

Test Project document template

TP25_40CA_AA_EN

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TP25_40CA_AA_EN.doc

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INTRODUCTION

Solid oak for the treads, oak for the handrail and the balusters, MDF for supporting the stair, and plywood for the base.

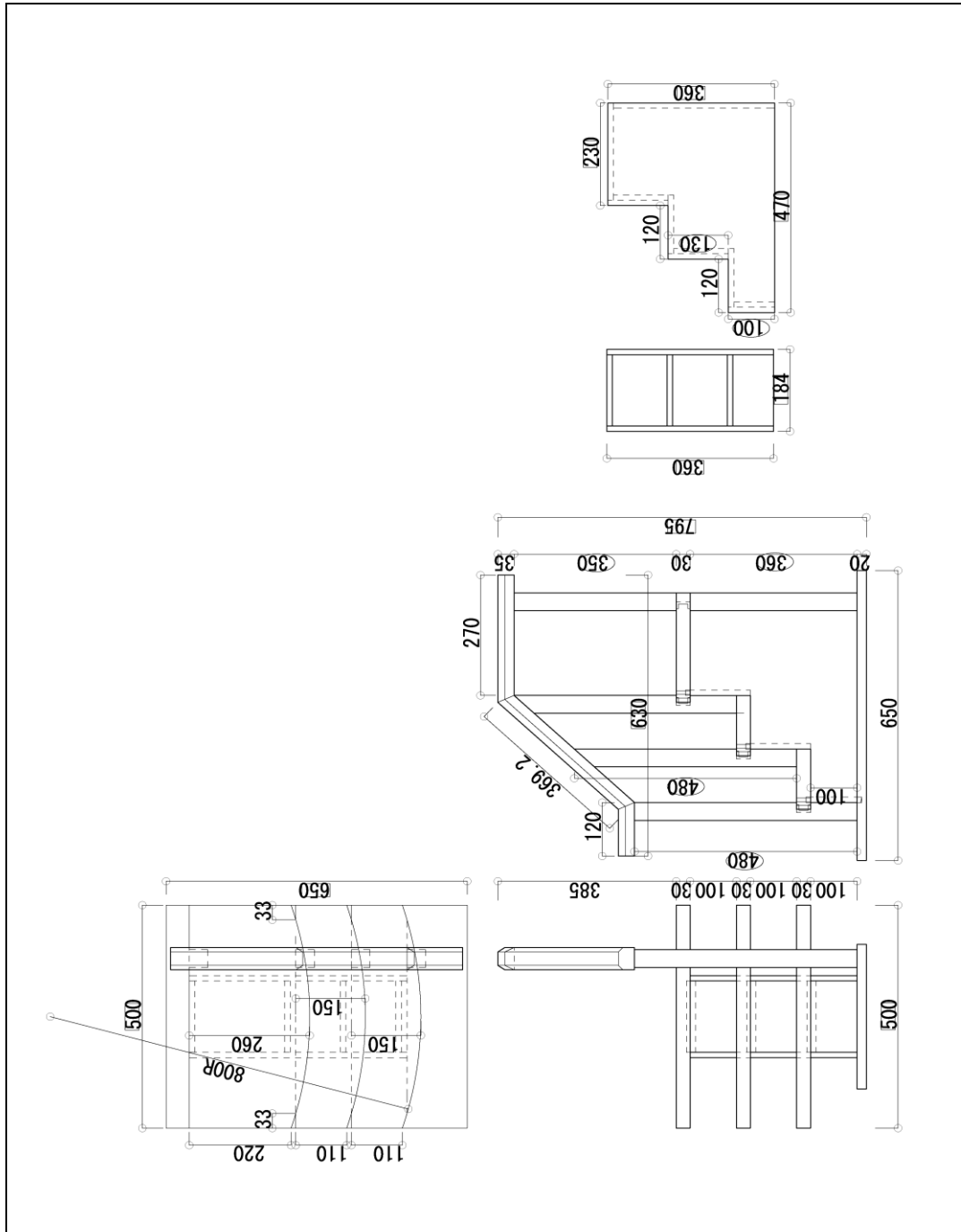
DESCRIPTION OF PROJECT AND TASKS

Solid maple for the treads, maple for the handrail and the balusters, MDF for supporting the stair, and plywood for the base.

