

Building Materials

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Wood

Plywood → various thicknesses

- Multiple layers (PLYS)
 - ∘ Ex. 5-ply \rightarrow 5 layers, 6-ply \rightarrow 6 layers
- 3/4" plywood is most common for skin platforms and stair teads

Skinning → surfacing something

Luan/Lauan → similar to plywood

- 'Underlayment' at home improvement stores
- Used in the theater to skin things (lightweight)

- Smoother and thinner (more expensive)
- Common in 1/8" and 1/4"

Oriented Strand Board (OSB) → recycled wood that is chopped and glued to a sheet

- Denser than plywood and splinters
- Not flawless when painted
- Eco-friendly
- 4' by 8'

Lumber → various types of wood

- 1x → sticks of lumber
 - \circ 1×6 \rightarrow 6 is the length
- Actual lumber is shorter than 1x_
- $2x \rightarrow$ Found under *STUDS*

Extruded Polystyrene Foam / XPS Foam / Pink Foam → glued together in layers

- · Carved with a hot knife or blade
- Give off hazardous gasses when melted
- Sold in 2", 1", and 1/2" thicknesses

Expanded Polystyrene Foam → used in shipping packages

Carved with a blade (hot knife is best)

MDF and Hardboard (Masonite) → used in stage flooring or custom moulding

Made of sawdust and resin pressed

MDF → Medium Density Fiberboard

Moulding: strip of material with a decorative profile typically used to transition from one surface to another

- Profiles → shapes
- Around doors and winsows to finish a look
- Made from wood, PVC, or foom

Polyvinyl Chloride (PVC) Pipes → various diameters

- Typically used for plumbing
- Heated up and bent
- Cut with a saw or PVC pipe cutters

Cuts

Grain → longitudinal arrangement of wood fibers or the pattern

- Along the length of wood (straight, swirly, or squiggly)
- Patterns in the wood

Cross Cut → perpendicular to the grain of wood

- Miter saws, circular saws, and jigsaws are used
- Table saws use an accessory called a SLED to stabilize the wood

Rip Cut → severs / divides a piece of wood parallel to the grain

- Table saws for ripping lumber and plywood
 - Also with a circular or band saw

Mitres & Bevels

- Miter Cut → changing the angle from a cut
 - Adjusted from the front of the saw
- Bevel Cut → changes the vertical angle

Drills

Drills: drill holes into materials

• Longer

Impacts: drive screws into material

• Have a magnet at the back

Shorter