

Unit 212 – Produce Setting Out Details for Bench Joinery Products

Unit 213 – Mark out from Setting Out Details for Bench Joinery Products

Unit 214 – Manufacture Bench Joinery Products

Technical Specifications

Task 1: Interpret Information and Set Out for a Half-Glazed Door

Task 1: Mark Out Half-Glazed Door

Task 1: Manufacture Bench Joinery Products



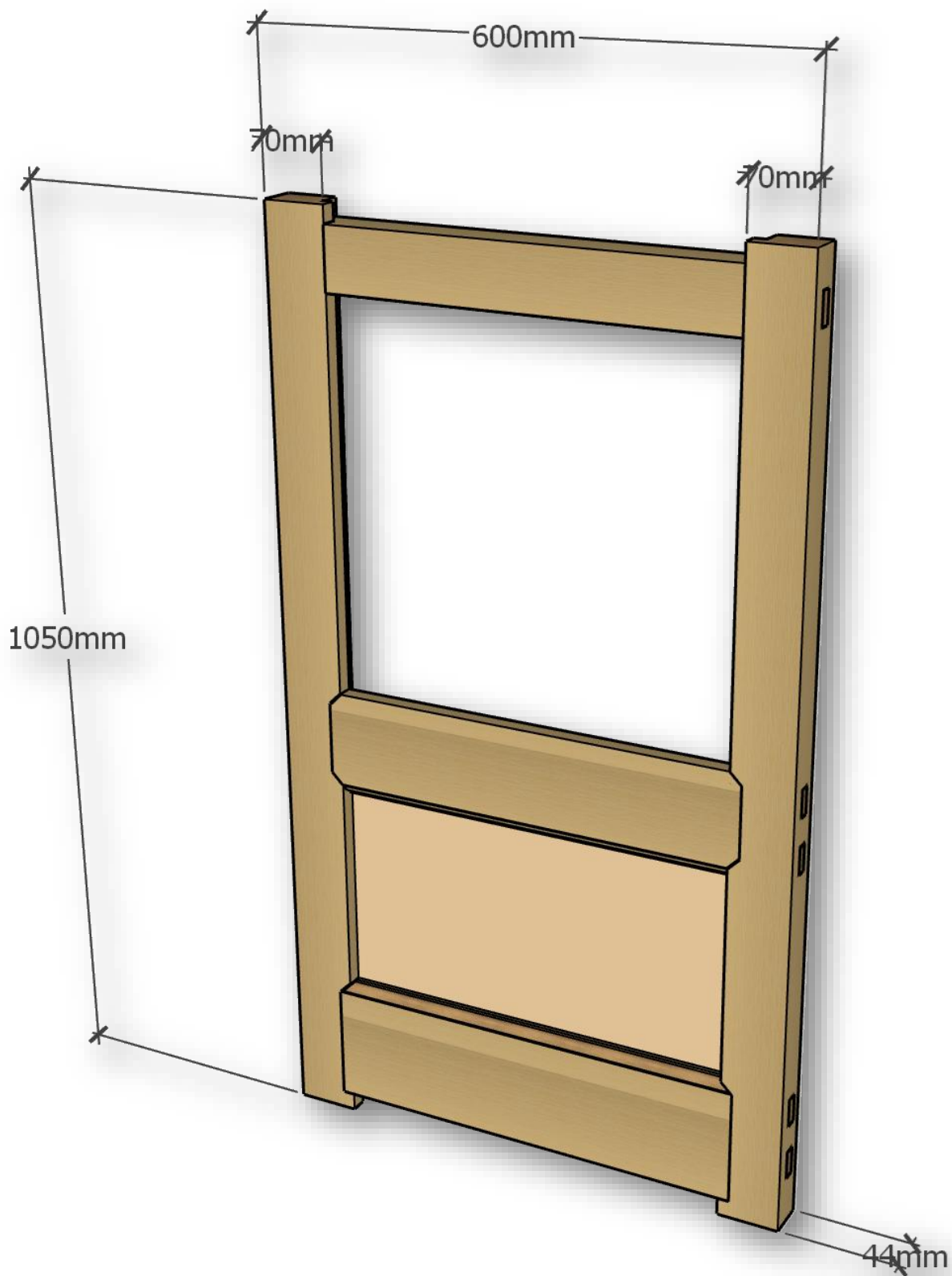
Traditional Glazed Door.



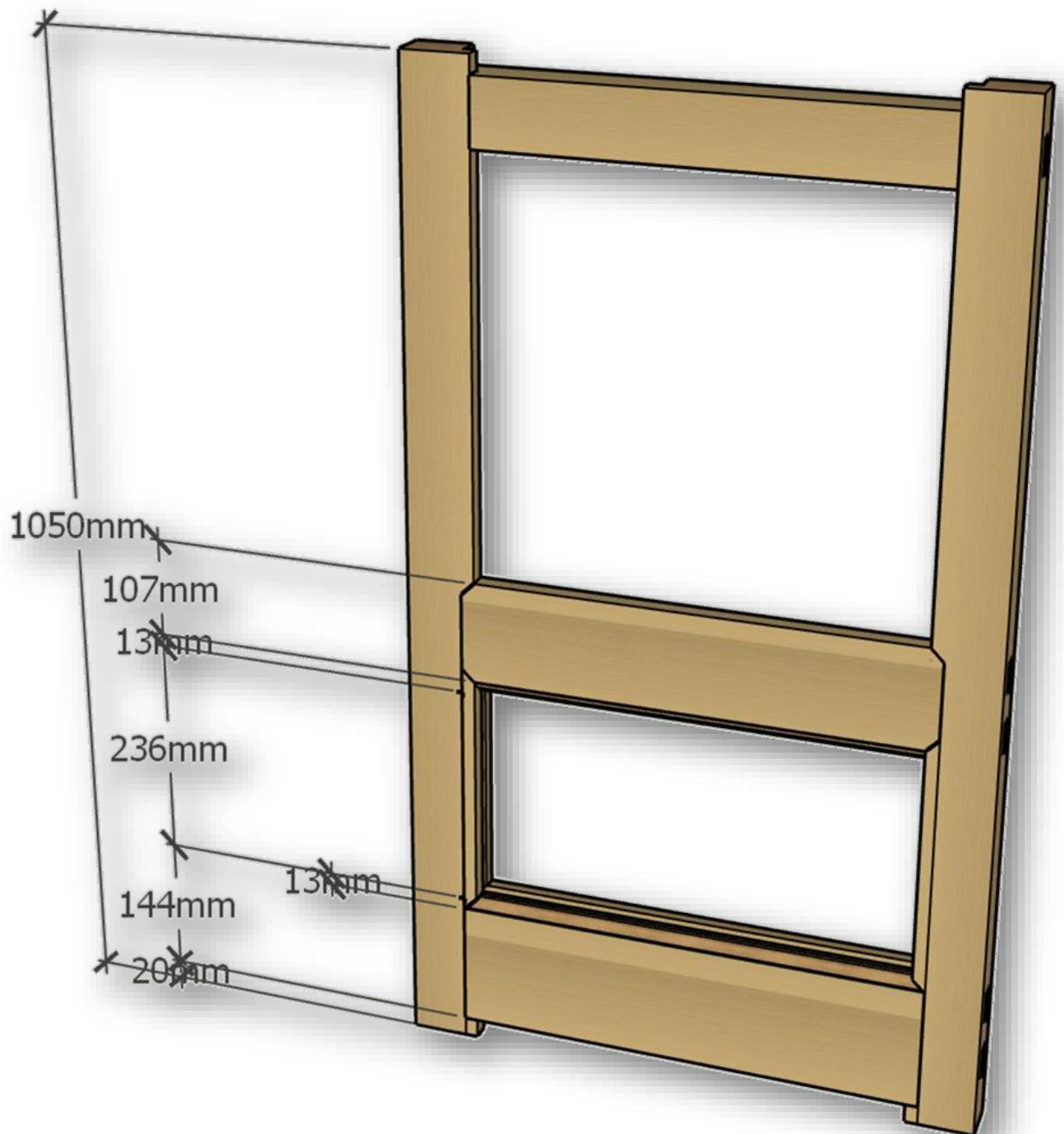
A traditional glazed door frame is a timber structure designed to hold glass panels securely while maintaining strength and elegance. Originating in Georgian and Victorian architecture, this design allowed natural light to flow between rooms while preserving privacy and craftsmanship. The frame consists of vertical stiles and horizontal rails, including a central lock rail that adds rigidity and provides a mounting point for hardware. Its construction relies on mortise and tenon joints—precise, interlocking connections that resist twisting and racking—often reinforced with glue or clamps for durability.

Typically made from hardwoods like oak or ash for longevity or softwoods like pine for ease of machining, these frames are finished with varnish, lacquer, or paint to protect the timber and enhance its appearance. Toughened or laminated glass is fitted into rebated sections or held by glazing beads, completing a design that blends structural integrity with visual refinement. This method of joinery remains a benchmark of traditional woodworking, valued for its balance of practicality, craftsmanship, and timeless appeal.

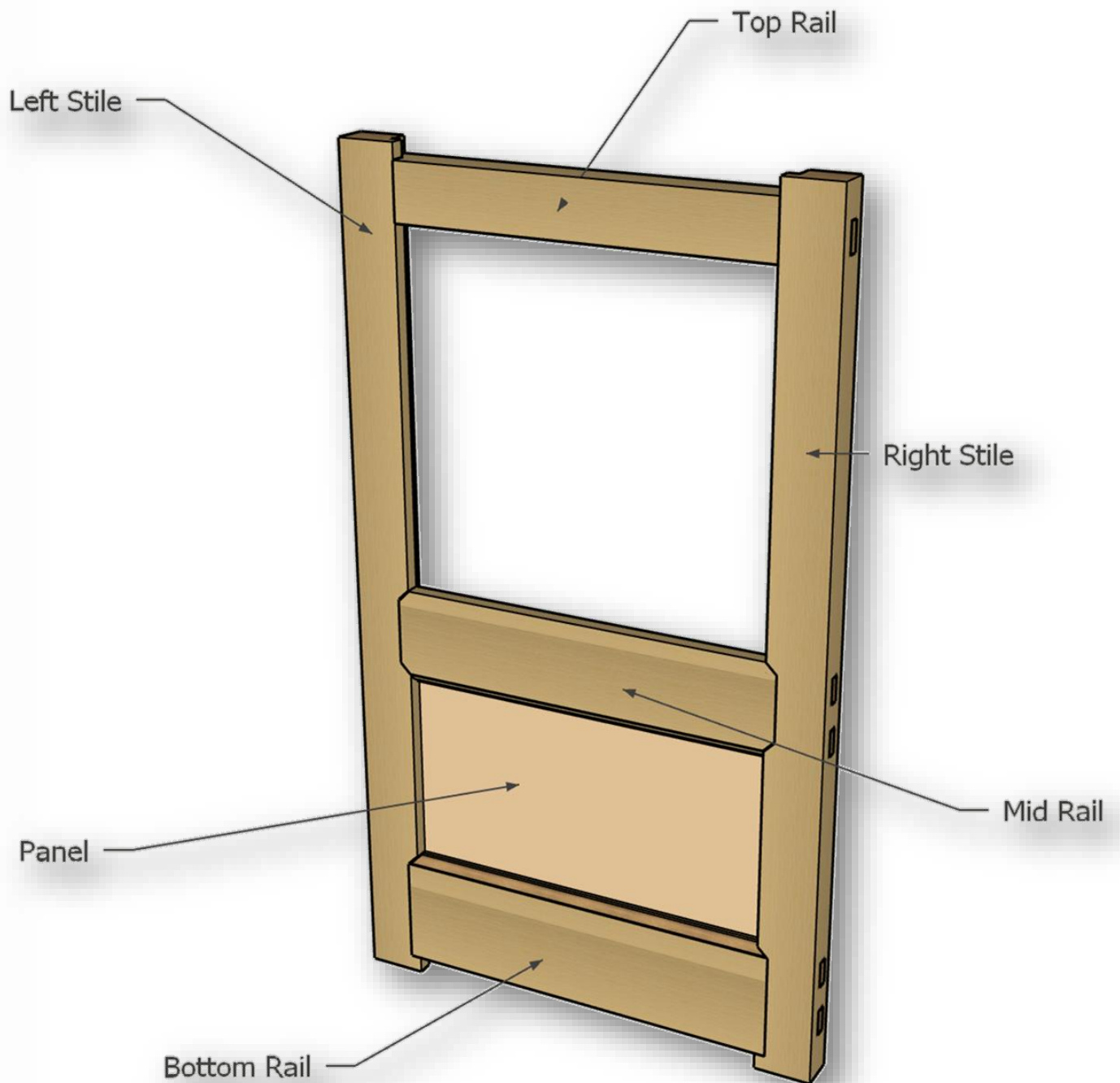
Overall Dimensions.



