

EVIDENCE OF CREATIVITY

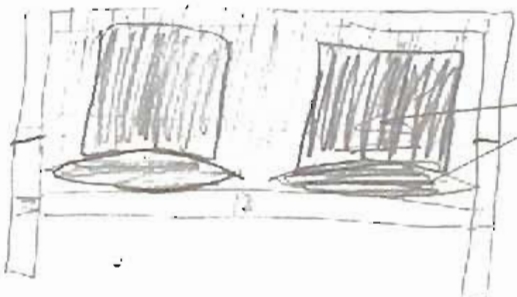
Generation of Ideas

19.11.01

1.

Front View

Initial drawings



Positives

• simple

Negatives

• top straight + rigid looking

Creativity:

- use of bamboo
- not very



2.

- 'tines

• too simple + boring looking



+ 'tines

• like curves

Creativity:

- use of bamboo
- arch shape

20.11.01

6

Positives

- Very interesting!
- unique
- has natural feel

→ I LIKE! ✱



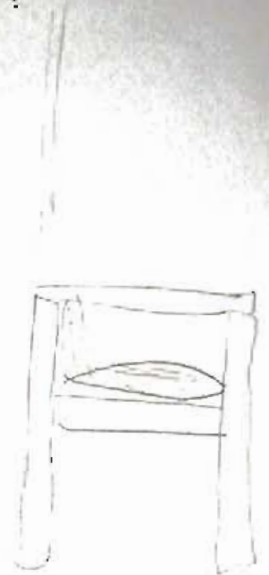
Front view

(2 seater though)

Creativity:
• unique shape
• leaf pillows

Negatives

- maybe too interesting?
- difficult to construct?



