

Skill name  
Cabinetmaking  
Criteria

	Criteria	Mark
A	Dimensions	19.00
B	Conforming to drawing	11.00
C	Face Marking & Joints before gluing	19.00
D	Joints after gluing	18.00
E	Fitting and moveable parts	16.00
F	Surfaces	12.00
G	Use of Materials	5.00

Sub Criteria ID	Sub Criteria Name or Description	Aspect Type O = Obj S = Sub J = Judg	Aspect - Description	Judg Score
A1	Total height			
		<input type="radio"/>	Measure at left front leg using gauge template.	
		<input type="radio"/>	Measure at right back leg using gauge template.	
A2	Total height of carcass			
		<input type="radio"/>	Measure at right back carcass using gauge template.	
		<input type="radio"/>	Measure at left front carcass using gauge template.	
A3	Total Width of carcass			
		<input type="radio"/>	Measure at lower front between legs using gauge template.	
		<input type="radio"/>	Measure at top front between legs using gauge template.	
A4	Total Depth of carcass			
		<input type="radio"/>	Measure at top left using gauge template.	
		<input type="radio"/>	Measure at top right end using gauge template.	
A5	Distance of shelf in carcass			
		<input type="radio"/>	Measure at between bottom to shelf using gauge template.	

A6	Total measure of top		<input type="radio"/> Measure at front side length using gauge template. <input type="radio"/> Measure at left right width using gauge template.	
A7	Distance between top to carcass		<input type="radio"/> Measure at left side between top to carcass using gauge template. <input type="radio"/> Measure at right side between top to carcass using gauge template.	
A8	Distance between legs		<input type="radio"/> Measure at left top width between legs using gauge template. <input type="radio"/> Measure at right bottom width between legs using gauge template.	
A9	Distance between end legs and carcass		<input type="radio"/> Measure at left between end legs and bottom. <input type="radio"/> Measure at right end using gauge template.	
A10	Measure of veneer design		<input type="radio"/> Measure at centre of Veneer	
A11	Measure of handle pull in drawer		<input type="radio"/> Measure at length down of handle pull.	
Sub Criteria ID	Sub Criteria Name or Description	Aspect Type O = Obj S = Sub J = Judg	Aspect - Description	Judg Score
B1	Veneer in top		<input type="radio"/> The grain direction is correct <input type="radio"/> The banding is attached	
B2	Drawer		<input type="radio"/> The left runner in the drawer is attached <input type="radio"/> The right runner in the drawer is attached <input type="radio"/> The distance between bottom at end edges of drawer is 8 mm <input type="radio"/> The angle on the drawer front exists	
B3	Doors		<input type="radio"/> Handle pull is attached <input type="radio"/> The cross in left door is attached <input type="radio"/> The cross in right door is attached	
B4	Top		<input type="radio"/> The chamfer in the top is 8 x 8 mm <input type="radio"/> The distance between legs and under top in front and back is 40	
B5	Carcass			

B6	Errors (mistakes / not like the drawing)	<ul style="list-style-type: none"> <li>O The shelf is attached</li> <li>O The distance between back panel and back eches is 10 mm</li> <li>O The legs have proper tapers on them all.</li> <li>O A visible error recorded by three or more judges</li> <li>O A visible error recorded by three or more judges</li> <li>O A visible error recorded by three or more judges</li> </ul>		
Sub Criteria ID	Sub Criteria Name or Description	Aspect Type O = Obj S = Sub J = Judg	Aspect - Description	Judg Score
C1	Face marking of drawer	<ul style="list-style-type: none"> <li>O Markings are correct</li> <li>O Markings are clean and neat</li> </ul>		
C2	Face marking of Legs and Doors	<ul style="list-style-type: none"> <li>O Markings appear on both left and right sides</li> <li>O Markings are correct in left door</li> <li>O Markings are correct in right door</li> </ul>		
C3	4 Drawer dovetails joints before gluing	<ul style="list-style-type: none"> <li>S Front dovetails Inside and outside of joints are clean and straight</li> <li>S Back dovetails Inside and outside of joints are clean and straight</li> </ul>		
C4	4 Leg and top mortise joints before gluing	<ul style="list-style-type: none"> <li>S Inside and outside of joints are clean and straight and correct.</li> </ul>		
C5	2 doors mortise joints before gluing	<ul style="list-style-type: none"> <li>S Left door Inside and outside of joints are clean and straight and c</li> <li>S Right door Inside and outside of joints are clean and straight and</li> </ul>		
C6	2 crosses of door joints before gluing	<ul style="list-style-type: none"> <li>S Left and right cross outside of joints are clean and correct</li> </ul>		
C7	Top joint before gluing	<ul style="list-style-type: none"> <li>S The biscuits in lenght top are accuracy and correct.</li> <li>S The biscuits in width top are accuracy and correct.</li> </ul>		

Sub Criteria ID	Sub Criteria Name or Description	Aspect Type O = Obj S = Sub J = Judg	Aspect - Description	Judg Score
D1	Drawer Dovetail joints after gluing	S	Front Joints are tight, flush and correct.	
D2	Leg and top joints after gluing	S	Back Joints are tight, flush and correct.	
D3	Door joints after gluing	S	Front Joints are tight, flush and correct.	
D4	Carcase (cabinet) joints after gluing	S	Back Joints are tight, flush and correct.	
D5	Top Veneer and banding joints after gluing	S	Left door Joints are tight, flush and correct.	
D6	Top Miters	S	Right door joints are tight, flush and correct.	
		S	Joints are tight, flush and correct.	
		S	Joints are tight and correct.	
		S	Joints are tight and correct	
Sub Criteria ID	Sub Criteria Name or Description	Aspect Type O = Obj S = Sub J = Judg	Aspect - Description	Judg Score
E1	Hinge Insert	O	2 Left Hinge is inset and screwed	
		O	2 Right Hinge is inset and screwed	
		O	2 Left Hinge is flush	
		O	2 Right Hinge is flush	
		O	2 Left Hinge has no gap around it (+/- 0.9mm)	
		O	2 Right Hinge has no gap around it (+/- 0.9mm)	
E2	Drawer finger pull	O	Finger pull is correct	
E3	Door finger pull and magnetic close	O	Finger pull is correct	
		O	Magnetic close is screwed in place	

