

# BLI JOIST ARCHITECTURAL SPECIFICATIONS

## Part 1—General

### 1.0—Description:

- A. Work in this section includes, but is not limited to:  
Prefabricated onCENTER BLI 40, BLI 60, BLI 80, BLI 90, BLI 400, BLI 700, and BLI 900 ceiling, floor, and roof joists with enhanced OSB webs and lumber flanges.
- 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 or installation guide: Manufacturer's literature indicating installation details. Include locations and details of bearing, blocking, bridging, and cutting and drilling of webs for work by others.

### 1.2—Quality Assurance:

- A. Certification: All onCENTER BLI joists have been qualified to ASTM D 5055 by APA-The Engineered Wood Association.

### 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 brand name and 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. Individual joists shall be handled in the upright position.

### 1.4—Limitations:

- A. Loads: Concentrated loads shall not be applied to the bottom flange.
- B. Cutting: Except for cutting to length and birdsmouth cuts, top and bottom flanges of Wood I Beam floor and roof joists shall not be cut, drilled or notched.
- C. onCENTER BLI joists are for use in covered, dry-use conditions only (moisture content less than 16%).

## Part 2—Products

### 2.0—Prefabricated Joists:

- A. Acceptable products:
  1. onCENTER BLI 40
  2. onCENTER BLI 60
  3. onCENTER BLI 80
  4. onCENTER BLI 90
  5. onCENTER BLI 400
  6. onCENTER BLI 700
  7. onCENTER BLI 900
- B. Characteristics:
  1. Flanges:
    - a. BLI 40 (2½")

- b. BLI 60 (2½")
- c. BLI 80 (3½")
- d. BLI 90 (3½")
- e. BLI 400 (2<sup>5</sup>/<sub>16</sub>")
- f. BLI 700 (2<sup>5</sup>/<sub>16</sub>")
- g. BLI 900 (3½")

2. Webs: ⅜" minimum thickness OSB web.
3. Beam depths as required for loading, deflection, and span:
  - a. BLI 40 (9½", 11⅞", 14", and 16")
  - b. BLI 60 (11⅞", 14", 16" and 18")
  - c. BLI 80 (11⅞", 14", 16" and 18")
  - d. BLI 90 (11⅞", 14", 16" and 18")
  - e. BLI 400 (9½" and 11⅞")
  - f. BLI 700 (11⅞", 14", and 16")
  - g. BLI 900 (11⅞", 14", and 16")
4. Beam length as required for span and bearing.

### 2.1—Accessories:

- A. Nails: 8d, 10d, and 12d box, sinker, and common nails.
- B. Bracing and blocking:
  1. Bearing stiffeners: 2x4 or combination of ⅝", ½" or ⅝" plywood or OSB.
  2. Band joists and continuous closure at load-bearing walls: per standard approved onCENTER BLI details.
  3. Lateral support at intermediate bearing of multiple span joists: onCENTER BLI blocking.
- C. Joist hangers:
  1. Model numbers are shown for United Steel Products and Simpson Strong-Tie® connectors. Contact BlueLinX for other acceptable connectors.

## Part 3—Execution

### 3.0—General:

- A. Provide onCENTER BLI floor and roof joists where indicated on drawings using hangers and accessories specified.
- B. Install onCENTER BLI joists in accordance with manufacturer's recommendations.
- C. Install and brace onCENTER BLI floor and roof joists to prevent dominoing of system and buckling of top flange.

### 3.1—Accessories:

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