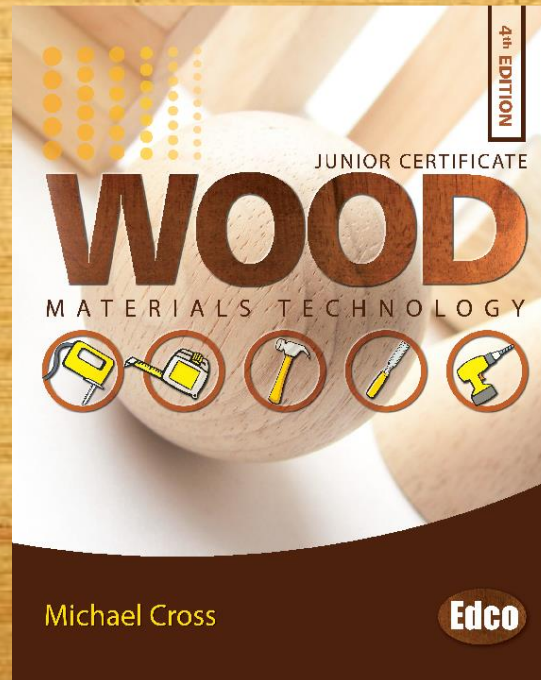


WOOD MATERIALS TECHNOLOGY

4th Edition



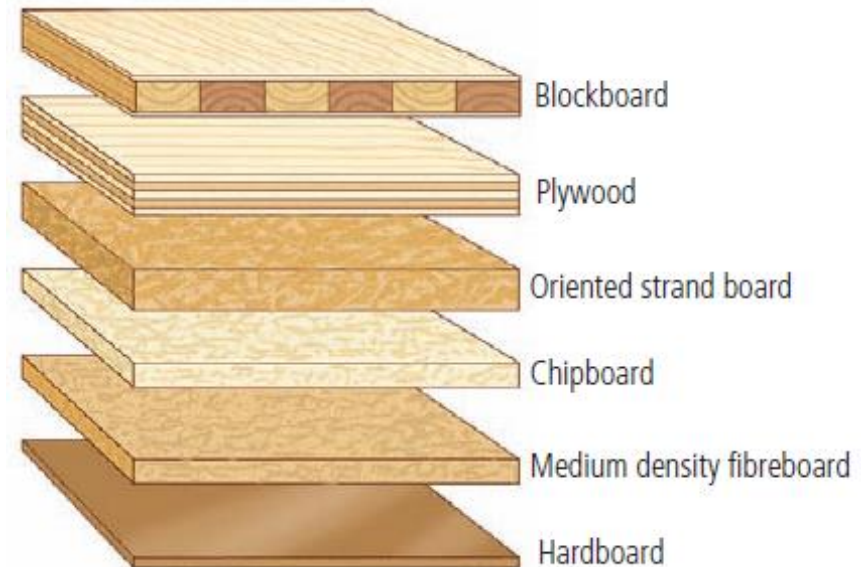
Chapter 15

Manufactured boards

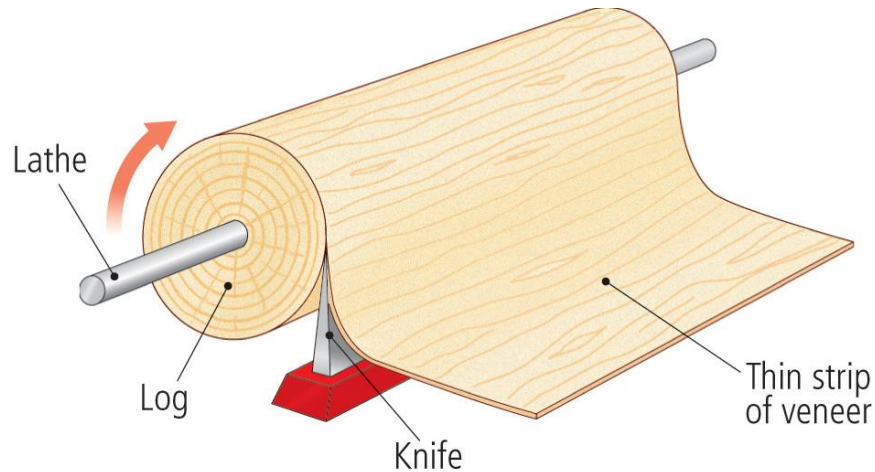


Manufactured boards

- Making boards and sheets from wood or wood products
 - Veneers
 - Sawdust
 - Wood fibres
 - Wood strips
 - Wood flakes