E4	Drawer rails	O	Drawer rails are screwed in place	
E5	Doors operation	S	Left Door functions properly	
		S	Right Door functions properly	
E6	Drawer operation	S	Drawer slides front to back properly. (One finger push)	
		S	Fit of closed drawer. (gap / flush / etc)	
Sub Criteria ID	Sub Criteria Name or Description	Aspect Type O = Obj S = Sub J = Judg	Aspect - Description	Judg Score
F1	Sanding of legs	O	All surfaces have been sanded	
		O	All edges have been broken (softened)	
F2	Sanding of Carcase	O	Some surfaces have been sanded	
		O	All surfaces have been sanded	
		O	All edges have been broken (softened)	
F3	Sanding of Drawer	O	Some surfaces have been sanded	
		O	All surfaces have been sanded	
		O	All edges have been broken (softened)	
F4	Sanding of Top (Veneer, banding & edges)	O	Some surfaces have been sanded	
		O	All surfaces have been sanded	
		O	Cross grained scratches do not visible	
F5	Sanding Quality of Outside	S	Quality of sanding of Top and Legs to proper grit and ready for a	
		S	Quality of sanding of (Carcase, Drawer, Doors and Back) outside	
F6	Sanding Quality of Inside	S	Quality of entire unit sanded inside (including the drawe) to prope	

Sub Criteria ID	Sub Criteria Name or Description	Aspect Type O = Obj S = Sub J = Judg	Aspect - Description	Judg Score
G1	Part replacement	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	No replacement piece required - First Part No replacement piece required- Second Part No replacement piece required- Third Part No replacement piece required- Fourth Part	

Extra Aspect Description (Obj or Subj) OR Judgement Score Description (Judg only)		Requirement or Nominal Size (Obj Only)	WSSS Section	Max Mark
Yes = 1 point	No = 0 points	764+/- 0.9mm	6	1.00
Yes = 1 point	No = 0 points	764+/- 0.9mm	6	1.00
Yes = 1 point	No = 0 points	540+/- 0.9mm	6	1.00
Yes = 1 point	No = 0 points	540+/- 0.9mm	6	1.00
Yes = 1 point	No = 0 points	580+/- 0.9mm	6	1.00
Yes = 1 point	No = 0 points	580+/- 0.9mm	6	1.00
Yes = 1 point	No = 0 points	310+/- 0.9mm	6	1.00
Yes = 1 point	No = 0 points	310+/- 0.9mm	6	1.00
Yes = 1 point	No = 0 points	184+/- 0.9mm	6	1.00

Criterion  
A

Total  
Mark

19.00

Yes = 1 point	No = 0 points	710+/- 0.9mm	6	1.00
Yes = 1 point	No = 0 points	360+/- 0.9mm	6	1.00
Yes = 1 point	No = 0 points	50+/- 0.9mm	6	1.00
Yes = 1 point	No = 0 points	50+/- 0.9mm	6	1.00
Yes = 1 point	No = 0 points	220+/- 0.9mm	6	1.00
Yes = 1 point	No = 0 points	220+/- 0.9mm	6	1.00
Yes = 1 point	No = 0 points	15+/- 0.9mm	6	1.00
Yes = 1 point	No = 0 points	15+/- 0.9mm	6	1.00
Yes = 1 point	No = 0 points	355+/- 0.9mm	6	1.00
Yes = 1 point	No = 0 points	296+/- 0.9mm	6	1.00
Extra Aspect Description (Obj or Subj) OR Judgement Score Description (Judg only)		Requirement or Nominal Size (Obj Only)	WSSS Section	Max Mark
Yes = 0.5 points	No = 0 points	Yes / No	5	0.50
Yes = 0.5 points	No = 0 points	Yes / No	5	0.50
Yes = 0.5 points	No = 0 points	Yes / No	4	0.50
Yes = 0.5 points	No = 0 points	Yes / No	4	0.50
Yes = 0.5 points	No = 0 points	Yes / No	4	0.50
Yes = 0.5 points	No = 0 points	Yes / No	4	1.00
Yes = 0.5 points	No = 0 points	Yes / No	4	0.50
Yes = 0.5 points	No = 0 points	Yes / No	4	0.50
Yes = 0.5 points	No = 0 points	yes / No	4	0.50
Yes = 0.5 points	No = 0 points	Yes / No	4	0.50
Yes = 0.5 points	No = 0 points	Yes / No	4	0.50

Criterion B Total Mark 11.00



Yes = 0.5 points	No = 0 points	yes / No	4	0.50
Yes = 0.5 points	No = 0 points	yes / No	4	0.50
Yes = 0.5 points	No = 0 points	yes / No	4	1.00
Yes = 1 point	No = 0 points	Yes / No	2	1.00
Yes = 1 point	No = 0 points	Yes / No	2	1.00
Yes = 1 point	No = 0 points	Yes / No	2	1.00

Extra Aspect Description (Obj or Subj) OR Judgement Score Description (Judg only)	Requirement or Nominal Size (Obj Only)	WSSS Section	Max Mark	
Yes = 1 points	No = 0 points	Yes / No	4	1.00
Yes = 1 points	No = 0 points	Yes / No	4	1.00
Yes = 1 points	No = 0 points	Yes / No	4	1.00
Yes = 1 points	No = 0 points	Yes / No	4	0.50
Yes = 1 points	No = 0 points	Yes / No	4	0.50
Fit of joint is with hand pressure			5	2.00
Fit of joint is with hand pressure			5	2.00
Fit of joint is with hand pressure			5	2.00
Fit of joint is with hand pressure			5	2.00
Fit of joint is with hand pressure			5	2.00
Fit of joint is with hand pressure			5	2.00
			5	1.50
			5	1.50

Criterion C      Total Mark      19.00

Extra Aspect Description (Obj or Subj) OR Judgement Score Description (Judg only)	Requirement or Nominal Size (Obj Only)	WSSS Section	Max Mark
		6	2.00
		6	2.00
		6	2.00
		6	2.00
		5	2.00
		5	2.00
		5	2.00
		5	2.00
		5	2.00
		5	2.00
Extra Aspect Description (Obj or Subj) OR Judgement Score Description (Judg only)	Requirement or Nominal Size (Obj Only)	WSSS Section	Max Mark
Yes = 0.5 points    No = 0 points	Yes / No	4	0.50
Yes = 0.5 points    No = 0 points	Yes / No	4	0.50
Yes = 0.5 points    No = 0 points	Yes / No	4	0.50
Yes = 0.5 points    No = 0 points	Yes / No	4	0.50
Yes = 0.5 points    No = 0 points	Yes / No	4	0.50
Yes = 0.5 points    No = 0 points	Yes / No	4	0.50
Yes = 1 points    No = 0 points	Yes / No	3	2.00
Yes = 1 points    No = 0 points	Yes / No	3	2.00
Yes = 1 points    No = 0 points	Yes / No	3	1.00