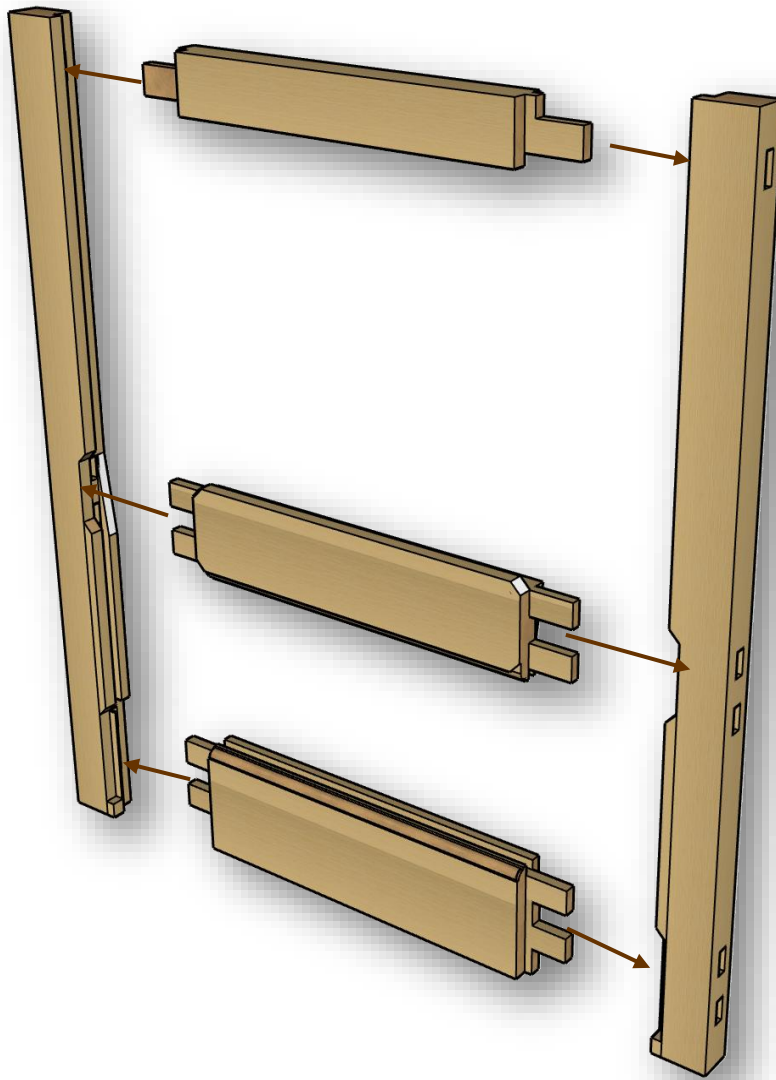
Overall Dimensions.



Parts.



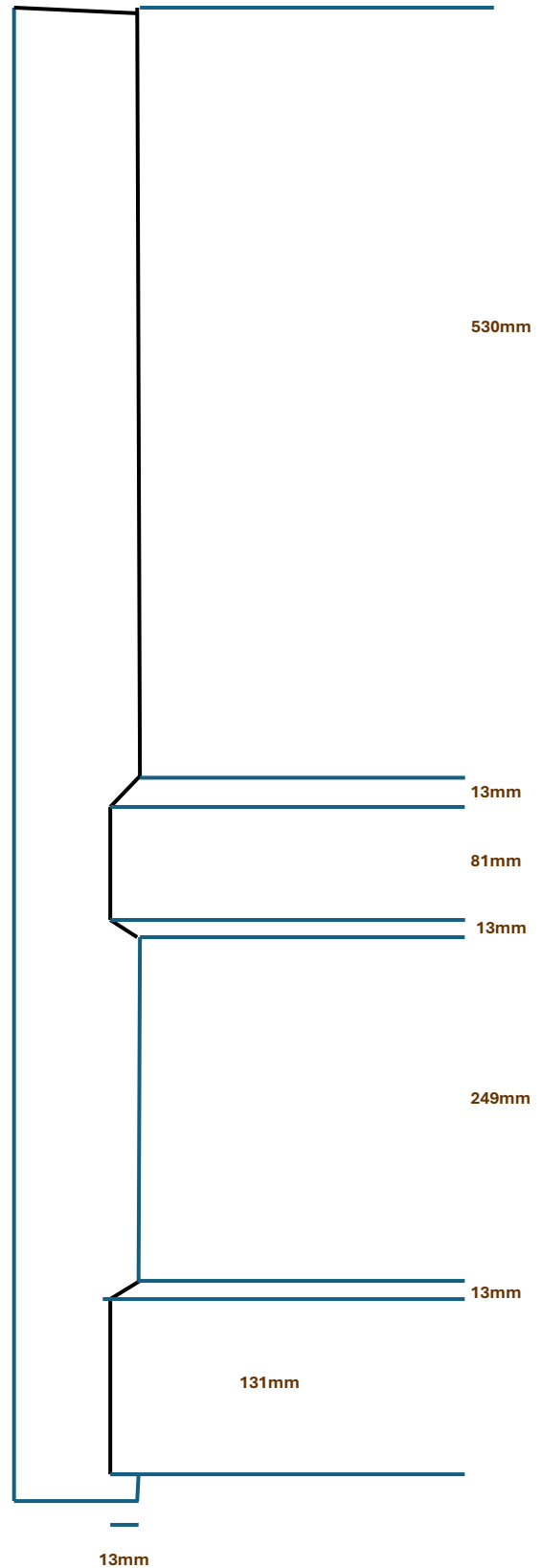
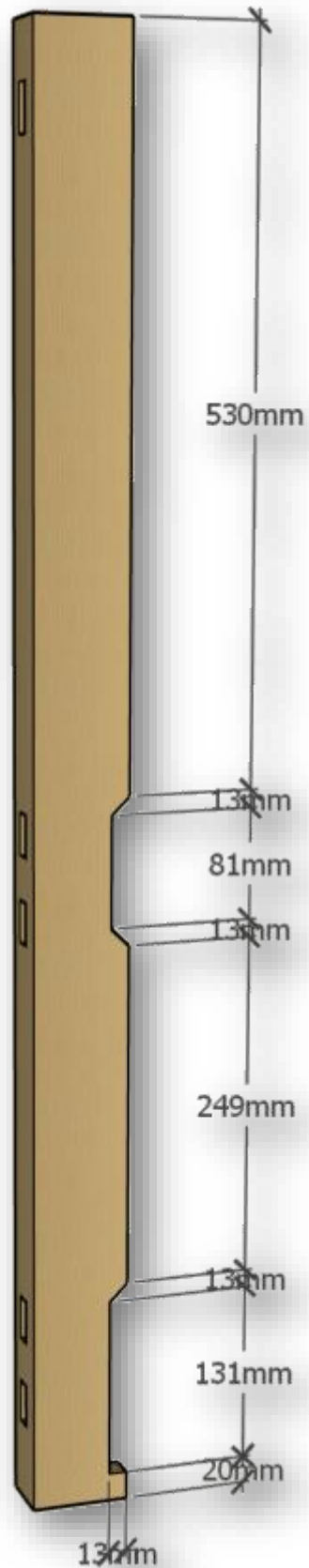
Exploded View.



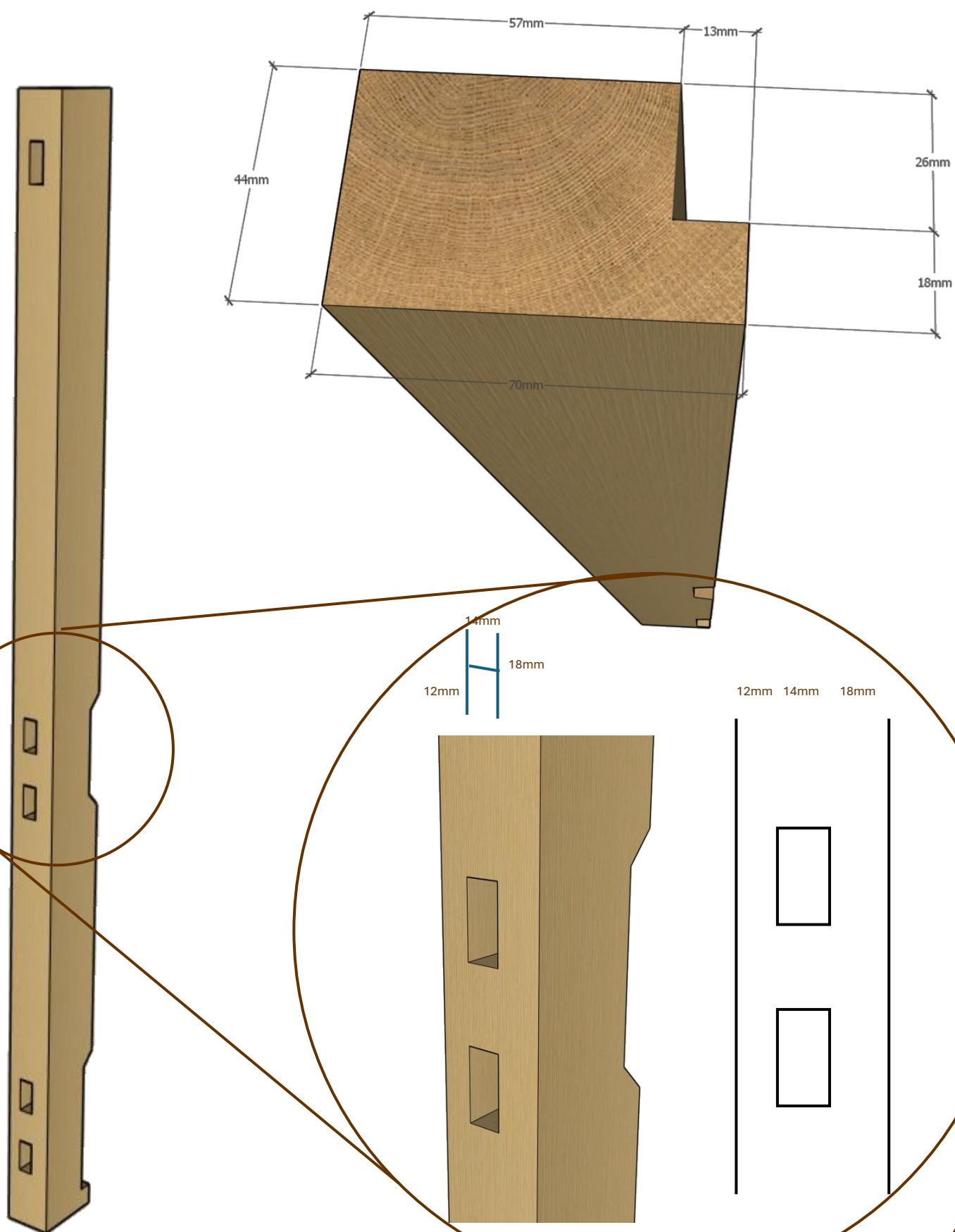
Cutting List.