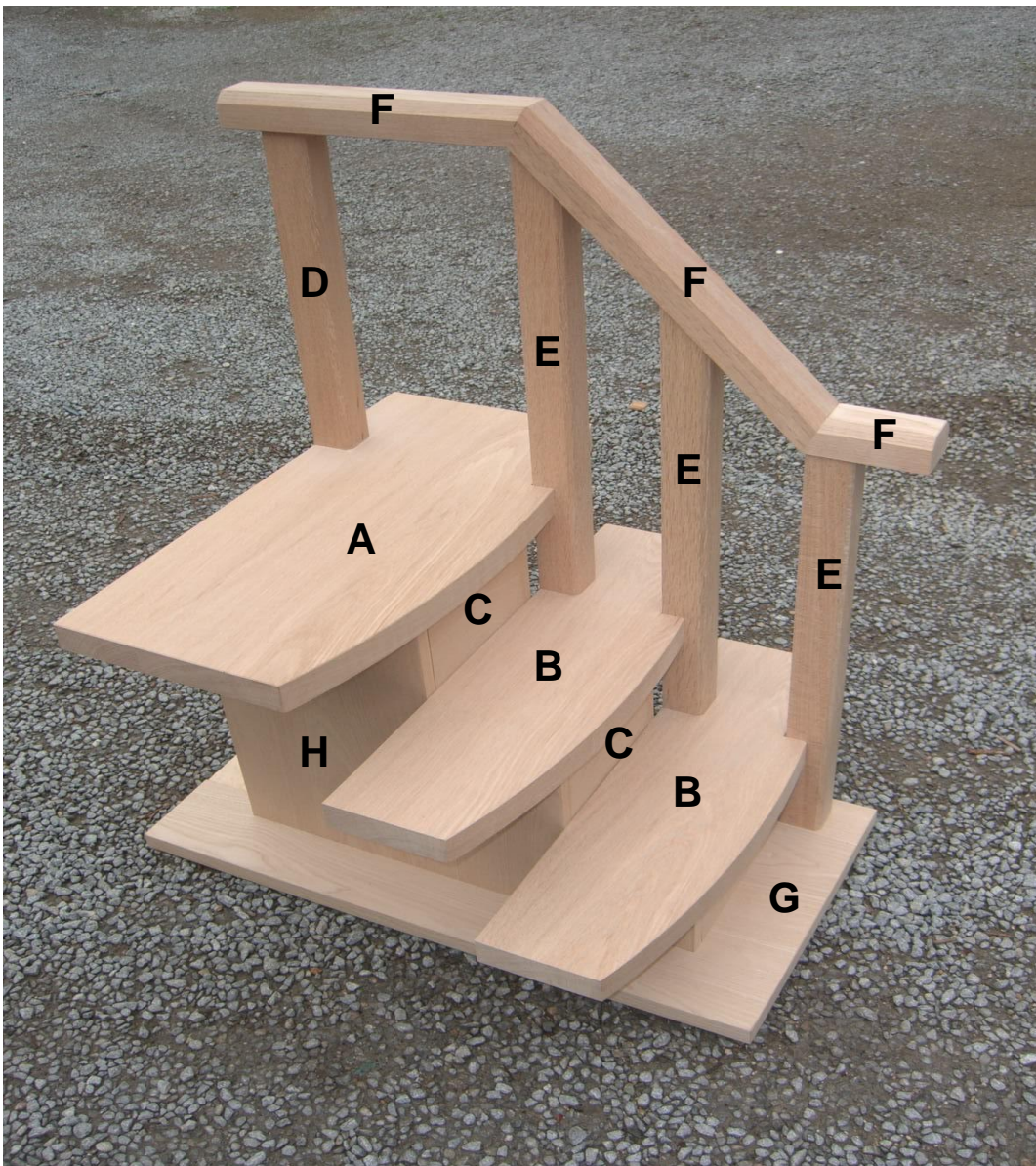
INSTRUCTIONS TO THE COMPETITOR

1. Materials provided must be checked against work drawing.
2. Stair must be made according to the drawing and the instructions.
3. Maximum working time 11 hours.
4. The competitor must keep track of the times themselves. Time will only be stopped for illness or accident.
5. Please observe the safety instructions laid down by the workshop manager.
6. If a woodworking machine is use, put your country code on the waiting list by the machine. A judge will inform you when the machine is available.
7. The competitors will do manual work on the joints of the stair treads and the handrail.
8. When joint process on the handrail is done, the competitors have to submit the project to the experts for marking before dowel joint is carried out.
9. In any cases, assessment must be finished after processing and before gluing.
10. All surfaces must be fit for polishing.
11. Your own measuring equipment, must be available after finishing your work to check the measurements.

WORKING DRAWINGS TO SCALE (1:4)



