

## **Carpentry & Building Construction**

### **Chapter 13 Engineered Wood**

#### **Section 13.1 Assessment Answers**

1. Sheathing, subflooring and concrete forms.
2. A veneer core is made of thick wood veneer. A lumber core consists of strips of lumber bonded together. A particleboard core is commonly used for cabinet doors because it is very stable.
3. To create different patterns and effects.
4. Clamp a scrap piece of plywood beneath the area to be drilled. Drill through the top piece and into the scrap.
5. Reports will vary.

#### **Section 13.2 Assessment Answers**

1. Plywood is made from layers of wood veneer glued together. Composite panel products are made from pieces of wood mixed with adhesive and formed under pressure into uniform sheets.
2. Fiberboard's smooth finish, along with its stability, make it desirable for use as siding. It is available as lap siding as well as in shingle siding patterns.
3. LVL products are used for beams, headers, joists, and rafters.
4. I-joists are most often used in floor construction to support subflooring. They can also be used in place of rafters in roof construction.
5.  $24 \times 2" \times 10" \times 22' = 880$  board feet

#### **Section 13.3 Assessment Answers**

1. Answers include garage door headers, patio door headers, carrying beams, window headers, and exposed stair stringers.
2. It is always straight. It can be sawed and nailed exactly like solid lumber. It makes use of short pieces of wood that would be wasted otherwise. It is available in longer lengths than standard lumber.
3. Certified exterior joints; certified glued joints.
4. Parallel-strand lumber (PSL) is made from ribbons of wood veneer glued together. Laminated-strand lumber is made of wood strands glued together and cut to uniform dimensions.
5. Summaries will vary.