Component	Length	Width	Thick	Qty
Stiles	1050	70	44	2
Top Rail	600	70	44	1
Mid Rail	600	120	44	1
Bottom Rail	600	144	44	1
Bottom Panel	486	262	12	1

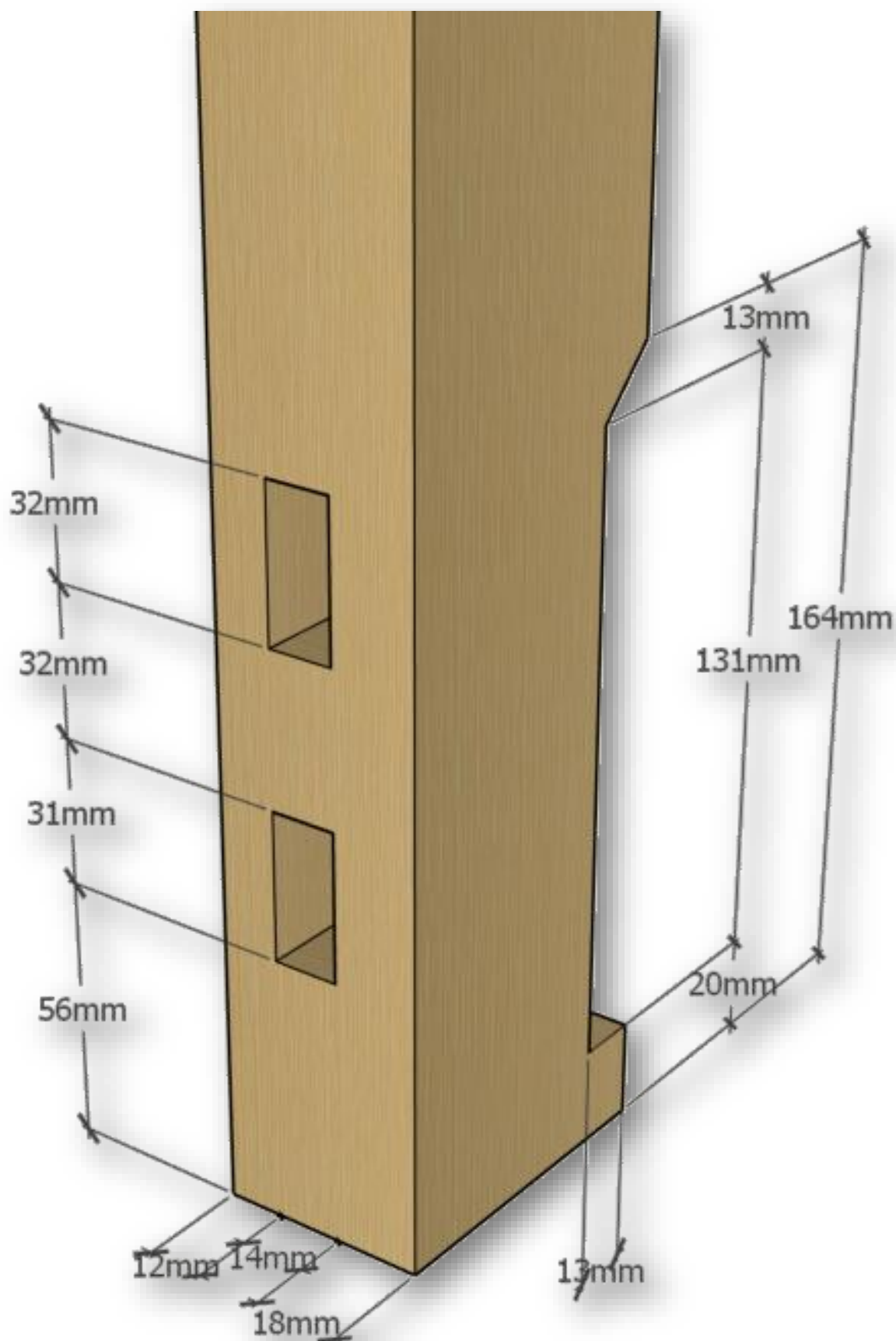
Left Stile.



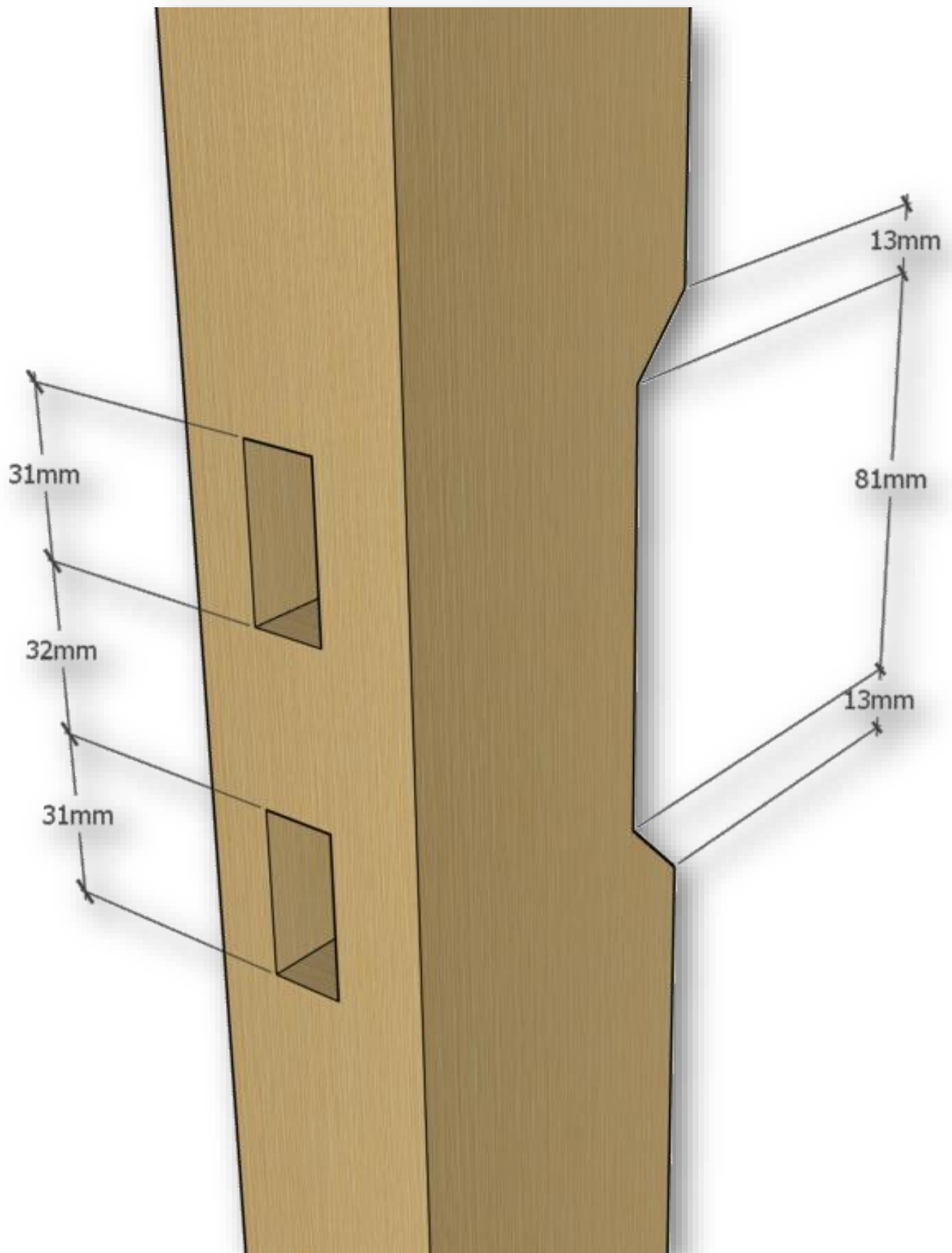
Left Stile.



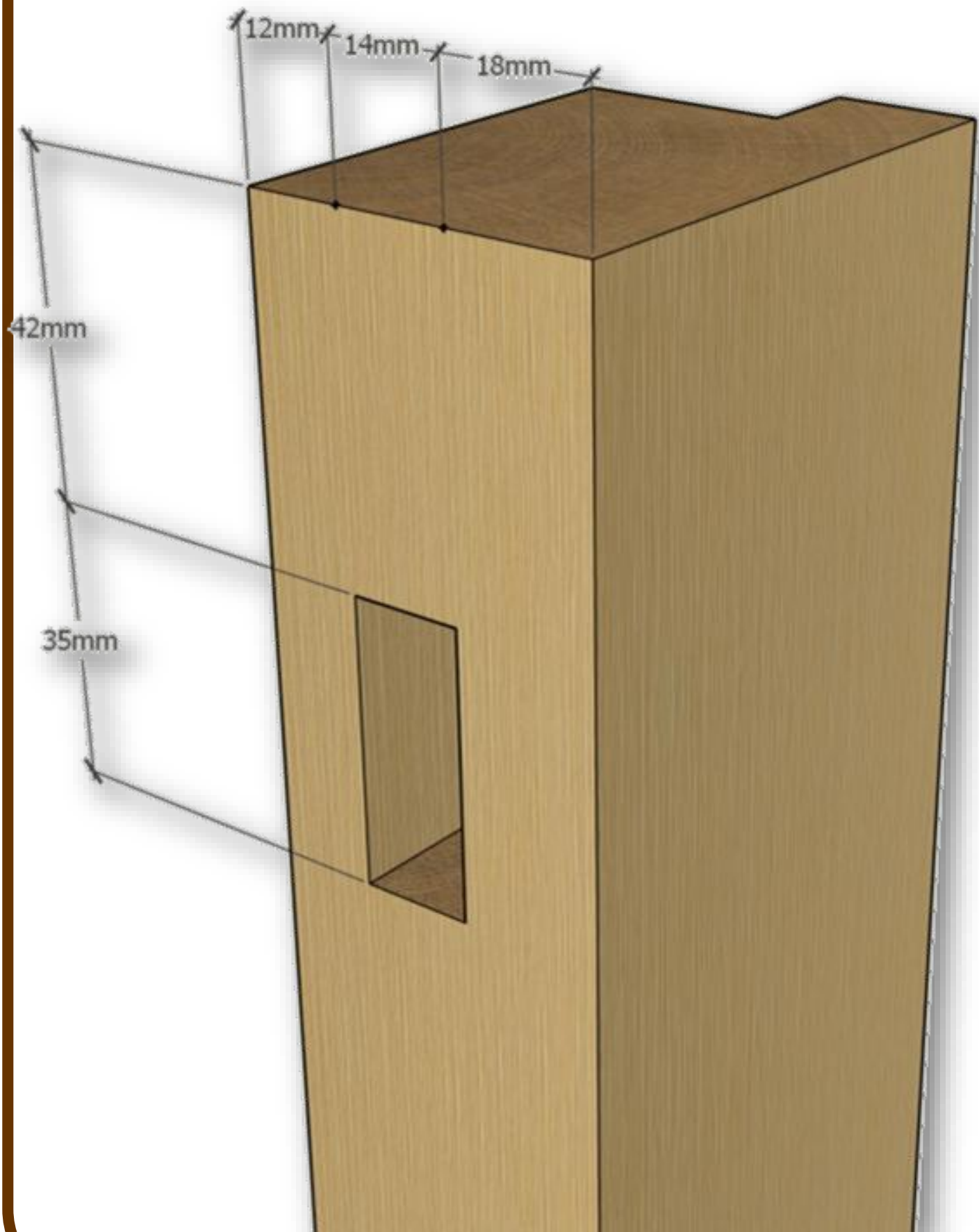
Left Stile – Bottom Joint.