MATERIALS PICTURE



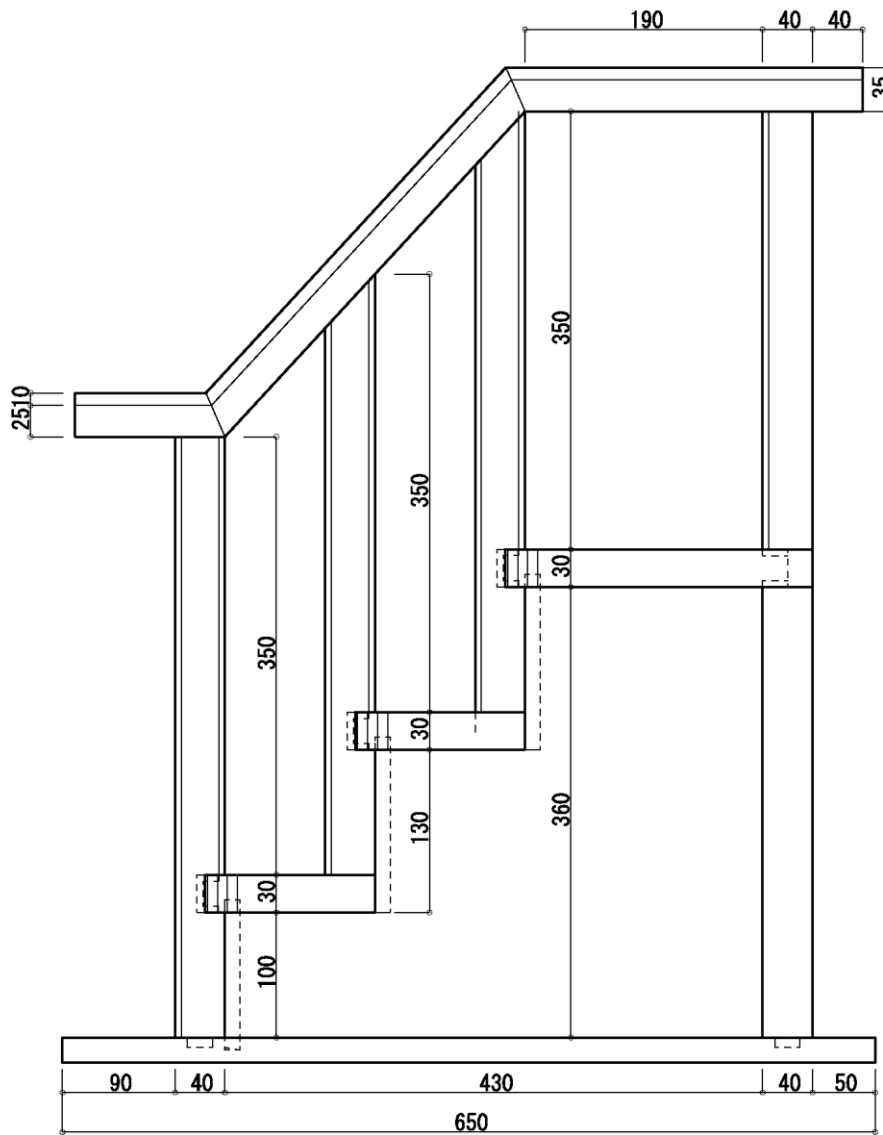
LIST MATERIALS

No.	Quantity	Name of part	Finish dimension (mm) L · W · T	Material
Stair step				
A	1	Top tread	530·270·30	maple
B	2	Tread	530·160·30	maple
C	3	Riser	200·130·20	Solid maple
D	1	Baluster	850·40·40	Solid maple
E	3	Baluster	550·40·40	Solid maple
F	1	Handrail	850·50·35	Solid maple
G	1	Base board	630·330·20	MDF
H	2	Side plate of stair fixing box	400·500·20	MDF
I	1	Top plate of stair fixing box	200·260·20	maple Veneered MDF
J	2	Tread of stair fixing box	200·150·20	maple Veneered MDF
K	1	Drawing board	1200·900·12	MDF

