

One-Day Wood as a Raw Material Workshop at Your Mill

How wood is formed in the tree

What is wood

Chemical/molecular makeup

Define “layers” of wood in a tree – pith to the outer bark

Early wood and latewood

Heartwood and sapwood

Juvenile wood and mature wood

Reaction wood and normal wood

How these affect wood product properties

Differences between Softwoods and Hardwoods

Physical differences

How to tell them apart

Why they dry differently

Anisotropic properties of wood

Defects in the tree and defects we cause

Wood – water relationships

Bound and free water

Hygroscopic properties of wood

Stages of wood drying

Calculate moisture content – dry basis and wet basis

Different methods of measuring moisture in wood

Estimate the amount of water in solid wood products

Estimate the amount of energy needed to dry wood

Conditioning – is this important for all wood drying

Equilibrium moisture content

Density and specific gravity – differences and importance

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