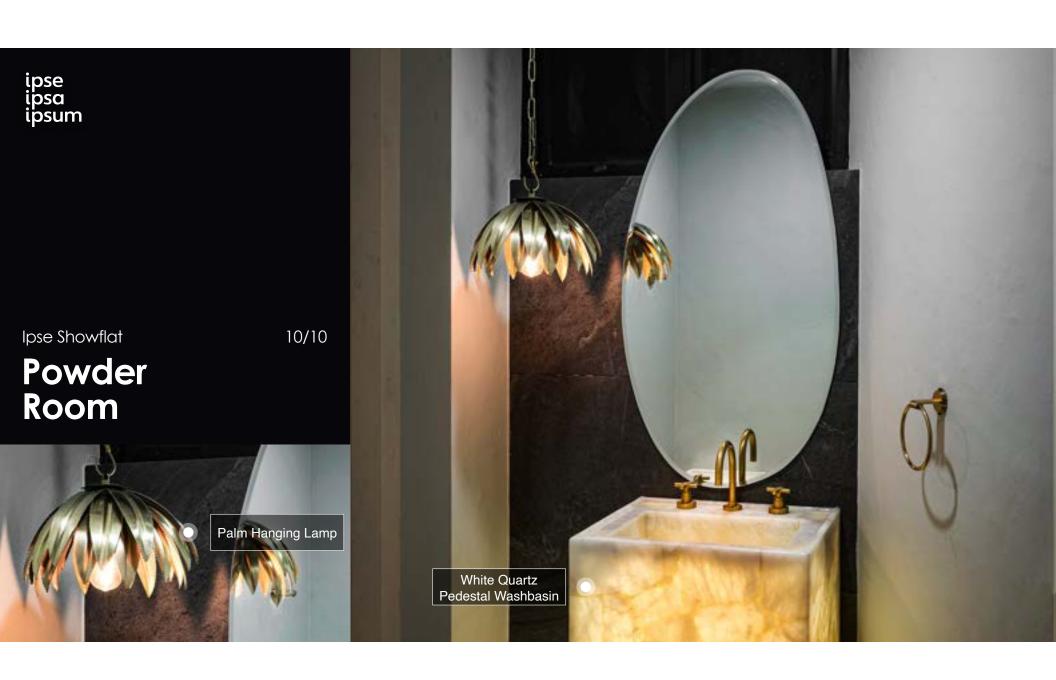
Guest Room 07/10



Mother of Pearl Inlay Bedside Table







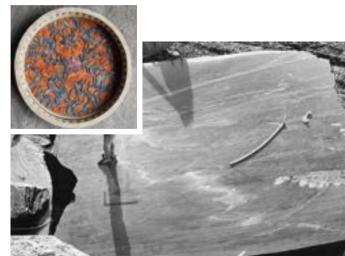




# What sustainable luxury design in furniture looks like at ipse ipsa ipsum?







## ipse ipsa MATERIALS INDEX ipsum













## ipse ipsa MATERIALS INDEX ipsum















01/13

#### E-waste

In Singapore, Sim Lim Towers is known as a mecca for buying electronics. The Sim Lim Meeting tabletop adapts the e-waste generated into a functional art form and challenges companies to address their e-waste problems. A statement piece for any project.