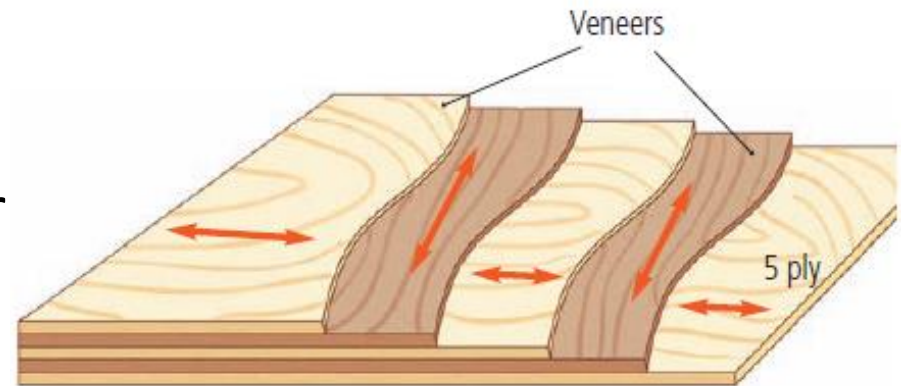
Plywood



- Cutting the veneer

- Make-up of plywood

- Veneers at 90° to each other
- Odd number of layers (5/7)

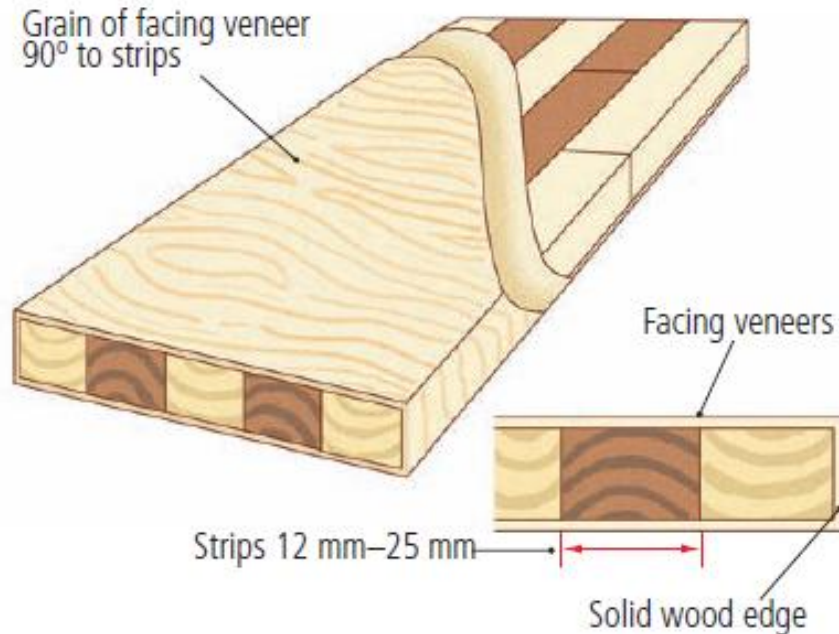


Types of plywood

- WBP
 - Water and Boil Proof
 - Exterior grade
- Marine plywood
 - Boat building
 - Exposed situations, roofs