**Criterion D    Total Mark    18.00**

**Criterion E    Total Mark    16.00**

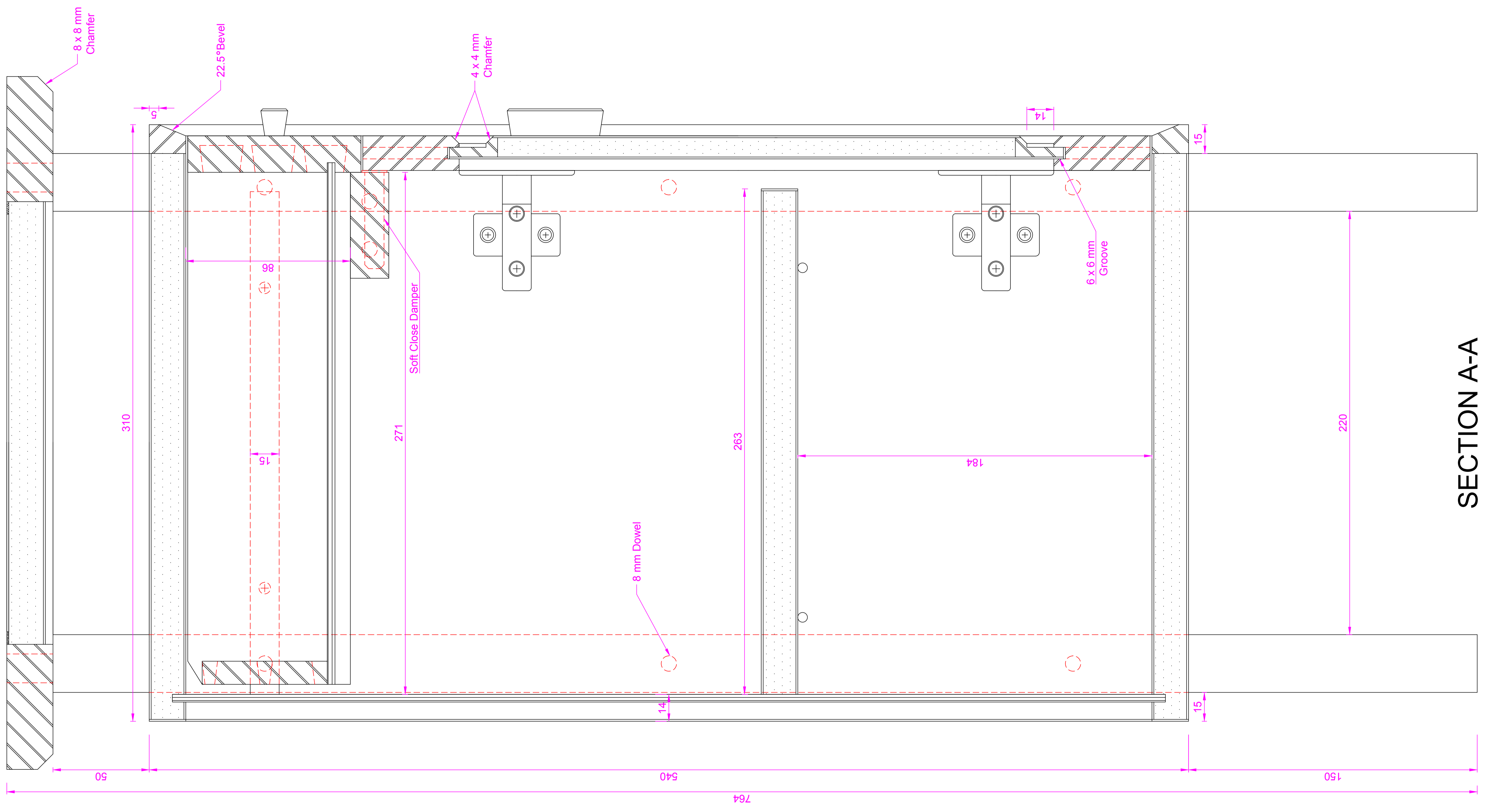
Yes = 1 points	No = 0 points	Yes / No	4	1.00
			7	1.50
			7	1.50
			7	2.00
			7	2.00
Extra Aspect Description (Obj or Subj) OR Judgement Score Description (Judg only)		Requirement or Nominal Size (Obj Only)	WSSS Section	Max Mark
Yes = 0.5 points	No = 0 points	Yes / No	7	0.50
Yes = 0.5 points	No = 0 points	Yes / No	7	0.50
Yes = 0.5 points	No = 0 points	Yes / No	7	0.50
Yes = 0.5 points	No = 0 points	Yes / No	7	0.50
Yes = 0.5 points	No = 0 points	Yes / No	7	0.50
Yes = 0.5 points	No = 0 points	Yes / No	7	0.50
Yes = 0.5 points	No = 0 points	Yes / No	7	0.50
Yes = 0.5 points	No = 0 points	Yes / No	7	0.50
Yes = 0.5 points	No = 0 points	Yes / No	7	1.00
			1	2.00
			1	2.00
			1	2.00

Criterion F      Total Mark      12.00

Extra Aspect Description (Obj or Subj) OR Judgement Score Description (Judg only)		Requirement or Nominal Size (Obj Only)	WSSS Section	Max Mark
Yes = 2 points	No = 0 points	Yes / No	1	2.00
Yes = 1 points	No = 0 points	Yes / No	1	1.00
Yes = 1 points	No = 0 points	Yes / No	1	1.00
Yes = 1 points	No = 0 points	Yes / No	1	1.00