side

24.11.01



Front
single chair



side

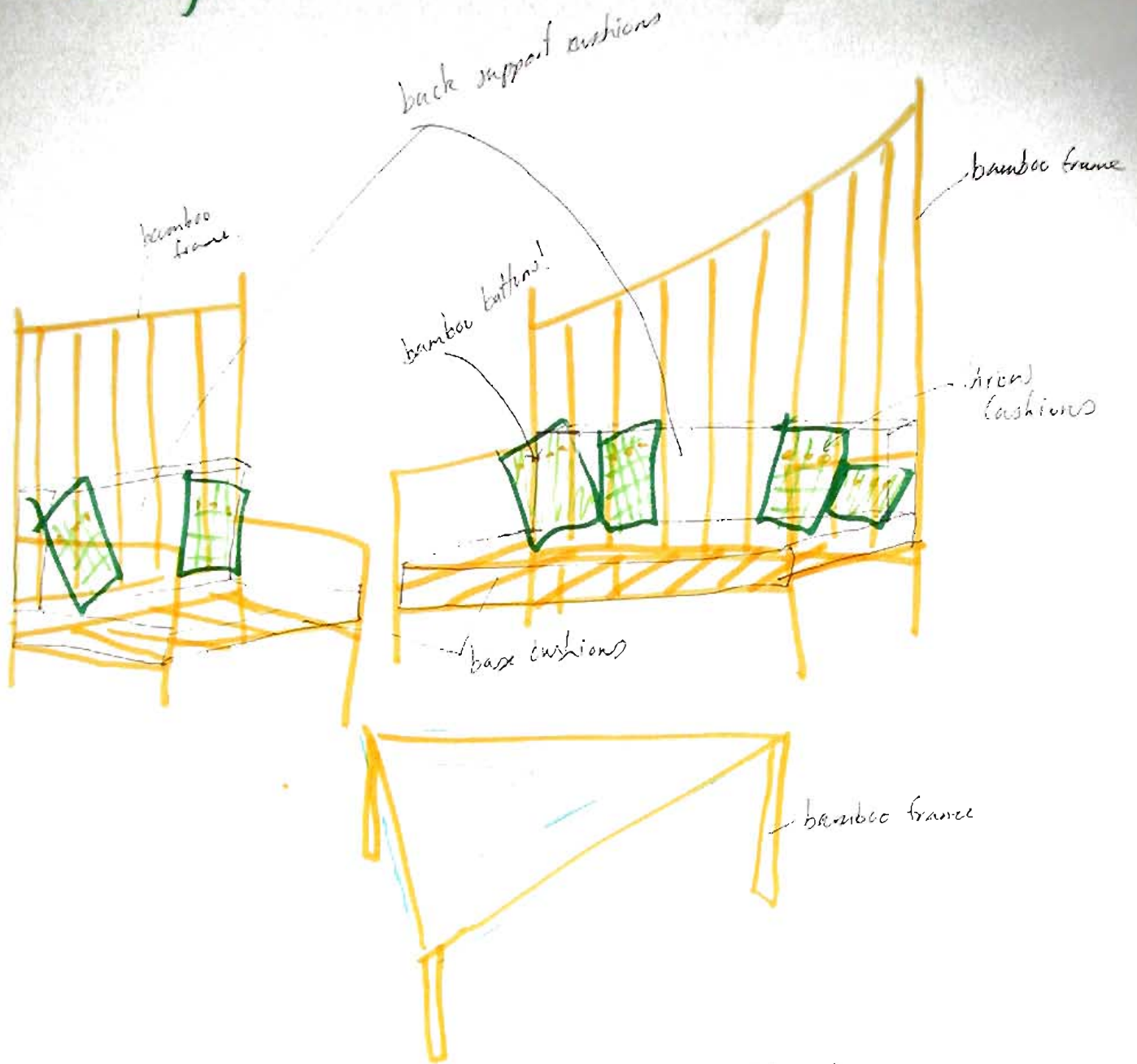
Positives

- unique
- looks alright.

Negatives

- doesn't look as good as lounge
- too much unique?

Design 9 - Final Design



Positives

- Original + Creative
- Looks Great
- Incorporates Textiles + Bamboo work
- Satisfies the need
- Nice idea.

Negatives

- Looks difficult to make

Exploration of Existing ideas

http://www.earthcare.com.au/slides/b_maculata_2.htm



*** TYPE OF BAMBOO**
BAMBUSA maculata Used primarily for the furniture but also musical instruments, wall panels, flooring and handicrafts

I don't like the chunkiness of the main support poles + the finishes of the ends.

I love this lounge set.

The curve of the bamboo like a flowing waterfall is awesome.

With some pillows it looks like it would be v. comfortable. The table top looks good + I think is made from bamboo cut in half.



This chair is made using bamboo

I like the



of the back rest

Positives

- * The pillows
- * The overall setting looks good

Negatives

- * The chunky rugiel pole look
- * The costs are expensive



Living Rooms

Club Love Seat, Club chair, Jajiva Coffee Table, Ecoboo Lamp (short)



KrissKross coffee table

Very unique in appearance. Has a country/rocking chair feel. Don't really like the look of it - there's too much stacked bamboo



This picture sums up what I'm trying to achieve but in an apartment or home - a relaxed, natural setting.

This setting looks really good. It is very simple + uncluttered

I LOVE IT

The Original Bamboo Factory - Unique Bamboo Furniture - Living Rooms

<http://www.originalbamboofactory.com/living.htm>

Design Ideas

Prototype (On display)

Aim:

To allow the project to be visualised.

Method:

1. Bamboo cut down and leaves stripped
2. Cut into pieces.
3. Assembled with hot glue gun, working off a scaled drawing.

Results:

The project could be visualised showing where pieces had to join and where pieces were going to go.

Conclusion:

The design looked good, however this was not the final design. The problem with joining was established, as the life-size lounge setting cannot just be glued together.



Lounge Chair & Table Dimensions

Aim:

To find out the dimensions of the lounge, chair and table to be ergonomic.

Method:

1. Research Books
2. Measure a lounge setting
3. Research ergonomics in booklet.

Results: see sheet

Conclusion:

The dimensions of the lounge must be within the above ranges.

Basic Furniture Dimensions

Reference Table

The following table is based on measurements derived from the average man. Where great variations in body size occur or where the utmost comfort is required, custom built furniture may be made to suit individual requirements. All dimensions are in millimetres.

Tables	Height	Length	Width
Dining	710 - 760	915 - 1830	760 - 990
Occasional	355 - 560	460 - 1830	300 - 610
Desk (office)	710 - 735	1220 - 1980	610 - 915
Desk (writing)	685 - 710	750 - 1220	460 - 840
Dressing Table	610 - 810	760 - 1450	430 - 535

Seating	Seat height front	Lower seat height rear	Width of seat	Depth	Height of back	Angle of back
Dining Chair	430	0 - 50	460 - 560	405 - 510	810 - 840	100 - 105
Office Chair	380 - 460	0 - 25	430 - 480	300 - 380	660 - 735	100 - 110
Lounge Chair	355 - 430	0 - 100	510 - 610	460 - 585	760 - 990	105 - 115

Dimensions of Lounge Rooms and Doors

Aim:

To find the average size of lounge rooms and doors so that the bamboo lounge setting will fit in the room and through the door.