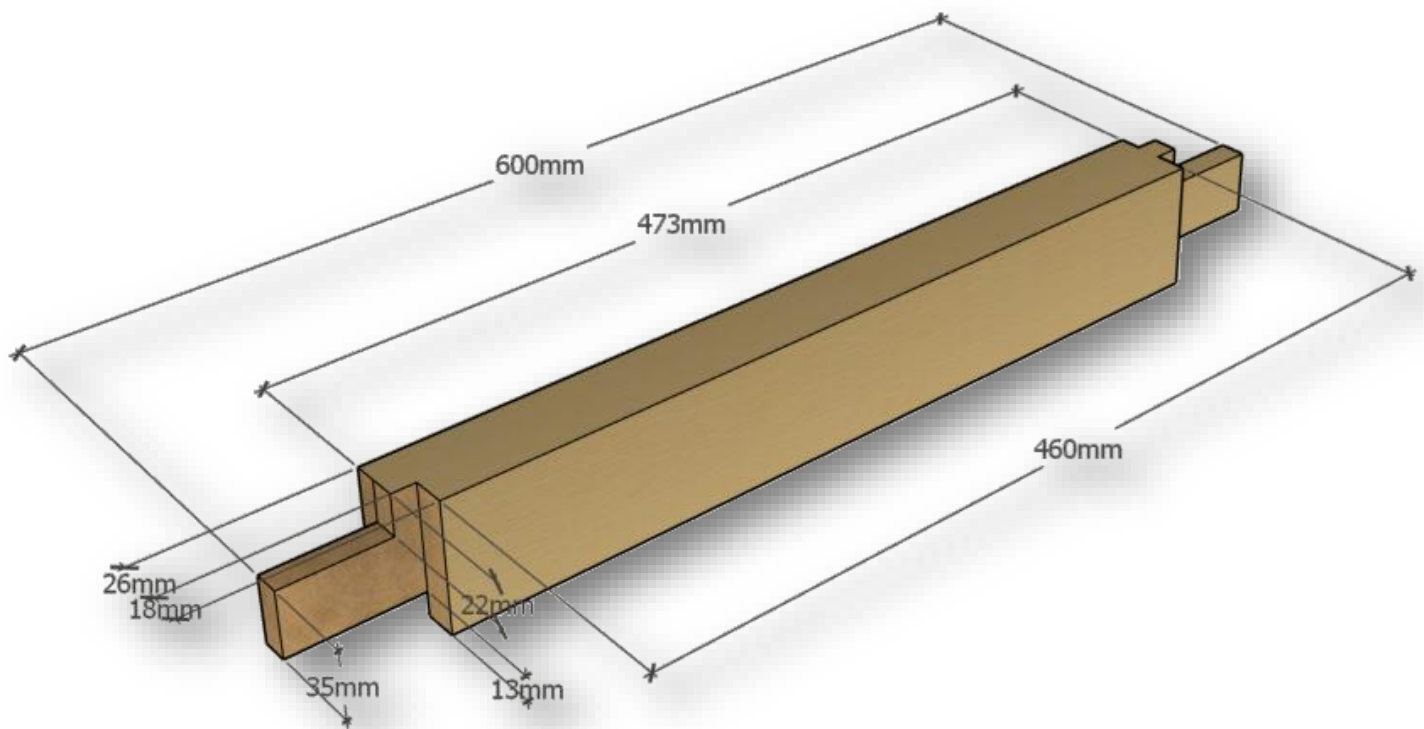
Left Stile – Mid Joint.



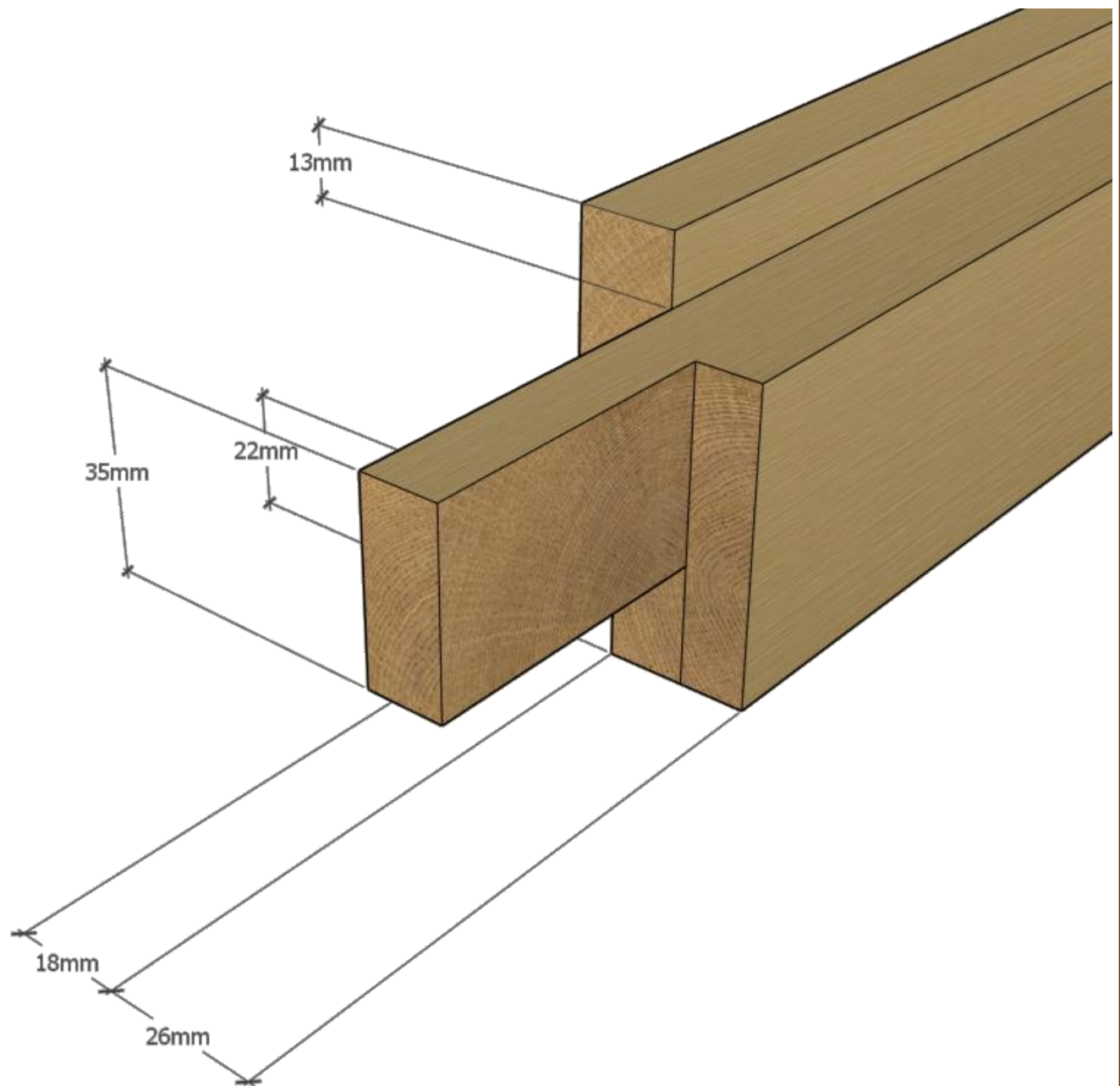
Left Stile – Top Joint.



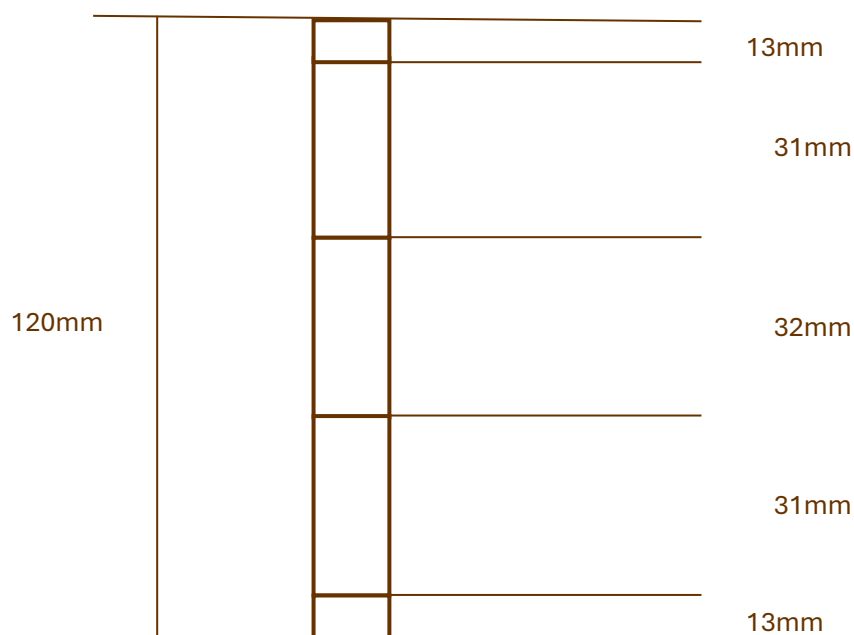
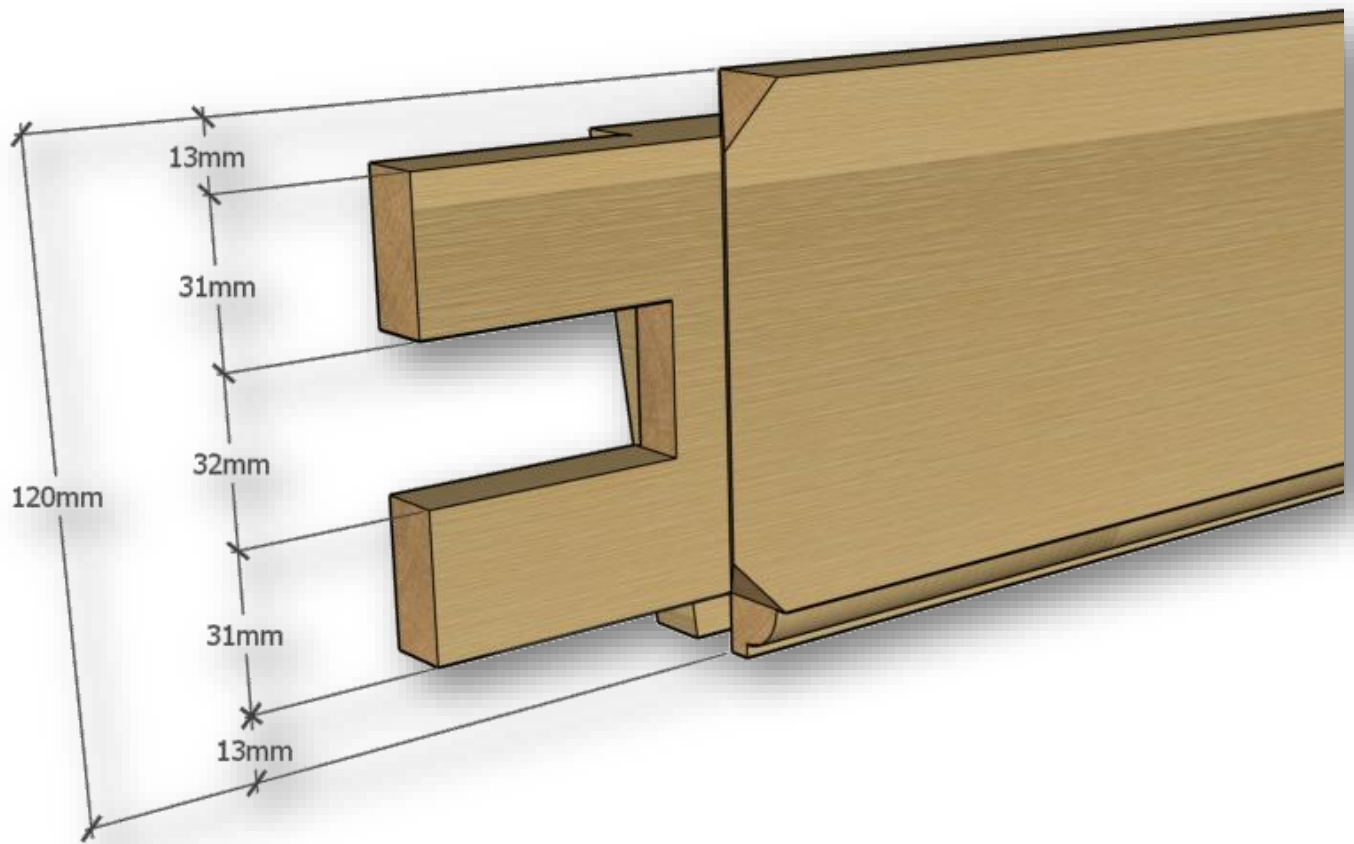
Top Rail – Overall Dimensions.