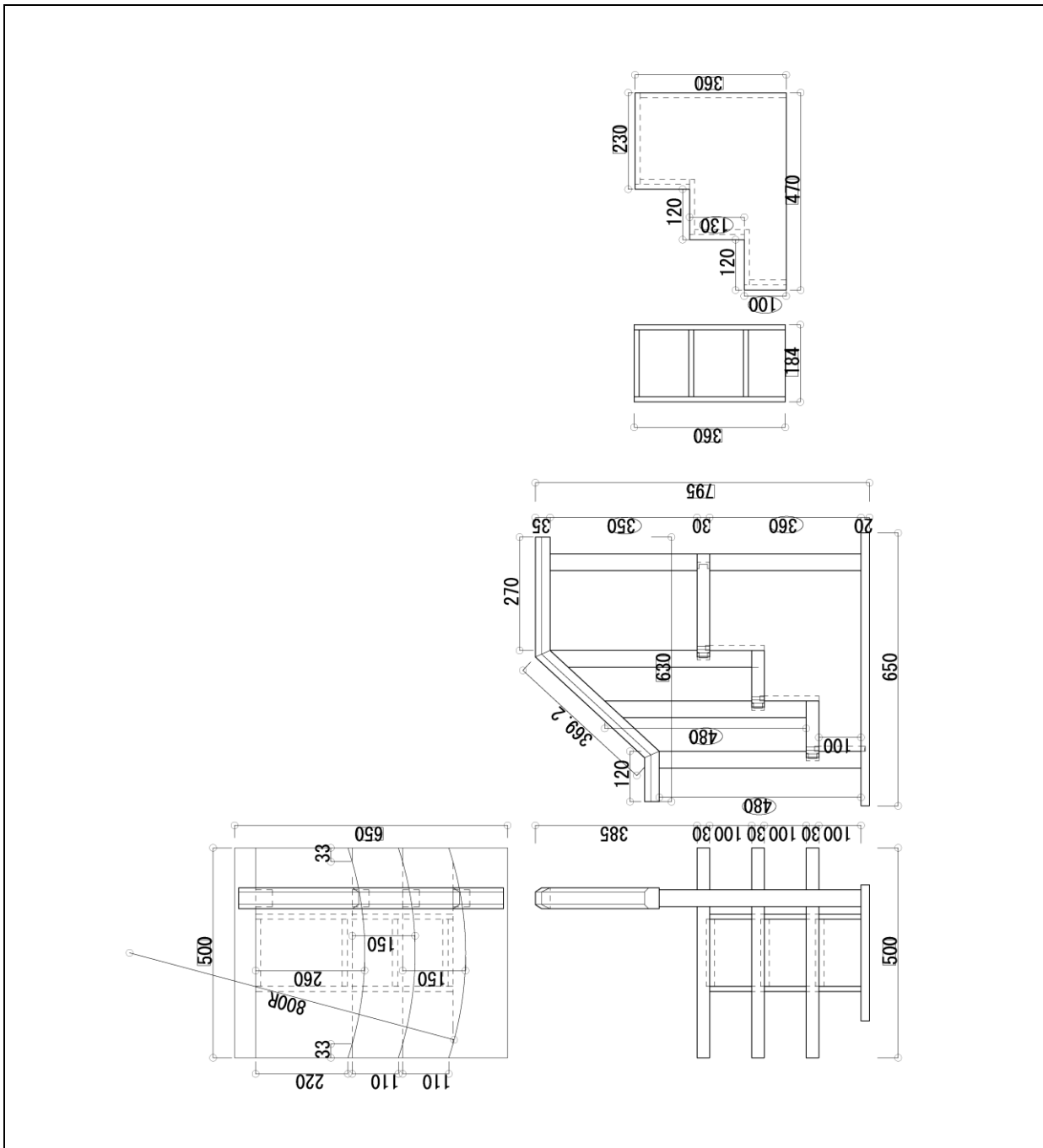
MARKING SCHEME

Section	Criterion	Marks		
		Subjective	Objective.	Total
A	Drawing-setting out	6.5	3.5	10
B	Internal joints	20		20
C	External joints		25	25
D	Finish and appearance	20		20
E	Conformity		5	5
F	Measurement		15	15
G.	Material		5	5
	Total	46.5	53.5	100

A – DRAWING SETTING OUT



ELEVATIONS SHOWING MEASUREMENTS FOR MARKING



EXTERNAL JOINTS

Objective Marks 27			
A. Basic Measurements			5
A1. from the bottom of the base to the top of the handrail	795	1.5	
A2. tread length	500	1.5	
A3. from the front top to the back top of handrail	630	2	
B. Secondary Measurements			4.5
B1.measurement from the top surface of the base to the undersurface of the handrail	480	1.5	
B2.measurement from the top surface of the back base to the undersurface of the tread	360	1.5	
B3.measurement from the top surface of the treads to the undersurface of the handrail	350	1.5	
C. Joints After Gluing			17.5
C1.Gluing of abutting joints between the handrail and the balusters		3	
C2.Joints and the notches on the balusters and the stair treads		4	
C3.Finish of roundness with radius of 800mm on the treads	800	6	
C4.Gluing of the jointed edges on the handrail		3	
C5.Gluing of the joints among the stair, the risers, the back surfaces, and the stair fixing box		1.5	

INTERNAL JOINTS

<u>MARKING SCHEME</u>			
Subjective Marks 23			
A. State of tenons and mortises before jointing			7
