Softwood Lumber Classification and Grades

Boards

APPEARANCE GRADES	**SELECTS**	B & Better (IWP – Supreme) C Select (IWP – Choice) D Select (IWP – Quality)	
	FINISH	Supreme Prime E	
	PANELING	Clear (any select or finish grade) No. 2 Common selected for knotty paneling No. 3 Common selected for knotty paneling	
	SIDING (BEVEL BUNGALOW)	Supreme Prime	
BOARDS SHEATHING		No. 1 Common (IWP – Colonial) No. 2 Common (IWP – Sterling) No. 3 Common (IWP – Standard) No. 4 Common (IWP – Utility)	Alternate Board Grades Select Merchantable Construction Standard Utility

Specification Check List

- □ Grades listed in order of quality.
- □ Include all species suited to project.
- □ For economy, specify lowest grade that will satisfy job requirement.
- □ Specify surface texture desired.
- □ Specify moisture content suited to project.
- □ Specify grade stamp. For finish and exposed pieces, specify stamp on back or ends.

Western Red Cedar

Finish Paneling and Ceiling	Clear Heart A B
Bevel Siding	Clear – V.G. Heart A – Bevel Siding B – Bevel Siding C – Bevel Siding

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Dimension

Light Framing 2” to 4” thick 2” to 4” wide	Construction Standard Utility Economy	This category for use when high strength values are ***not*** required; such as studs, plates, sills, cripples, blocking, etc.
	Stud Economy Stud	An optional all-purpose grade limited to 10 feet and shorter. Characteristics affecting strength and stiffness values are limited so that the “Stud” grade is suitable for all stud uses, including load bearing walls.
Structural Light Framing 2” to 4” thick 2” to 4” wide	Select Structural No. 1 No. 2 No. 3 Economy	These grades are designed to fit those engineering applications where higher bending strength ratios are needed in light framing sizes. Typical uses would be for trusses, concrete pier wall forms, etc.
Structural Joists and Planks 2” to 4” thick 6” and wider	Select Structural No. 1 No. 2 No. 3 Economy	These grades are designed especially to fit in engineering applications for lumber six inches and wider, such as joists, rafters, and general framing uses.

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Timbers

Beams & Stringers	Select Structural No. 1 No. 2 (No. 1 Mining) No. 3 (No. 2 Mining)	Posts & Timbers	Select Structural No. 1 No. 2 (No. 1 Mining) No. 3 (No. 2 Mining)

How to Calculate Board Feet

Description

Total Board Feet is equal to the number of pieces, times the thickness, times the width, times the length, all divided by twelve.

Formula

$$B.F. = \frac{\#\ Pcs. \times T \times W \times L}{12}$$