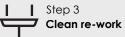
#### **PROCESS**



Step 1
Collect discarded
E-waste



Step 2
Remove any sensitive materials





Step 4 Design for furniture required







02/13

## **Bone Inlay**

#### **PROCESS**



Step 1
Collect and clean
discarded animal



Step 2

Chinsel and shape into bone chips



Step 3

Color the bone chips using vegetable dye



Step 4

Bone chips are inlayed to create beautiful patterns



Step 5

Hand polished to create the unique piece for you





03/13

### **Airline Parts**

#### **PROCESS**



Step 1
Retired A380 from
Singapore airlines



Step 2 Rework on reclaimed parts



Step 3

Personalise with unique materials



Step 4

Re-furbish the piece



Step 5

Unique piece for everyday use





04/13

## **Beverage Cans**

#### **PROCESS**



Step 1

Collect waste beverage cans



Step 2
Crush into dense pellets



Step 3
Melt the cans in a furnace

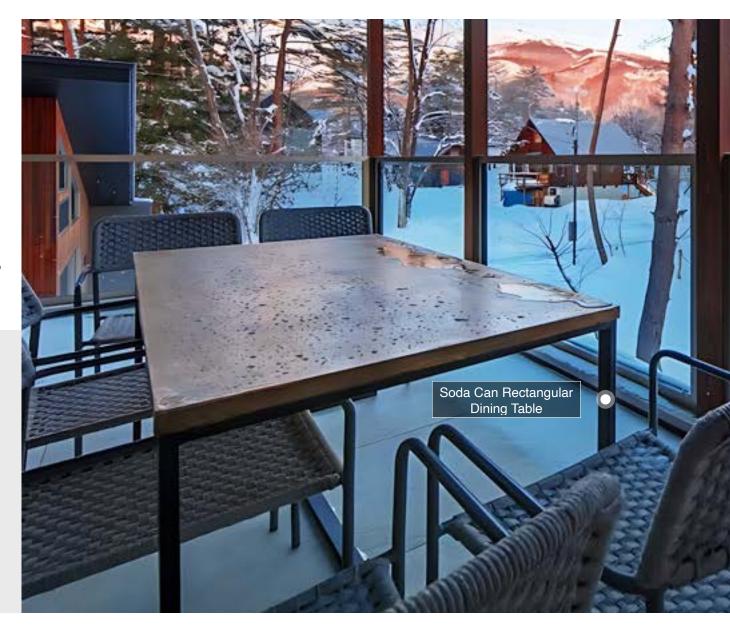


Step 4
Poured into a
desired sand cast



Step 5

The upcycled product is ready





05/13

#### P.E.T. Bottle

#### **PROCESS**



Step 1
Collect waste
P.E.T. Bottle



Step 2
Crush and cut into fine chips



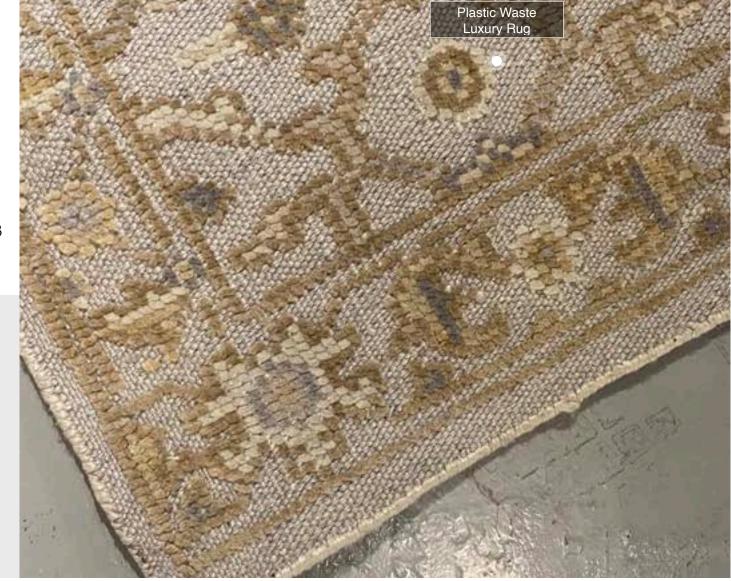
Step 3
Spin into yarn



Step 4
Weave into
bespoke pattern



Step 5 New P.E.T. waste rug for outdoor and indoor use





06/13

### Off-cuts of Wood

#### **PROCESS**



Step 1
Collect offcuts of wood



Step 2
Chisel and shape into chips



Step 3
Clean and stain wood



Step 4

Design for furniture required



Step 5 Unique for everyday use





07/13

## Sarkanda Grass Weaving





Henderson Desk with Modesty Panel

SUSTAINABILITY

10/13

### Reclaimed Wood Off-cuts



11/13

#### Reclaimed Railway Tracks/ Doors and Windows







07/13

## **Biome Collection**





08/13

## Off-cuts of Marble





**Boro Fabric** 

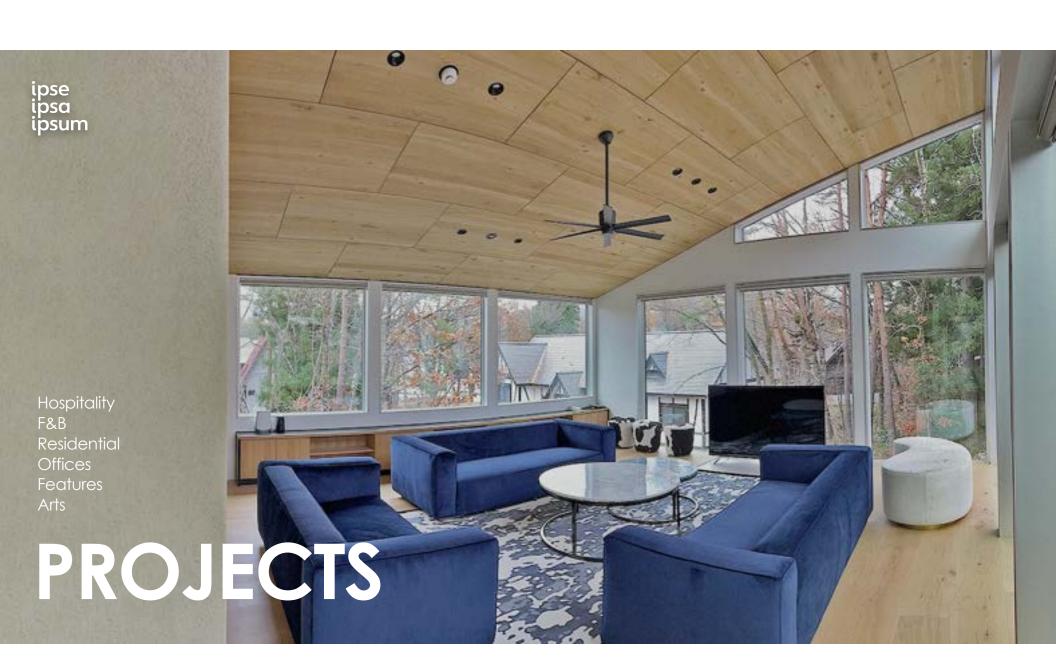
12/13

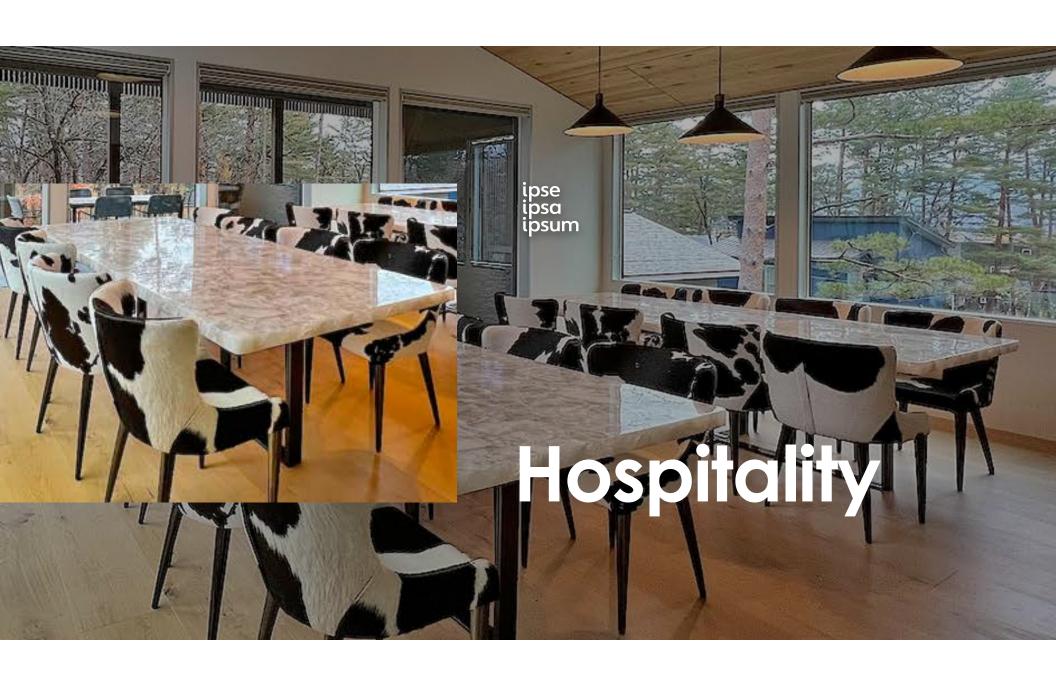


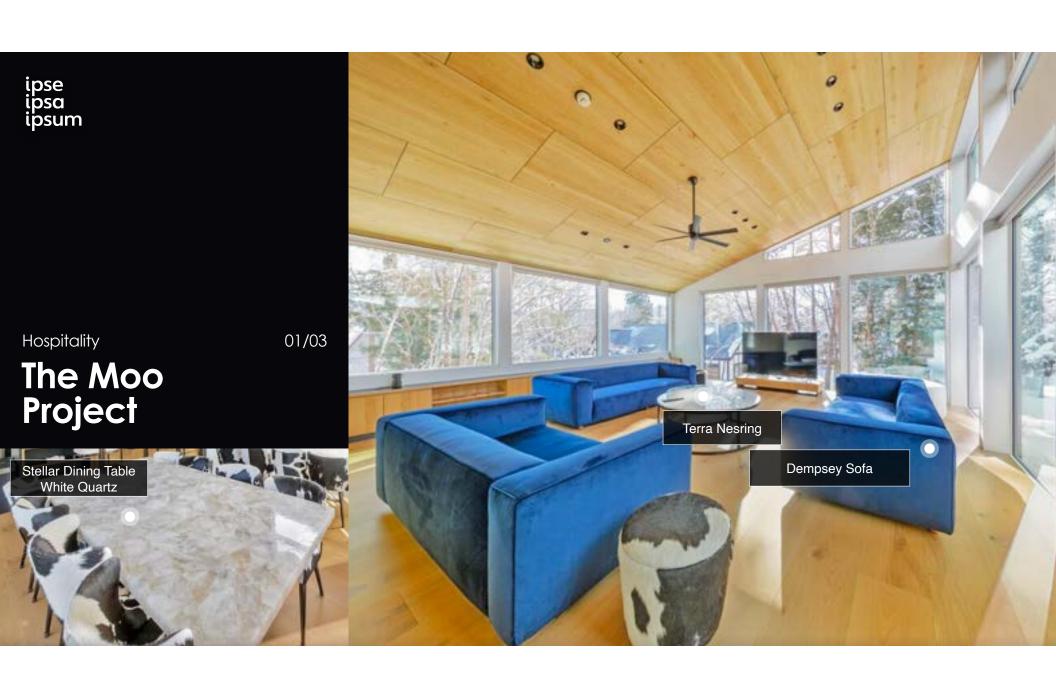


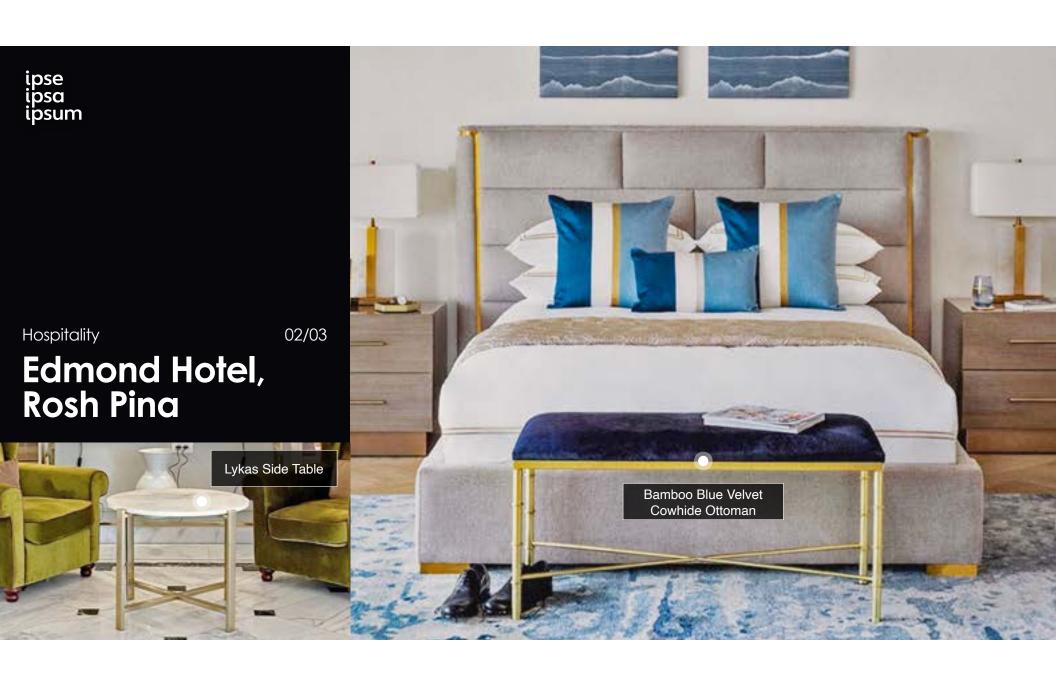
13/13

