

# 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%  |