

HANDOUT 4

Particle Board Manufacture

Classification:

Manufacturing particle board composites.

Materials:

Waste wood particles from all variety of timbers.

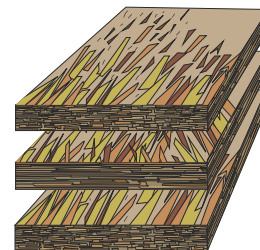
General description:

Wood particles mixed with resin which are formed into boards by curing in a heat press.

Example composites:

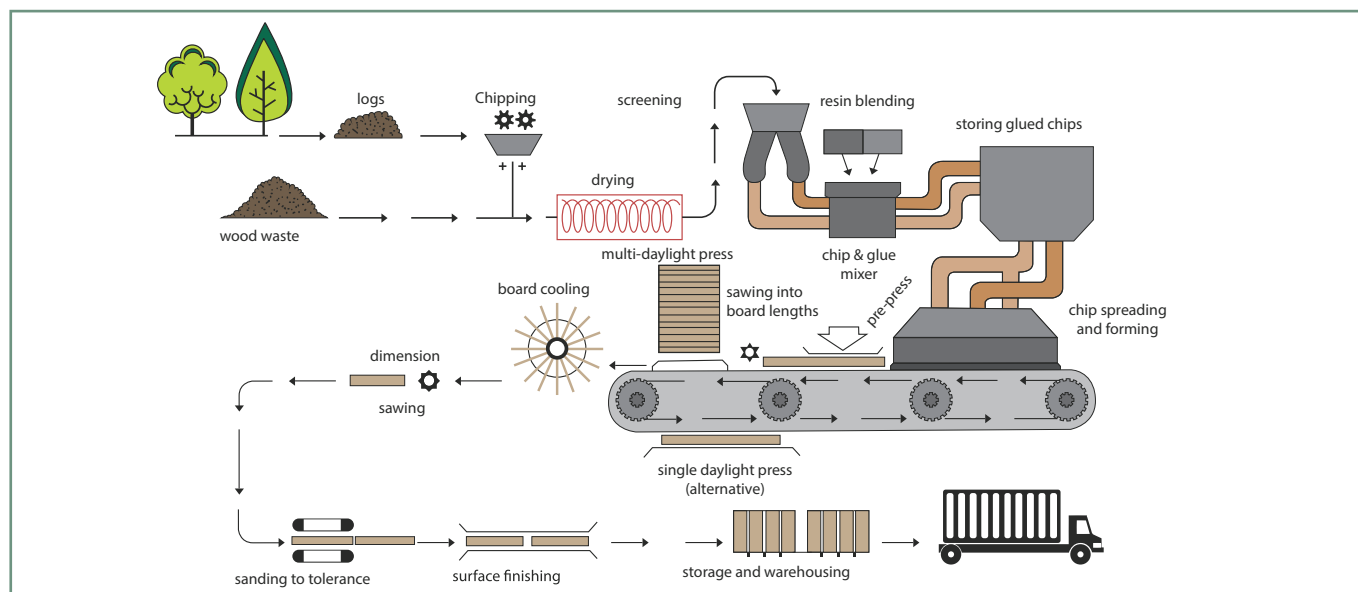


Chipboard



Orientated
Strand board

Process:



Manufacturing Particle Board

Preparation

- Chipping material
- Drying chippings
- Screening to size

Method

- Mix chippings with synthetic resin
- Chip spreading
- Press chippings and apply heat
- Cool board
- Dimensioning

Finishing

- Sand to tolerance
- Apply surface finish:
 1. Veneer – timber
 2. Melamine thermoset laminate