### Off-cuts of Leather









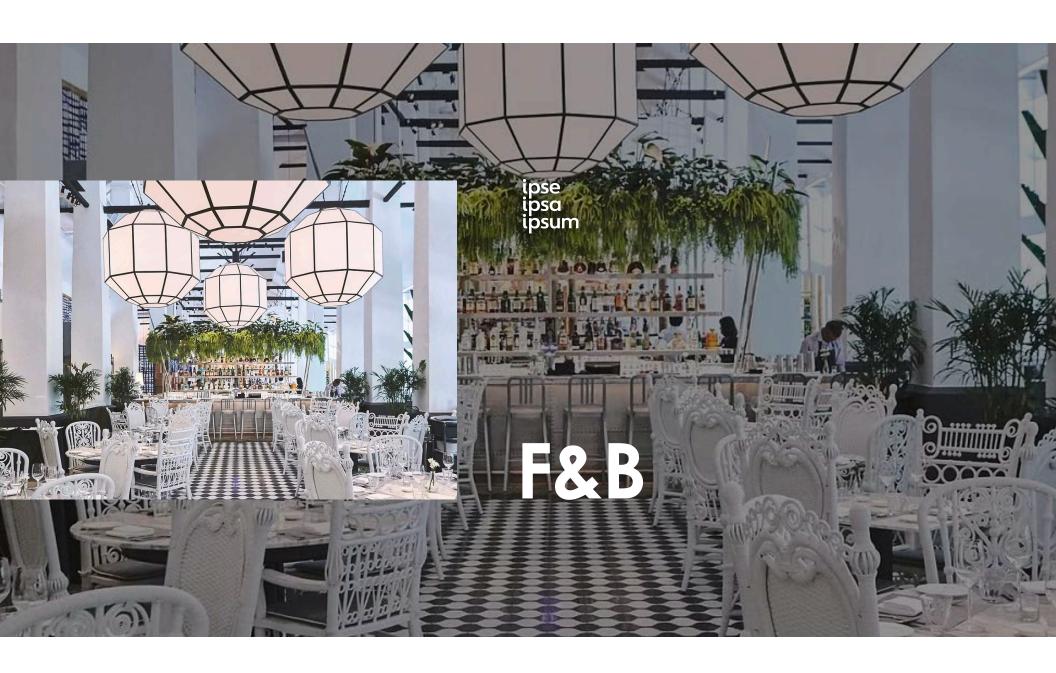
Hospitality

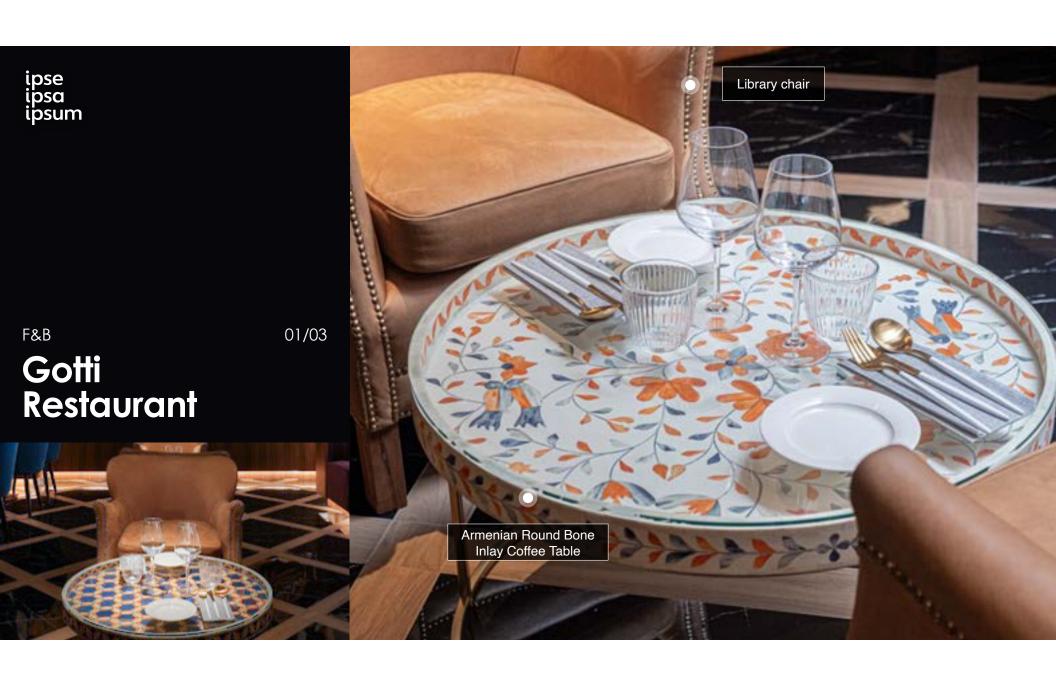
Mondrian Duxton Singapore

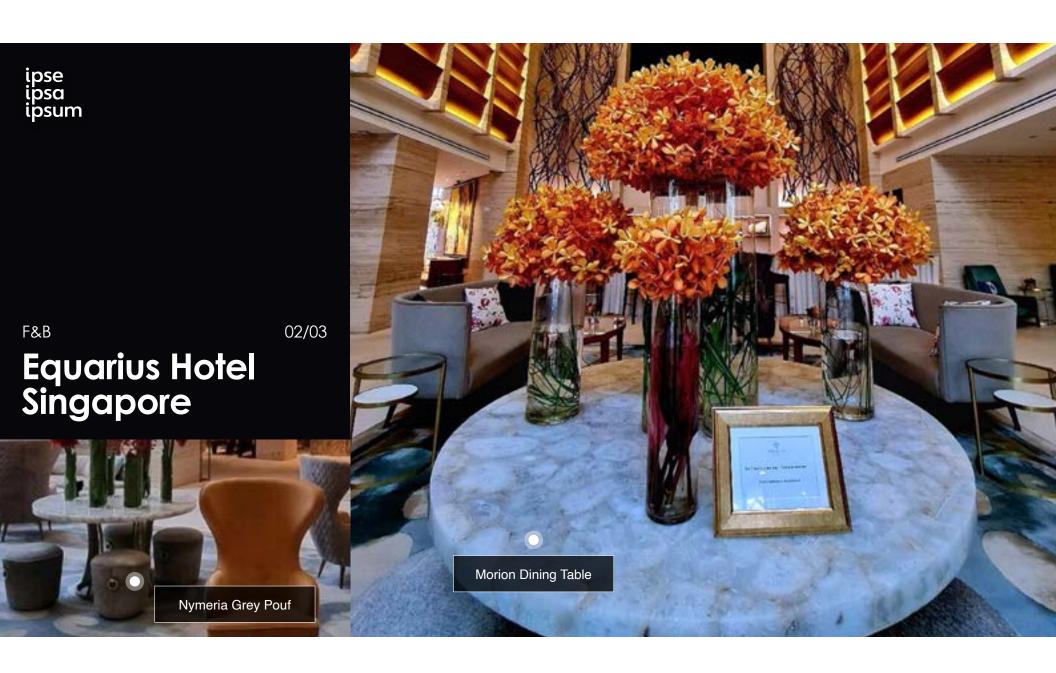
03/03

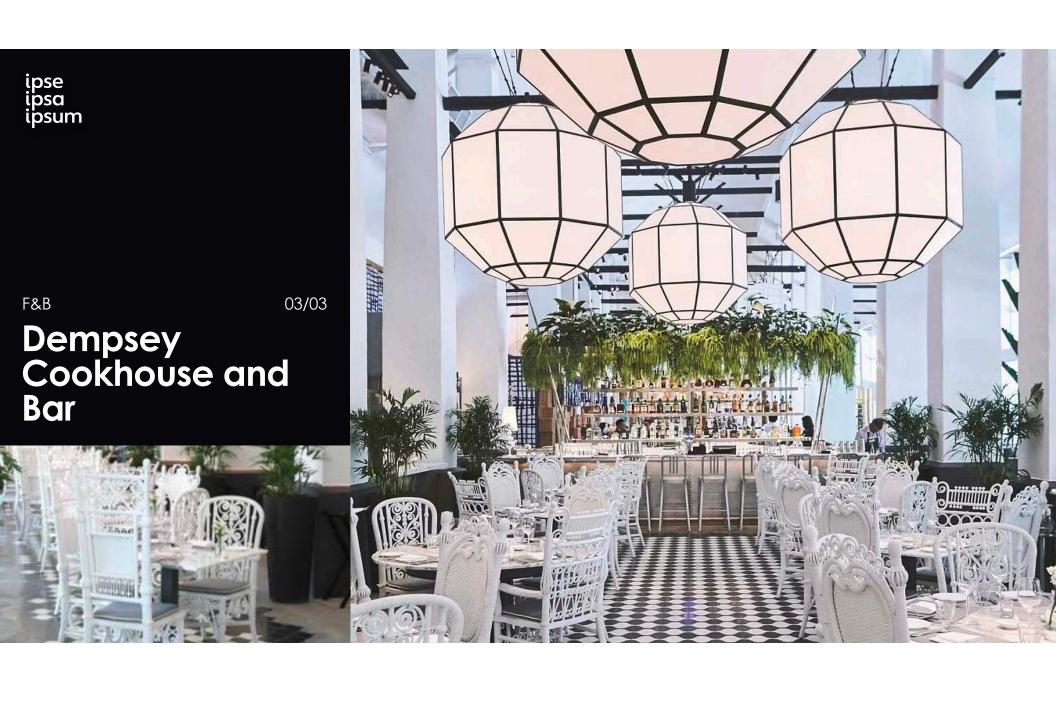


Reclaimed & charred wood reception counter

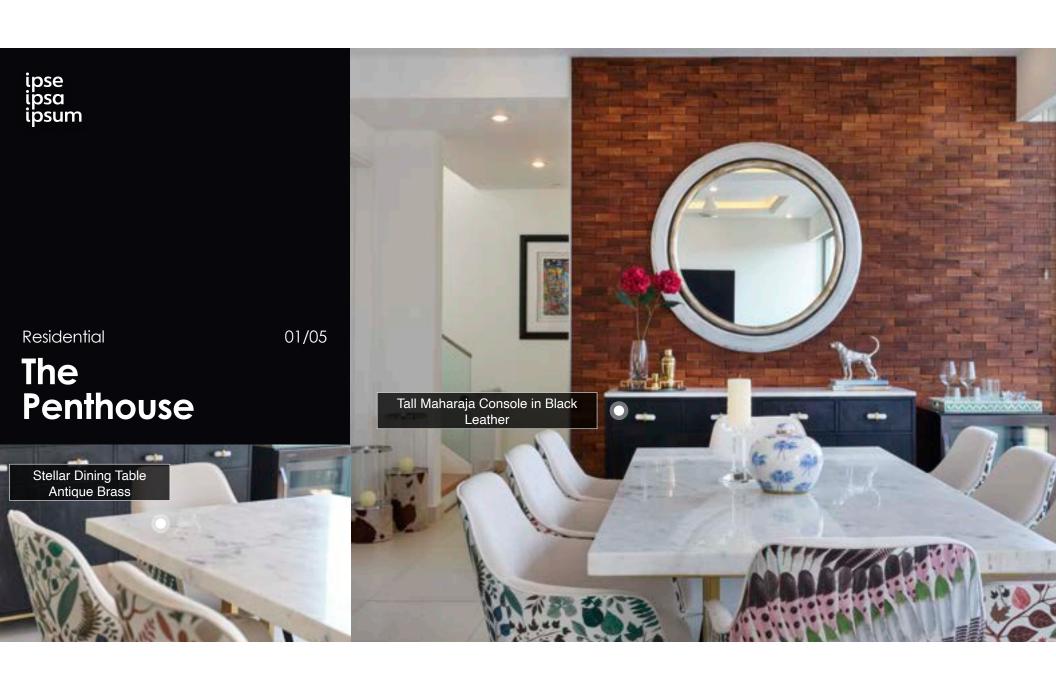


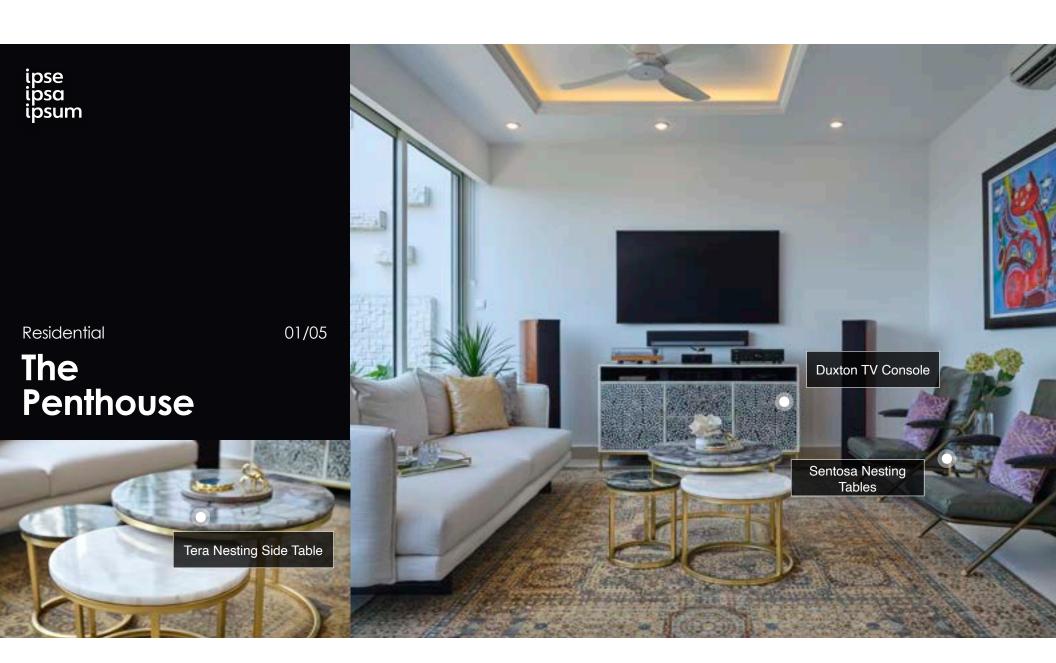












Residential

02/05

## Apartment at Concourse





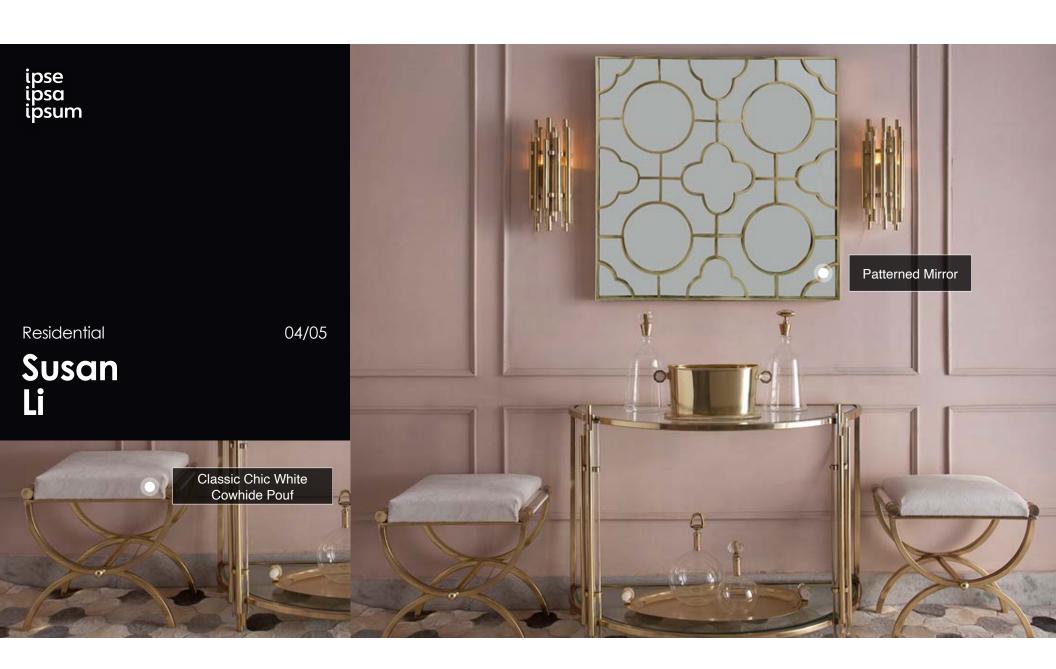
Residential

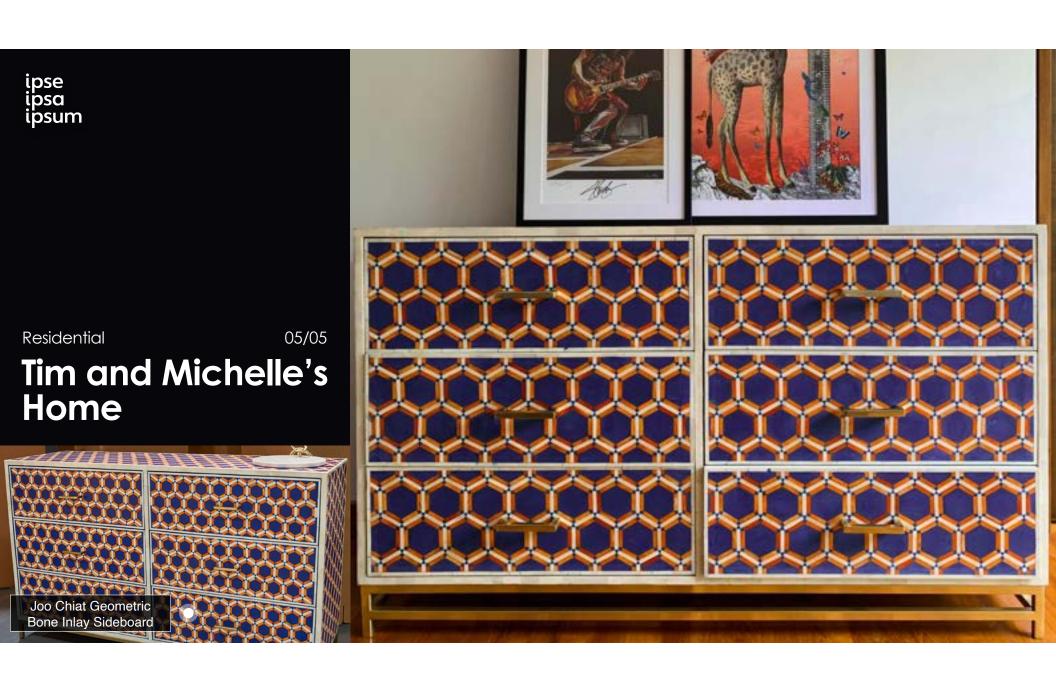
03/05

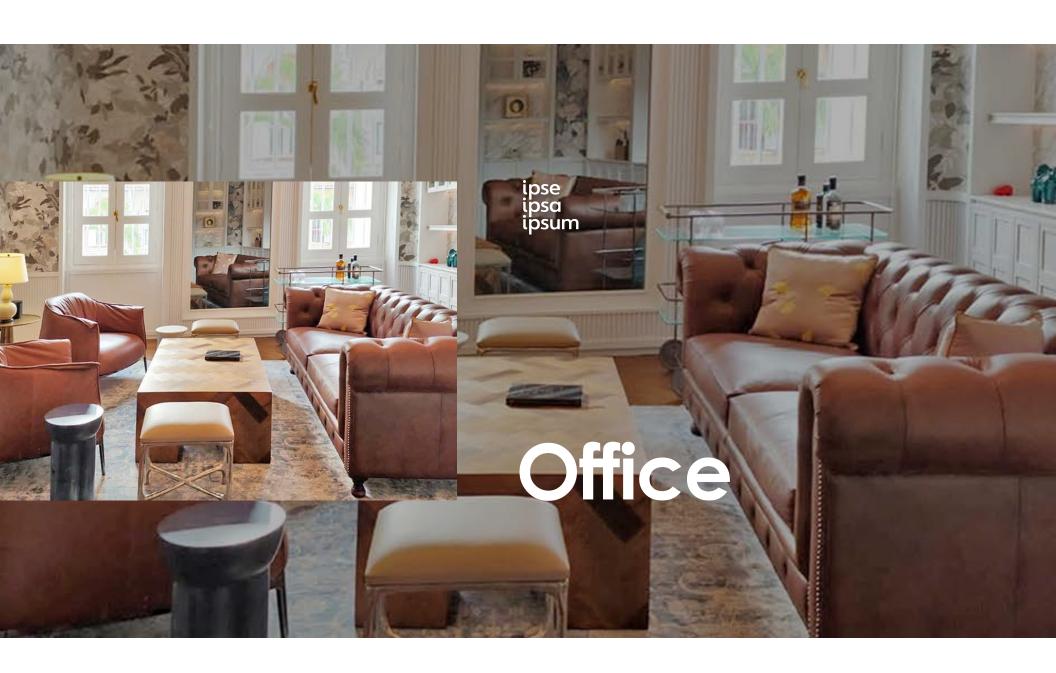
# Paul the Rider and his Study











Offices

Ithink Consulting

Henderson Coffee Table

01/03

Reclaimed Wood Table

Offices 02/03

## Yeo Leong and Peh LLC





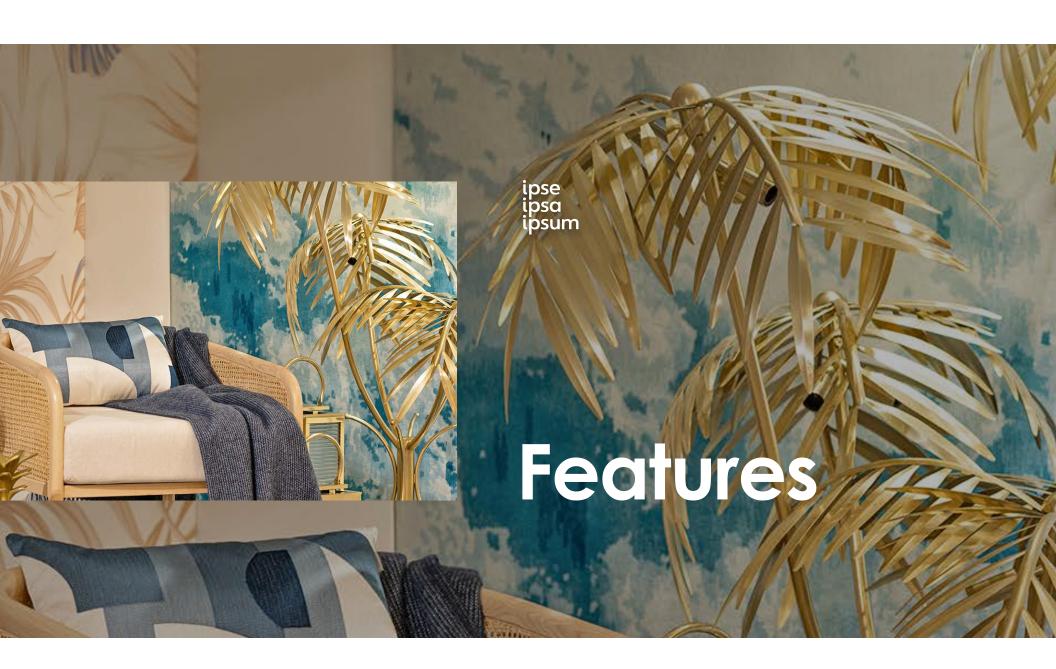
Offices

03/03

**ViewQwest** 



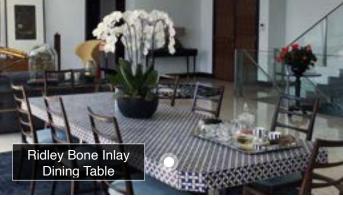




Features

01/02

## Crazy Rich Asians





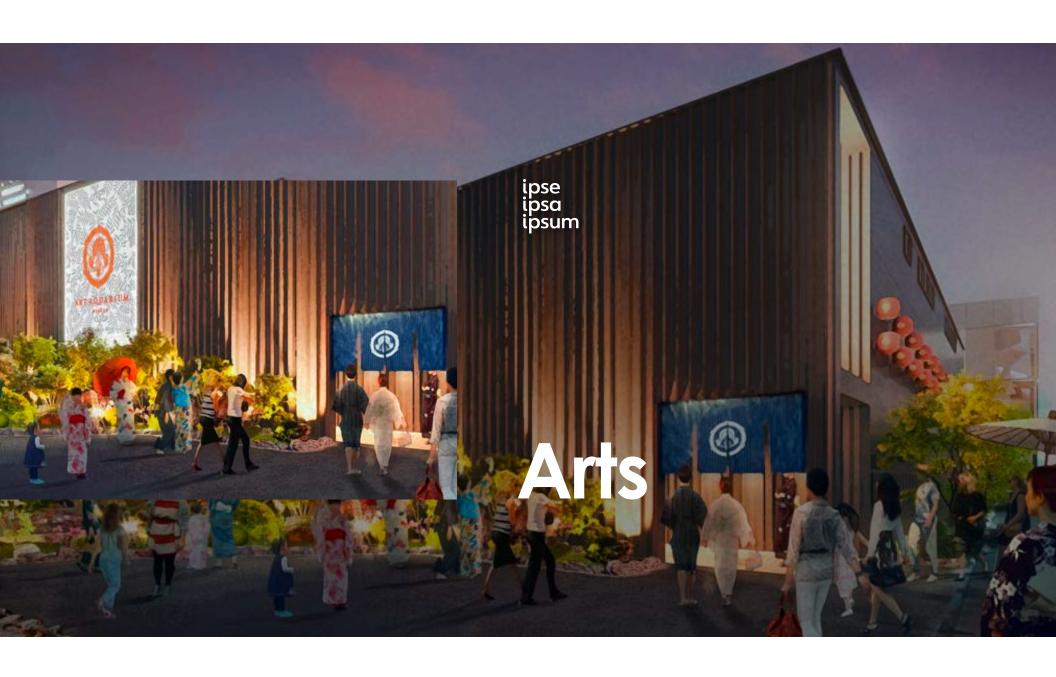
Features

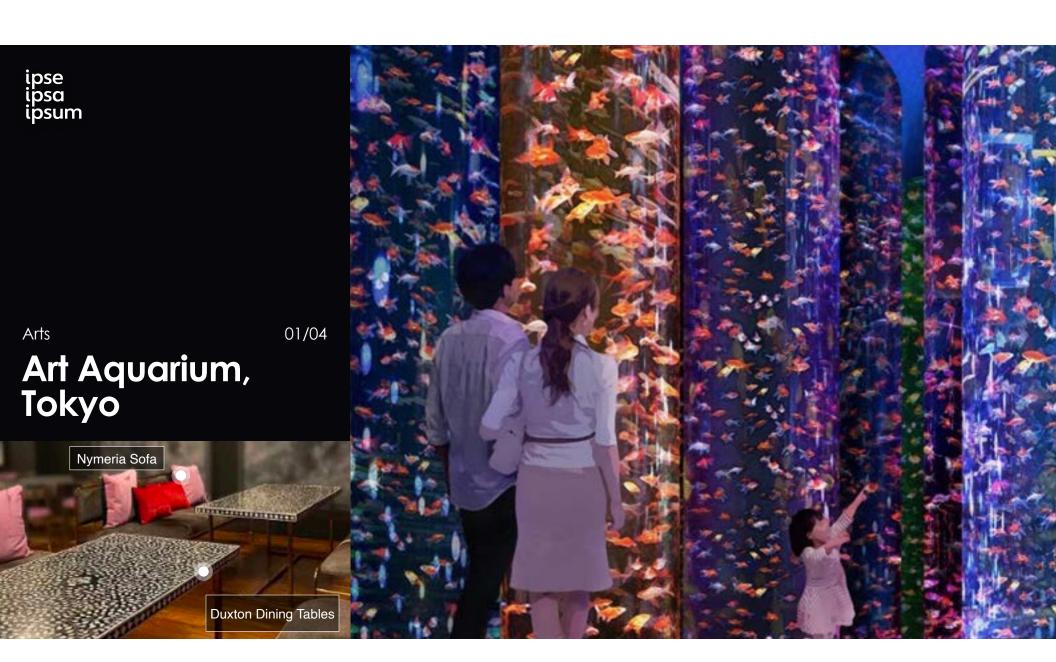
02/02

### Jianhao and Debbie





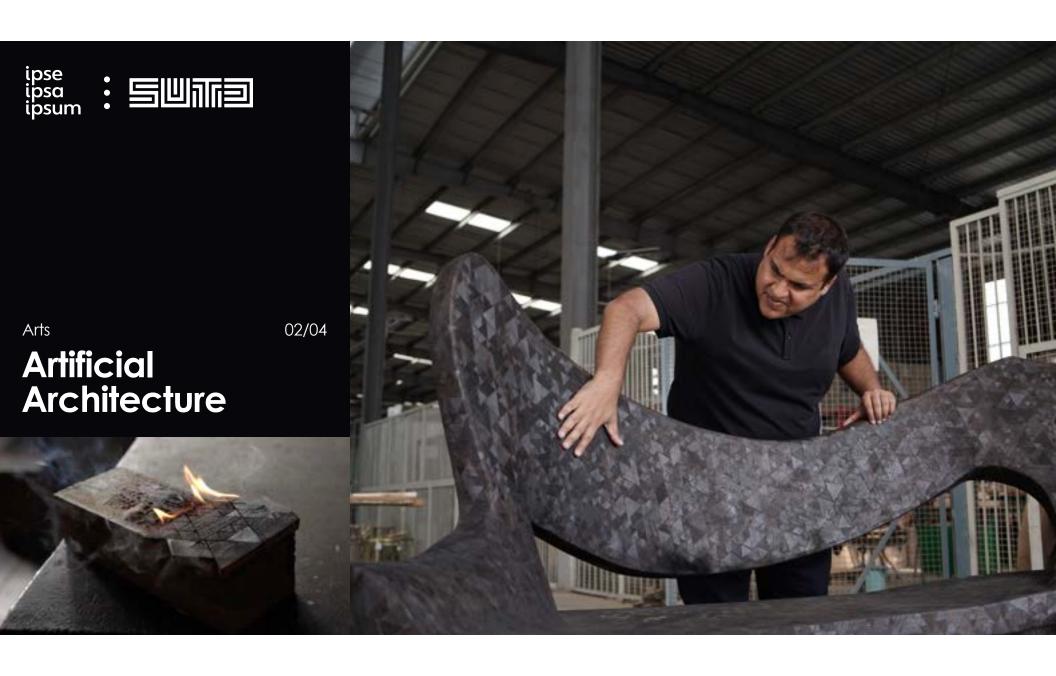


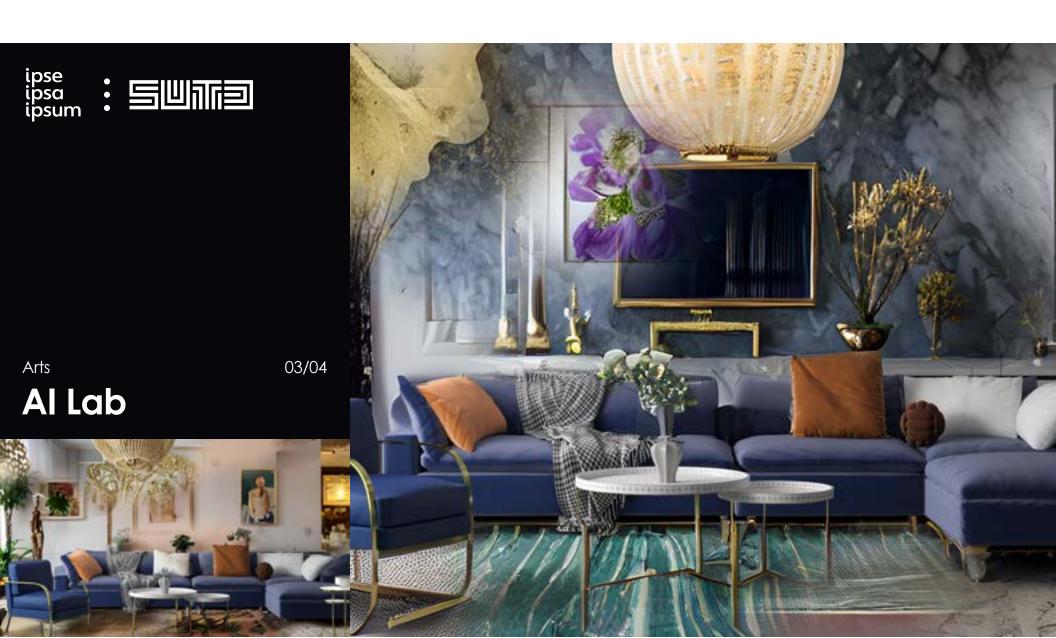


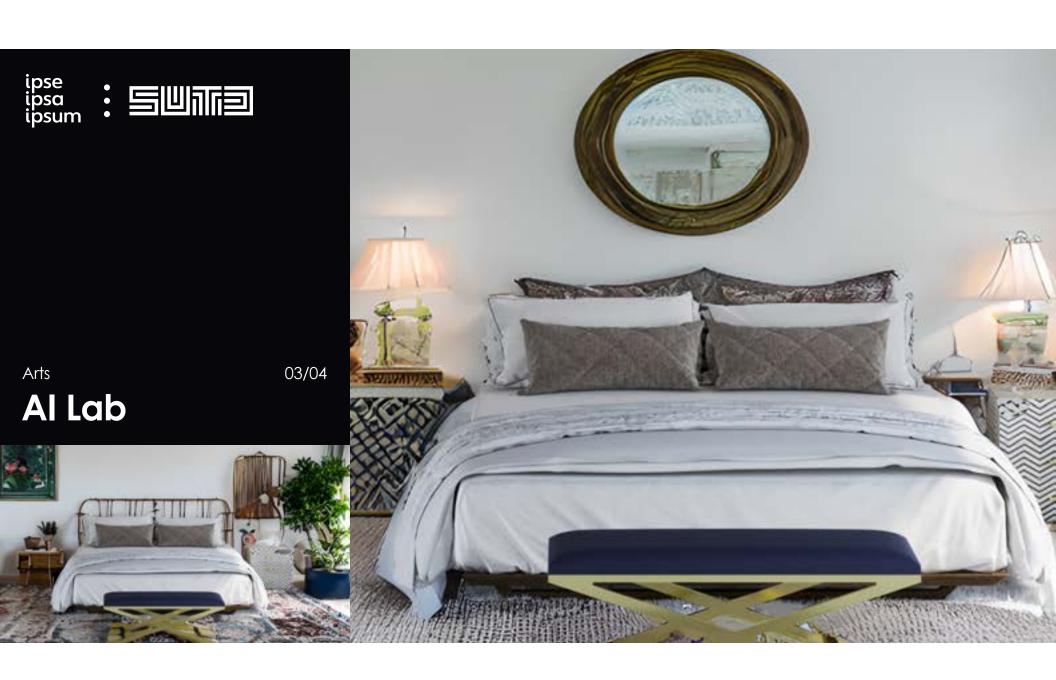
Arts 02/04

## Artificial Architecture





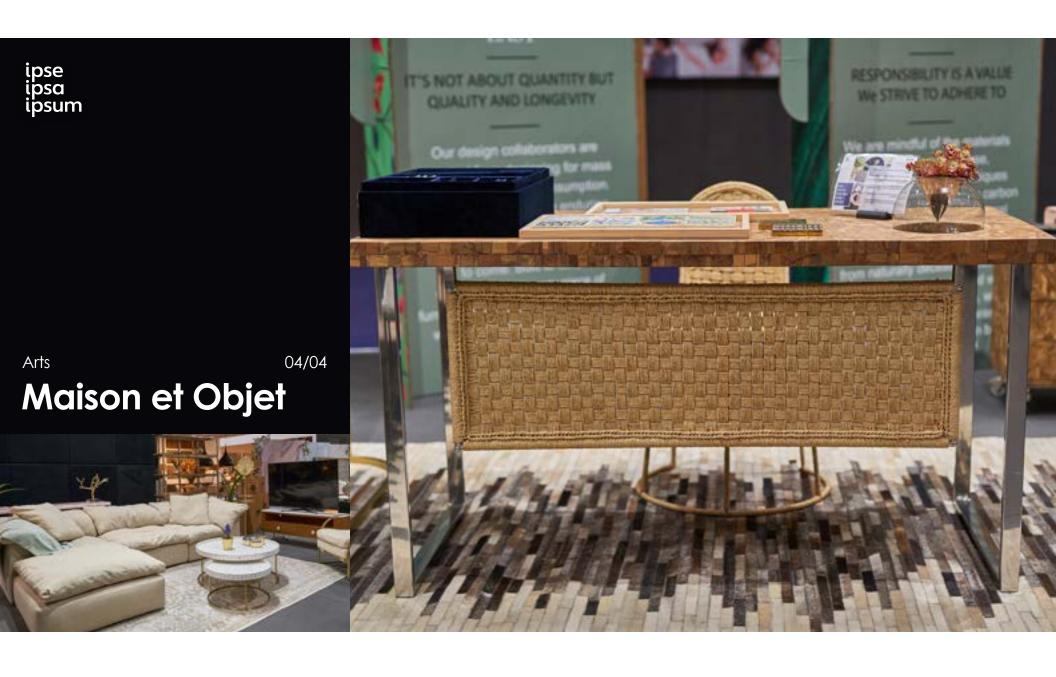


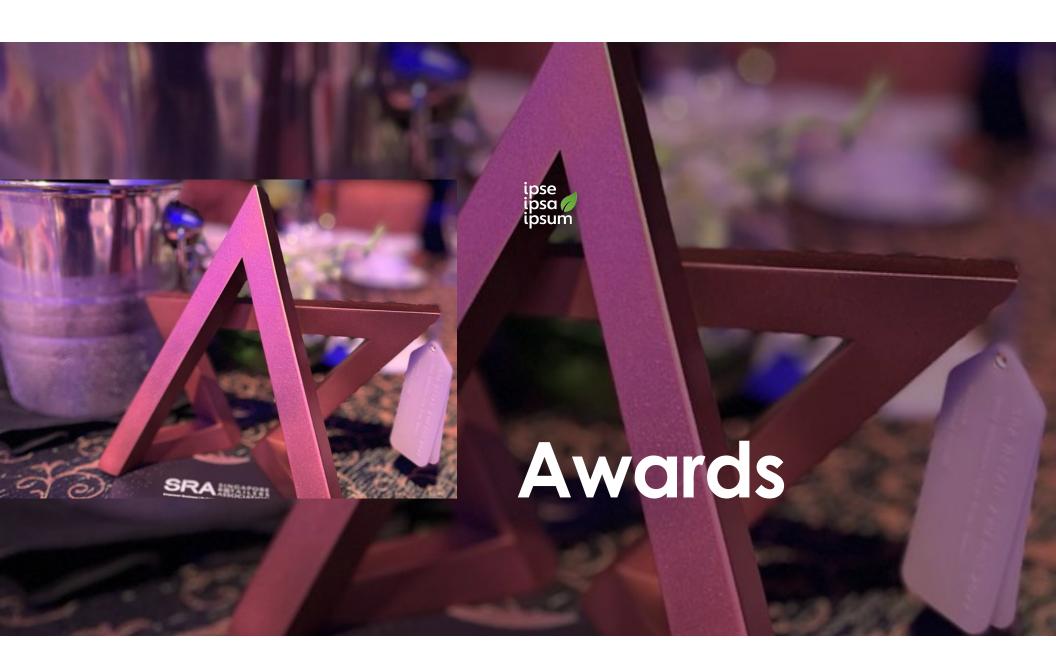


Arts 04/04

Maison et Objet









Awards 01/02

#### **SRA Retail Award**





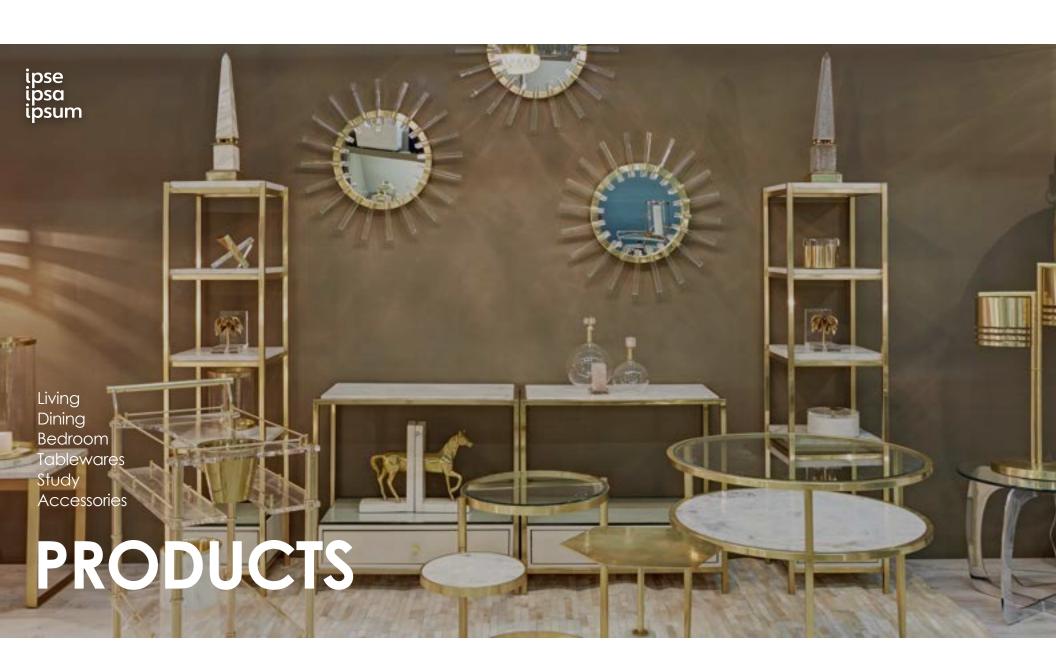


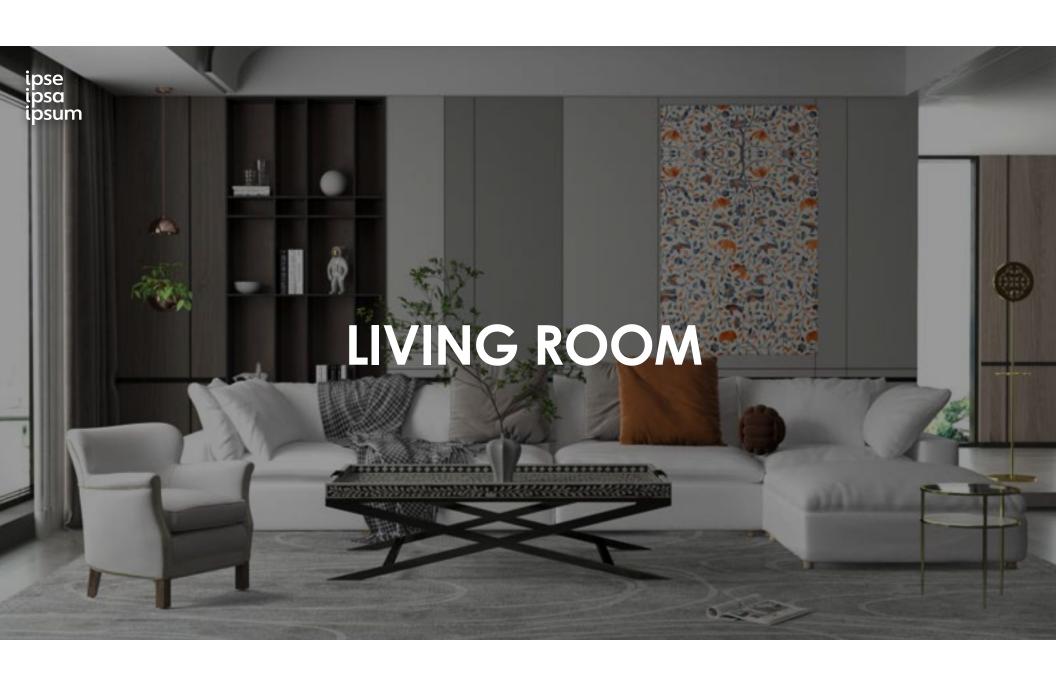
Awards **SFIC Award** 

02/02









PRODUCTS

01/12

## Very Blue Velvet Armchair

**METAL FINISH** 







LIVING

03/12

## Keong Saik Nesting Coffee Tables ( set of 2 )

**METAL FINISH** 



**TABLE TOP** 



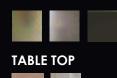




LIVING 04/12

## **Stamford Console**

METAL FINISH





LIVING

05/12

## **Thompson Bench**

METAL FINISH



TABLE TOP



LIVING 06/12

## **Duxton Sideboard**

METAL FINISH



TABLE TOP







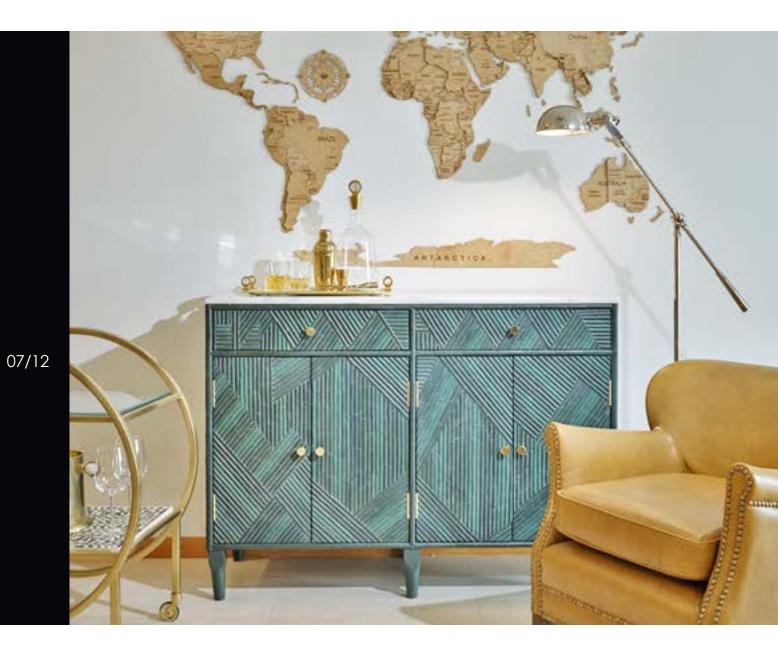
LIVING

## Biophilia Sideboard

**METAL FINISH** 







Floating Sofa

UPHOLSTERY

08/12



LIVING

Joo Chiat Sideboard