Method:

1. Measure different door heights and widths
2. Measure different lounge room lengths and widths
3. Compare these dimensions with the dimensions of the lounge setting to see if they are the appropriate size.

Results:

Door Dimensions

	Height	Width
Door 1	195cm	80cm
Door 2	200cm	85cm
Door 3	195cm	80cm
Door 4	190cm	75cm
Door 5	195cm	80cm

Lounge Room Dimensions

	Length	Width	Area
Room 1	5m	4m	20msqu.
Room 2	3.5m	3m	10.5msqu.
Room 3	4m	4m	16msqu.
Room 4	4m	4m	16msqu.
Room 5	3.5m	4m	14msqu.

Conclusions:

When compared to the lounge dimension results, yes the lounge will fit in any of the above sized lounge rooms and yes, it will fit though a door. Therefore, the dimensions of the lounge should be in the ranges mentioned above.

Double Base Rail or Single Base Rail?

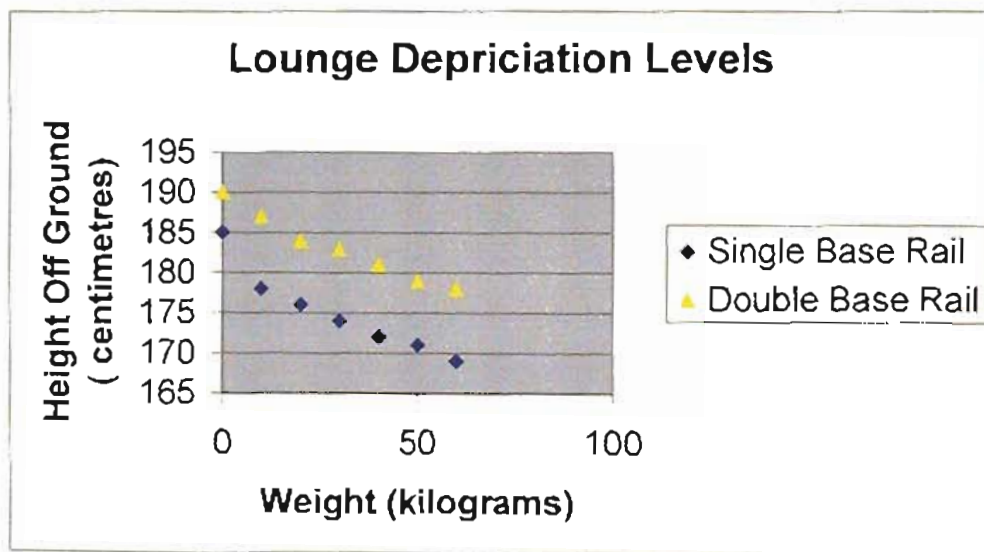
Aim:

To find out whether it is necessary to have a double base rail for extra strength or whether the single base rail is satisfactory on the lounge.

Method:

1. Assemble lounge with single rail only
2. Place a board over the base rails and gradually add weight
3. Record level of depreciation
4. Repeat with double rail

Results:



Conclusion:

It is defiantly worth having the double base rail as it makes the whole structure stronger.

The initial height is also raised by having the double rail. This means it will never go as low as the single rail.

Having the extra rail will also make the structure look more solid and add to the aesthetic appeal.

Will the Intended Design of the Soft Furnishings Work as Planned?

Aim:

To find out if the cushions and throw pillows will work as intended.

Method:

1. Interview textiles teacher on materials, designs and techniques.

Results:

Yes, they will depending on exact materials. The pillows shown in drawing from previous section can defiantly be made and will look great.

Conclusion:

The Soft furnishings can be made and will work as intended and add to the aesthetic value whilst providing comfort.

Do my Family & Friends Like the Proposed Design?

Aim:

To find out if my family and friends like the proposed design and would they change anything.

Method:

- Show individuals a drawing of the proposed design and ask them if they like it and whether they would change anything.

Results:

Out of the 10 people I asked, all of them liked the design.