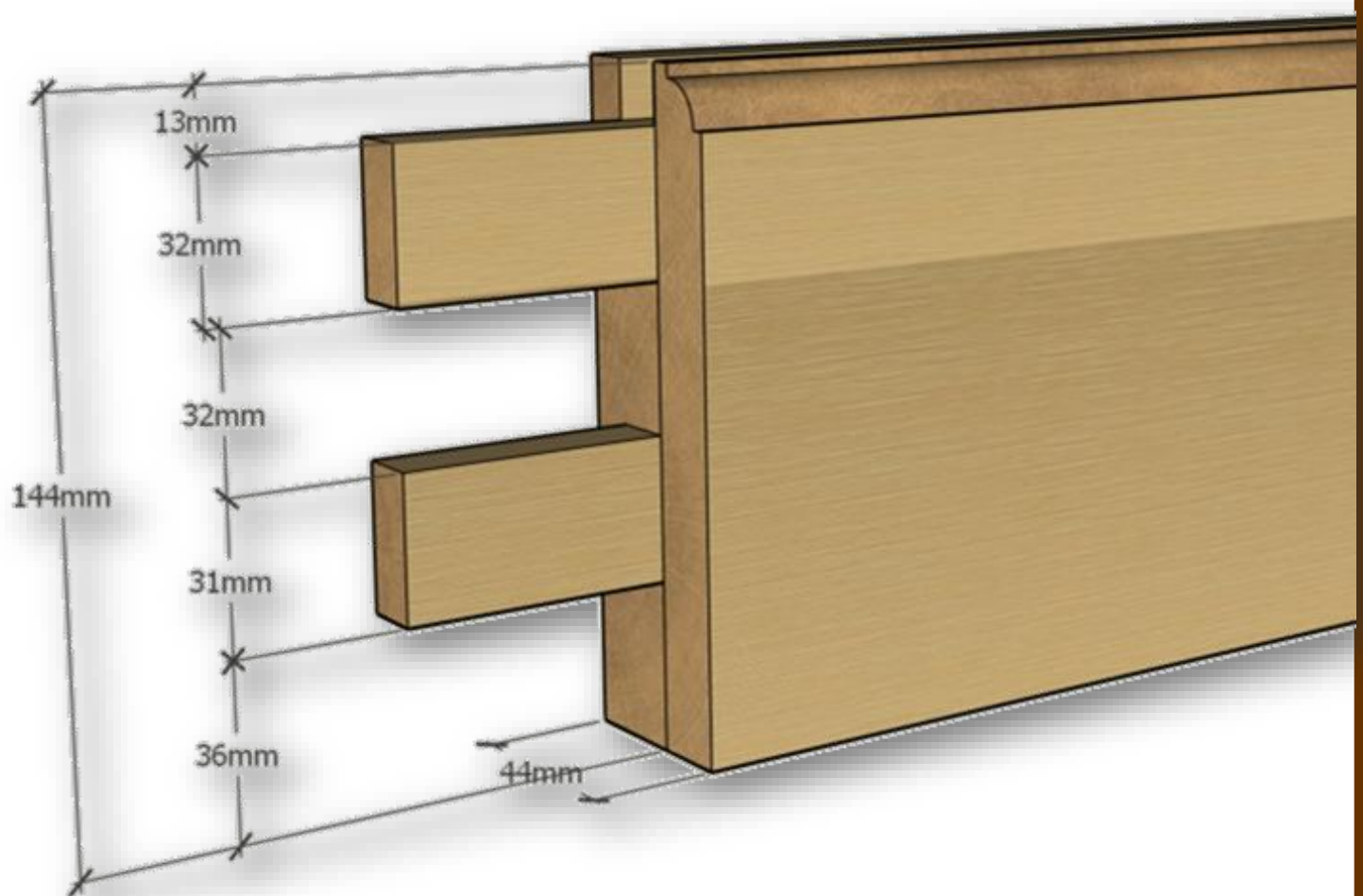
Top Rail – Rebated Tenon Joint.



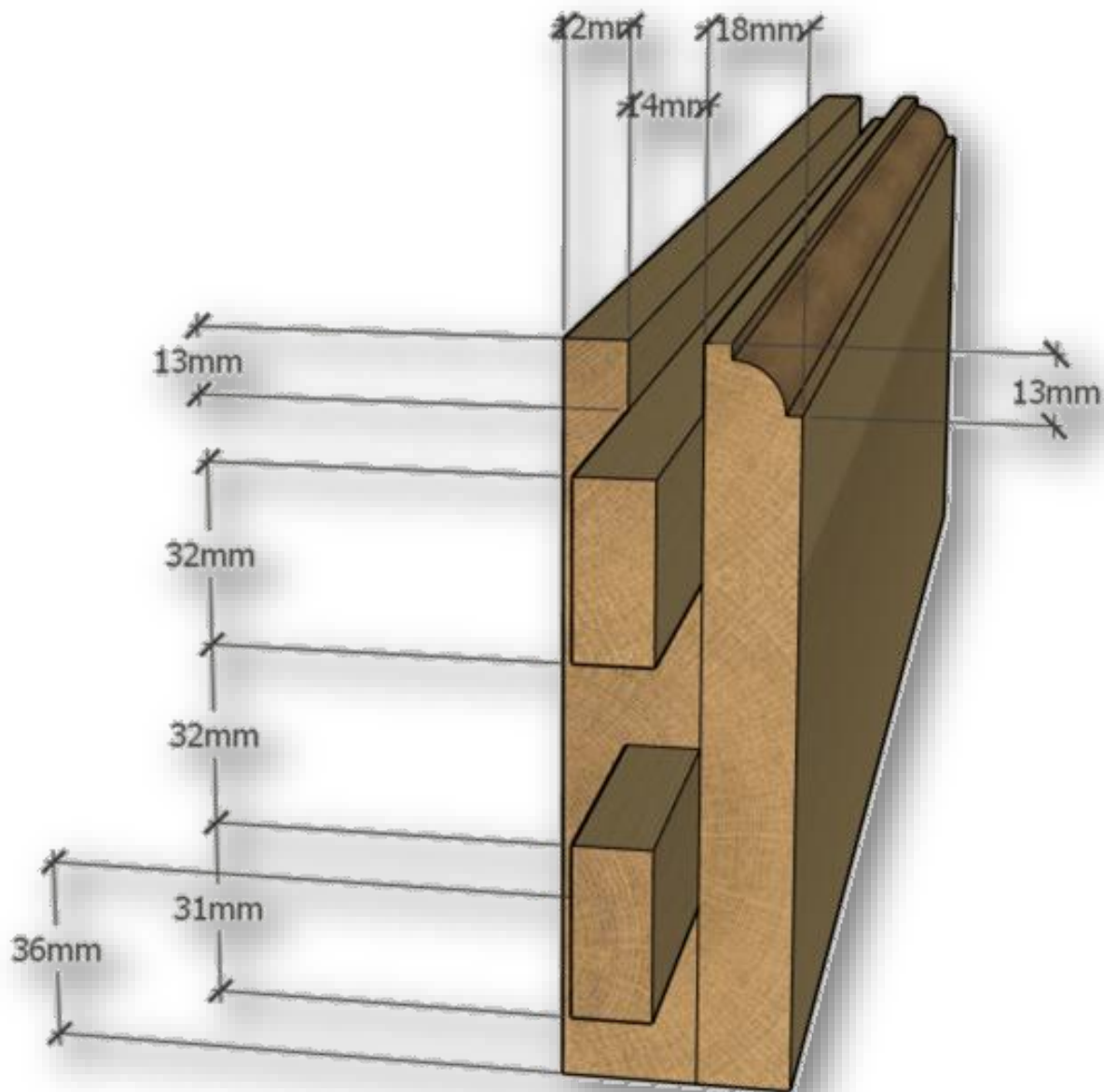
Mid Rail – Twin Tenon Joint.



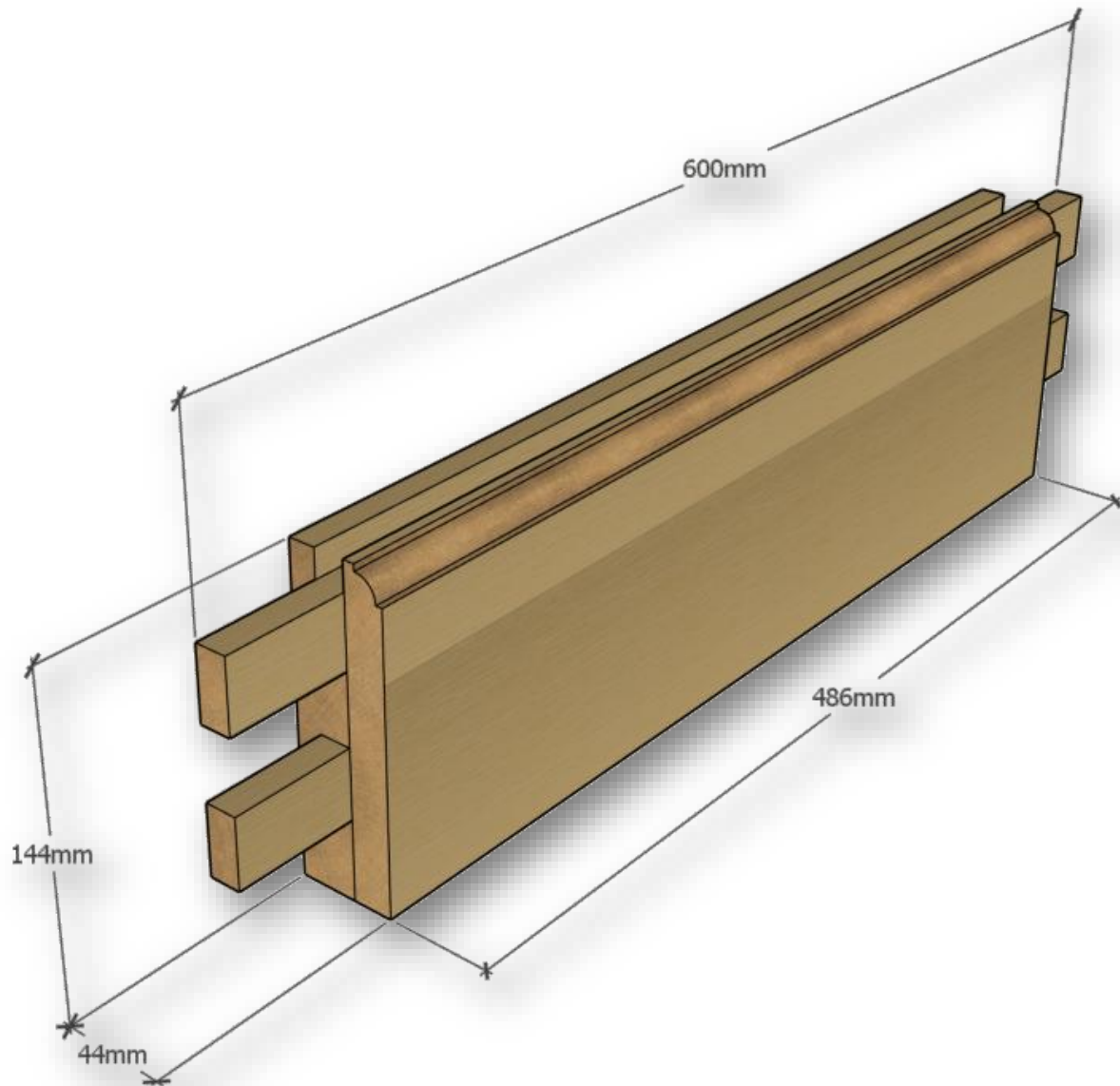
Bottom Rail – Twin Tenon Joint.



