

Design & Manufacture

Homework 10

Preparing Wood For Use

When solid wood is taken from the store, it needs to be checked before it is used. The following checks are recommended.

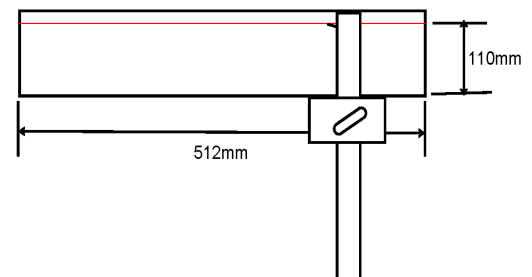
1. Look along the length of the strip of wood and see if it is warped, bowed or twisted.
2. Check the ends to see if there are any splits.
3. Check for knot holes or loose knots.
4. Check to see if there are too many knots, because they may make the wood hard to plane smooth.
5. Check for small holes made by insects such as woodworm.

If the wood you look at has any of the above problems it is best to reject it and carry on searching.

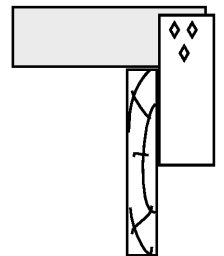
When Cutting

Rather than cut from the strip all the individual pieces of wood you want, it is better to add up the length of all the bits of wood you need and add the lengths together to get a total length. (Add 3mm to each length to allow for sawing waste).

If the strip is wider than the wood you want then you will have to mark out the correct width with a marking gauge and then saw and plane it to size.



When you have nearly finished planing it, check that the edge is at right angles to the sides by using a try-square.



The sides and ends are now ready to be marked out. Remember to leave a 3mm gap between each piece to allow for sawing waste.



When the pieces have been sawn off, the ends will need to be planed or sanded to the line. The wood is now ready for use.

Questions

Name five things that need to be checked before a length of wood is selected for use.

.....
.....
.....
.....
.....

How much extra material should be added to allow for sawing waste?

.....
.....
.....
.....
.....

What would be the total length of wood required for a box that has sides 325mm long and ends 250mm long?

.....
.....
.....
.....
.....

Which tool would you use to mark the width of wood required?

.....
.....
.....
.....
.....

What would you check when planing the wood to width and which tool would you use?

.....
.....
.....
.....
.....