Changes recommended included:

- A rectangular table
- Not white cushions
- Adding another layer in the middle of the table

Conclusion:

The design is defiantly liked. The idea of the rectangular table made me think because I have rectangular coffee table glass at home which would save costs, however I think the triangle table goes much better with the rest of the design and is more original. I love white cushions and the simple look of the table without an extra layer. An extra layer would also accumulate 'stuff' which would ruin the bamboo theme.

Materials

Suppliers of Bamboo

Aim:

To find a supplier of bamboo.

Method:

1. Research on Internet.
2. Look up yellow pages
3. Make phone calls to potential suppliers to find out if they have what I need.
4. Visit supplier to see bamboo.

Results:

Found "Mr Bamboo" on the Internet. After calling them to see if they had bamboo for construction purposes, they directed me to "House of Bamboo". I visited the people at the "House of Bamboo" and they were very helpful. They knew a lot about bamboo construction and offered me a 30% discount to buy from them.

Conclusion:

I have found a supplier of bamboo, "House of Bamboo".

House of Bamboo Price List

Pricelist February 2007

BAMBOO POLES

Code	Diameter and Length	Unit Cost	GST	Price
BR - 0.5	5 - 10mm diameter x 1.83m	\$1.50	\$0.15	\$1.65
BR - 1A	20 - 22mm diameter x 1.83m	\$2.50	\$0.25	\$2.75
BR - 1B	20 - 22mm diameter x 2.4m	\$3.50	\$0.35	\$3.85
BR - 2.5	24 - 26mm diameter x 4m	\$9.00	\$0.90	\$9.90
BR - 3.5	35 - 40mm diameter x 4m	\$15.00	\$1.50	\$16.50
	35 - 40mm diameter x 2m	\$6.50	\$0.65	\$7.15
BR - 4	40 - 45mm diameter x 4m	\$18.00	\$1.80	\$19.80
BR - 4.5	45 - 50mm diameter x 4m	\$20.00	\$2.00	\$22.00
	45 - 50mm diameter x 2m	\$9.00	\$0.90	\$9.90
BR - 5	50 - 55mm diameter x 4m	\$24.00	\$2.40	\$26.40
	50 - 55mm diameter x 2m	\$11.00	\$1.10	\$12.10
BR - 7	75 - 85mm diameter x 4m	\$36.00	\$3.60	\$39.60
	75 - 85mm diameter x 2m	\$17.00	\$1.70	\$18.70
BR - 100	100mm diameter x 2m	\$21.00	\$2.10	\$23.10

Green Bamboo poles may be made available on request. Prices on application.

Custom made Bamboo items:

Japanese Bamboo Water Features

Shishi Odoshi	\$122.60	\$12.26	\$134.86
Tsukubai (Spout)	\$63.40	\$6.35	\$69.75
Ladle small	\$7.00	\$0.70	\$7.70
Ladle large	\$12.60	\$1.26	\$13.86

Bamboo Tripod	\$226.60	\$22.66	\$249.26
Bamboo Ladder	\$126.60	\$12.66	\$139.26

Pump 600 (800mm high)	\$46.50	\$4.65	\$51.15
Pump 800 (1m high)	\$49.50	\$4.95	\$54.45
Pump 1200 (1.8m high)	\$84.00	\$8.40	\$92.40
Atomiser	\$87.00	\$8.70	\$95.70

(As all products are natural and handcrafted, dimensions are always approximate.
Prices are ex - House of Bamboo).



Mark Sniders

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Website: www.houseofbamboo.com.au

House of Bamboo - Bamboo Products For Nature's Architecture

House of Bamboo products are a collection of maintenance free products to create any environment. They include:

- Bamboo cladding
- Bamboo poles
- Bamboo slat cladding
- Cane reed cladding
- Palm fibre unique cladding

Mr Bamboo

"ESCAPE-PROOF" BAMBOO

18 Myoora Rd Terrey Hills 2084

Tel: 9456 3604

Fax: 9450 0125

Mobile: 0418 822 815

email: paul@mrbamboo.com.au

www.mrbamboo.com

For more products, ideas and information.