METAL FINISH



**METAL FINISH** 





LIVING

10/12

## Armenian Street Nesting Table

METAL FINISH













LIVING

11/12

## **Stellar Console**

METAL FINISH













LIVING

12/12

## Kay Poh Side Table

METAL FINISH









DINING

01/11

## Round Duxton Dining Table

TABLE BASE





TOP







DINING

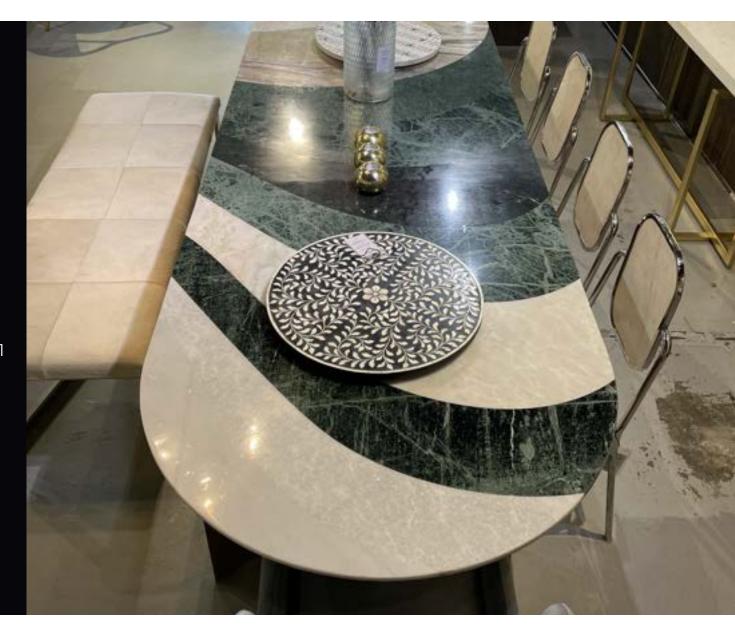
02/11

## Layered Marble Dining Table

**METAL FINISH** 







DINING

03/11

## Morion Dining Table

**METAL FINISH** 







ipse ipsa

DINING

04/11

## Stellar Dining Table

**METAL FINISH** 















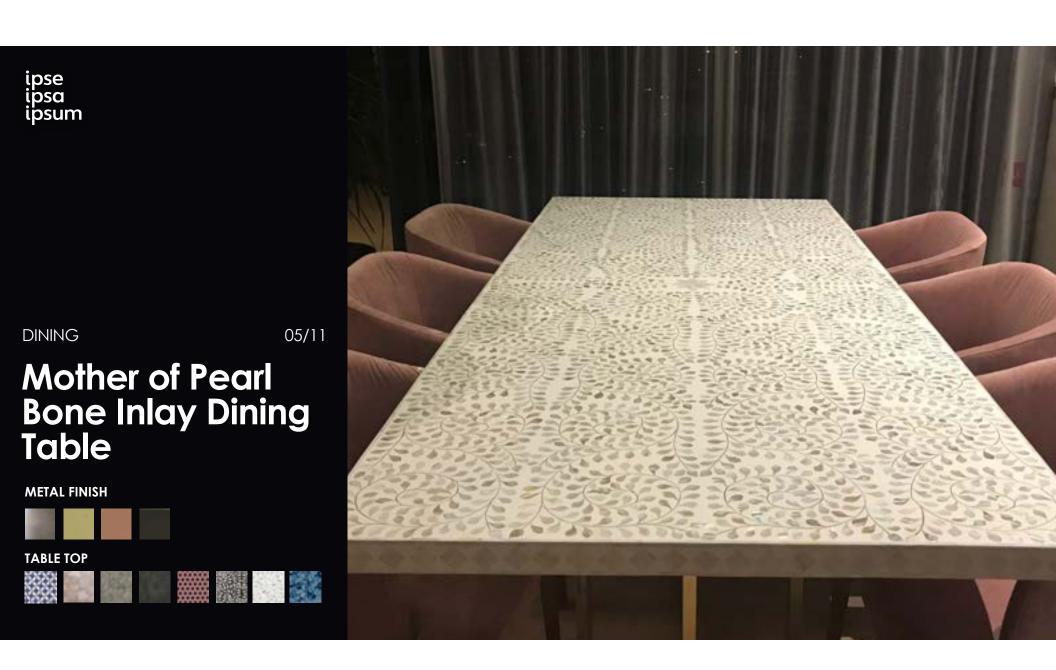












DINING

06/11

# Bone Inlay Max Dining Table

**METAL FINISH** 























DINING

07/11

## Straits Dining Table Antique Brass

**METAL FINISH** 



















DINING

08/11

## Sara Pathar Dining Table

MATERIAL





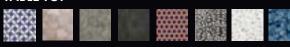


DINING 09/11

## Round Max Dining Table

METAL FINISH







DINING

10/11

## Jaipur Dining Chair

METAL FINISH



UPHOLSTERY





DINING

11/11

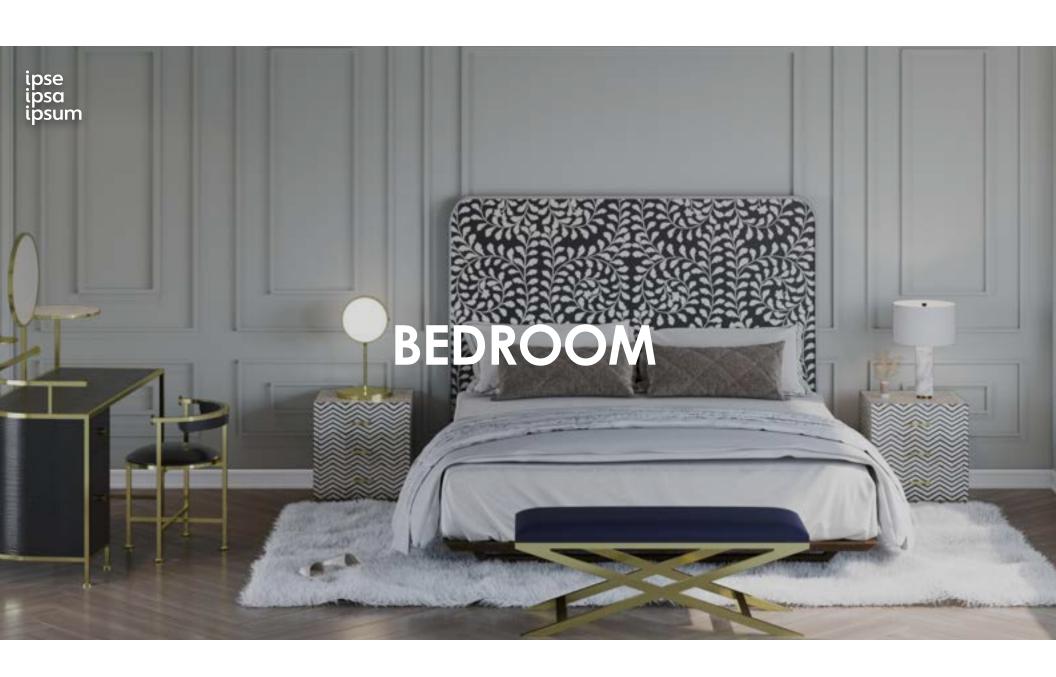
# Straits Leather Dining Chair

METAL FINISH









BEDROOM

01/06

#### Adam Park Bedside Table

**METAL FINISH** 







BEDROOM

02/06

## Nabha Make up Desk

TABLE TOP



**METAL FINISH** 





BEDROOM

03/06

## Armenian Street Headboard

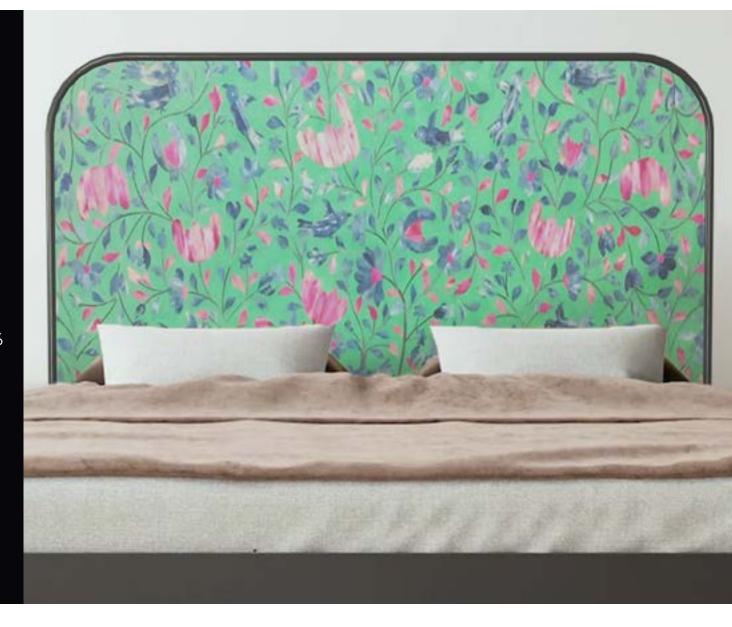
**METAL FINISH** 











BEDROOM 04/06 Julian Bedside Table METAL FINISH MATERIAL

BEDROOM

05/06

#### King Size Headboard with Black and White Floral Pattern

**METAL FINISH** 















BEDROOM

06/06

## Small Sideboard Mother of Pearl Inlay

**METAL FINISH** 

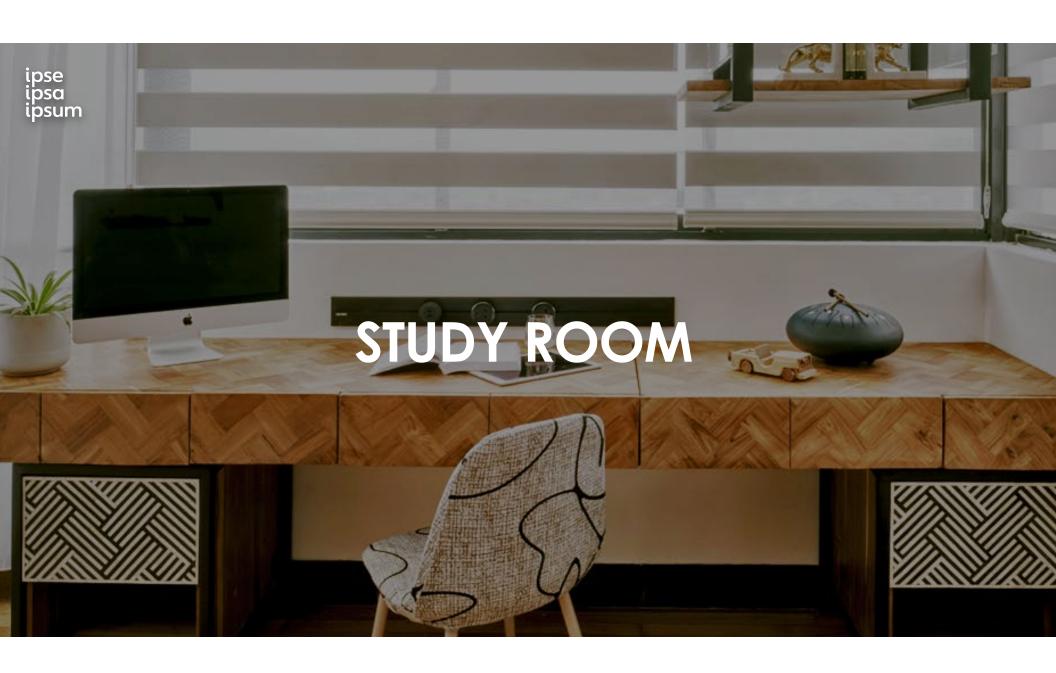












STUDY 01/04

## 1956 Study Table

**METAL FINISH** 







STUDY

02/04

## 1956 Desk Chair

METAL FINISH







STUDY 03/04

## **Tiger Bookend**

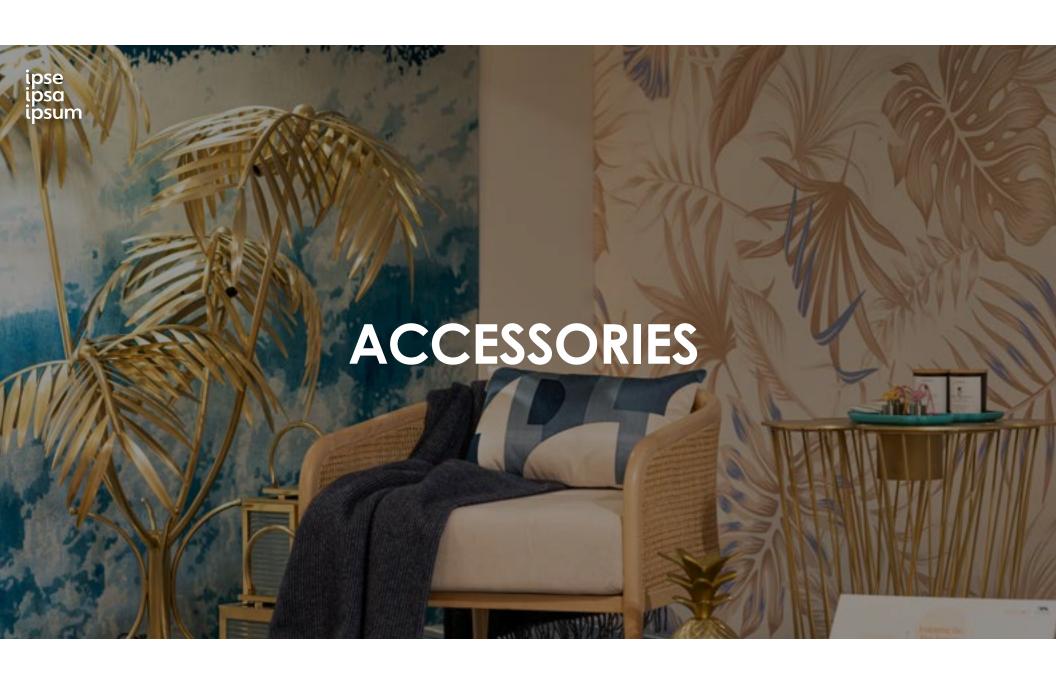
**METAL FINISH** 











ACCESSORIES

01/08

## Palm Tree Lamp

METAL FINISH





**ACCESSORIES** 

02/08

