

**Faces Graded = All faces and both ends - WORST CHARACTERISTIC DETERMINES THE GRADE!**
**Purpose Intended : Strength**

| Grade Name                       | E120<br>Rectangular Cross-Sections<br>45 mm x 90mm / 45mm x 105mm                                                                             | E120<br>Square Cross-Sections<br>90 mm x 90mm / 105mm x 105mm                                                                                  |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Pockets                          | not over 4 square inches                                                                                                                      | not over 5 square inches                                                                                                                       |
| Shake                            | not through - 1/4 length; through - 1/6 length<br>narrow face - 1/2 thickness<br><b>Ring Shake - Not Permitted</b>                            | not through - 1/6 length; through - 1/6 length<br>narrow face - 1/2 thickness<br><b>Ring Shake - Not Permitted</b>                             |
| Skips                            | Hit and Miss - 1.5mm ( 1/16" x 48")                                                                                                           | Hit and Miss - 1.5mm ( 1/16" x 48")                                                                                                            |
| Splits                           | Short - width of piece                                                                                                                        | Short - width of piece                                                                                                                         |
| Slope of Grain                   | 1 in 8                                                                                                                                        | 1 in 8                                                                                                                                         |
| Heartstain                       | Medium                                                                                                                                        | Medium                                                                                                                                         |
| Sapstain                         | Light                                                                                                                                         | Light                                                                                                                                          |
| Wane                             | 10% of face, maximum 1/4 width (Full Length)<br>Maximum 1/4 width x 1/4 length                                                                | 20% of face, maximum 1/4 width (Full Length)<br>Maximum 1/4 width x 1/3 length                                                                 |
| Pin Holes                        | 15 per square foot                                                                                                                            | 30 per square foot                                                                                                                             |
| Grub/Teredo                      | 6 per lineal foot (can be clustered)                                                                                                          | 6 per lineal foot (can be clustered)                                                                                                           |
| White Specks                     | 25% volume                                                                                                                                    | 25% volume                                                                                                                                     |
| Honeycomb                        | Not Permitted                                                                                                                                 | Not Permitted                                                                                                                                  |
| Unsound Wood                     |                                                                                                                                               |                                                                                                                                                |
| Knots - Through                  | Through Knots - Any Quality<br>measure between lines parallel to the edges<br>45mm x 90mm - 50% KAR = 45mm<br>45mm x 105mm - 50% KAR = 52.5mm | Through Knots - Any Quality<br>measure between lines parallel to the edges<br>90mm x 90mm - 60% KAR = 54mm<br>105mm x 105mm - 50% KAR = 52.5mm |
| Spike Knots -<br>Adjacent (open) | <u>Spike Knots (Open Face)</u><br>40% KAR                                                                                                     | <u>Spike Knots (Open Face)</u><br>40% KAR                                                                                                      |
| Knots - Adjacent<br>Width        | Not Applicable                                                                                                                                | <u>Adjacent Face Knots - 60% KAR</u><br>90mm x 90mm = 54mm<br>105mm x 105mm = 63mm                                                             |
| Knots - Group                    | <u>Group Knots - 60% KAR</u><br>45mm x 90mm = 54mm<br>45mm x 105mm = 63mm                                                                     | <u>Group Knots - 60% KAR</u><br>90mm x 90mm = 54mm<br>105mm x 105mm = 63mm                                                                     |
| Holes                            | Holes - 25% KAR - One or equivalent per 600mm<br>45mm x 90mm = 22mm<br>45mm x 105mm = 26mm                                                    | Holes - 25% KAR - One or equivalent per 600mm<br>90mm x 90mm = 22mm<br>105mm x 105mm = 26mm                                                    |
| Slough Knots                     | 25% KAR                                                                                                                                       | 1/4 Width                                                                                                                                      |
| Heart Centers                    | Dry - <b>not restricted</b> - Green = <b>less than 20% of pieces</b>                                                                          | Dry - <b>not restricted</b> - Green = <b>less than 20% of pieces</b>                                                                           |
| Rate of Growth                   | 3 rings per inch                                                                                                                              | 4 rings per inch                                                                                                                               |
| Bow / Crook                      | 0.4% of length                                                                                                                                | 0.4% of length                                                                                                                                 |
| Twist                            | 0.2% of length                                                                                                                                | Not Permitted                                                                                                                                  |