HOUSE OF BAMBOO

Natured® - New and low cost rolls for cladding, fencing, overhead shade
1.83m(w) x 3.66m(l) [6'x12']
1.52m(w) x 3.66m(l), 1.22m(w) x 3.66m(l),
0.91m(w) x 1.83m(l)
Garden edging 0.3m(w) x 0.45m(l)

Bamboo poles - In range of sizes. New, malleable bamboo rod barrier & privacy screens - various heights and lengths
1.2m(w) x 2.4m(l), 1.5m(w) x 1.83m(l)
1.83m(w) x 1.6m(l), 1.83m(w) x 2.4m(l)

Bamboo slat cladding - With tough binding. For fences, cladding, overhead shade
Rolls 1.83m(w) x 1.83m(l)
Individual bamboo slats, 30, 60 or 80mm(w) x 1.83m(l), or 2.7m(l)

Cane reed cladding - Classic line, screens, overhead shade, outdoor blinds
1.83m(w) x 2.4m(l)
1.83m(w) x 2.7m(l)

Palm fibre unique cladding - Thick, low density twisted palm leaves with tough binding. Decorative wall and ceiling cladding, thatching, island or beach ambience
1.83m(w) x 2.7m(l) or 1.83m(w) x 2.4m(l)



Bamboo Contacts

Search yahoo: Australian Bamboo

1. Aust Bamboo Network:

- not useful (about bamboo for food)

2. Bamboo Surfboards Aust:

- v good site

3. Bamboo Australia

Address: "Belli Bamboo Parkland"

Road,

QLD

Aust

phone:

email:

or

.com.au

- L helpful site

- books - IL 31"

- "Chinese Bamboo Handbook"

- "Tropical Bamboos"

- "The bamboo handbook"

Internet

yahoo Search: bamboo research

4. Mr Bamboo

Details: Mr Bamboo

Road,

NSW

phone:

mobile:

House of Bamboo

5. bamboo furniture . com . au

- good for what's on the market.

- have good graphic on it

6. Earth care . com . au

- species list *Bambusa maculata*

- great picture



1. Natured® cladding: high strength, high fire resistance. Compare with bamboo veneer (other Magic Laminating). 2. Natured® poles: strong & long lasting. 3. Natured® cladding and roofing: fresh & long lasting. 4. Natured® privacy and natural design for screening pool & garden. 5. Natured® wall cladding and overhead shade enhances the design. Natured® in use.

Showrooms and Sales: 13 Erith Street Botany NSW 2019
Telephone: (02) 9666 5703 or 1300 666 703 Facsimile: (02) 9666 5693

A DIVISION OF INTERNATIONAL SALES PROMOTIONS PTY LTD

NO 50



It shoots up faster than any other plant on earth. Demand for it is soaring too

The Grass That BUILT ASIA

Standing tall - About 80 per cent of Hong Kong skyscrapers are born within bamboo scaffolding

Why Bamboo?

Aim:

To establish why bamboo was chosen for the main working material.

Method:

1. Find out why other people use bamboo by reading the newspaper, looking in magazines, searching the Internet and asking people.

Results:

From surrounding information, it can be seen people use bamboo for:

- Its strength
- Its aesthetic appeal
- Its durability
- Its lightweight
- Environmental reasons
- Its availability, very sustainable

Conclusion:

The reasons above are also why I chose bamboo to work with.

WHY NOT?



Deep in the woods - An almost impenetrable Nepalese bamboo grove



bamboo



JODY RIGBY SAYS BAMBOO IS BEAUTIFUL, VERSATILE AND CAN GIVE ANY TROPICAL-STYLE GARDEN A FABULOUS LOOK. SHE HAS TIPS ON HOW TO GROW IT, USE IT IN YOUR DESIGN, SOME STYLISH PROJECTS TO TRY, AND PICKS THE BEST GARDEN-FRIENDLY VARIETIES THAT WILL NEVER TAKE OVER.

Why Was Bamboo Chosen?

Environmental Reasons

- * is a renewable resource
- * can be plantation grown
- * grows very quickly thus doesn't cause long term harm.
- * Can be used raw + doesn't need extra finishes