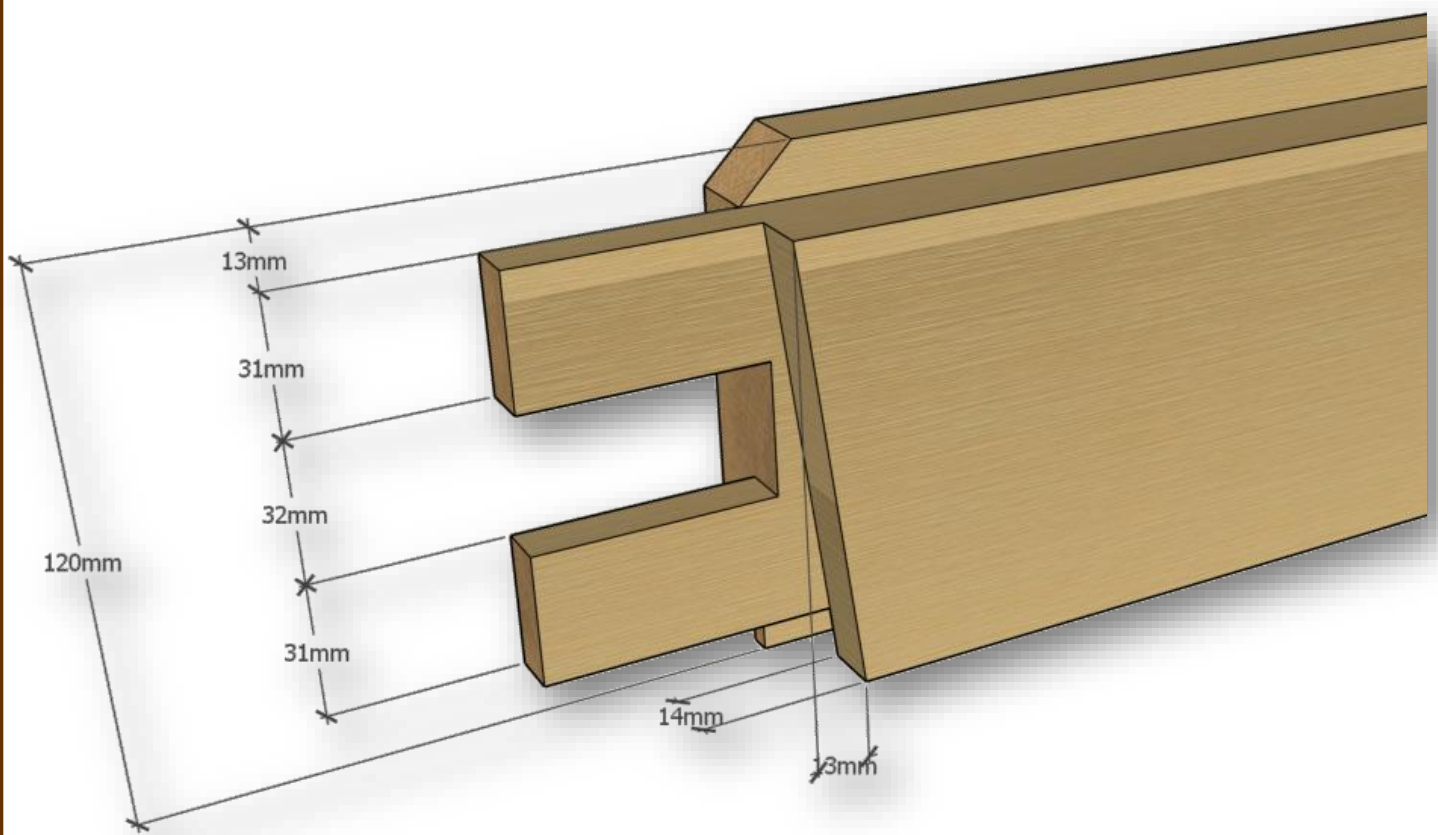
Bottom Rail – Twin Tenon Joint.



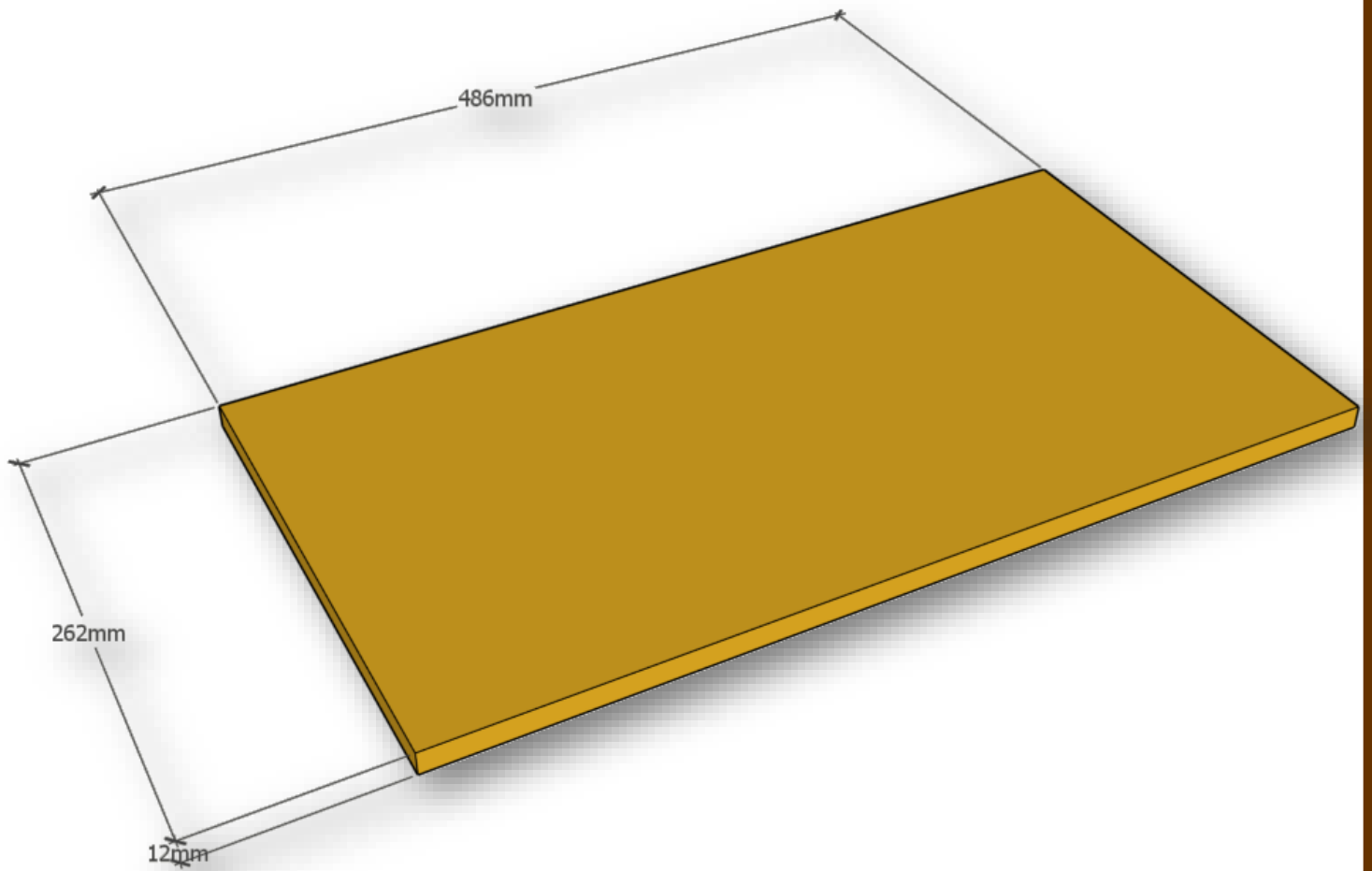
Bottom Rail Overall Dimensions.



Bottom Rail Overall Dimensions.



Panel Overall Dimensions.



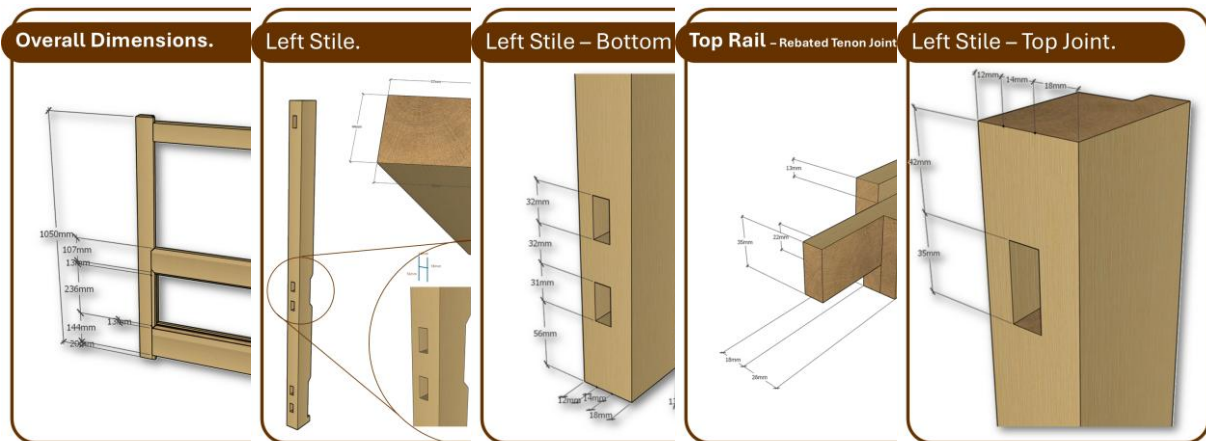
Right Stile.

Simply Mirror the left Stile.

212 Task 1:

Interpret Information and set out for a half-glazed door.

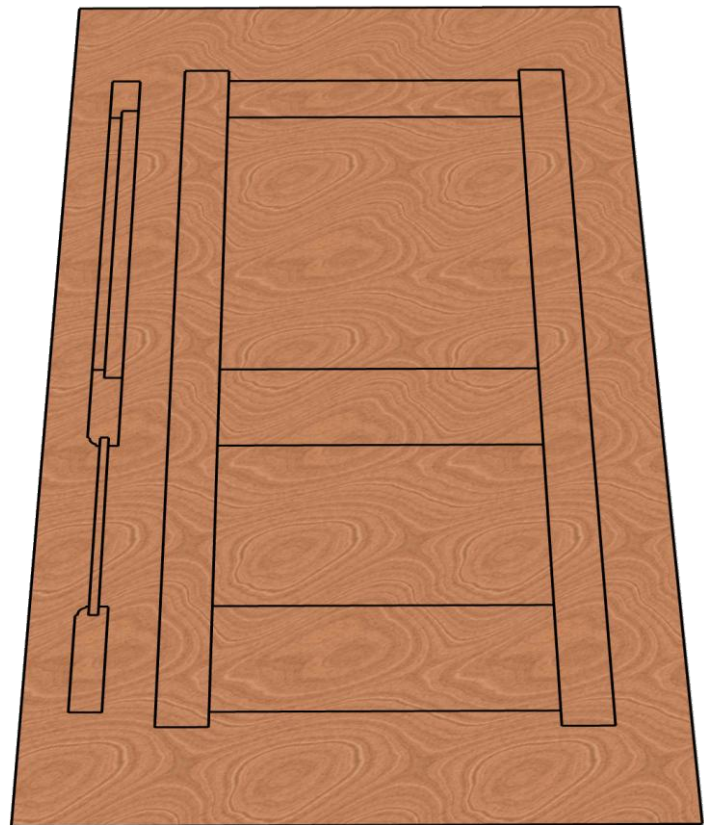
Read the drawings carefully, make sure you understand them and are sure of all measurements.



Solidify your knowledge and understanding by creating a Rod.

Use a board big enough to draw out the rod 1:1 (Full Size)