Criterion G    Total Mark    5.00

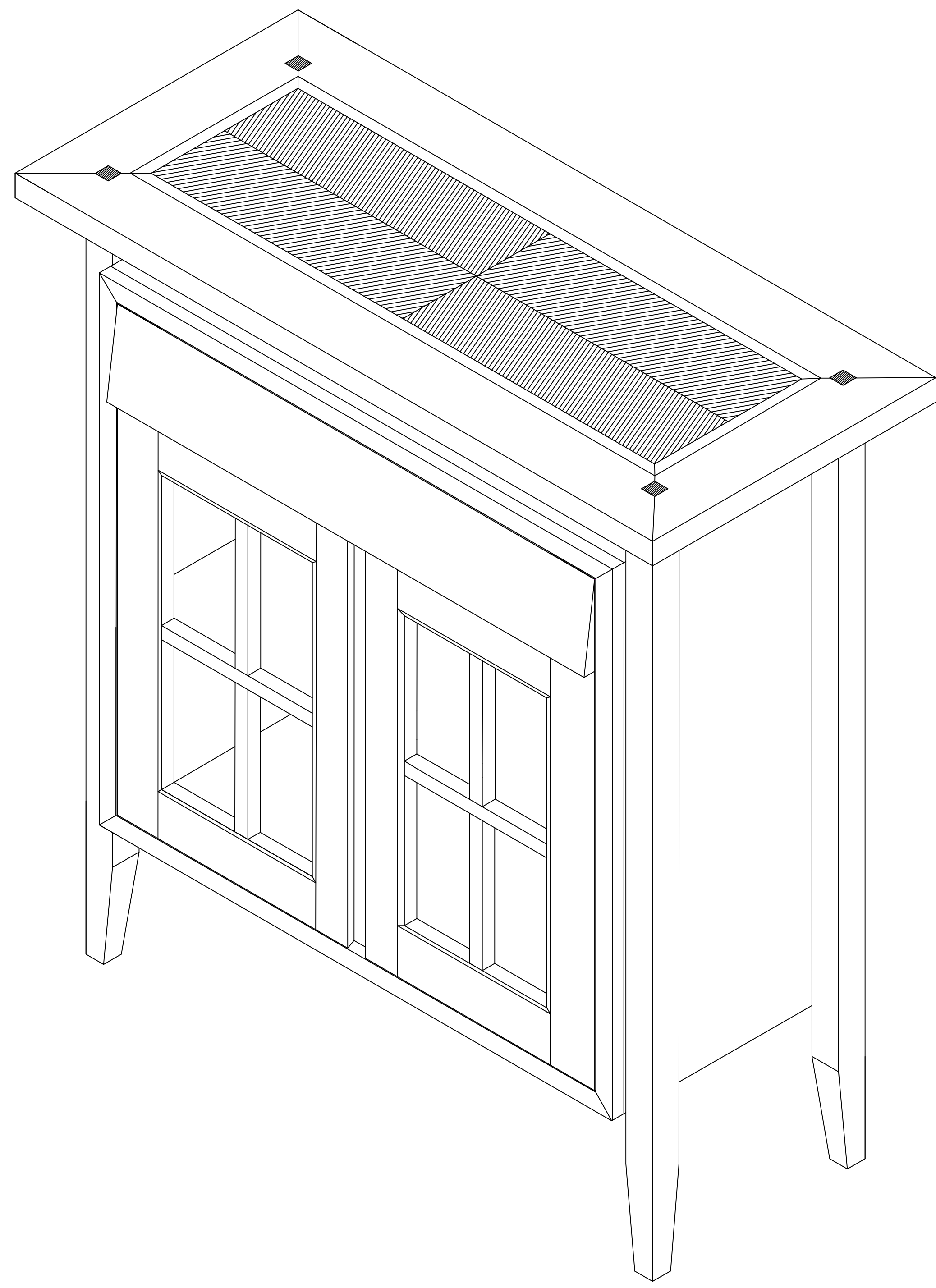
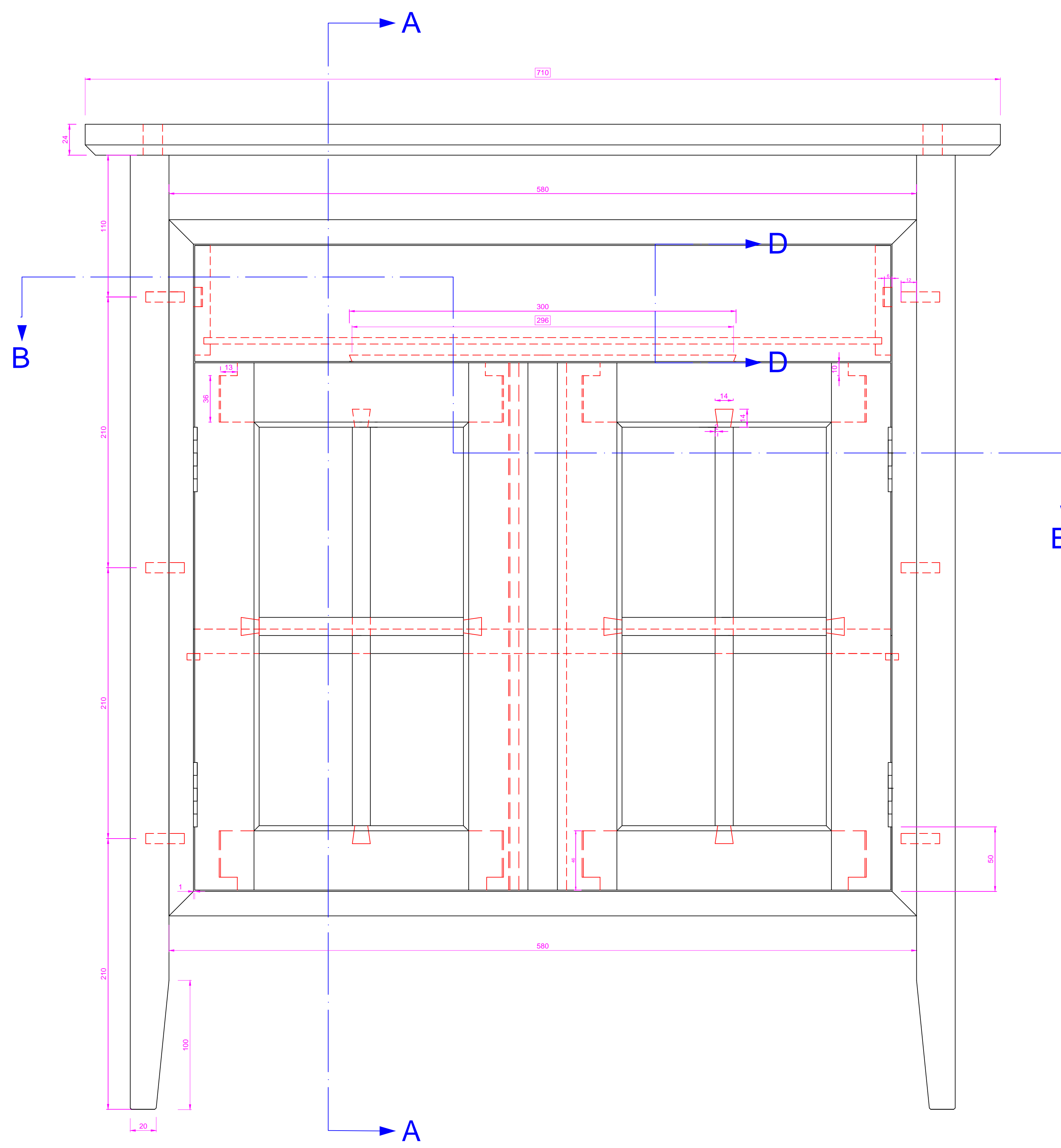
Competition    Total Mark    100.00