A1.Finish of tenons and mortises on the handrail and the balusters		2.5	
A2.State of notches on the stair treads and the balusters		1.5	
A3.Fitting between the treads and the risers		1.5	
A4.Handrail elbow joints (dowel hole working on the edges)		1.5	
B. Finish of the components			7.5
B1.Smoothness of the edge curves on the stair treads		3.5	
B2.Clarity of the finished full size drawing		2	
B3.Finish of the handrail and the balusters		2	
C. Joints After Gluing			8.5
C1.Joints between the handrail and the balusters		1.5	
C2.Fitting between the balusters and the treads		1.5	
C3.Finished assembly of the stair treads and the stair risers		1.5	
C4.Joints between the handrails		2.5	
C5.Gluing between the floor baseboard and the baluster		1.5	

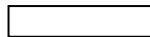
MATERIALS

Solid oak for the treads, oak for the handrail and the balusters, MDF for supporting the stair, and plywood for the base.

CONSTRUCTION

- 1) The risers are to be groove jointed and fastened with screws to the treads.
- 2) The joints between the handrails are to be done with two dowels.
- 3) The handrail and the balusters are to be mortise-and-tenon jointed.
- 4) Both the balusters and the treads are to be notched.
- 5) Work with MDF board to make the base on which three treads are put.
- 6) Round off the one sides of the three treads to 800mm radius
- 7) Cut angular surfaces on the instructed parts of the balusters.

Basic measurement



Secondary measurement