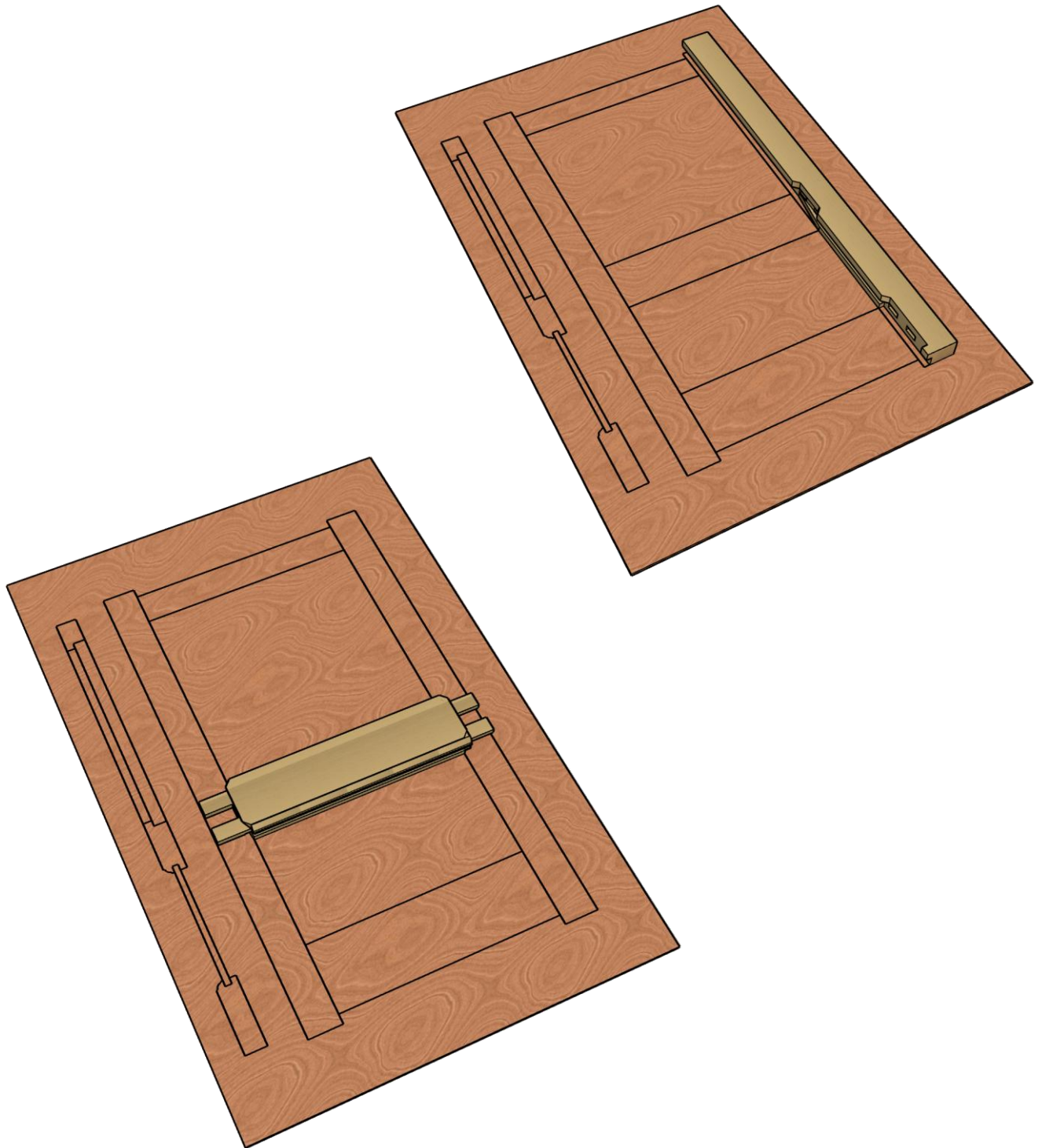
Make sure to mark out joint details and include all dimensions.



213 Task 1:

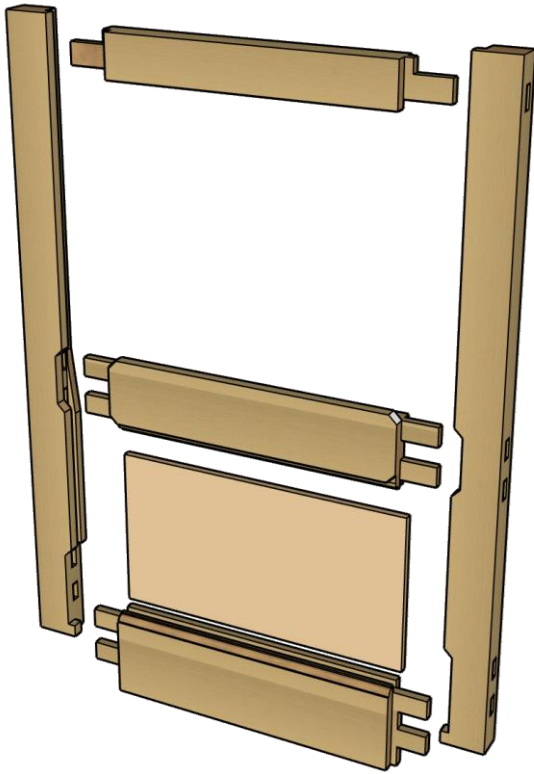
Mark Out for Half Glazed Door.

Mark out as accurately as possible from your rod. Place the component on your rod and mark for joints.



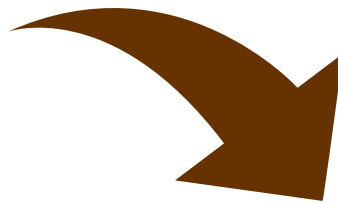
214 Task 1:

Manufacture and Assemble a Half Glazed Door.

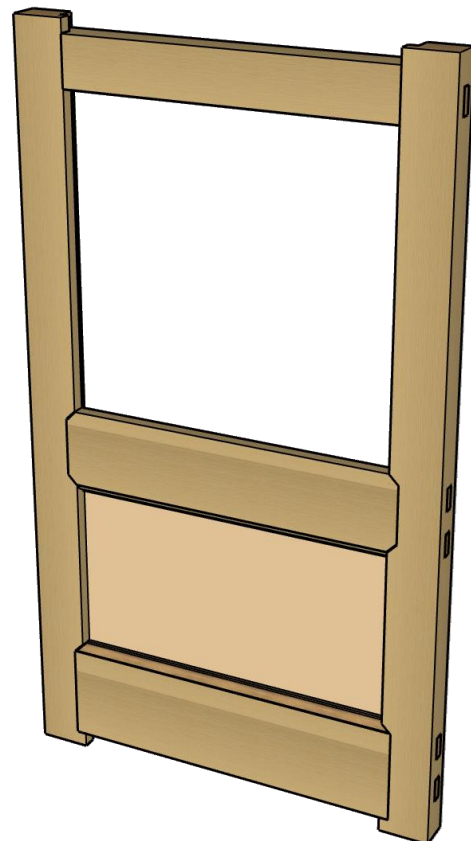


Assemble starting with the bottom panel and work outwards.

Make sure to do a dry assembly before gluing.



Completed Traditional Half Glazed Door.



Unit 212 Produce setting out details for bench joinery products

Task 1 Interpret information and set out for a half glazed door

Expected time	4 hours
Task instructions	- Compare the job specification with Figures 1-3 (half glazed door diagrams). - Identify and report discrepancies and errors by circling each error. Write down the correct information in the spaces provided on the job specification. Hand the corrected specification to the assessor for marking before continuing. - Complete a risk assessment. - Complete a tool list. - Set out height and width rod for a half glazed door. - Complete a cutting list and requisition sheet for ironmongery. - Work according to environmental and health and safety regulations.
Diagrams	Figure 1 Door elevation and height section page 21 Figure 2 Middle rail section page 22 Figure 3 Middle rail joint detail page 23

Observation checklist

AC	The candidate has	Pass	Merit	Distinction
2.1 2.2 2.3	checked information is accurate and discrepancies recorded	☐ Four discrepancies /errors identified	☐ Five discrepancies /errors identified	☐ Six discrepancies/ errors identified
5.1	completed the risk assessment form accurately, to meet current health and safety legislation	☐		
5.2	completed a resource checklist and used the correct tools to set out half glazed door	☐		
	overall height correct within 1 mm (not undersized)	☐		
	overall width correct within 1 mm (not undersized)	☐		
	mid rail position correct	☐ ± 3 mm	☐ ± 2 mm	☐ ± 1 mm
	all section sizes correct to within 1 mm	☐		
	all section profiles correct to within 1 mm	☐		
	joint proportions and positions shown correctly	☐		

AC	The candidate has	Pass	Merit	Distinction
5.3	correctly completed a cutting list	☐		
5.4	correctly completed a requisition sheet for ironmongery	☐		
5.5	followed current environmental and relevant health and safety regulations relating to setting out a half glazed door	☐		

Task grading rules		Task grade:
To award a pass : every activity in the checklist must be successfully achieved.		
To award a merit : in addition to the above, both (2) graded activities in the checklist must be achieved to at least a merit standard.		
To award a distinction : in addition to both of the above, both (2) graded activities in the checklist must be achieved to a distinction standard.		
Assessor	Signature & Date	

Unit 213 Mark out from setting out details for bench joinery products

Task 1 Mark out a half glazed door

Expected time	2 hours
Task instructions	- Complete a risk assessment. - Complete a tool list. - Mark out component parts from setting out details. - Work according to environmental and health and safety regulations.
Diagrams	Figure 1 Door elevation and height section page 21 Figure 2 Middle rail section page 22 Figure 3 Middle rail joint detail page 23

Observation checklist

AC	The candidate has	Pass	Merit	Distinction
3.1	completed the risk assessment form accurately, to meet current health and safety legislation	☐		
3.2	completed a resource checklist and selected the correct tools required for marking out	☐		
3.3	correctly selected - face side - face edge	☐		
3.4	mark out components for half glazed door rail positions/mortices in correct position to within 1 mm	☐		
	mortices and tenons marked out accurately to within 1 mm	☐		
	tenon shoulders marked out accurately to within 1 mm	☐		
	sections correctly indicated	☐		
3.5	followed current environmental and relevant health and safety regulations relating to marking out for half glazed door	☐		

Task grading rules		Task grade:
To award a pass : every activity in the checklist must be successfully achieved.		
Assessor	Signature & Date	

Unit 214 Manufacture bench joinery products

Task 1 Manufacture and assemble a half glazed door

Expected time	16 hours
Task instructions	• Complete a risk assessment. • Complete a tool list. • Manufacture and assemble a half glazed door. • Clean up the door to receive a paint finish. • Work according to environmental and health and safety regulations.
Diagrams	Figure 1 Door elevation and height section page 21 Figure 2 Middle rail section page 22 Figure 3 Middle rail joint detail page 23

Observation checklist

AC	The candidate has	Pass	Merit	Distinction
3.1	completed the risk assessment form accurately, to meet current health and safety legislation	☐		
3.2 4.2 4.6	completed a resource checklist and selected the correct hand and power tools, ensuring tools are sharp before and during use	☐		
3.3 3.4 3.5 3.6 4.1 4.3 4.4 4.5	manufactured and assembled a half glazed door • tenons fit mortices with no gaps exceeding 1 mm	☐		
	• securely wedged without splitting	☐		
	• haunches tight with no gaps exceeding 1 mm	☐		
	• shoulders tight with no gaps exceeding 1 mm	☐		
	• scribes tight with no gaps exceeding 1 mm	☐		
	• inside edges cleaned up prior to assembly	☐		
	• panel tight fit to grooves within 1 mm	☐		
	• rebate size correct within 1 mm as per Figure 1	☐		
	• moulding correct within 1 mm as per Figure 1	☐		

AC	The candidate has	Pass	Merit	Distinction
	sections produced clean, without breakout and to a consistent depth within 1 mm	☐		
	overall height 1050 mm	☐ ± 3 mm	☐ ± 2 mm	☐ ± 1 mm
	overall width 600 mm	☐ ± 3 mm	☐ ± 2 mm	☐ ± 1 mm
	without cramp marks	☐		
	parallel within 2 mm	☐		
	middle rail position 236 mm between sight lines	☐ ± 3 mm	☐ ± 2 mm	☐ ± 1 mm
	square	☐ ± 3 mm	☐ ± 2 mm	☐ ± 1 mm
	out of wind within 2 mm	☐		
	joints flushed using smoothing plane, without tram lines and tearing	☐		
	finished door no less than 42 mm thick	☐		
	prepared for paint finish and arrises removed	☐		
3.7 4.6 4.7	followed current environmental and relevant health and safety regulations relating to manufacturing, assembling and finishing a half glazed door. This includes - good house keeping - use of PPE - use of machines in accordance with ACoP	☐		

Task grading rules		Task grade:
To award a pass : every activity in the checklist must be successfully achieved.		
To award a merit : in addition to the above, all 4 graded activities in the checklist must be achieved to at least a merit standard.		
To award a distinction : in addition to both of the above, all 4 graded activities in the checklist must be achieved to a distinction standard.		
Assessor	Signature & Date	