## Bone Inlay Clover Tray

**METAL FINISH** 









**ACCESSORIES** 

03/08

#### Peranakan Bone Inlay Floor Mirror

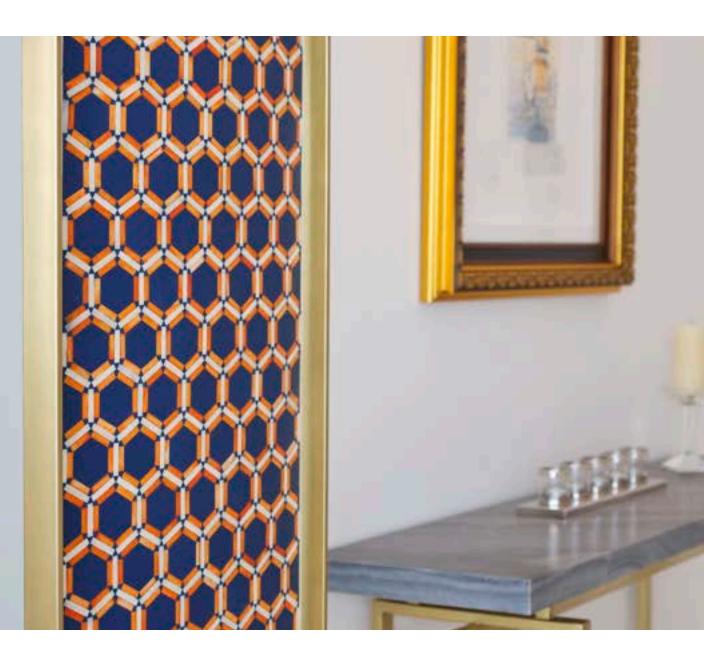
**METAL FINISH** 











**ACCESSORIES** 

04/08

#### Studio 54 Large Gold Palm Decorative Lamp

**METAL FINISH** 





**ACCESSORIES** 

05/08

# Illusion Hallway Set





**ACCESSORIES** 

06/08

#### **Patterned Mirror**

**METAL FINISH** 





ACCESSORIES

07/08

### Sentosa Lantern

METAL FINISH



MATERIAL



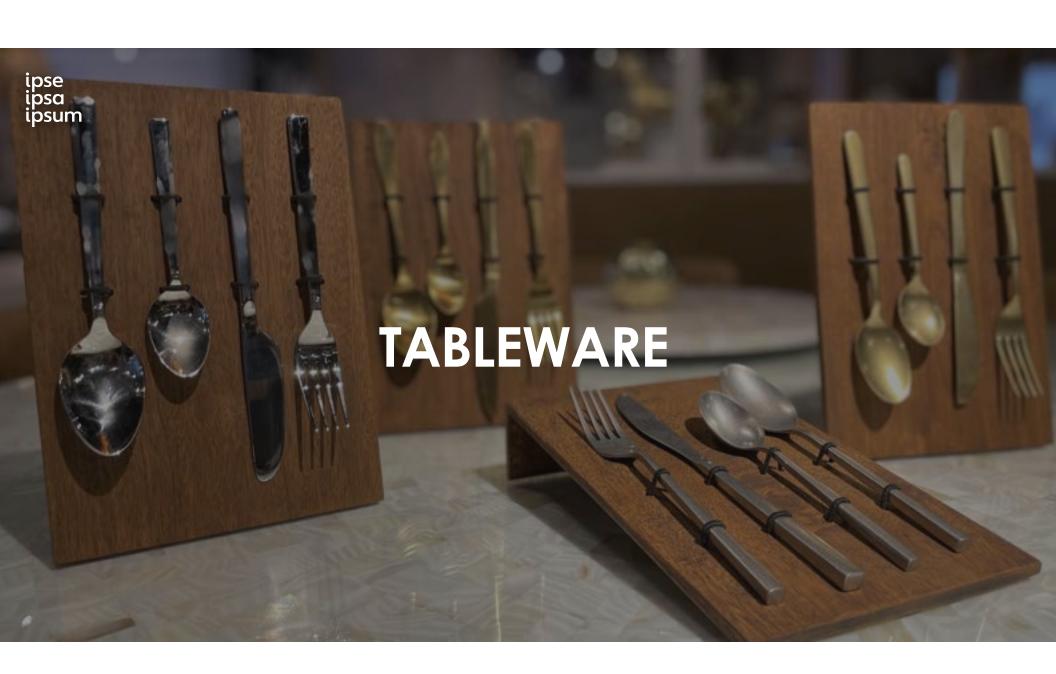
**ACCESSORIES** 

08/08

## Moonrise Table Lamp

**METAL FINISH** 





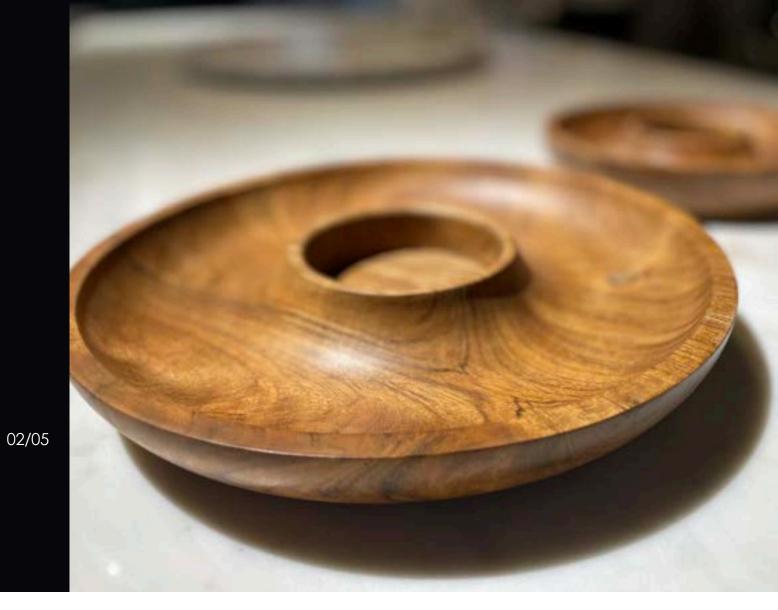
TABLEWARE

Serving Tray



TABLEWARE

Serving Tray



TABLEWARE

#### **Punch Bowl**

METAL FINISH

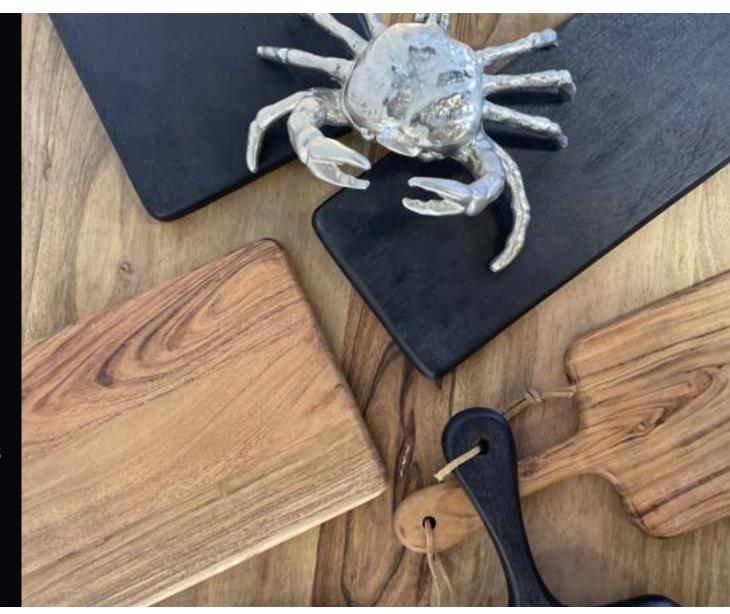




TABLEWARE

04/05

### **Cheese Boards**



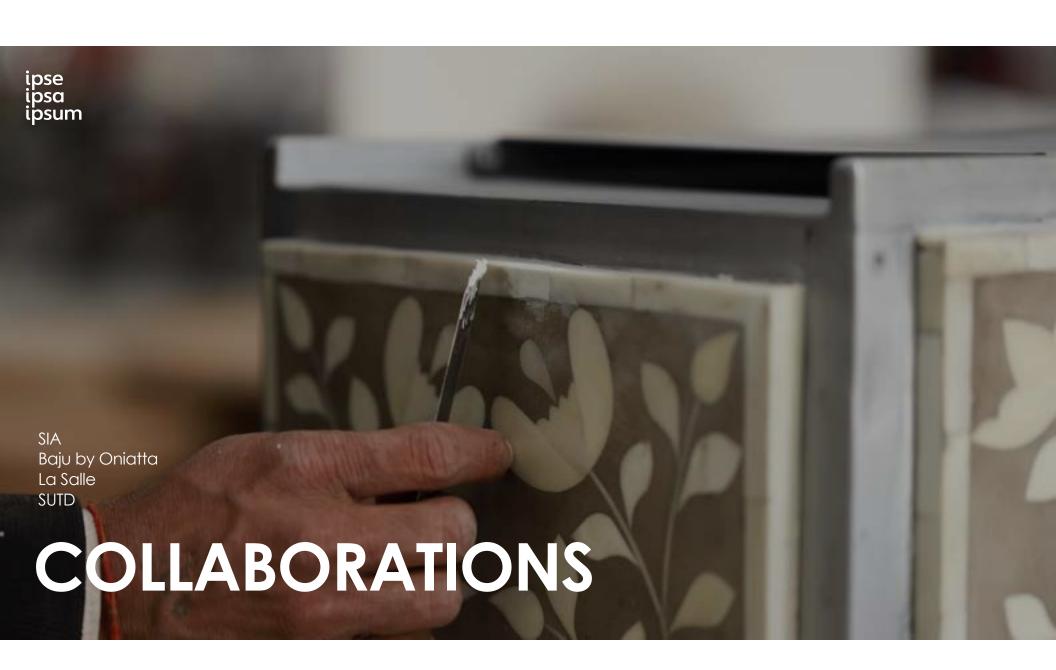
TABLEWARE

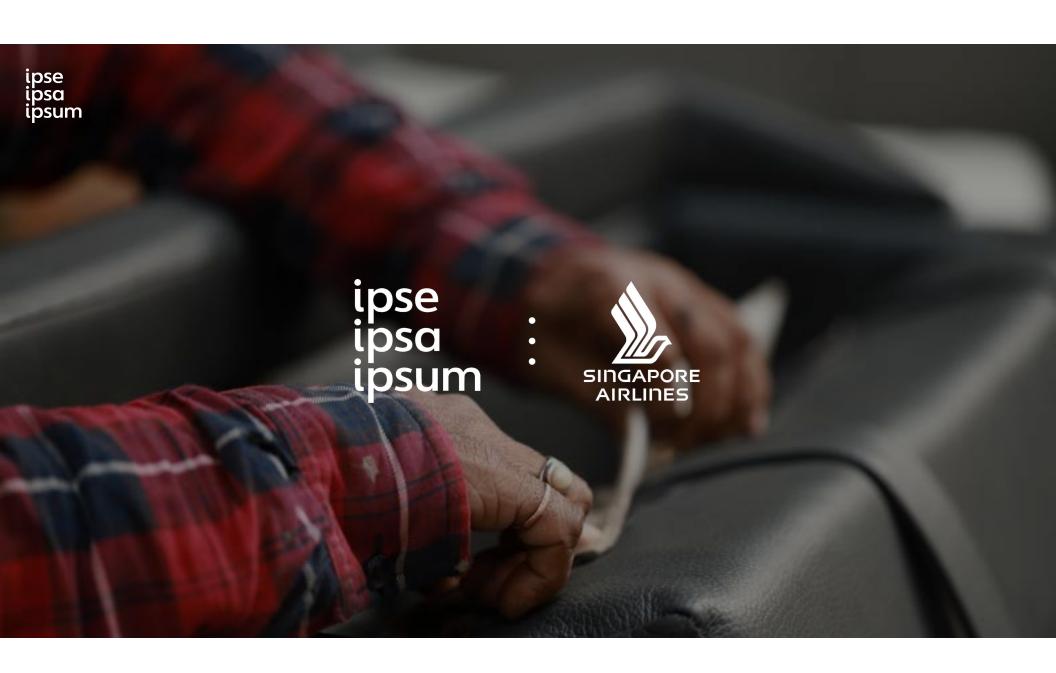
05/05

### Reclaimed Teak Champagne Bath



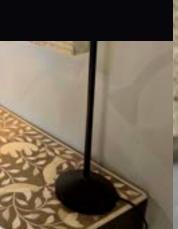






Collaborations

ipse ipsa : singapo ipsum : singapo



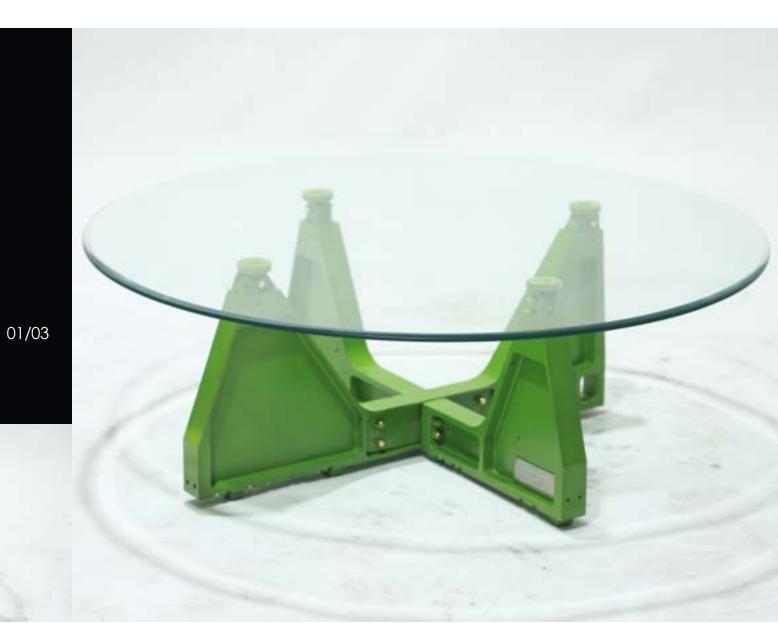


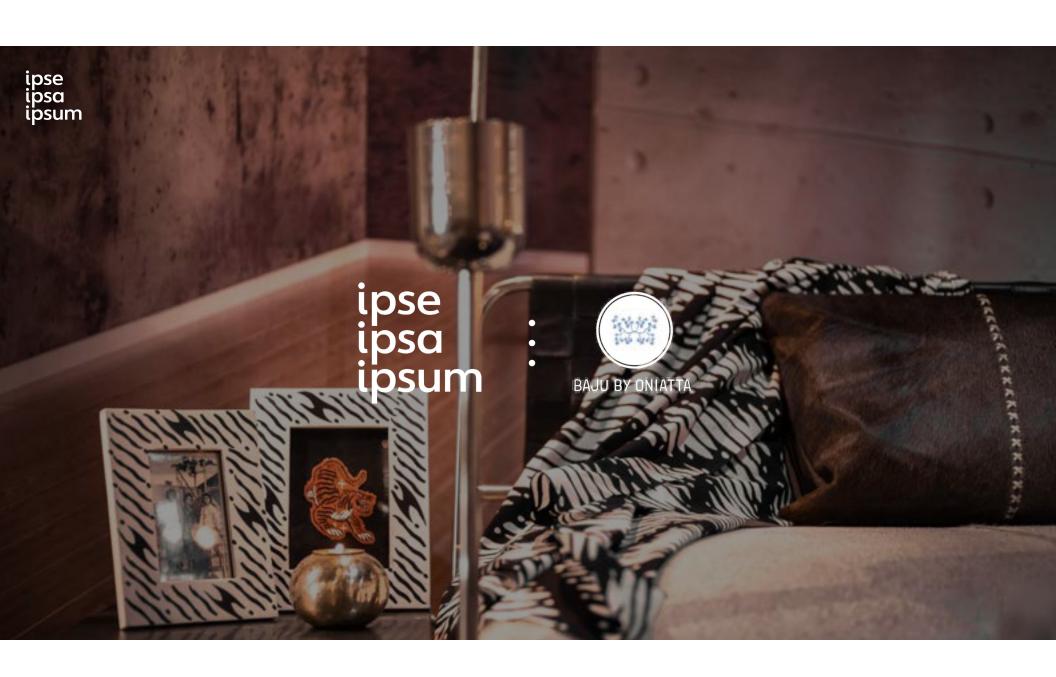
Collaborations

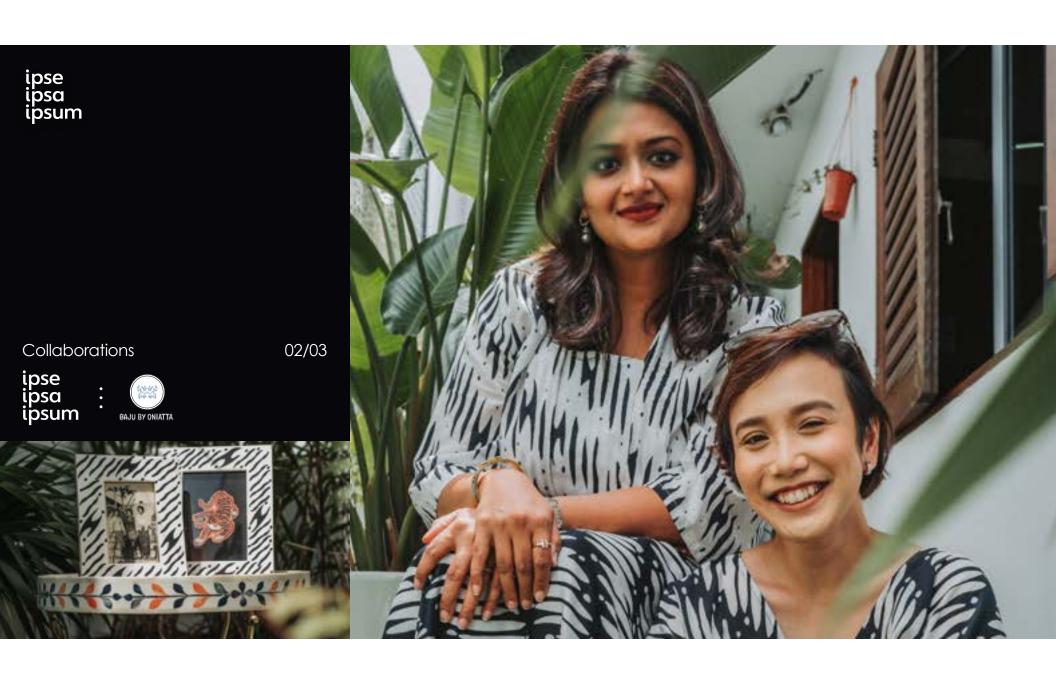
ipse ipsa ipsum











Collaborations

ipse ipsa ipsum





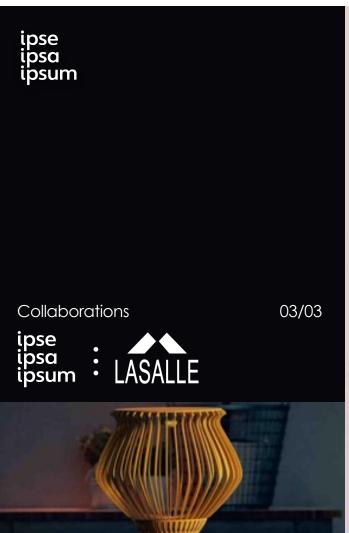




Collaborations

ipse ipsa ipsum · LASALLE





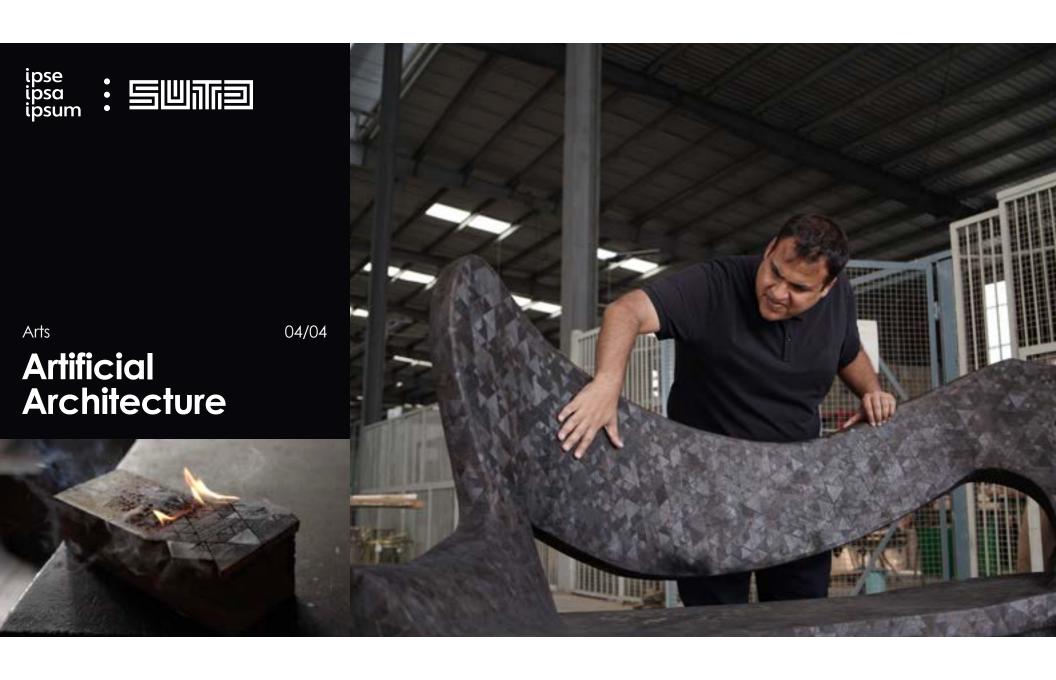


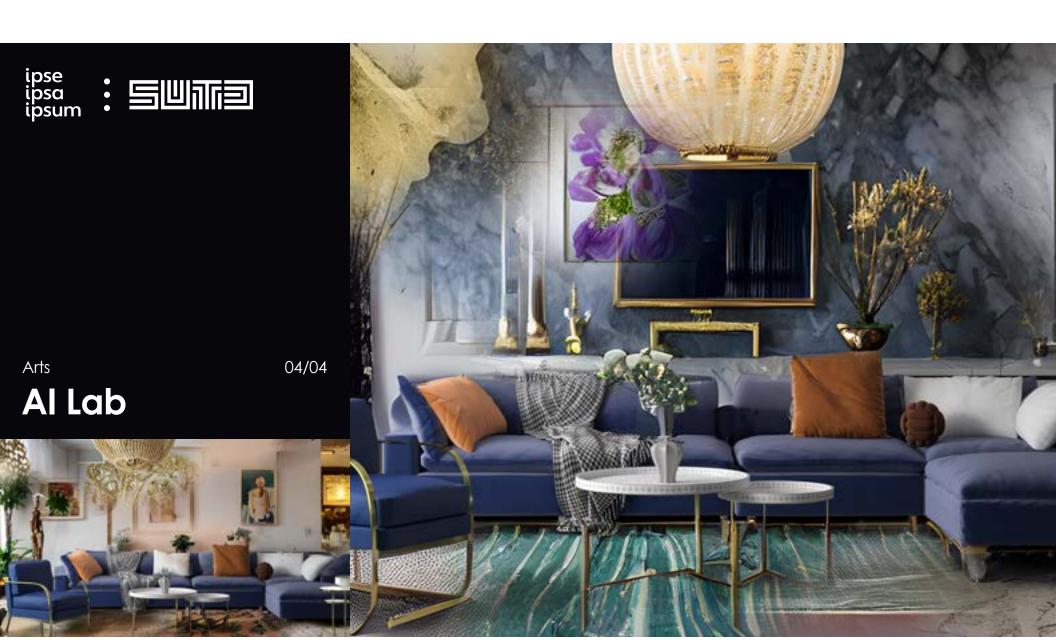


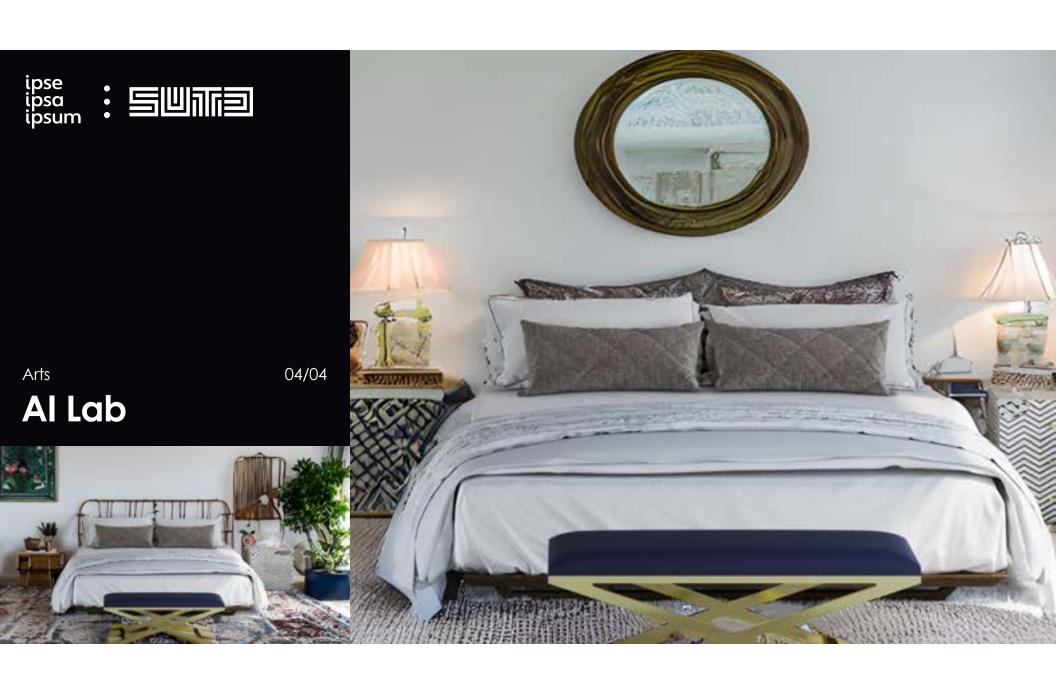
Arts 04/04

#### Artificial Architecture













Collections

01/05

## The Nathan Yong Collection





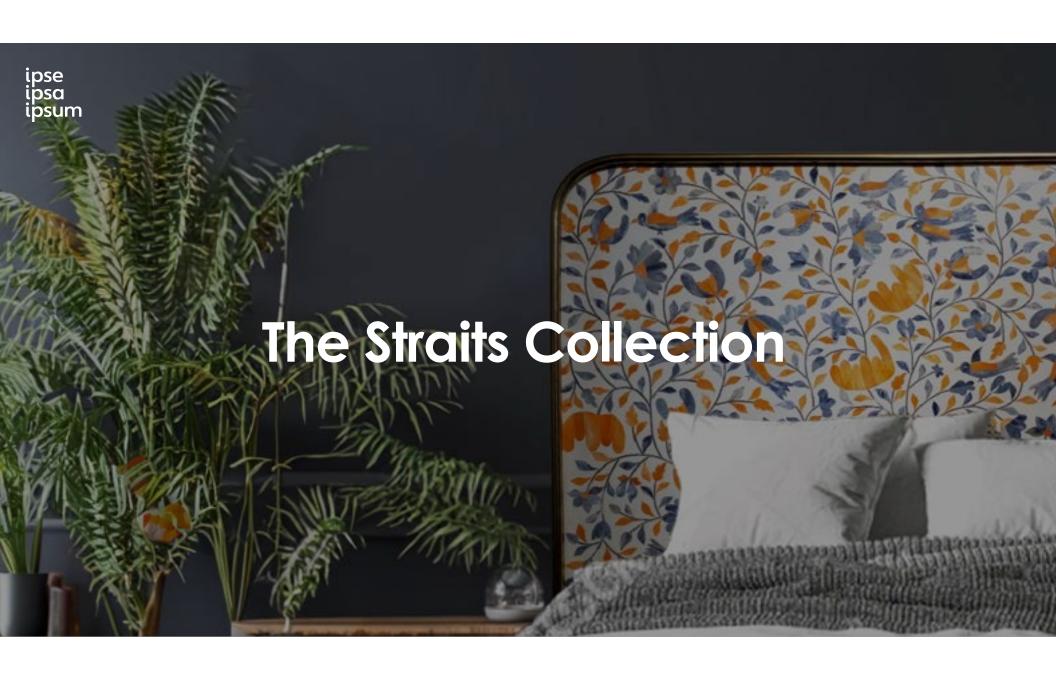
Collections

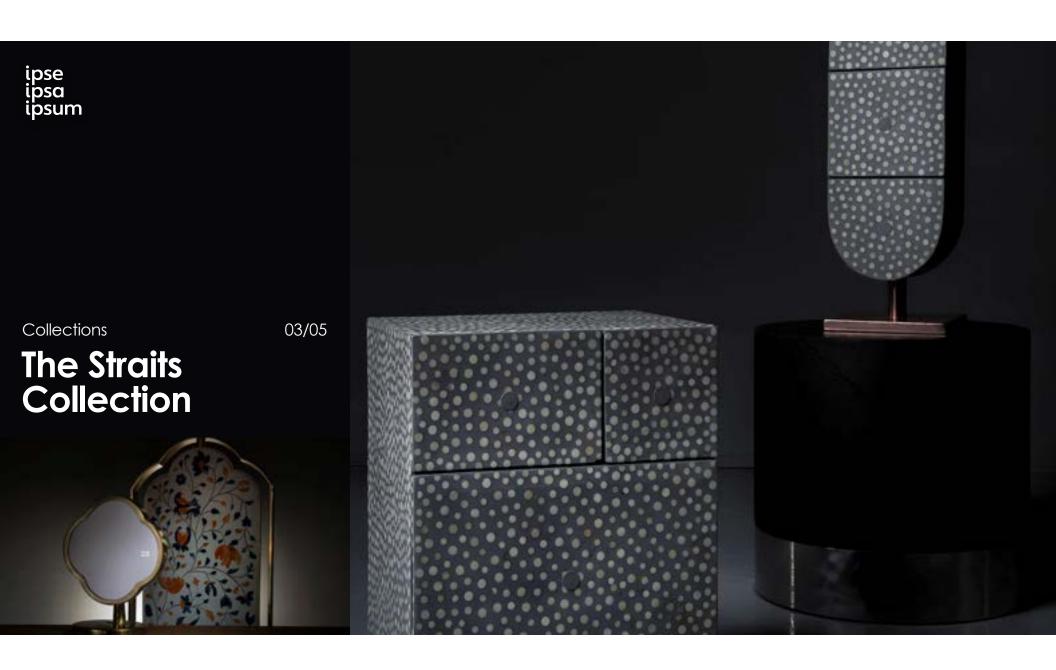
01/05

# The Nathan Yong Collection









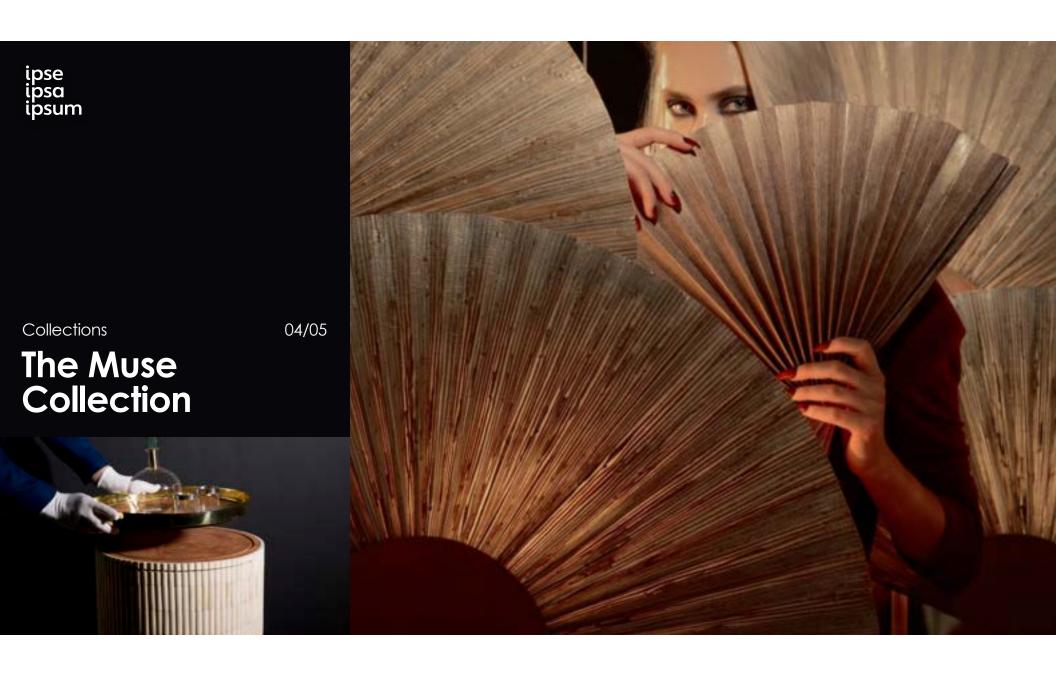
Collections

The Straits Collection







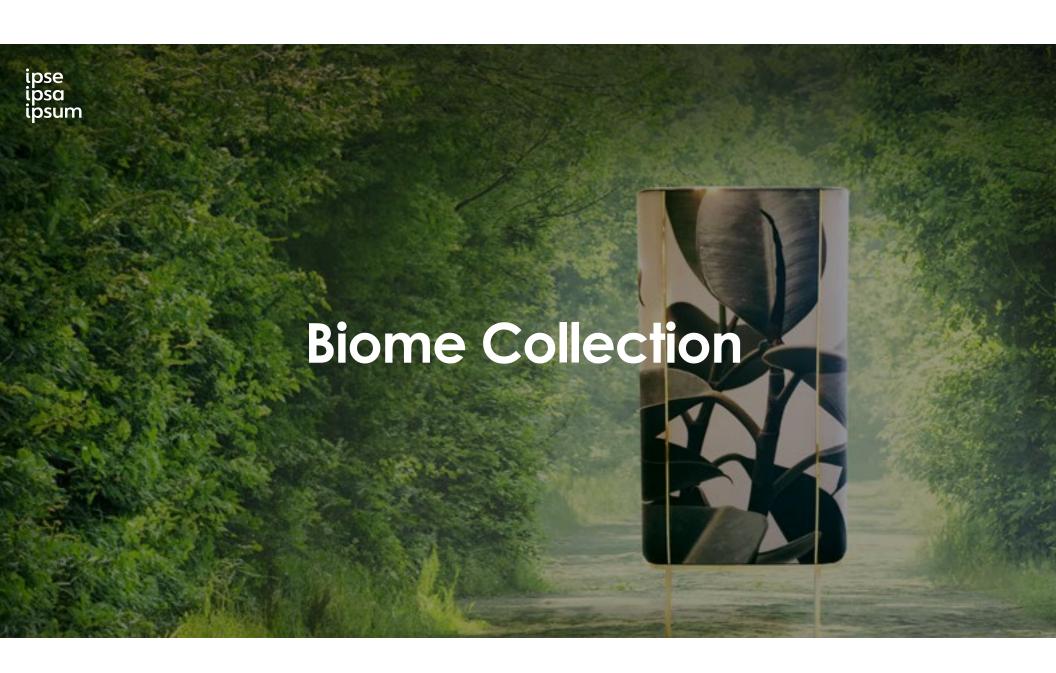




Collections

## The Muse Collection



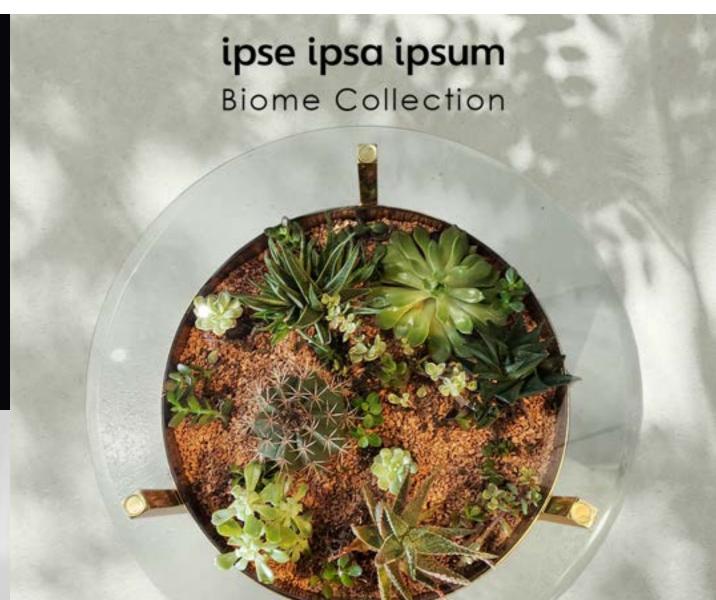


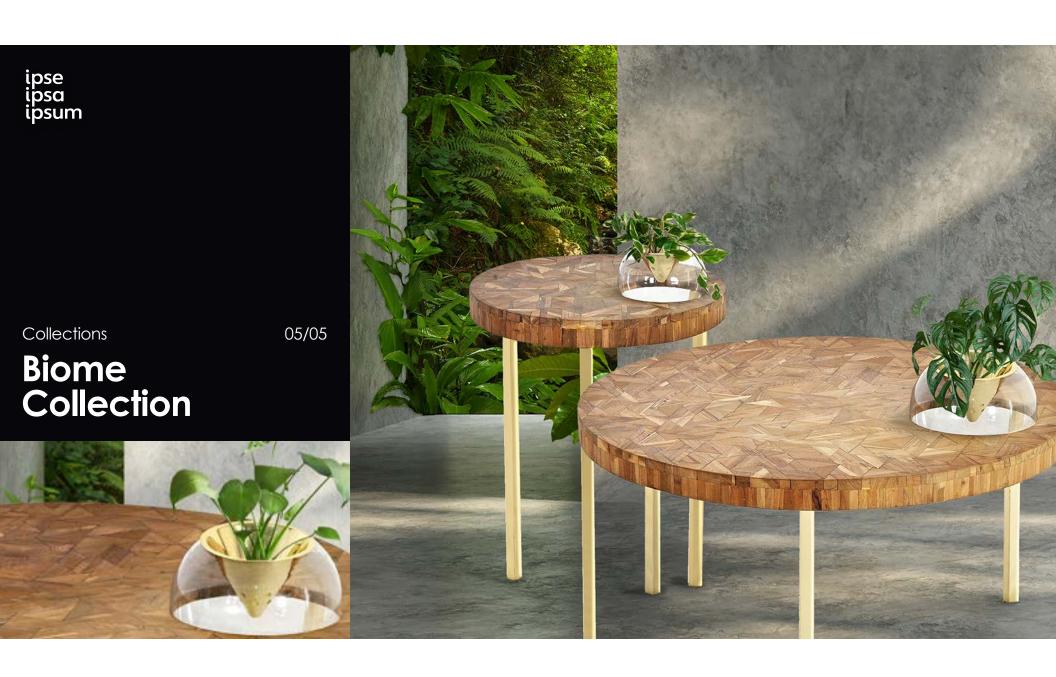
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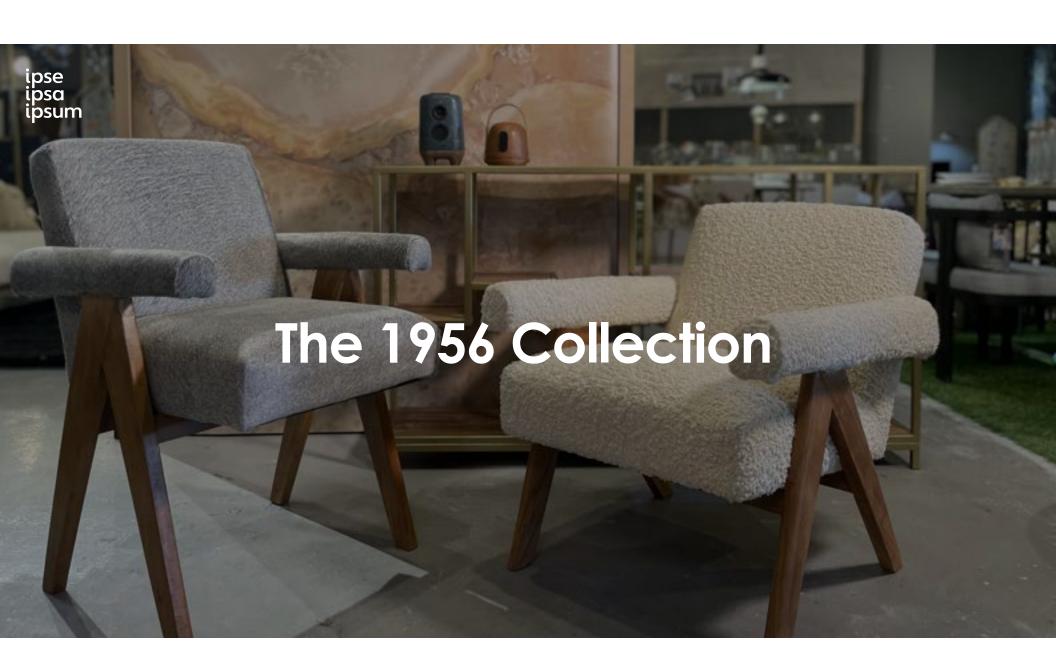
