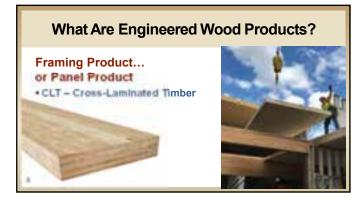
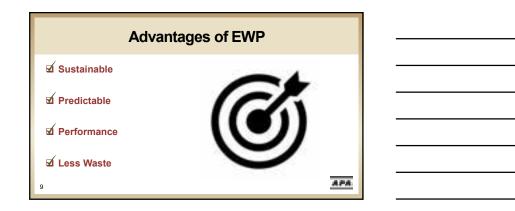
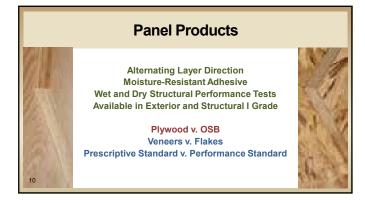


What Are Engineered Wood Products? Panel Products WSP – Wood Structural Panels Plywood OSB – Oriented Strand Board Siding Specialty Panels Radiant Barrier Formwork Industrial Panels Overlaid Panels APA OSB used as fire rated sheathing

What Are Engineered Wood Products? Framing Products I-Joists SCL - Structural Composite Lumber PSL - Parallel Strand Lumber LVL - Laminated Veneer Lumber LSL - Laminated Strand Lumber OSL - Oriented Strand Lumber Glulam - Glued Laminated Timber



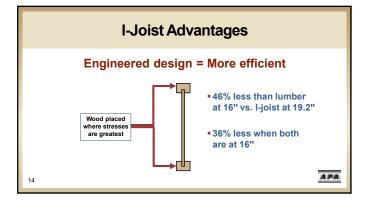






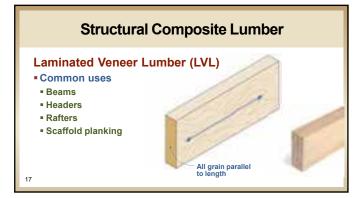


Framing Products I-Joists SCL – Structural Composite Lumber LVL – Laminated Veneer Lumber LSL – Laminated Strand Lumber OSL – Oriented Strand Lumber PSL – Parallel Strand Lumber Glulam – Glued Laminated Timber

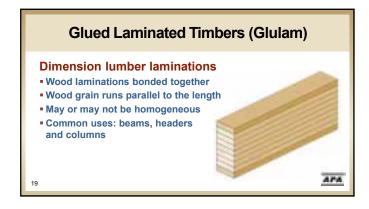




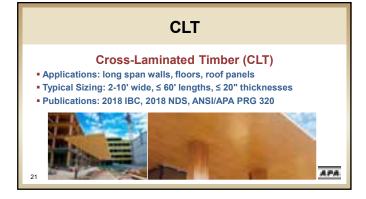




Structural Composite Lumber Laminated Strand Lumber (LSL) Flaked strand length-to-thickness ratio is around 150 Common uses: studs and headers Oriented Strand Lumber (OSL) Flaked strand length-to-thickness ratio is around 75 Common uses: studs



LVL Hybrid Glulam with LVL Outer Laminations Full length with no finger joints required LVL has greater tensile strength compared to lumber 30F-2.1E stress level achieved Direct substitute for many SCL products



CLT Panels Cross-laminated timber (CLT) is a large-scale, prefabricated, solid engineered wood panel. Lightweight & strong Excellent acoustic, fire, seismic and thermal performance Easy to install Little site waste Green product & Biophilia effect Alternative to concrete, masonry or steel

Code Recognized

Proprietary vs Non-Proprietary

- Lab Tested
- Lab Tested
- ES Reports
- Code Design Values
- I-Joists
- Plywood
- Structural Composite Lumber (SCL)
- Oriented Strand Board
- Glulam
- Cross-Laminated Timber (CLT)

