

Lumber Grading Standards



LUMBER GRADE/DEFECT	SELECT STRUCTURAL	#1 STRUCTURAL	#2 STRUCTURAL	#3 STRUCTURAL	CONSTRUCTION LIGHT	STANDARD GRADE	UTILITY GRADE
Checks	Not Limited	Not Limited	Not Limited	Not Limited	Not Limited	Not Limited	Not Limited
Grain	4 rings + per inch	4 rings + per inch	4 rings + per inch	Not Limited	Not Limited	Not Limited	Not Limited
Knots	Up to 3/4" Edge Wide Face, 7/8" Centerline Wide Face, 3/4" Unsound/ Loose Knot per 4'	Up to 1" Edge Wide Face, 1 1/2" Centerline Wide Face, 1" Unsound/ Loose Knot 3'	Up to 1 1/4" Edge Wide Face, 2" Centerline Wide Face, 1 1/4" Unsound/ Loose Knot per 2'	Up to 1 3/4" Edge Wide Face, 2 1/2" Centerline Wide Face, 1 3/4" Unsound/ Loose Knot per 1'	Up to 1 1/2" Anywhere on Wide Face, 1" Unsound/ Loose Knot per 3'	Up to 2" Anywhere on Wide Face, 1 1/4" Unsound/ Loose Knot per 2'	Up to 2 1/2" Anywhere on Wide Face, 1 1/2" Unsound/ Loose Knot per 1'
Pitch	Not Limited	Not Limited	Not Limited	Not Limited	Not Limited	Not Limited	Not Limited
Pitch Pocket/Bark	Not Limited	Not Limited	Not Limited	Not Limited	Not Limited	Not Limited	Not Limited
Shake	Up to 2'	Up to 2'	Up to 3' for 1/4 of Length	Less than 1/3 of Length	Up to 2' in Length	Up to 3' or 1/4 of Length (Whichever is Greater)	Up to 1/3 of Length
Skips	Hit and Miss Maximum of 10%	Hit and Miss Maximum of 10%	Hit and Miss with Heavy Skip Maximum 5% less than 2' in Length	Hit and Miss with Heavy Skip Maximum 10%	Hit and Miss Maximum of 10%	Max 10%	Hit and Miss with Heavy Skip Maximum 10%
Grain Slope	1 in 12	1 in 10	1 in 8	1 in 4	1 in 6	1 in 4	1 in 4
Split	Equal to Width	Equal to Width	Equal to 1 1/2 time Width of board	Equal to 1/6 Length	Equal to Width	Equal to 1 1/2 Width of board	Equal to 1/6 Length
Stain	Less than 10%	Firm Heart Allowed	Not Limited	Not Limited	Firm Heart Allowed	Not Limited	Not Limited
Wane	1/2 Thickness or 1/3 Width for 1/4 of Length	1/2 Thickness or 1/3 Width for 1/4 of Length	2/3 Thickness or 1/2 Width for 1/4 of Length	7/8 Thickness or 3/4 Width for 1/4 of Length	1/2 Thickness or 1/3 Width for 1/4 of Length	2/3 Thickness or 1/2 Width for 1/4 of Length	7/8 Thickness or 3/4 Width for 1/4 of Length
Warp	Light	Light	Light	Medium	Light	Light	Medium
Clear Wood Requirement	At least 80%	At least 75%	At least 66%	At least 50%	At least 57%	At least 43%	At least 29%