Drawings and diagrams

Unit 212 Produce setting out details for bench joinery products

Task 1 Interpret information and set out for a half glazed door

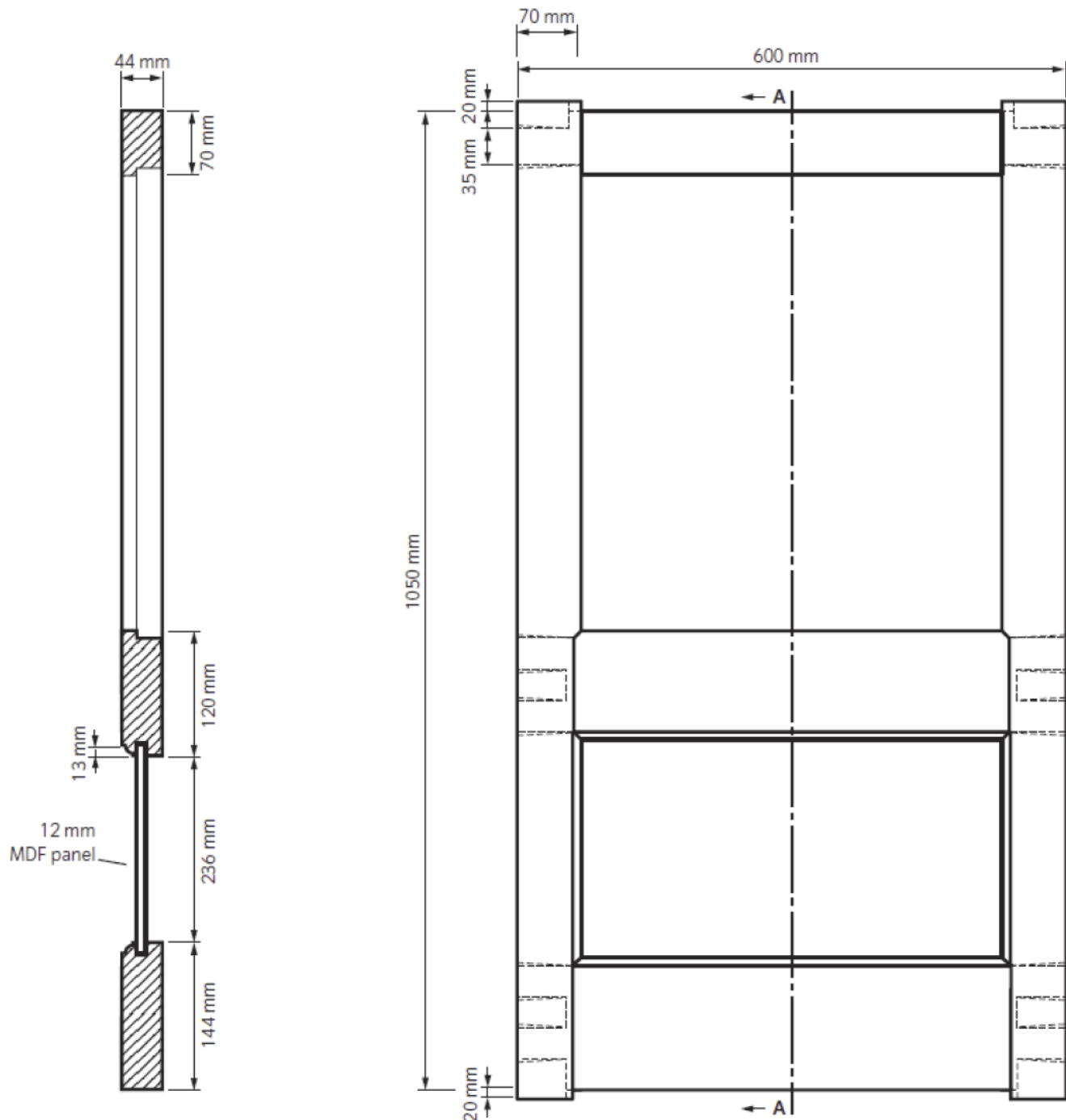
Unit 213 Mark out from setting out details for bench joinery products

Task 1 Mark out a half glazed door

Unit 214 Manufacture bench joinery products

Task 1 Manufacture and assemble a half glazed door

Figure 1: Door elevation and height section



Drawings and diagrams

Unit 212 Produce setting out details for bench joinery products

Task 1 Interpret information and set out for a half glazed door

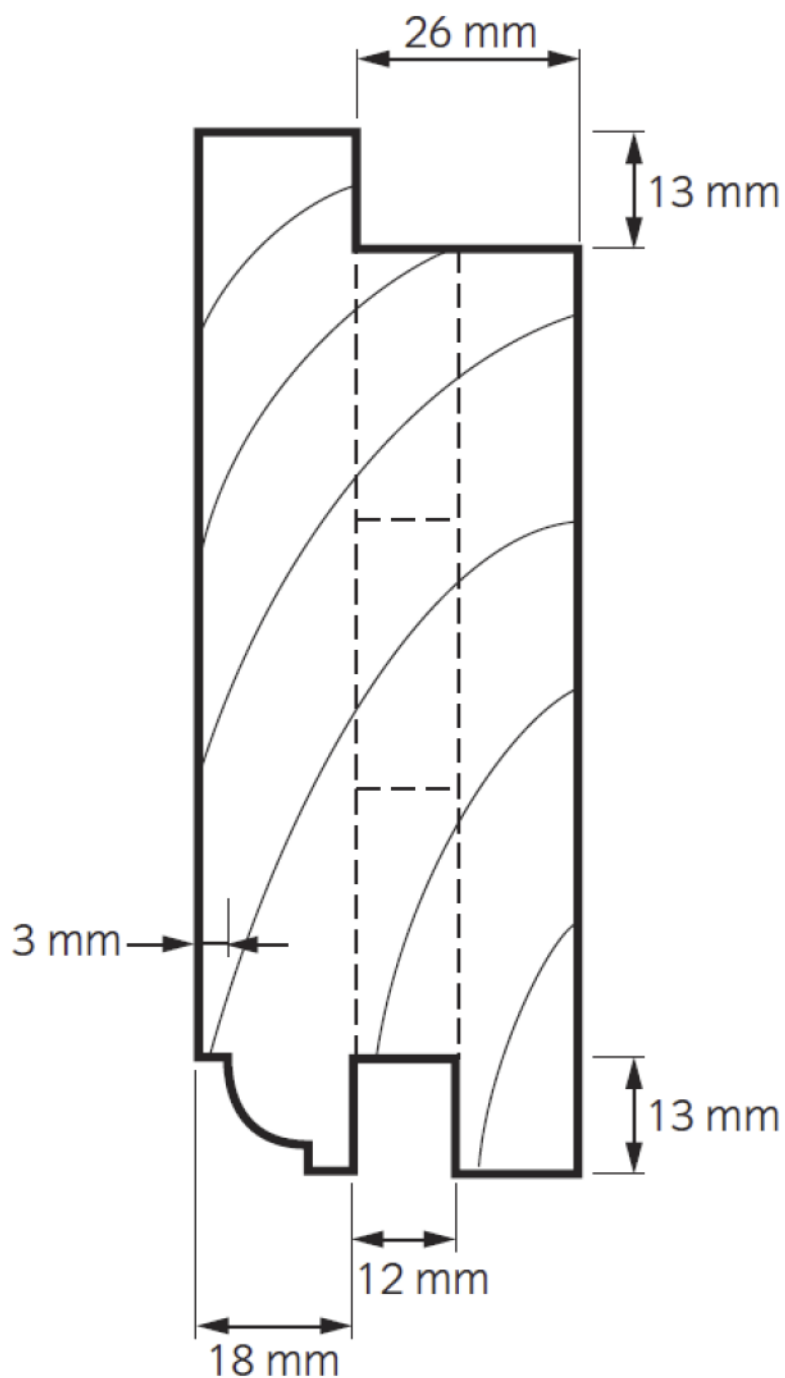
Unit 213 Mark out from setting out details for bench joinery products

Task 1 Mark out a half glazed door

Unit 214 Manufacture bench joinery products

Task 1 Manufacture and assemble a half glazed door

Figure 2: Middle rail section



Drawings and diagrams

Unit 212 Produce setting out details for bench joinery products

Task 1 Interpret information and set out for a half glazed door

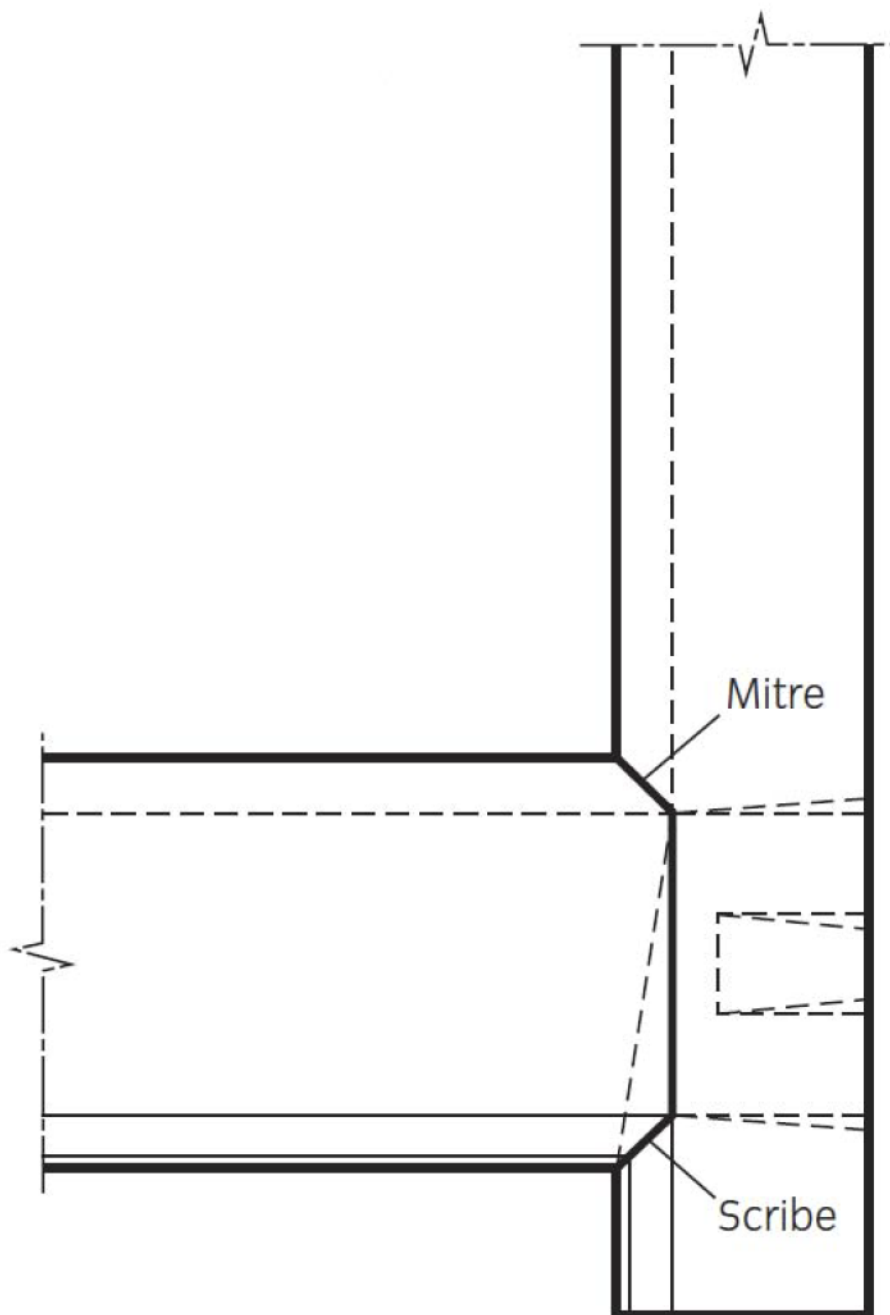
Unit 213 Mark out from setting out details for bench joinery products

Task 1 Mark out a half glazed door

Unit 214 Manufacture bench joinery products

Task 1 Manufacture and assemble a half glazed door

Figure 3: Middle rail joint detail



Unit and task reference	Date	Activity	Hazard	Existing Controls	S (1-3)	L (1-3)	RR (S x L)	Actions needed

		Likelihood		
		Unlikely	Possible	Very likely
Severity	1 Slight / minor injuries / minor damage	1	2	3
	2 Medium injuries / significant damage	2	4	6
	3 Major injury / extensive damage	3	6	9

Likelihood

3 = Very likely

2 = Possible

1 = Unlikely

Severity

3 = Major injury / extensive damage

2 = Medium injury / significant damage

1 = Slight / minor damage

Key:

1 = Low risk, action should be taken to reduce the risk if reasonably practicable

2, 3, 4 = Medium risk, is a significant risk and would require an appropriate level of control measures.

6 & 9 = High risk, should not be undertaken without prior agreement.

Task	Date
------	------

Assessor guidance: 6706-13 Level 1 Diploma in Carpentry and Joinery 14

Personal Protective Equipment (PPE)	Quantity	Condition
<i>eg safety harness</i>	<i>1</i>	<i>Free from defects, correct size</i>

Unit and task number	
Candidate name	

Task reference	Unit feedback		
Task reference	Action plan	Target date	Achievement date