Blockboard



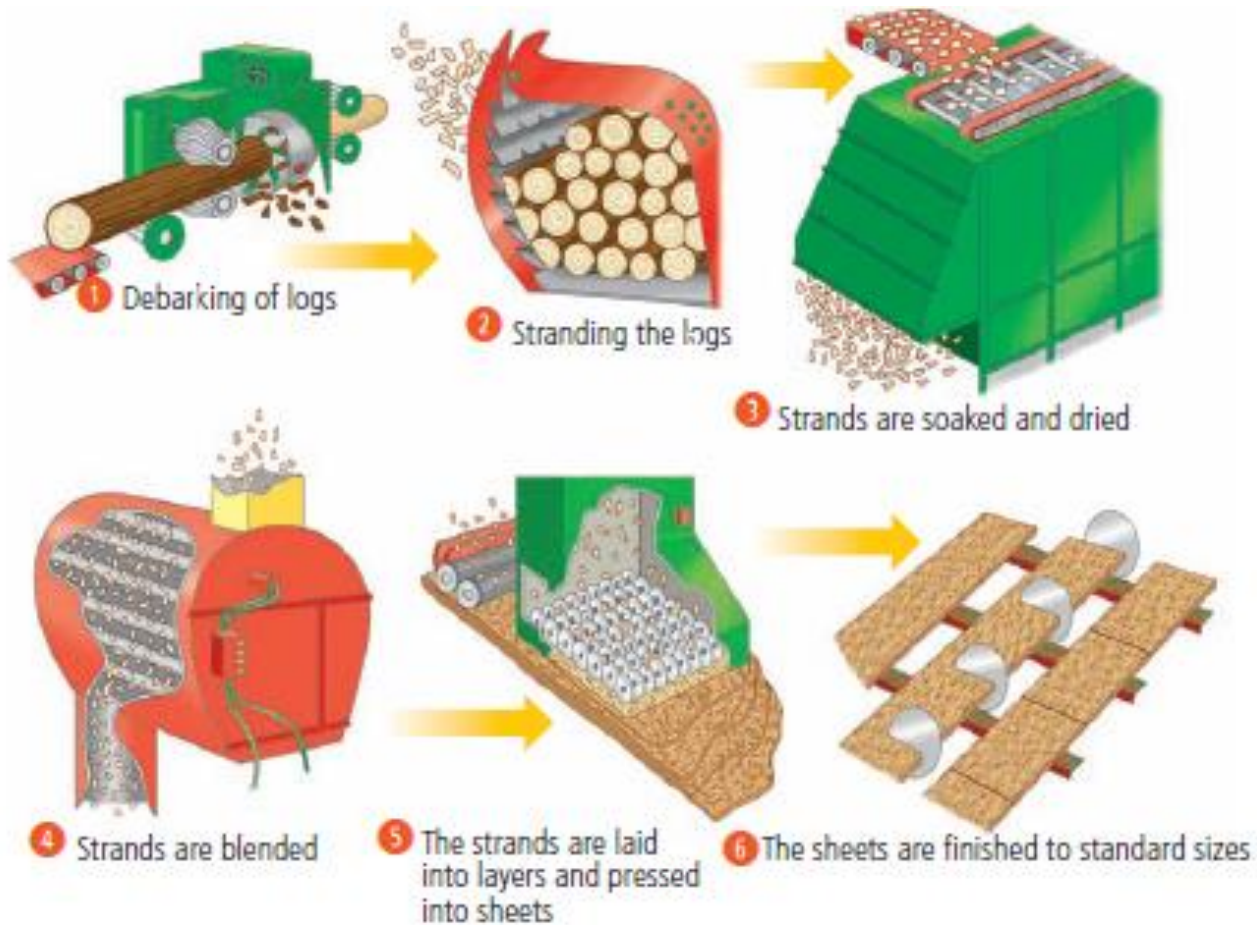
- Strips of softwood glued together and faced with veneers
- Does not split easily
- Can screw into the edge
- Wide sheets (8' X 4')

Pineboard/lamwood

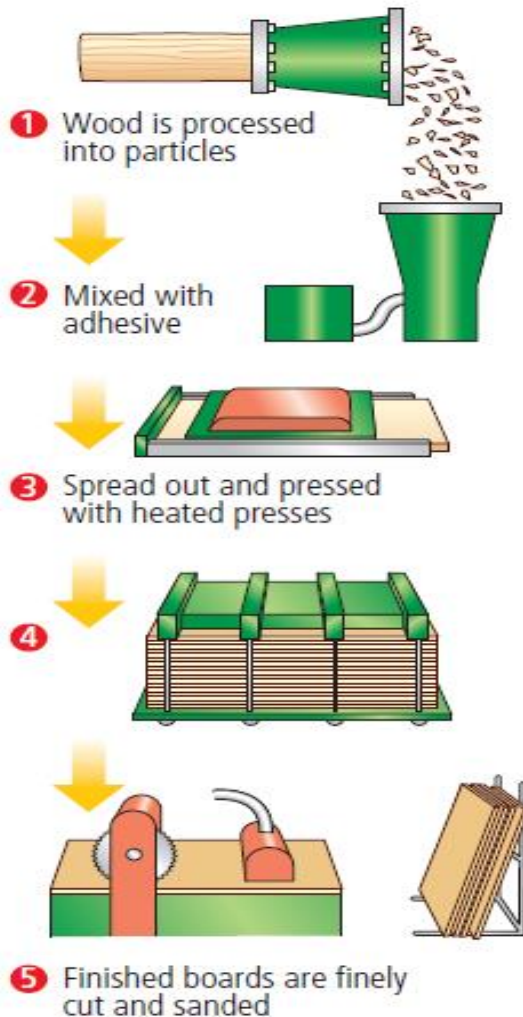
- Made from thin softwood strips, glued together
- Makes a wide board in softwood
- Uniform thickness (12 – 25mm)
- Boards tend to cup
- Useful for projects
- Hardwood examples can be obtained



