Wood Flexural Test Report Requirements:

In addition to General Lab Requirements

LM1 – WOOD STATIC BENDING TESTS - Summary of Results

Important: In the report body, describe the strength properties and rupture patterns and how they differ between white and yellow pine.

Include the following for both white pine and yellow pine samples:

1) Bending Strength
   a) Long beam
      i) specimen dimensions (span length, width, depth) (in)
      ii) cross-sectional area (in²)
      iii) moment of inertia (in⁴)
      iv) maximum load before rupture (lbf)
      v) maximum bending moment (in*lbf)
      vi) deflection at maximum load (in)
      vii) description of rupture pattern
   b) Short beam
      i) specimen dimensions (span length, width, depth)
      ii) cross-sectional area (in²)
      iii) maximum load before rupture (lbf) (ignore it, if the sample was not failed)
      iv) maximum bending moment (in*lbf) (ignore it, if the sample was not failed)
      v) deflection at maximum load (in) (deflection at a given load, if the sample was not failed)
   c) Modulus of Elasticity, E (psi)
   d) Shear Modulus, G (psi)

2) Graphics
   a) Load vs. deflection for long beam flexural strength
   b) Load vs. deflection for short beam flexural strength