

Part 1–General

1.0–Description:

- A. Work in this section includes, but is not limited to: Advanced Framing Lumber (AFL) joists, rafters, beams and studs.
- B. Related work specified elsewhere: Rough carpentry.

1.1–Submittals:

- A. Product data:
Submit manufacturer's descriptive literature indicating material composition, thicknesses, dimensions, loading and fabrication details.
- B. Shop drawings:
Submit manufacturer's literature indicating installation details. Include locations and details of bearing, blocking, bridging and cutting for work by others.

1.2–Quality Assurance:

- A. Certification:
onCENTER AFL complies with, or is a suitable alternative to, the requirements of IBC Chapter 23 and IRC Chapter 5, 6, and 8 (TER No. 1211-01, DrJ Engineering, LLC).
- B. Ongoing:
onCENTER AFL is manufactured under a third-party quality control program in accordance with IRC Section R104.4 and R109.2 and IBC Section 104.4 and 110.4.

1.3–Delivery, Storage and Handling:

- A. Delivery:
Deliver materials to the job site in manufacturer's original packaging, containers and bundles with manufacturer's identification intact and legible.
- B. Storage and handling:
Store and handle materials to protect against contact with damp and wet surfaces, exposure to weather, breakage and damage. Provide air circulation under covering and around stacks of materials.

1.4–Limitations:

- A. Cutting:
Except for cutting to length, onCENTER AFL joists, rafters, beams, and studs shall not be cut, drilled or notched, except as noted in manufacturer's literature.
- B. Moisture conditions:
onCENTER AFL is for use in covered, dry-use conditions only (moisture content less than 16%).

Part 2–Products

2.0–Prefabricated joists, rafters, beams, and studs:

- A. Acceptable products: 2.1E, 1.9E, 1.7E, and 1.6E
 - 1. onCENTER AFL floor joists and roof rafters
 - 2. onCENTER AFL wall studs
 - 3. onCENTER AFL truss chords

- B. Characteristics:
 - 1. Construction:
Segments of 1½" thick black spruce lumber assembled with a double tongue-and-groove edge along the length of the member and finger joints across the width of the member. All joints are adhered with waterproof and heat-resistant adhesive.
 - 2. Member depths as required for loading, deflection and span:
3½", 5½", 7¼", 9¼", 9½", 11¼", 11⅞", 14", and 16"
 - 3. Member length:
As required for span and bearing.

2.1–Accessories:

- A. Fasteners:
10d box nails, 12d pneumatic nails, 16d common nails, approved structural screws, or ½" bolts.
- B. Hangers:
Contact BlueLinX or an engineer for acceptable connectors.

Part 3–Execution

3.0–General:

- A. Provide onCENTER AFL joists, rafters, beams and studs where indicated on drawings using hangers and accessories specified.
- B. Install onCENTER AFL joists, rafters, beams, and studs in accordance with manufacturer's recommendations.

3.1–Accessories:

- A. Install accessories where indicated and in accordance with manufacturer's instruction.