OSB – oriented strand board



Chipboard

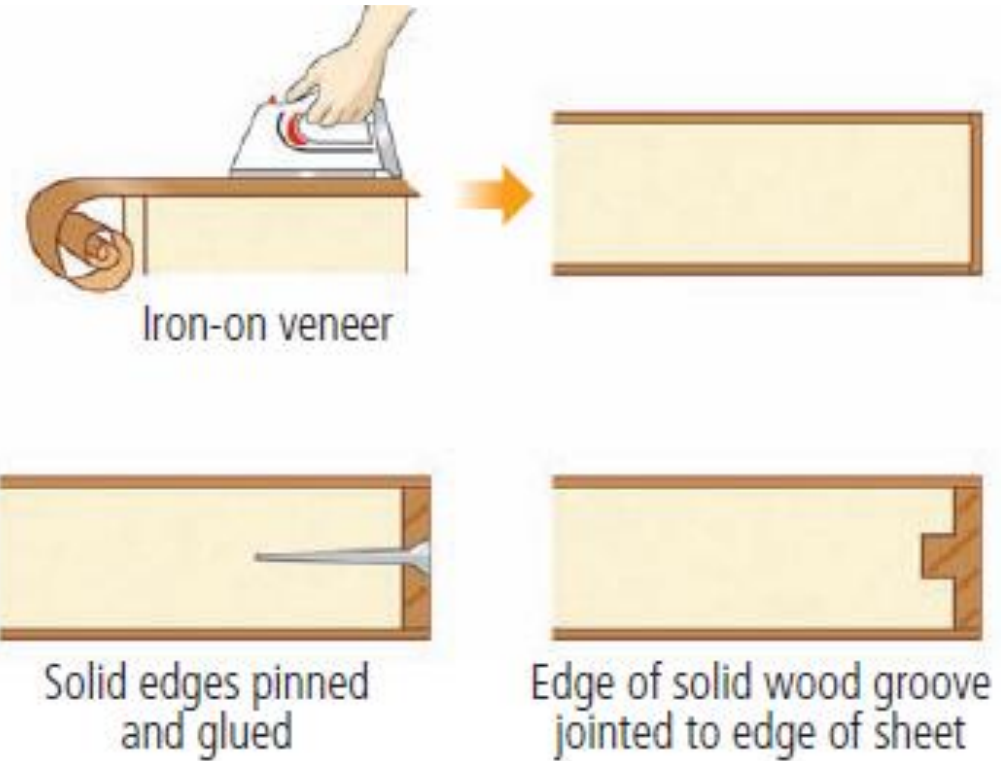


- Wood chips are glued
- Pressed into sheets
- Often faced with wood veneer or plastic laminate
- Edges of the board need to be covered



