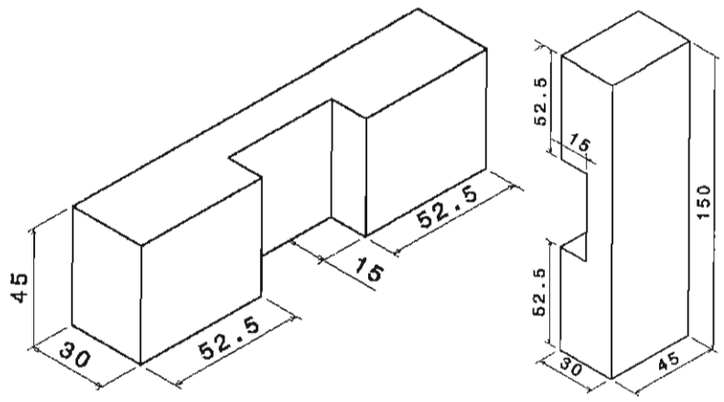
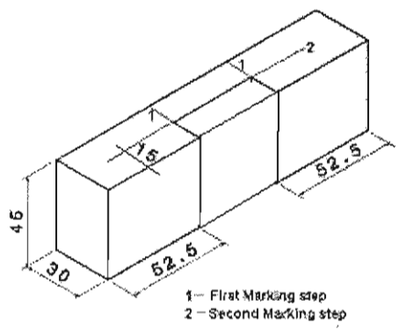
## CROSS HALVING JOINT

Make a Cross Lap Joint as per the dimensions shown in figure

Given Dimensions for
the required Joint

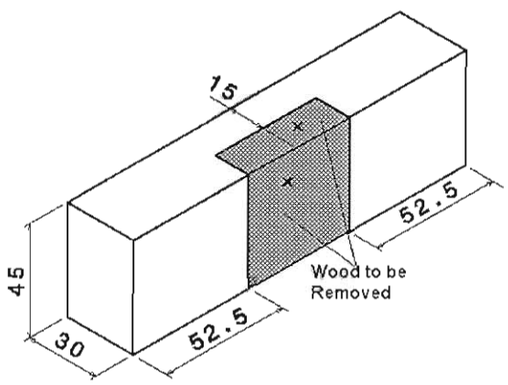



### I. Marking

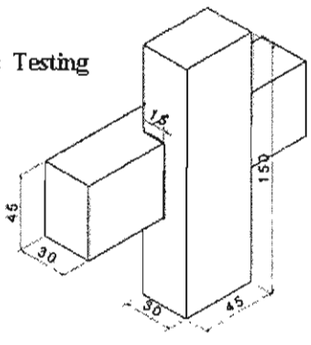



Same Marking on both Piece 1 and Piece 2

### II. Cutting / Sawing




### III. Finishing & Testing



# CROSS HALVING JOINT

## AIM:

To produce a cross halving joint from the given work piece

## APPLICATION:

Cross bars in a cot, shelves.

## SUPPLIED MATERIAL SPECIFICATION:

Venteek wood of size 150 x 45 x 30

## TOOLS REQUIRED:

1) Jack plane. 2) Hand saw. 3) Steel rule. 4) Pencil 5) Marking Gauge.

6) Try square 7) Firmer Chisel. 8) Cleaning brush.9) Wooden mallet

## SEQUENCE OF OPERATION:

1) Preparing. ) Marking. 3) Cutting/Sawing. 4) Finishing.

## WORKING STEPS:

1) **PREPARING**

a. Prepare the work piece as described in previous with a length of 150mm, 45mm and 30mm.

2) **MARKING:**

b. Check the dimension of the given work piece. 150mm, 45mm and 30mm.

a) First mark from Right side of the piece with distance of 53mm then 45mm.

b) Mark again from the left side of the work piece .same distance 53mm then 45mm.

c) Then mark the piece from the middle or on 6 inches from the steel rule measurement..

d) Now highlight all & fine marking on all four faces of the given work piece.

e) Mark appoint exactly half of the given wooden pieces and mark a groove line from top to bottom by marking gauge on both sides..

3) **CUTTING / SAWING:**

a) Use Firmer chisel to make grive on first & second marking from right side (53mm&45mm) and same on left side..

b) Now use hand saw to cut till marking on the side that is depth of 15mm

c) Now we have grove mark on firmer chisel and wooden mallet to cut the grooved part on both side of the wooden piece.

d) Then clear & level the rough cutting area by Rasp file on both side.

e) Then cut the wooden piece from the middle, where it was marked at 6 inches from the steel rule.

4) FINISHING:

a) Take a series of small cuts delicately on both the side pieces to remove the excess wood assembly joint in cross shape and clear off the waste by wire brush

RESULT:

The cross halving joint was produced from the given work piece and assembled joint was submitted for evaluation.