Test Project for the 43<sup>rd</sup> WorldSkills  
 Competition in Sao Paulo, Brazil 2015.  
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Skill: Cabinetmaking Trade No. 24		Drawing No: 2	
Scale: 1:1	Date: 24/06/13	Paper: A1	
Drawn / Design by: Declan Barrett IE		Rev: 1	Page: 1 of 2
Description: Cabinet		Appd:	Sign:

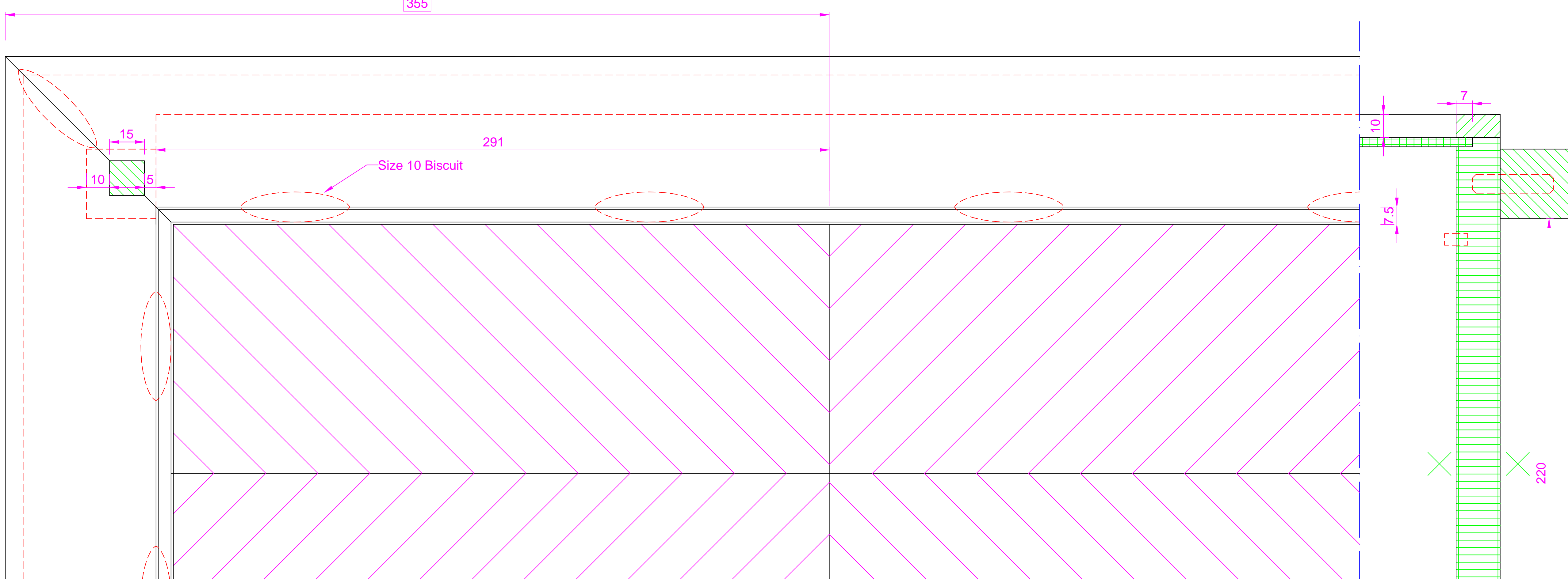


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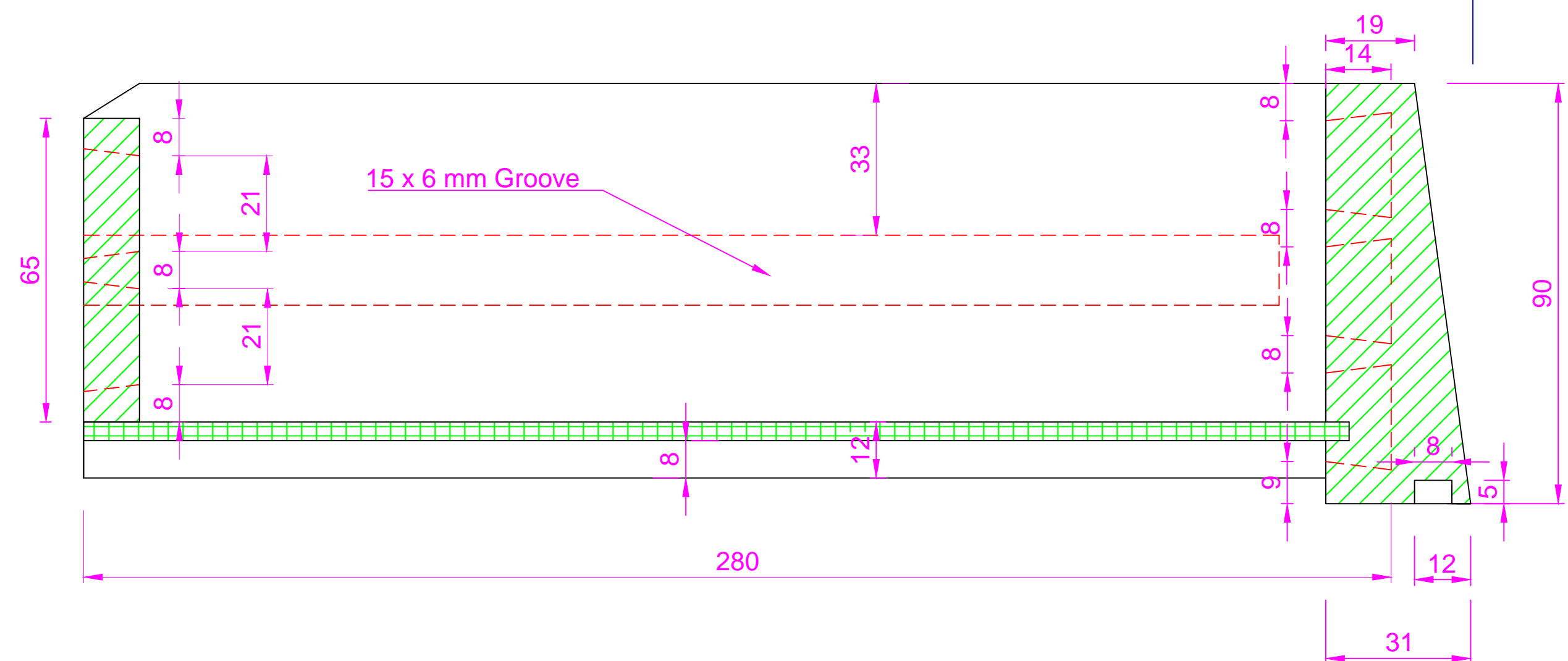
Skill: cabinetmaking trade 24	Date: 24.06.13	Paper: A1
Drawn / Design by: Declan Barrett IE	Drawing No: WSC2015_TPIE_A1_EN	
Description: Cabinet	Rev: 1	Page: 1 OF 3
	Appd: Jason AU	Sign:



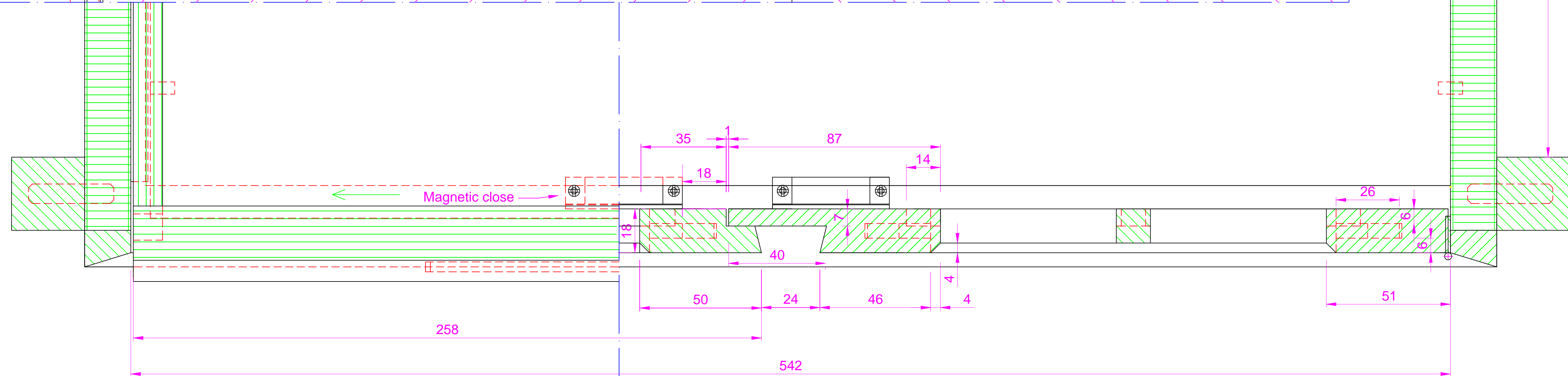
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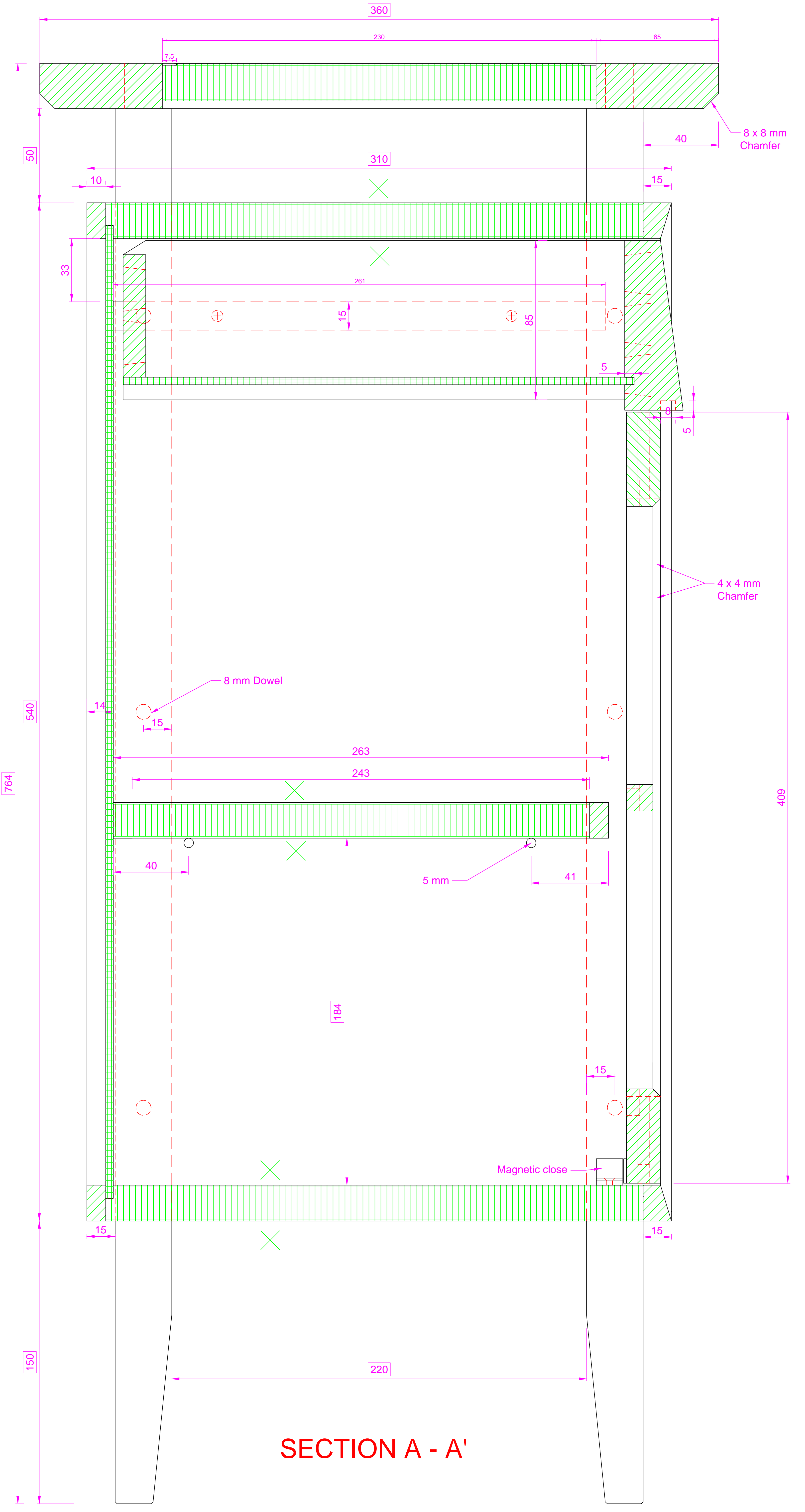


SECTION D - D'



SECTION B - B'





**SECTION A - A'**

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Skill: cabinetmaking trade 24	Date: 24.06.13	Paper: A1
Scale: 1:1	Drawn / Design by: Dejan Barret / E	Drawing No: WSC2015_TPIE_A1_EN
Description: Cabinet	Rev.: 1	Page: 3 OF 3
	Appr.: Jason AU	Sign:





# TEST PROJECT CABINETMAKING

WSC2015\_TP24\_actual

Submitted by:

Name: Declan Barrett

Member country/region: Ireland





## CONTENTS

This Test Project proposal consists of the following documentation/files:

1. WSC2015\_TP24\_IE\_EN.doc (Instructions and Materials list)
2. WSC2015\_TP24\_IE\_01\_EN.dwg (AutoCAD file of drawing 1)
3. WSC2015\_TP24\_IE\_02\_EN.dwg (AutoCAD file of drawing 2)
4. WSC2015\_TP24\_IE\_01\_EN.pdf (pdf version of drawing 01)
5. WSC2015\_TP24\_IE\_02\_EN.pdf (pdf version of drawing 02)
6. WSC2015\_TP24\_IE\_01.jpg (Image 01)
7. WSC2015\_TP24\_IE\_02.jpg (Image 02)
8. WSC2015\_TP24\_IE\_03.jpg (Image 03)

## INTRODUCTION

The Drawing represents a free standing cabinet. The unit consists of two hinged doors and a drawer.