Edges

- Edges of chipboard should be covered



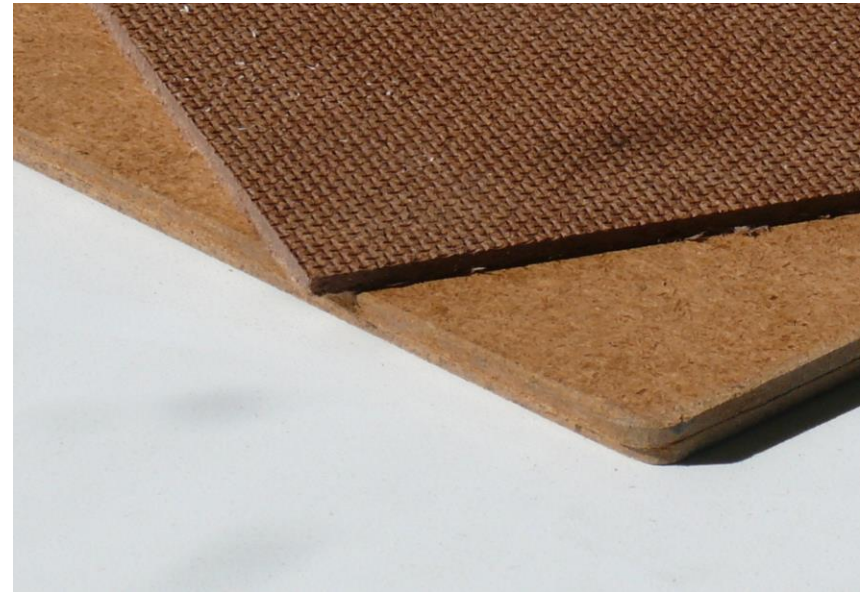
MDF (Medium density fibreboard)

- Very popular board material
- Often faced with veneer or plastic laminate
- Made with fine wood fibres in three layers
- Need to drill into face before nails or screws are inserted
- Fine dust is harmful



Hardboard

- Available in thin sheets
- One face smooth, one textured
- Often faced with plastic laminate
- Back of cabinets, base of drawers
- Only used indoors



Quiz

- Name the following manufactured boards

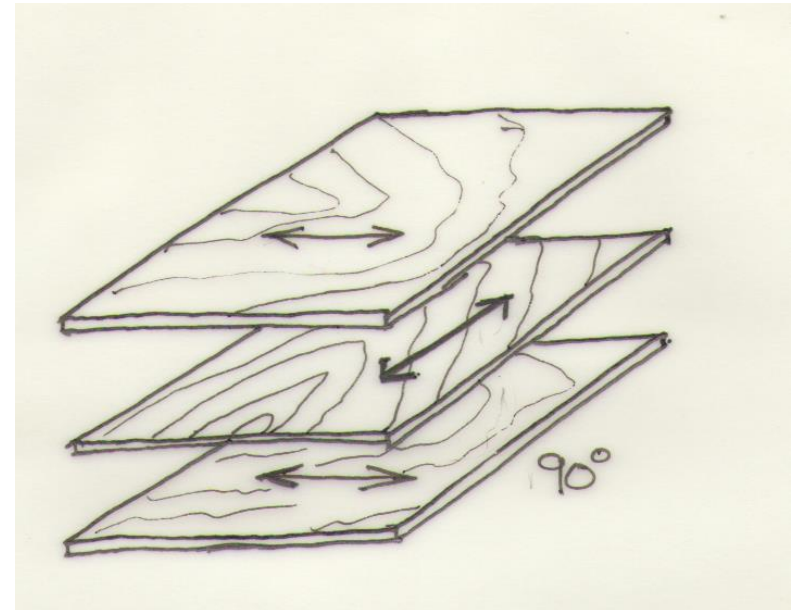
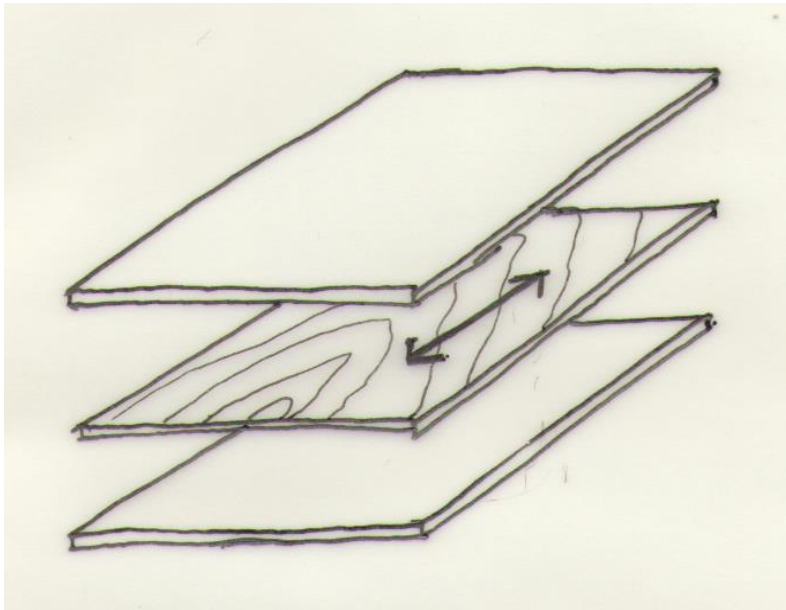


