Manufactured Boards

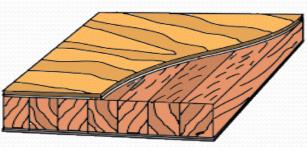
What are Manufactured boards?

- Manufactured boards are "man-made" boards
- They do not grow naturally.
- Manufactured board are simply strips or pieces of wood (chips/dust) glued together and pressed with a heat process to form larger boards or sheets.

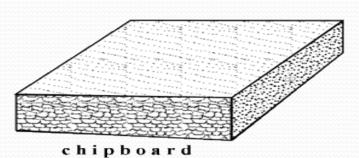




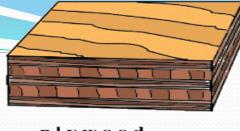
<u>Types of</u> <u>Manufactured</u> <u>Boards</u>



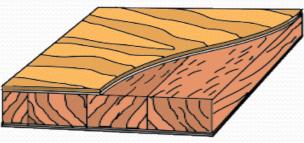
laminboard



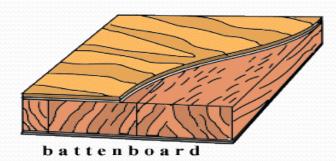




plywood



blockboard



fibreboard

Advantages of Manufactured boards over natural timbers

- Cheaper to buy
- Can produce larger projects
- Can be covered in veneers from expensive timber – which reduces the use of tropical hardwoods





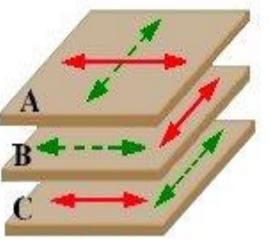
Types of Manufactured Boards

(a) Plywood

- Veneeres are cut from logs using the rotary cutting method shown
- Layers are glued together in alternative (opposite) directions to give strenght
- Different types of plywood.
- Marine (boats)
- 2. WBP (water boil proof) for outside.







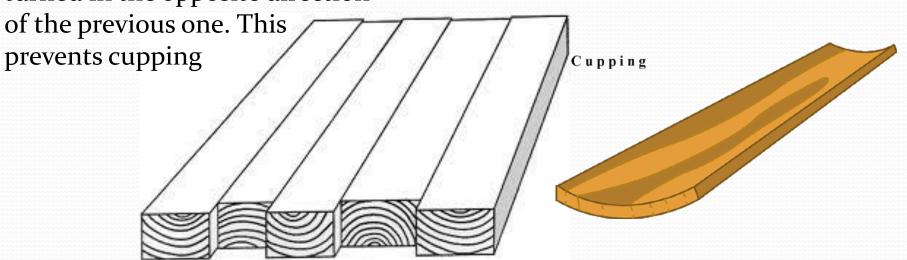


(b) Pineboard

- Strips of pine (Red Deal) are glued together to form large sheet.
- Available in different thicknesses.

 Every second boards end grain is turned in the opposite direction of the previous one. This





(c) Block board

- Like Pineboard but covered in veneer (3mm) to improve strength.
- Used in cheaper furniture and desks.







(d) Melamine

- Melamine is a hard thermosetting plastic.
- This is used to coat over chipboard or other manufactured boards to make them stronger.
- Often used on kitchens and worktops



Types of Particle Board

- (a) OSB -Oriented Strand Board
- Made by pressing wood chips with resin and wax
- Wax makes it waterproof
- Often used outdoors for flooring and sheds

Watch is been made below

http://www.youtube.com/watc h?v=awxhgAMnyTs





(b) Chipboard

- Most common sight in all homes and usually covered by expensive veneers
- Manufactured by gluing and compressing wood particles.
- Very weak when wet
- Good for environment

Watch it been made below http://www.youtube.com/watc h?v=qitenYvpSx4





Manufacture of Chipboard

- Wood is processed into particles
- Particles are mixed with adhesive (glue)
- The mixture is spread out and pressed into sheets with heat press.
- 4. Boards are sanded and cut to size







3 Fibreboard

Fibreboards: these are made by compressing extrememly small wood particles with resin glues.

(N.B) Cutting them creates a lot of dust!!





Types of fibreboard

- (a) MDF- Medium Density Fibreboard
- Made by compressing extremely small wood particles with resin glue.
- Creates a lot of dust when cutting so you need to wear face mask at all times.
- Weak when wet so veneers are often used to cover them.







Edges of Manufactured Boards

- Router design
- Edging- banding
- Edge- Moulding