## INSTRUCTIONS TO THE COMPETITOR

The cabinet is to be constructed with the aid of machinery except for dovetails which must be cut by hand.

The unit consists of a carcass which is mitred on all corners these corners will be jointed with biscuit joints the quantity and position of the biscuits will be your own judgement.

The carcass has a shelf which is supported on shelf supports.

The carcass is supported on four legs which are shaped and are connected to the carcass with dowels. (Leg sections are 30 x 30 mm square, an off cut is glued to the bottom of the leg to allow for shaping).

The top of the unit is a veneered panel with a solid wood edge this solid wood edge is mitred on the corners and is biscuit jointed to the panel.

The legs and top are jointed using mortise and tennon joinery.

The unit has a drawer made with traditional construction.

The cabinet door is made with bridle joints on the top and mitred bridle joints on the bottom corners of the cabinet, it has a raised panel and is hung using inset cabinet blum hinges.

The work should be carried out in a safe manner and should not exceed the maximum working time of 22 hours.



## LIST OF MATERIALS REQUIRED

QTY	COMPONENT	LENGTH	WIDTH	THICKNESS	MATERIAL
Leg Frame					
4	Legs	920	30	30	Walnut
Carcass					
2	Gables	560	295	18	Maple MDF
2	Top and Bottom	600	295	18	Maple MDF
1	Shelf	580	260	18	Maple MDF
1	Rail	580	55	20	Maple MDF
1	Back	540	580	4	Birch Plywood
2	Lippings	560	19.5	15	Maple
2	Lippings	600	19.5	15	Maple
Top					
2	Sides	400	65	20	Walnut
2	Front and Back Rails	740	65	20	Walnut
1	Top	580	230	18	MDF
4	Veneers	290	120	1	Maple
1	Veneer	590	240	1	Maple
1	Banding	1700	6	1.5	Walnut
Drawer					
1	Front	580	90	19	Maple
2	Sides	290	90	12	Maple
1	Back	580	65	12	Maple
1	Base	580	285	4	Birch Ply

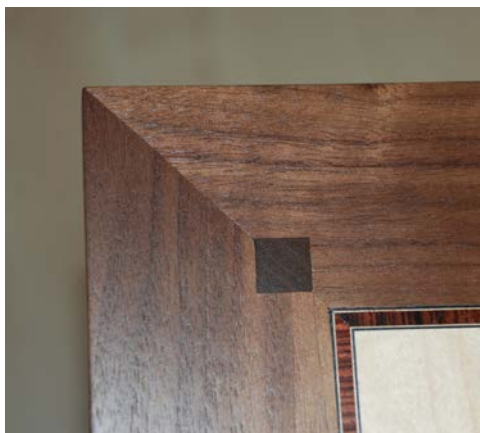


QTY	COMPONENT	LENGTH	WIDTH	THICKNESS	MATERIAL
Doors					
4	Stiles	450	50	18	Maple
4	Top and Bottom Rails	300	50	18	Maple
2	Panels	269*	130*	12	MDF
4	Lippings	400	25	12	Maple
4	Veneers	330	190	1	Maple
Additional Materials					
4	Hinges	Hafele Cat. No. 322.15.542 (Plates) Cat. No. 322.85.750			
12	Dowels	30 x 8mm			
24	Biscuits	Size 10			
2	Soft Close Dampers	Hafele Cat. No. 356.33.509			
3	Handles				
16	Screws for Hinges	3.5 x 15			
4	Shelf supports	5mm Diameter			

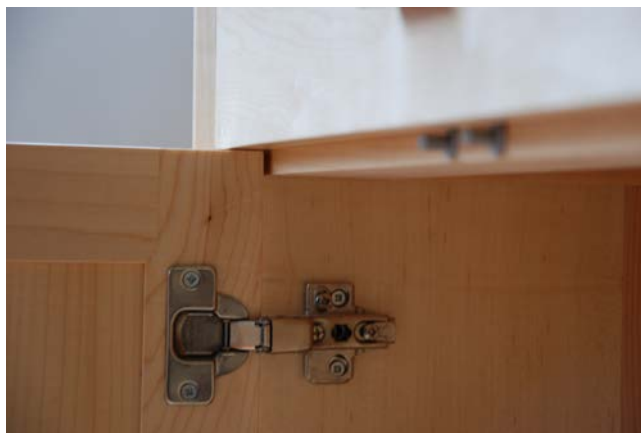
## CABINET DETAILS



Finished cabinet



Leg to top detail



Hinge detail

## MARKING SCHEME

### MAIN DIMENSIONS

Top Length	2
Top Depth	2
Unit Height	4
Carcass Width	2

### SECONDARY DIMENSIONS

Drawer Depth	2
Carcass Height	2
Distance between Top and carcass	2
Shelf Height	2

### FACE MARKING AND SETTING OUT

Doors	3
Drawer	3

### JOINTS BEFORE GLUING

Doors	8
Drawer	4
Leg and Top Joints	4



Carcass	2
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### JOINTS AFTER GLUING

Doors	8
Drawer	4
Leg and Top Joints	4
Carcass	2

### FITTINGS AND MOVEABLE PARTS

Doors hinge fit and function	4
Handles	1
Drawer fit and function	4
Soft Close Damper	1