— Chipboard

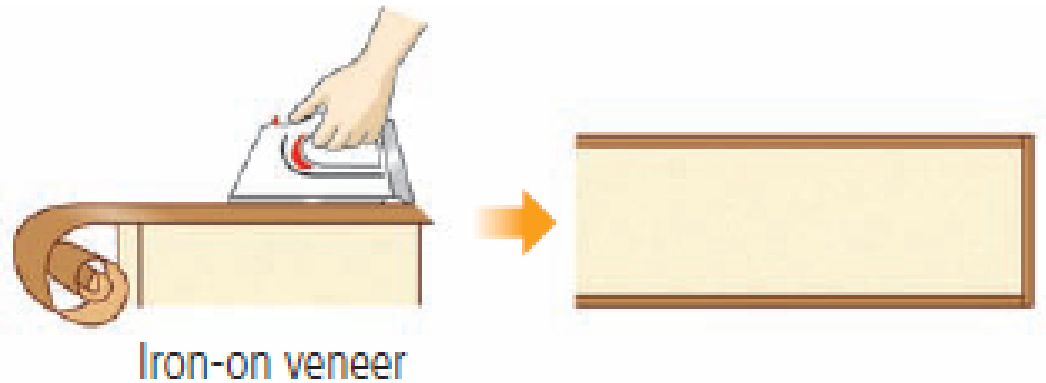
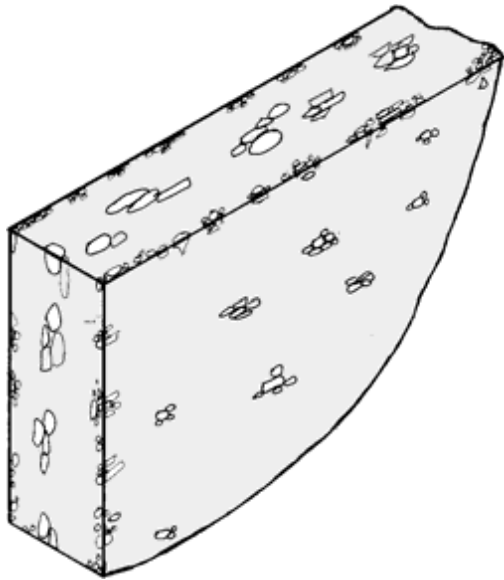


— Pineboard

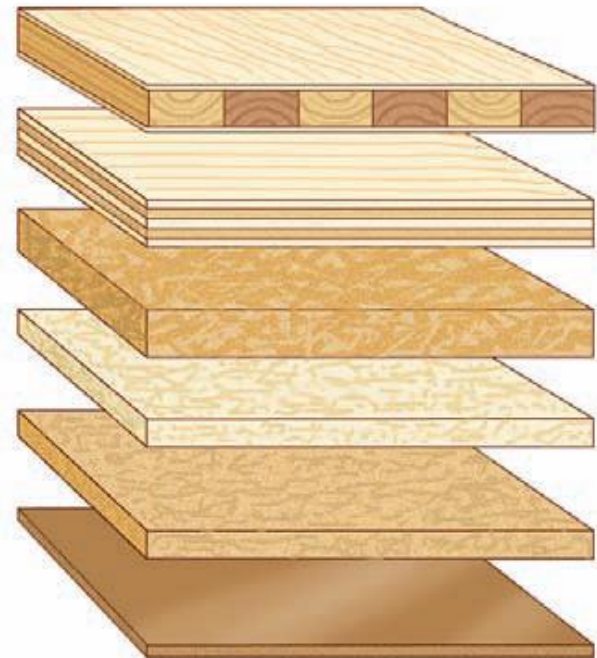
- Three layers of wood are being glued to make plywood. Draw a sketch to show the direction in each layer.



- The edges of chipboard look poor. Draw a sketch to show how the edges are covered.



- State some advantages of manufactured boards
 - Large sheet sizes
 - Cover large areas easily
 - Uniform thickness
 - Stable – no shrinkage
 - Do not warp
 - Use woods efficiently
 - Little waste
 - Often veneered over – helps to save the rainforests



- What do the letters WBP stand for?

**Water
Boil
Proof**