Social reasons

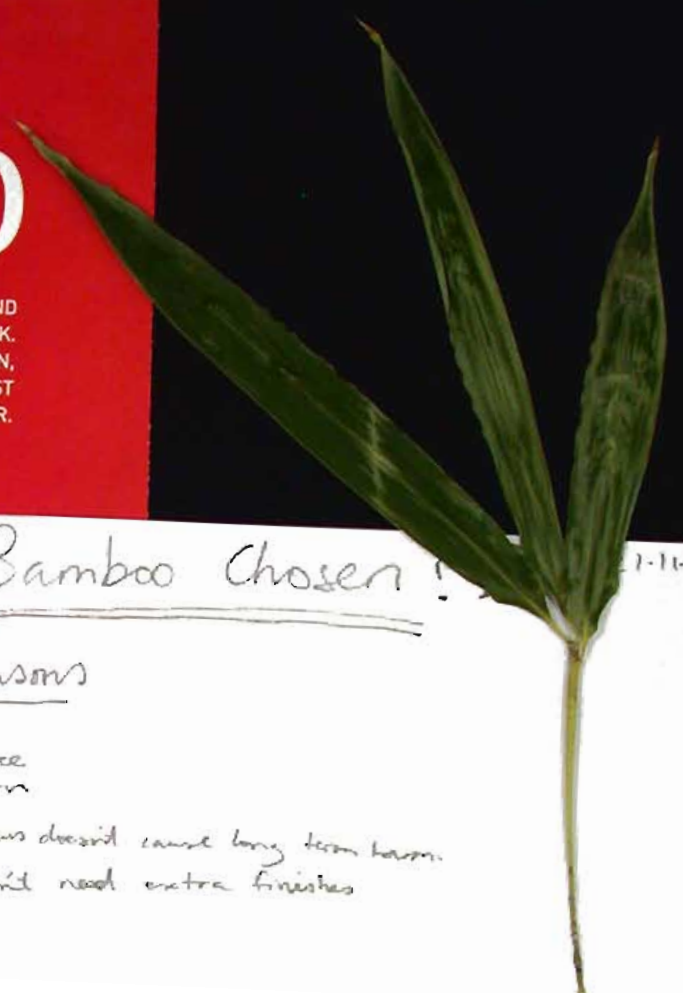
- * provides an island/tropical theme

Practical reasons

- * is v. strong
- * is easy to attain
- * can be used for most designs.
- * is very light

Aesthetic reasons

- * looks great!
- * round timber finishes looks unique
- * looks tropical
- * is bright + light in colour



Can Spot Stains be Removed from 'Cotton Duck'?

Aim:

To see if a typical spot stain for a lounge setting can be removed without having to take off the cushion covers.

Method:

1. Cut one sample piece of cotton duck
2. Dip the piece into a mug of fresh hot coffee.
3. Dry
4. Using Sunlight Soap and water try to remove the stain on one half of the sample piece to allow easy comparisons.

Results:



Conclusion:

After continual scrubbing, the stain did gradually come out, however not to the original quality.

Depending on the stain, spot cleaning may be appropriate or otherwise the cover may have to be removed to clean.

Techniques

Methods of joining Bamboo

Aim:

To find the best method of joining bamboo.

Method:

1. Consult experts on bamboo joining. (Mr Bayram)
2. Look at existing ideas (refer to Exploration of Existing Ideas)

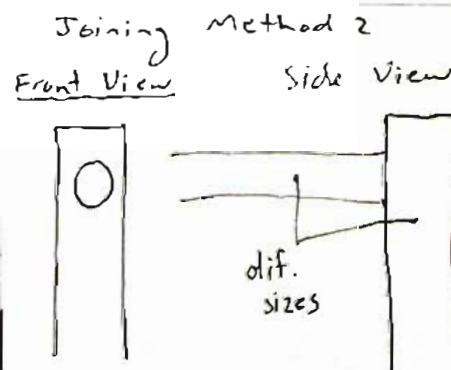
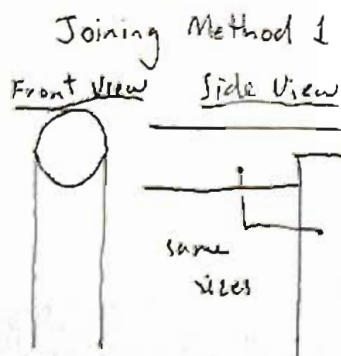
Results:

There are two main ways of joining bamboo. The first involves joining two pieces of bamboo together to form a right angle as shown in Joint Method 1 (on display). This involves one piece being cut to fit the shape of the other and then having a device inside the bamboo pulling them together. This method of joining is not appropriate for all joints. This method is aesthetically pleasing but is very complicated to produce.

The second method of joining involves the joining of two pieces of bamboo that are of different sizes. This can be seen in Joint Method 2 (on display). This joint goes by the principle that one piece goes into the other piece and is then glued or lashed. The example shown is joined by using two different types of glue, Epoxy Resin and PVA Glue.