Collections

# Biome Collection

05/05







ipse ipsa ipsum

Collections

The 1956 Collection 02/05



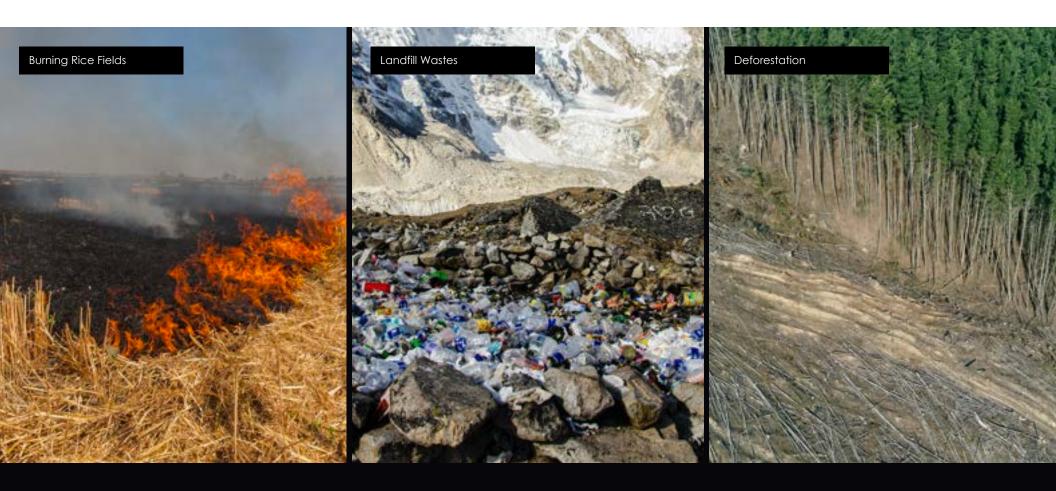
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Collections

The 1956 Collection 02/05



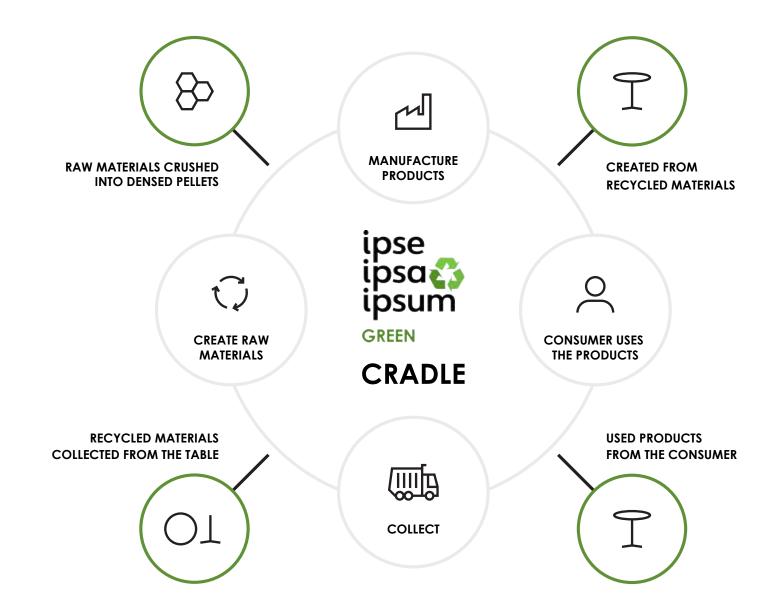




# The Problem





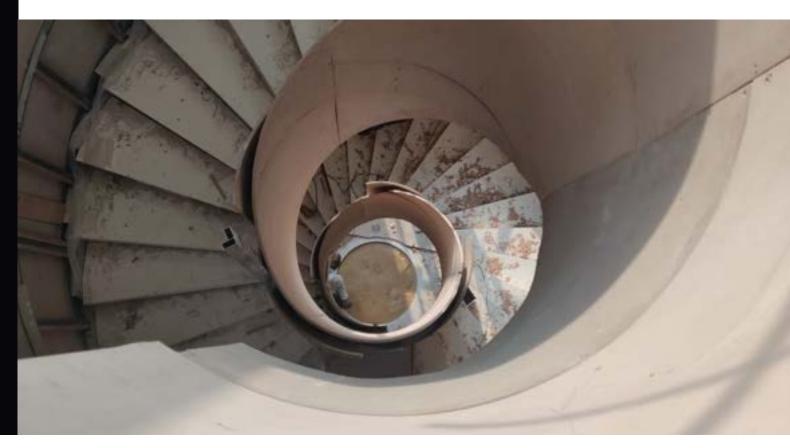




**GREEN** 

# For burning rice fields

Collect rice husks and create alternatives products for building materials





**GREEN** 

## For landfill wastes

Collect soda cans, aluminum foils and polymers and create an alternative for MDF, Particle Boards and Plyboards.



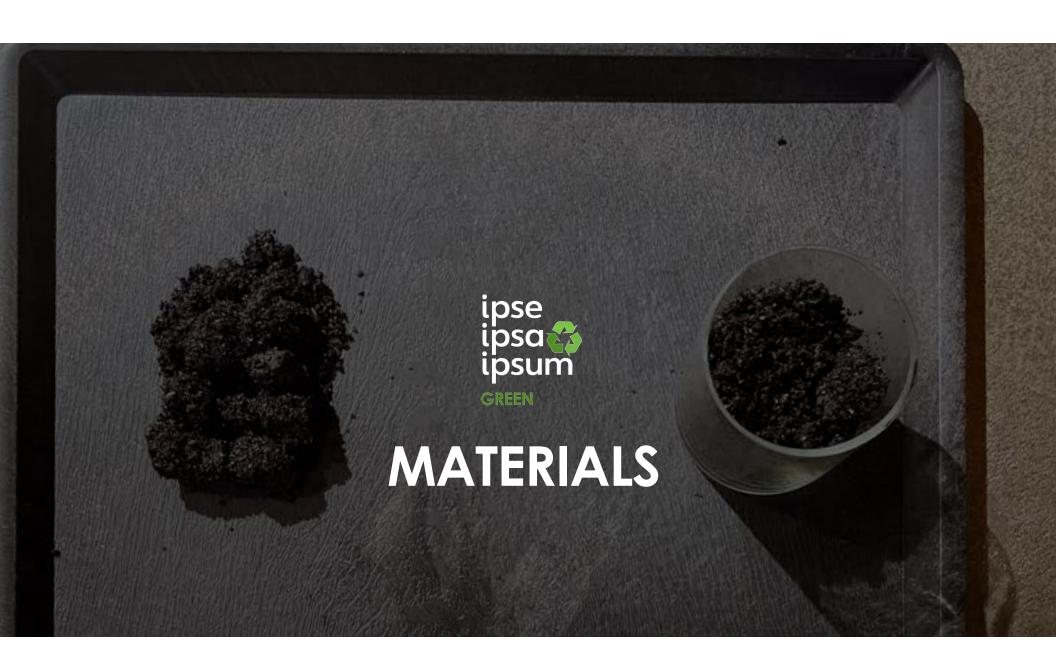


**GREEN** 

### For deforestation

Collect teak woods and convert the wood into a wood flooring



















Green

### **Rice Husk Board**

#### Material Specification and Applications

#### SPECIFICATION:

It is a sustainable eco-friendly panel product for interiors, exterior and joinery applications. It is a zero wood panel product created with high content of natural fibres derived from Agri-residues like rice husk and straw over 100PHR. It is a superior alternative to tropical wood and wood-based panel products in many ways. It is termite proof, waterproof, flame retardant, smoke suppressant (passes Class 1 / A in ASTM E84 test) and resistant to electrical short circuits. It has efficient sound absorption / acoustic properties and work as a sound barrier due to its internal homogeneous structure. It is easy to thermoform and to mould in any shape and design - just like solid surface and provide opportunities to the architects and designers to bring imaginations from drawing board to reality. It is a zero emissions product - free from hazardous formaldehyde and other VOC emissions. Its natural wood like appearance allows it to print, paint, stain, varnish, overlay veneer/laminate, CNC rout, etc. High content of natural fibres gives better physical and mechanical properties like screw holding and strength when compare to other peer products.