23



APA Specification Resources

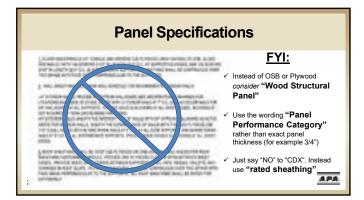
APA Engineered Wood Construction Guide, Form E30

- Free PDF download
- Nominal cost for hard copy
- The single "go to" document for all engineered wood products
- www.apawood.org

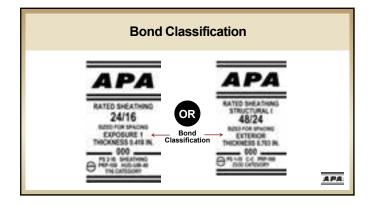
24

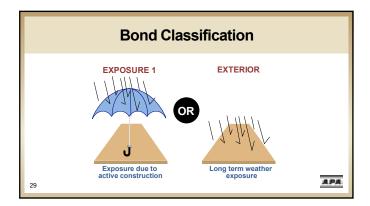


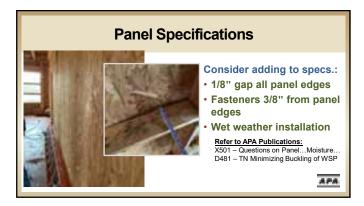
Panel Specifications Refer to APA Engineered Wood Construction Guide, Form E30 OSB Plywood Concrete Formwork Exposure 1 vs Exterior explained



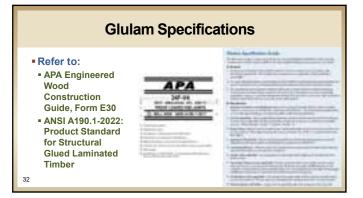
When specifying panels, designate: grade, span rating, bond classification, dimensions (thickness, width x length), edge, APA trademark. Out of Date Specifications 1/2" CDX - C & D veneers, with exterior glue (when panels were made with interior & exterior glue) Previous Specifications 15/32" APA Rated Sheathing, 32/16, Exposure 1 New Terminology www.apawood.org/apa-trademark 15/32 Performance Category, APA Rated Sheathing, 32/16, Exposure 1, nominal 4'x8' (either T&G for tongue and groove or square edge)



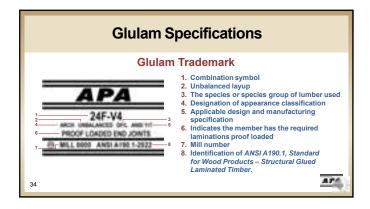


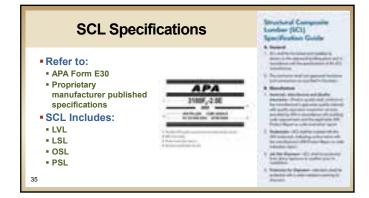


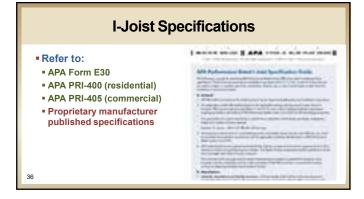




Glulam Specifications Glulam Beam Combination Symbols 1. Allowable Design Stress 2. Appearance Classification 3. Grading = Visual (V) or Mechanical (E) 4. Assigned combination number of lumber used to assign the design stresses • Shear, Modulus of Elasticity, etc. 5. Wood Species: Commonly DF or SP Common Beam Combinations: • 24F-V4/DF or 24F-V8/DF - F_{bx} = 2,400 psi, or Combination 2/DF - F_{bx} = 1,700 psi • 24F-V3/SP or 24F-V5/SP - F_{bx} = 2,400 psi, or Combination 47/SP - F_{bx} = 1,400 psi • High strength 30F-E1/SP or 30F-E2/SP - F_{bx} = 3,000 psi









APA Product Reports Report indicates that product meets the intention of the listed codes when used as stated and within the specified limitations. Design properties are included. Available for download at www.apawood.org