Conclusion:

There are two main types of joining bamboo, method 1 and method 2. Method two would be more appropriate to use in the bamboo lounge setting as method 1 is too hard to produce in the amount of time available.



Application of Conclusions

Design Ideas

Conclusion	Application to MDP
Average coffee table height 450mm	Coffee table made 450mm high
Average dimension of lounge and chair	Dimensions applied
Average door 195cm high	Lounge max height less than 195cm
Average door 80cm wide	Lounge and chair width less than 80cm
Double base rail needed	Double base rail included

Materials

Conclusion	Application to MDP
House of Bamboo supply bamboo	Supplied bamboo from H. of Bamboo
Bamboo is a great material	Bamboo is used extensively
Diameters available of bamboo	Diameters of the design match
Glass great material for table top	Glass used for table top
Felt is the best to stop scratching of G.	Felt used to protect glass
Cotton Duck is good for cushions	Cotton Duck is used for cushions
Cotton Duck is durable	Cotton Duck is used for cushions
C. D. can only be warm ironed	Warm iron used on cotton duck
Piping can be sewed in	Piping is sewed in
A seam can be sewed	Seams are sewn in MDP
Apple fabrics good for throw cushions	Apple Fabrics used for throw cushions
Apple fabrics are durable	Apple Fabrics used for throw cushions
Apple fabrics can be ironed	Apple Fabrics are ironed
Stains can be spot removed	Spot remove stains
Piping can be sewed in	Piping is sewed in
A hem can be made	Hems are used in the cushions
Bamboo buttons can be made/used	Bamboo buttons are used in pillows

Tools

Conclusion	Application to MDP
Hole saw makes best hole in bamboo	Hole saw used to make holes in bam
Sizes of hole saws 25mm-67mm	All holes cut with these sizes
Med. Band saw or table saw best	Med. Band saw or table saw used
Combo of rasp, file and drill clean hole	Combo used to remove excess matter
Pencil is best tool to mark bamboo	Pencil is only used to mark bamboo
Sandpaper removes pencil markings	Sandpaper used to remove pencil

Techniques

Conclusion	Application to MDP
Method 2 best joins bamboo	Method 2 used
Epoxy and PVA good as glues	Both used
Grid good to make frame ends square	Grid made and used
Small holes better than too big holes	Smaller holes always made
Datum used to centre things	Datum used to centre frames
Zip good for base and back cushions	Zips used
Zip can be centred	Zip centred
Buttons good for throw cushions	Bamboo buttons used
Sewing machine makes good but. Holes	Sewing machine used
Buttons best hand sewed on	Buttons hand sewed on



HSC 2002 – Design and Technology

Major Design Project

Band 5/6

Sample 2



PRODUCT



DETAIL 1



DETAIL 2

- demonstrates quality design practice and understanding of design theory. Effectively uses a range of appropriate research methodologies in the production of a high quality design project.
- evidence of experimentation and testing demonstrated in the folio are appropriate to the design solution.
- progressive evaluation is clear and relevant.

HSC 2002 – Design and Technology

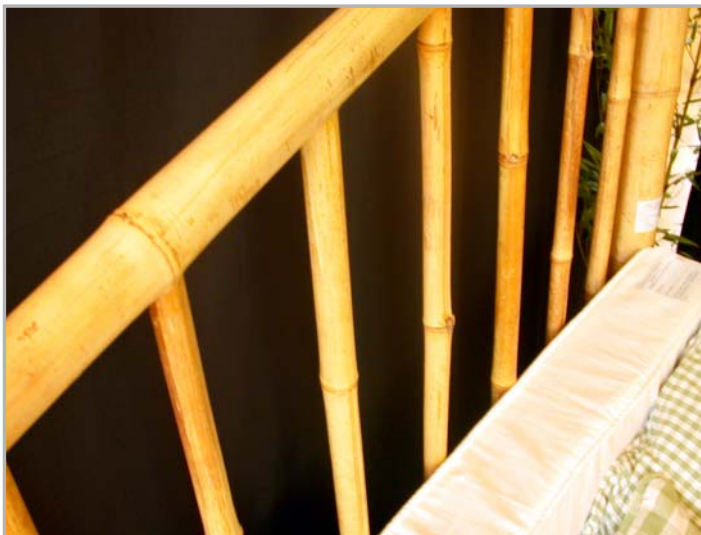
Major Design Project

Band 5/6

Sample 2



DETAIL 3



DETAIL 4



DETAIL 5