Sustainability

GreenPro certified

Certifications

ROHS, ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 certified

#### APPLICATION:

It can be used for exterior / interior furnishing and joinery applications. It can be used for Cabinets, wardrobes, paneling, terrace furniture, garden furniture, exterior paneling, facades, fencing, partitions, ceiling, roofing, gates, sea side homes etc..

- Housing, luxury ships/yacht,
- Sea or river side housing and furnitures
- Pool or river side furnitures.

The product is 100% recyclable and is GreenPro certified.

Rice Husk Board is a GreenPro certified product and adds merits to projects with Green Rating			
Module Compliance	Maximum Points with Rice Husk Board		
Materials with recycled	***		
Wood based material with FSC certification and/or rapidly renewable	***		
Local Materials	***		
Use of certified Green Building materials	*		
Composite wood with no urea formaldehyde	*		





### 01/09





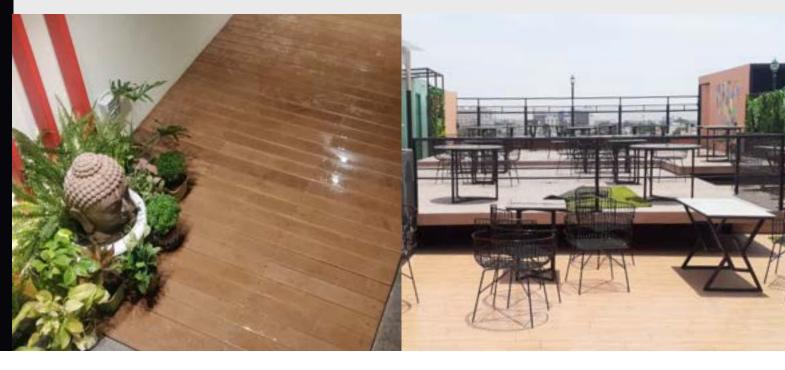














Green

01/09













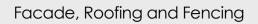






Green 01/09















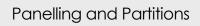






01/09













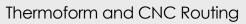


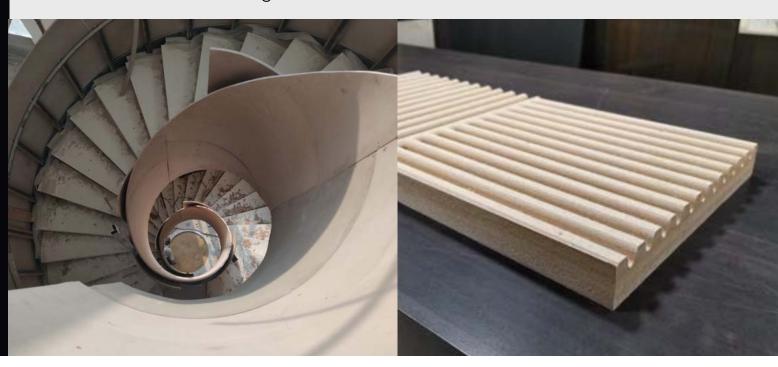






Green 01/09































# Rice Husk Board

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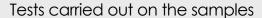
### Comparative study of rice husk board with others

	RICE HUSK BOARD	PVC/WPC FOAM BOARD	PLYWOOD	MDF
DENSITY	700-800	400-600	650-750	600-700
RAW MATERIALS	Natural fibers and Thermoplastics	PVC and fillers materials	Medium/Softwood, Formaldehyde, Urea/Phenol	Medium/Softwood, Formaldehyde
TERMITE PROOF	<b>✓</b>	Not always	×	×
WATER PROOF	✓	✓	For some time	×
FLAME RESISTANT	✓	Not known	×	×
SCREW HOLDING	Above par	Below par	Above par	Below par
CONVENTIONAL TOOLS	✓	✓	✓	✓
OVERLAY LAMINATE/VENEER	✓	Not always	✓	✓
OUTDOOR AND INDOOR APPLICATION	Both indoor & outdoor	Preferably indoor	Indoor	Only indoor
SHRINKING AND SWELLING	×	×	✓	✓
WEATHER AND AGEING RESISANT	✓	×	×	×
ECO-FRIENDLY	<b>✓</b>	<b>✓</b>	×	×





### **Rice Husk Board**



By the National Test House, Central Institute of Plastic Engineering & Technology (CIPET), Indian Plywood Industries Research & Training Institute (IPIRTI), Spectro Labs and SGS Labs.

TEST	METHOD	UNIT	RESULT
DENSITY	ASTM D792	Kg/CBM	800.349
WATER ABSORPTION AFTER 2 HRS	IS: 2380	%	0.02
WATER ABSORPTION AFTER 24 HRS	IS: 2380	%	0.12
THICKNESS SWELLING AFTER 2 HRS	IS: 2380	%	0.06
MODULUS OF RUPTURE - AVERAGE	IS: 2380	%	0.06
MODULUS OF RUPTURE - MINIMUM INDIVIDUAL	IS: 2380	%	0.06
MODULUS OF ELASTICITY - AVERAGE	IS: 2380	%	0.06
MODULUS OF ELASTICITY - MINIMUM INDIVIDUAL	IS: 2380	%	0.06
SCREW WITHDRAWAL - FACE	IS: 2380	%	0.06
SCREW WITHDRAWAL - EDGE	IS: 2380	%	0.06

TEST	METHOD	UNIT	RESULT
TENSILE STRENGTH	ASTM D638	MPa	7.6
COMPRESSION STRENGTH	ASTM D792	Kg/CBM	800.349
ELONGATION @ BREAK	IS: 2380	%	0.02
CHARPY IMPACT STRENGTH	IS: 2380	%	0.12
HEAT DEFLECTION @ 0.45 MPA	IS: 2380	%	0.06
SOFTENING TEMPERATURE @ 1 KG	IS: 2380	%	0.06
VOC EMISSIONS	IS: 2380	%	0.06
TEST FOR TERMITE RESISTANCE	IS: 2380	%	0.06
TEST FOR FUNGAL RESISTANCE	IS: 2380	%	0.06
TEST FOR BORER RESISTANCE	IS: 2380	%	0.06









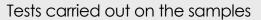








Green



By the National Test House, Central Institute of Plastic Engineering & Technology (CIPET), Indian Plywood Industries Research & Training Institute (IPIRTI), Spectro Labs and SGS Labs.

SOUND ABSORTION COEFFICIENT AS PER IS 10420:1982 AND TRANSMISSION LOSS AS PER ISO 10534-2:1998				
FREQUENCY (Hz)	SOUND ABSORPTION CO-EFF	TRANSMISSION LOSS (dB/ 1.0)		
125	0.02	26.19		
250	0.03	22.53		
500	0.04	32.85		
1000	0.06	40.20		
1500	0.06	44.50		
2000	0.05	47.33		
2500	0.05	45.61		
3000	0.06	47.83		
3500	0.08	46.6		
4000	0.10	47.56		
Sound Transmission Class (Average of Tranmission Loss) : 40.12				

TEST	METHOD	LIMIT	RESULT
FLAMMABILITY	UL94	26.19	V0 Rating
FLAME SPREAD INDEX	ASTM E84 : 2020	0 -25 CLASS 1 OR A	6 CLASS 1 OR A
SMOKE DEVELOPED INDEX	0.04	32.85	100

UL94, is a flammability standard released by the Underwriters
Laboratories of the United States of America. The standard determines
the material's tendency to either extinguish or spread the flame once
the specimen is ignited. Rice husk board rated V0 - burning stops within
10 seconds, similar to class 1/A



















Green 02/09

## Multi Layered Plastic Recycled Boards 1

The non-biodegradable output which contains plastics, polymers, aluminium foils and multilayered plastics and other non-recyclable components as well is sterilized and recycled into recycled boards.

These boards are a direct replacement to particle board, MDF and plyboards. Thus, saving the environment from the huge damage being done by cutting tress to make furniture.

These boards are converted into beautiful furniture items by local carpenters and artisans creating scores of jobs and supporting livelihood. We not only prevent dumping of plastics but also help the environment by preventing the trees from being cut.

#### **Technical Specifications**

#### **Green Manufacturing**

Using our patented technology, we convert low value plastics, multi-layered, plastic and non-recyclable plastics that nobody recycles into recycled sheets that can then be cut to make value products.

#### **Properties**

- Re-Recyclable
- Fire Retardant
- Corrosion Proof
- Water Proof
- Sound Insulation
- Fungus Proof
- Termite Proof
- Thermal Insulation
- High Strength







Green 02/09

## Multi Layered Plastic Recycled Boards 2

### Technical Specifications

Dimensions MM **440** x **1220** x **12** 

Weight/Board KG **35.5** 

Boards/M2 **0.34** 

Weight/M2 KG 12.07

Tensile Strength N / MM2 **Longitudinal 5.8; Transverse 8.35** 

Flexural Strength N / MM2 Longitudinal 11.37; Transverse 12.79

Flexural Modules N / MM2 Longitudinal 400; Transverse 462 Modulus of Elasticity N / MM2 Longitudinal 743; Transverse 552

Modulus of Rupture N / MM2 **Longitudinal 8.46; Transverse 8.45** 

Moisture Content % **0.38** 

Density KG/M3

994

Water Absorption %

After 2 hrs: 1; After 24 hrs: 2.2

Test for Thickness Swelling

AVG% of Swelling, 2 hrs. Soaking:

Test for Linear Expansion

Swelling in Water, 2 hrs.

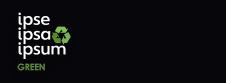
Soaking: Width 0.06, Length 0.1

Test for Swelling due to Surface Absortion

Avg% of Swelling in Thickness in 2 hrs. %: 0.62

Test for Screw Withdrawal Strength N Along the Face: 963; Along the Edge 235









## **Tetra Pak Waste Boards**

### Comparative study with others

Green

	HEAVY DUTY	LIGHT	MDF	PLYWOOD	WOOD PLASTIC COMPOSITE
DENSITY	1.06 gm/cm3	0.87 gm/cm3	0.75 gm/cm3	0.75 gm/cm3	1.85 gm/cm3
COMPRESSIVE STRENGTH (ACROSS GRAINS)	19.99 N/mm2	18.77 N/mm2	10.00 N/mm2	15.30 N/mm2	35.43 N/mm2
COMPRESSIVE STRENGTH (ALONG GRAINS)	39.12 N/mm2	36.92 N/mm2	36.64 N/mm2	32.28 N/mm2	35.43 N/mm2
TENSILE STRENGTH	19.41 N/mm2	33.71 N/mm2	18.00 N/mm2	24.80 N/mm2	35.43 N/mm2
FLEXTURAL STRENGTH	22.73 N/mm2	31.73 N/mm2	15.78 N/mm2	24.80 N/mm2	23.48 N/mm2
IMPACT TEST NO.OF BLOWS	827	1007	-	-	-
WATER ABSORPTION	0.13 - 0.25%	6.74%	22 – 24%	8 - 25%	4%
MOISTURE CONTENT	0.5%	0.80%	8%	15%	4.73%
4 HRS BOILING AND 4 HRS AIR DRY	No Delamination	No Delamination	Slight Water Absorption	Delamination	Distortion
72 HRS BOILING	No Swelling	No Swelling	Swelling	Delamination	Distortion
SCREW HOLDING STRENGTH	139 Kg	139 Kg	82 Kg	-	-
NAIL HOLDING STRENGTH	18.0 Kg	18.0 Kg	2.0 Kg	-	-
DRILLING AND SCREWIG	Easy	Easy	Easy	Easy	Easy
HEATING 100-105 'C	No Change	No Change	Burn	Burn	Burn





Green 04/09

## Multilayered Plastic Flooring - 60\*60cm Floor Tile

Low value plastics, multi-layered plastics and non-recyclable plastics are recycled into sheets that can then be cut to make value products. This solves the problem of urban waste management by minimising the amount of Single Use Plastics(SUP) and Multi Layer Plastic (MLP) that's being sent to the landfills and increases the amount of recyclables recovered from the wastes. By upcycling the SUP and MLP, we avoid the air pollution caused by their inceneration. The recycled boards are termite, water proof and are durable with high strength and can be used in a wide variety of applications.



Green 05/09

### **Plastic Lumber**

This is made with Single use Plastics and is a great way to remain the use structural material in the future.











Green 06/09

### **Recycled Teak Flooring**

ipse reclaim teak flooring is a custom-design reclaimed teak company, manufacturing high-quality, recycled, 100% teak flooring and decking.

Our mission is to offer the most environmentally responsible, beautiful, durable, and authentic hardwood material on the market. This teak is reclaimed by hand from old doors and windows of houses which are demolished.

Why we do it?

Too many woodlands are diminished as the result of deforestation, and one factor of that is improper systems of recycling. We aim to provide high-quality Teak hardwood floors without any damage to the environment.

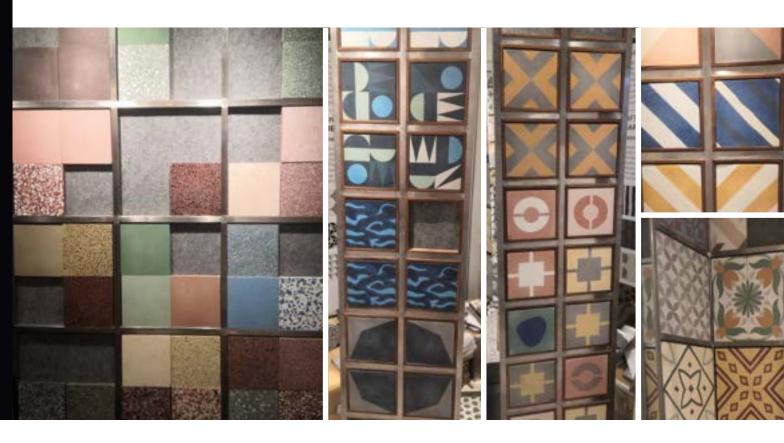
By properly utilizing Recycled 100% Teak salvaged from production works as a zero-waste process. This means no trees are cut down as a result of their work.



Green 07/09

# **Cement Tiles Design Options 1**







# **Cement Tiles Design Options 2**







Green 07/09

### **Cement Tiles**

#### Procedure: Micro Cement Flooring

#### **Prerequisites**

- Proper stage to start Micro concrete flooring work will be once site is ready and only final coat of paint is balance.
   Base for floor should be stable and firmly fixed and levelled vitrified tiles 20 days cured condition
- No other activities like carpentry, painting or any dust related shall be carried in premises during execution.
   From start date to end date of project – The area should be closed for other activities for period of execution
- 3. Complete all the ceiling related work before that so that no scaffolding and ladders will be used afterwards.

#### Site Preparation before work begins

 Grinding the surface with the Hand grinder of sandpaper to make it Rough in the area where micro cement surface is required and application of premier.

**Note:** only roughen the area where the micro cement finish will come. Applying masking tape so that other area is not spoiled.

- 2. Repairing any cracks before we start it mandatory. Once all done, clear and clean the surface base coat to be applied onto the surface
- 3. Application of topcoat of micro cement **Note:** At this stage, the floor will not be hard. Do not allow anyone to walk on the floor.
- 4. Application of Varnish and on next day sealer application. Varnish and sealer will be required 24-24 hours to get dry. Air curing of Micro cement floor 2-3 days minimum

5. Final materials thickness of micro materials will be 2-4 mm. **Note:** A Floor protection in form of bubble guard to be used in case further site work is happening





Green 07/09

### **Cement Tiles**

#### Fixing and Polishing Instructions

The appearance and life of your floor depends not only on the excellent quality of our tiles, but also on the quality of fixing and polishing. We suggest that you do this through a contractor recommended by us. In case you already have your own contractor, we give below information which, if followed properly, will ensure a smooth, attractive floor.

- Tiles should be fixed within a week of arrival on site. In case this is not possible, tiles should be stored in a covered area, or covered with plastic or tarpaulin. These are cement rich tiles and therefore some crazing is inevitable. When tiles are left in the sun for extended periods the crazing will accentuate.
- Slight variation in shade of tiles from batch to batch may exist, due to variation in cements and pigments. In case your tiles have a colour stripe marking on the edge, tiles of the same colour stripe should be laid at the centre and tiles of other colour stripe should be laid on the periphery of the floor.
- 3. The base on which the tiles are to be fixed should be level.
- Always buy the grouting mixture only from us along with the tiles. <u>Use grouting mix within 30 days of despatch. Close bags /</u> containers tightly between use.
- 5. Laying should normally start from the centre of the room going outward to the periphery. Laying out tiles in the desired pattern before fixing in mortar is advisable to avoid errors.
- 6. Fix tiles on an average 2cm to 3.5cm bed mortar with ratio not leaner that 7:1 (sand: cement) with a neat cement slurry on top. For better results we recommend a slurry of white cement for white cement based i.e. light colour tiles.
- 7. The next morning after laying, and not later, the joints are to be filled with a slurry of the grouting mixture. Joints should be properly cleaned with a blade before filling the same. Ensure that each part of the joint is filled with the colour which matches that part of the tile, and press it into the joint. Ensure water is sprinkled on the tiles for at least 3 days to enable cement to set.

- 8. The next morning after laying, and not later, the joints are to be filled with a slurry of the grouting mixture. Joints should be properly cleaned with a blade before filling the same. Ensure that each part of the joint is filled with the colour which matches that part of the tile, and press it into the joint.
- 9. A difference in thickness of 3 mm between tiles is normal and well within ISI parameters. The mason must adjust bed mortar to ensure that there is negligible variation in the level of laid tiles. Hasty and uneven laying will result in heavy cutting at the polishing stage and consequent damage to the design, corners, edges etc.
- 10. The tiles should be polished with an Italian polishing machine a week after laying. The first coat of polishing is the most important one. It is the cutting / levelling coat and should be done using No.1 polishing stone (Suri Polex Synthetic stone). Do not use No. 0 stone.
- 11. After 1st coat of polishing tiny pinholes will occur, which should be thoroughly grouted using our grout-mix to match the colour on the tiles. Grouting is to be left for 2 days and cured with water before the tiles are subjected to the second coat of polishing using No.2 stone, followed by Nos. 3, 4, 5 and EX i.e very fine stone (Suri Polex Synthetic stones). Ensure floor is washed with water between each polishing.
- 12. Protect the floor from staining, damage, etc as a result of other agencies working on site. Wet wood shaving, oil and varnish stains cannot be removed. Use Plaster of Paris or plastic covering if there is a time gap between fixing and polishing. To avoid scratches, all furniture, ladders etc should be lifted, or dragged on a thick cloth.
- 13. You may require the same tile in future. Preferably keep extra tiles, and definitely keep a sample for re-ordering.



#### Cleaning and Maintenance Instruction for Tiles

The floor will become - and remain - a thing of beauty if the following instructions are carried out right from the time the tiles are fixed.

- No gritty substances, grease, putty, oil paint, dirty water, chemical solutions, etc. should be allowed to fall on the floor.
- No carpentry, plumbing or masonry work should be done on the floor, stains from wet wood shavings or polish are very difficult / impossible to remove. Protect the floor with a thick plastic if polishing / melamining your furniture. No heavy articles should be dropped of dragged across the floor. If such work has to be carried out, the floor must be protected by placing wooden planks or heavy and clean gunnysacks over it. Once the floor is damaged on account of rough treatment, you will suffer unnecessary extra expenses for getting the floor re-polished or repaired. Even then, it may not be possible to remove the damage completely.
- A newly laid and polished cement-tile floor will develop a dull, greyish appearance. This is caused by "efflorescence" or a greyish film on the surface of the tiles due to the soluble alkalis in the cement / chunam bedding in which the tiles are fixed. Efflorescence will not ultimately effect the quality or the beauty of the floor. It will disappear after some months when all the salts have come to the surface and been washed off by daily cleaning. This normally takes about 3 to 6 months. Thereafter the floor will show a beautiful sheen and improve with use and age, if properly maintained.

- To bring out the sheen or polish of the floor, the following simple method should be followed, right from the day the polishing of the tiles or in-situ terrazzo has been completed.
- 1. The floor should be swept, to remove all loose dust and dirt.
- 2. To half a bucket of clean water, add about 2 tablespoons of kerosene or a mild liquid soap cleaner like Godrej Grease Cutter, preferably daily.
- 3. Dip a course, thick piece of cloth into the solution, squeeze out the excess liquid from the cloth, and then scrub the floor and dado (if any) hard and thoroughly. It is most important to prepare a new solution as and when the old one has become dirty. Each room should be cleaned with a fresh bucket of water / Solution.
- 4. Take a dry cloth and again rub the floor hard and dry. Cleaning should be done correctly and daily for the first 2 to 3 months or longer, after the floor is polished, till the efflorescence disappears. Thereafter swabbing of the floor should preferably be done daily or at least 2 to 3 times a week. Tiled or in-situ wall areas should be treated the same way.

WARNING! NEVER USE ANY KIND OF ACID, ALKALI, DETERGENT, HOUSHOLD CLEANING OR SCOURING POWDERS, POLISHING OR ABRASIVE STONES, SCOURING SOAPS, ETC. FOR CLEANING YOUR TILES FLOOR OR REMOVING STAINS FROM IT. DO NOT USE ANY WAX OR PHENYL ON THE FLOOR.







Green 07/09

# **Cement Tiles Option 1**

### Technical Specifications

Product Name

**Heritage and Plain Designer Tiles** 

Technical Data Composition (Topping Layer)

White cement, Grey cement pigment fillers, dolomite

Topping Layer

12mm

Backing Layer

11mm

Standard size

20cm x 20cm

Thickness

22mm-23cm





Green 07/09

# **Cement Tiles Option 2**

### Technical Specifications

Product Name

Self Colour Mosaic Tiles (Confirming to IS 1237)

Technical Data Composition (Topping Layer)

White cement, Grey cement pigment, chips, dolomite powder

Wet Transverse Strength

Above 3N/mm2

Abrasion Resistance

Below 3.00mm

Water Absorption

Below 10%

Standard size

25cm x 25cm, 30cm x 30cm, 40cm x 40cm

**Thickness** 

25mm







#### Green

## **Cement Tiles Option 3**

#### Technical Specifications

Product Name
Stilan Heavy Duty Non slip tiles
(Confirming to IS 13801-1993)

Technical Data Composition (Topping Layer)

Cement, Filler, Abrasion resistance grain
pigment.

Backing

Grey cement, Stone Grit/Dust

Types

**Non-Slip Designs** 

Standard size

25cm x 25cm x 2.5cm to 3cm, 30cm x 30cm x 2.7cm to 3cm

**Topping Layer** 

6mm - 8mm (Is Spec 5mm - 6mm)

Wet Transverse Strength

Above 3N/mm2

Abrasion Resistance

General Purpose Max 3.5mm

Abrasion Resistance

Heavy Duty Max 2mm

Impact Resistance

Good







Green 08/09

### **Pavers**

OBSERVATION TABLE & TEST RESULTS									
1. MECHANICAL TESTING 1. BUILDING MATERIAL – PAVING BLOCKS									
WATER ABSORPTION OF PAVING BLOCK									
SR.	TEST PARTICULARS	1	2	3	AVERAGE	TEST METHOD			
1	SATURATED SURFACE DRY WT (Ww) ( GM)	1755.9	1786.9	1410.9					
2	CONSTANT OVEN DRY WT. (Wd) (gm)	1749.6	1783.0	1405.3	-				
3	WATER ABSORPTION (%)	0.36	0.22	0.40	0.33	IS 15658 : 2021			

COMPRESSIVE STRENGTH OF PAVING BLOCK											
SR.	TEST PARTICULARS	1	2	3	4	5	6	7	8	AVERAGE	TEST METHOD
1	ID MARK										
2	THICKNESS (MM)	70	52	65	60	61	60	63	53		
3	PLAN AREA OF PAVING BLOCK ( SQ MM)	25194	25224	25284	25134	25224	25254	25209	24612		
4	MAX LOAD (kN)	1759	1879	1964	1883	1806	1907	1830	1837		
5	APPARENT COMPRESSIVE STRENGTH ( N/SQ MM)	69.82	74.49	77.68	74.92	71.60	75.51	72.59	74.64		
6	CORRECTION FACTOR	1.09	0.96	1.075	1	1.063	1	1.069	0.96		
7	CORRECTED COMPRESSIVE STRENGTH ( N /SQ MM)	76.1	71.5	83.5	74.9	76.1	75.5	77.6	71.7	75.9	IS 15658 : 2021

SPECIFICATION LIMITS AS PER IS 15658: 2006										
SR.	TESTS	M-30	M-35	M-40	M-50	M-55				
1	INDIVIDUAL MIN. COMP. STRENTH IN N / MM2	25.50	29.75	34.00	42.50	46.75				
2	AVG. 28 DAYS COMP. STRENGTH IN N / MM2	>=30 + 0.825 X SD	>=35 + 0.825 X SD	>=40 + 0.825 X SD	>=50 + 0.825 X SD	>=55 + 0.825 X SD				





Green 09/09

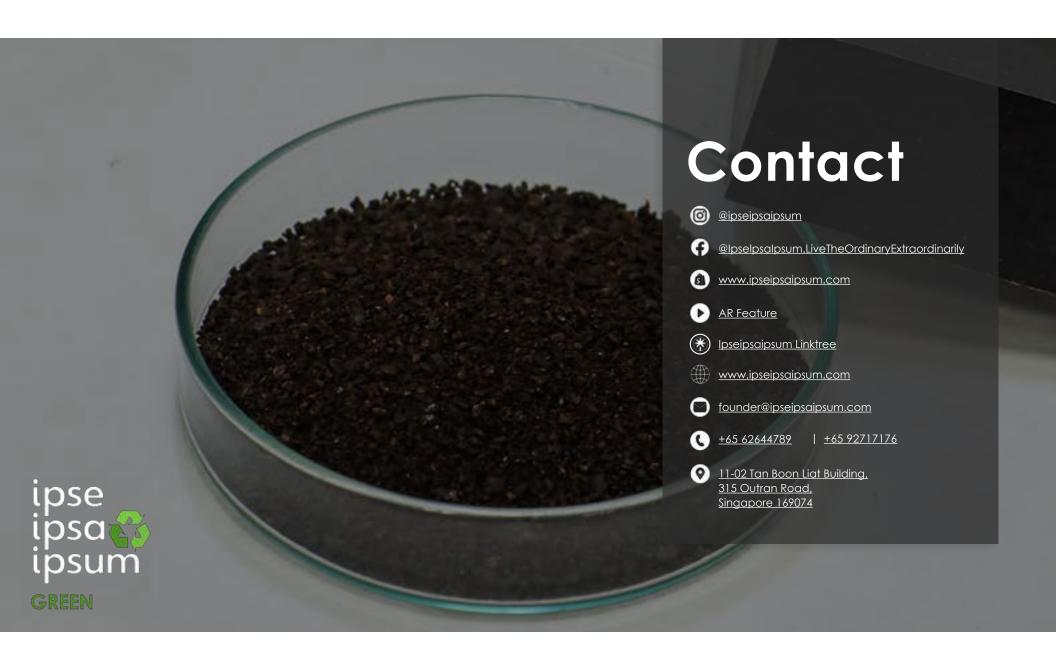
#### **Recycled Pet Yarn Flooring**

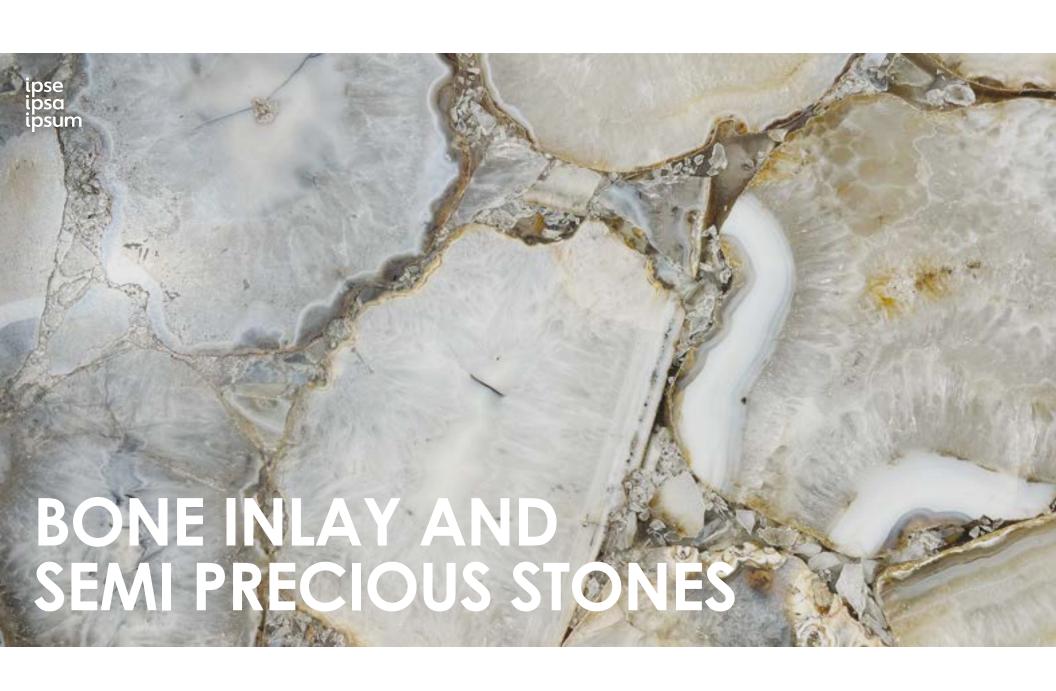
RECYCLED PET-Yarn is a synthetic material made from recycled plastic bottles, making it an environmentally friendly alternative. The material withstands water, sunlight and dirt in an extraordinary way, hence a PET yarn rug is an excellent choice for both in- and outdoor use.

Wipe off spills and stains using a damp cloth, and if necessary some foamed hand detergent. Frequent vacuum cleaning is recommended. Avoid powerful power heads and stiff bristle brushes as this might damage the rug. If the rug is placed outdoors for longer periods of rain it needs to dry up properly in between uses. The fibers in the rug can eventually deteriorate if the rug can't dry up. Carpet shedding and pilling is normal and can easily be removed by using a fabric shaver or carefully cut away with scissors. Use a rug underlay to protect your rug and your floor. This also serves as a slip protection.

#### THE NATURE OF HAND MADE ITEMS:

Handmade products will always have minor differences when we compare them as they are not made by machines. The "perfection" found in machine woven rugs is not something we are aiming for in our rugs as we value the hand of the artisan. All our rugs are hand woven one at a time, and it is therefore very rare to create identical items. Each piece will be unique and the product will always have minor variation keeping the same theme constant in artistic manner. Smaller variations in color, shading, texture and shape are inherent in a handmade item.. And remember - this is really what makes your rug truly one-of-a-kind!







Stones
White Salt Agate



Stones 02/32

#### Hematite



Stones
Yellow Adventure



Stones 04/32

Terrazzo



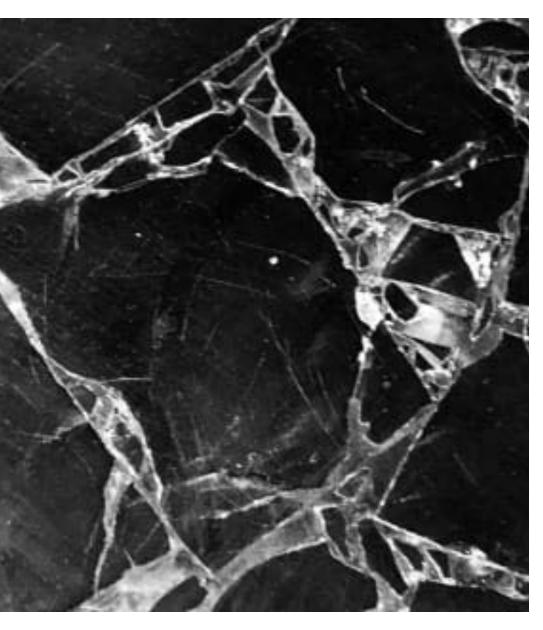
Stones 05/32

**Red Jasper** 



Stones 06/32

#### **Natural Sandstone**



Stones

### Obsidian



Stones

#### **Petrified Wood**



Stones 09/32

**Grey Agate** 



Stones 10/32

Tiger Feld Spar



11/32 Stones

**Red Agate** 



Stones

Smoky Quartz



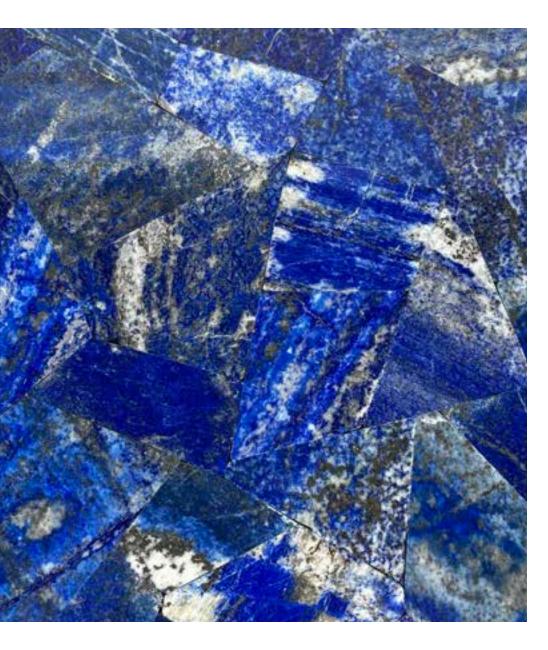
Stones 13/32

Marble



Stones 14/32

#### **Traventino Marble**



Stones

Lapis Lazuly



Stones 16/32

#### Selenite



Stones 17/32

**Coal Agate** 



Stones 18/32

### **Green Agate**



Stones 19/32

Orange Dyed Agate



Stones

Pink Dyed Agate



Bone Inlay

### White Blue & Orange Peranakan Inlay



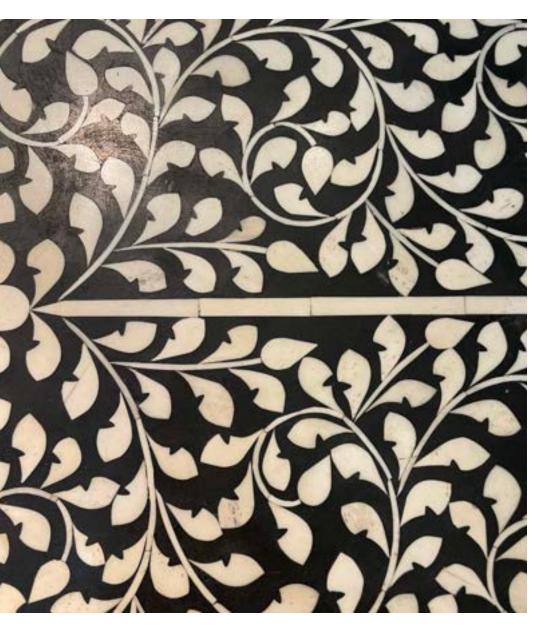
Bone Inlay 22/32

#### Turqouise Blue & Orange Peranakan Inlay



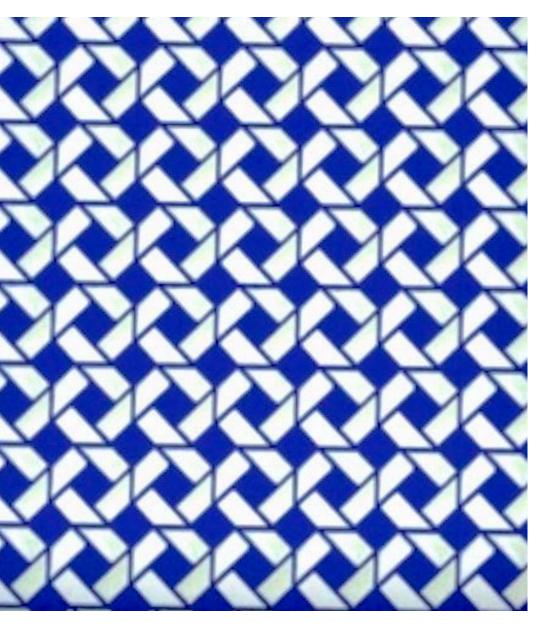
Bone Inlay 23/32

Pink and Green Peranakan Inlay



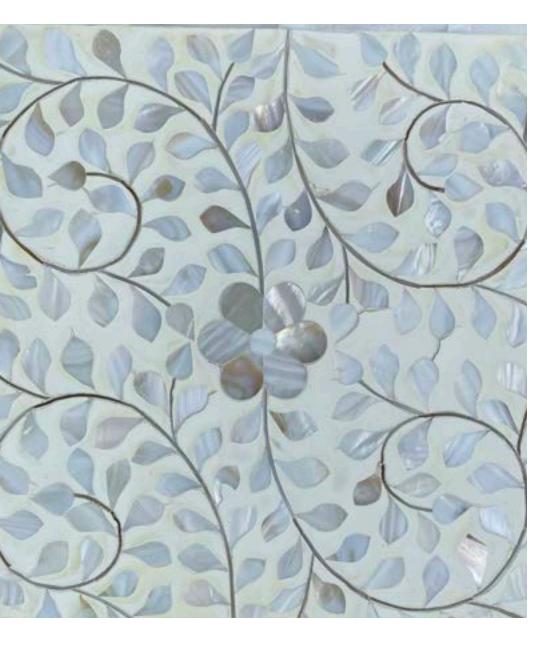
Bone Inlay 24/32

Black and White Peranakan Inlay



Bone Inlay 25/32

**Indicus Blue Inlay** 



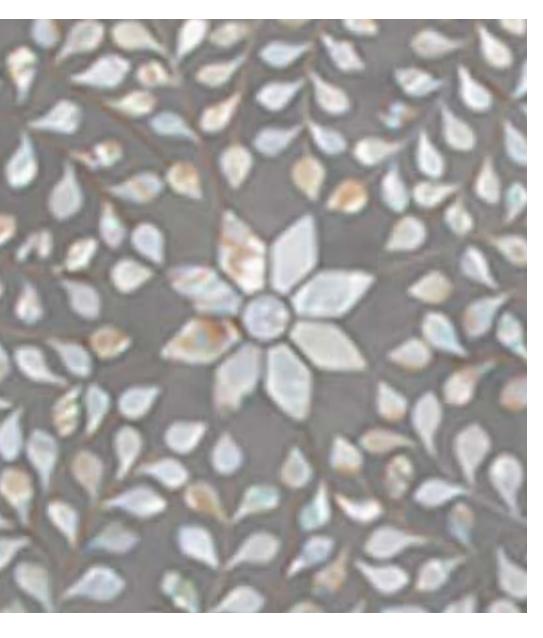
Bone Inlay 26/32

## Mother of Pearl on White Floral Inlay



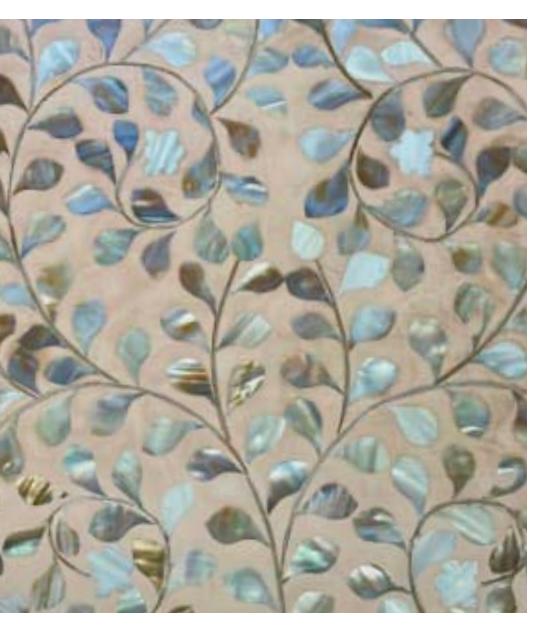
Bone Inlay 27/32

# Grey Marble Wash Floral Bone Inlay



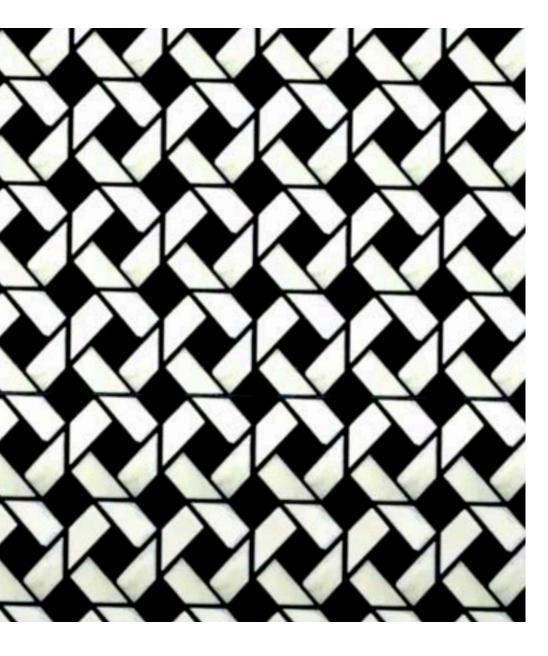
Bone Inlay 28/32

Mother of Pearl on Grey Marble Wash Floral Inlay



Bone Inlay

#### Mother of Pearl on Pink Floral Inlay



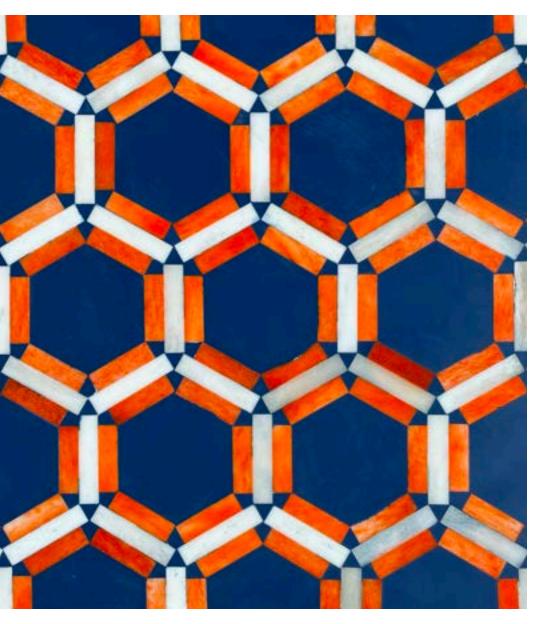
Bone Inlay

**Indicus Black Inlay** 



Bone Inlay 31/32

**Chevron Bone Inlay** 



Bone Inlay

Joo Chiat Inlay