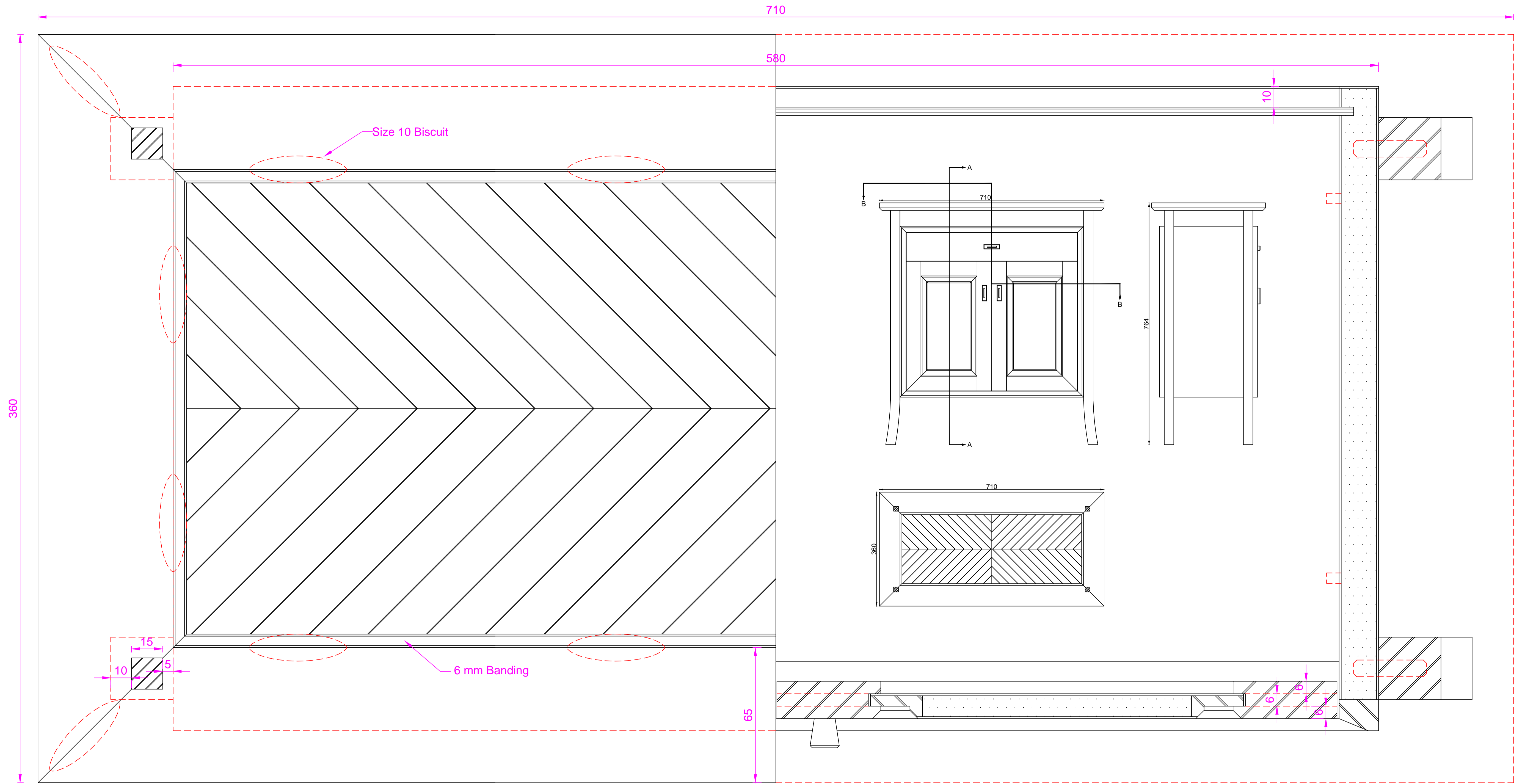
### SURFACES AND CONFORMING TO DRAWING

Solid wood finish	6
Veneer finish	6
Excess glue removed	1
Veneer Pattern	4
Conforming to drawing	4
Shaping of legs	2
Fitting of Banding	2

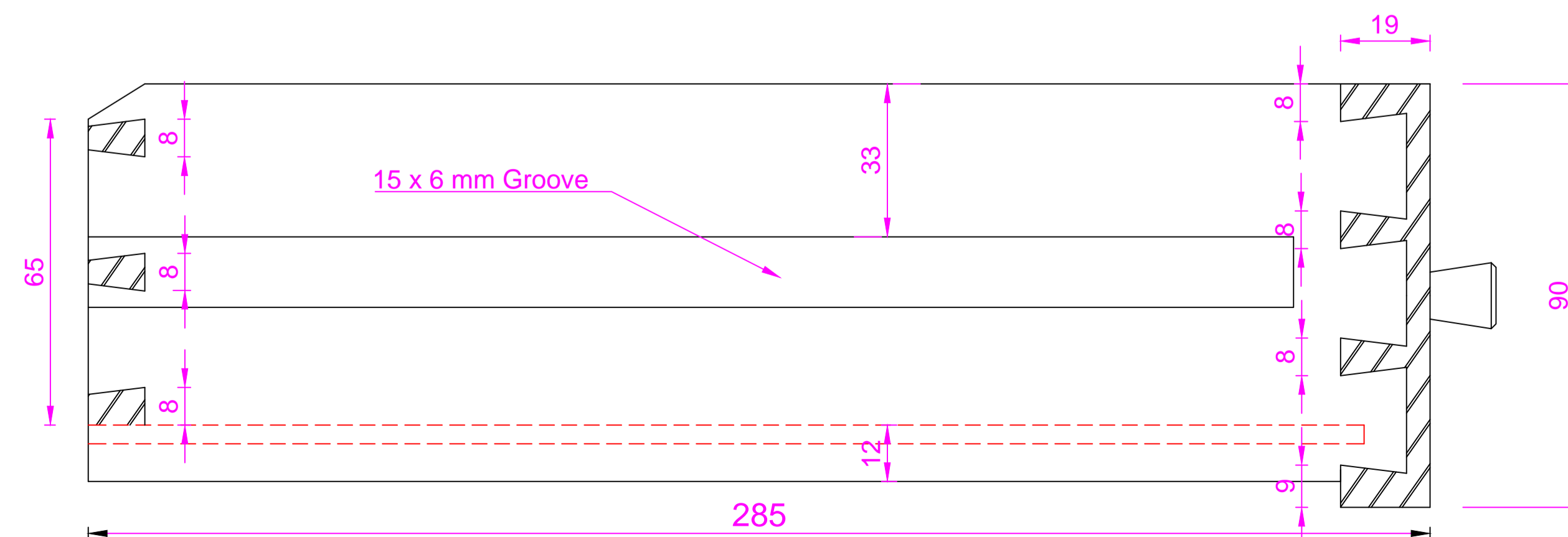
### USE OF MATERIAL

Use of Material	5
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### TOTAL 100



SECTION B-B



DRAWER DETAIL

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Skill: Cabinetmaking Trade No. 24		Drawing No: 1	
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Description: Cabinet		Appd:	Sign: