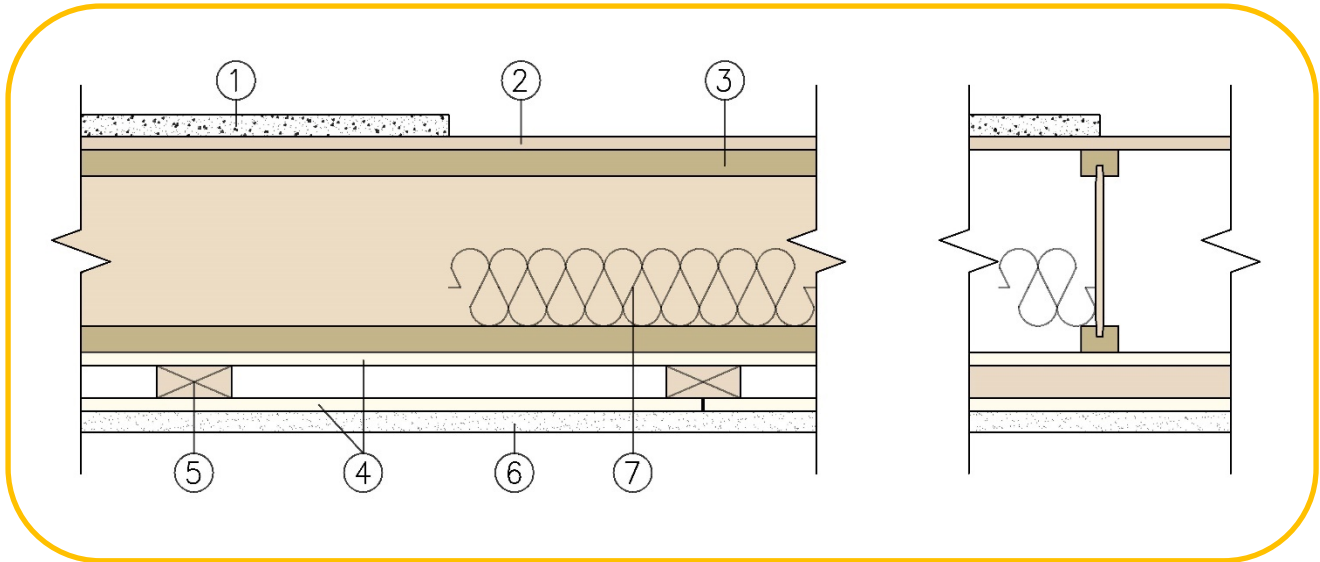


**Weyerhaeuser NR Company
Design No. WNR/FCA 120-01**

**Wood I-Joist
TJI® Joists**

ASTM E119, CAN/ULC S101

Rating: 2 hours, STC 54 with Minimum 1-1/2 in. Topping



1. Topping (Optional): Lightweight concrete or proprietary topping.

2. Sub-Flooring: Minimum 5/8 in. tongue and groove plywood or oriented strandboard (OSB) designed and installed per Code requirements. Square-edge panels are permitted when topping is used.

3. Structural Members: I-Joist structural member

A. **CERTIFIED PRODUCT:** Weyerhaeuser NR Company, TJI® Joists Series: TJI 110, TJI 210, TJI 230, TJI 360, TJI 560, TJI 560D

Minimum depth: 9-1/2 in., maximum spacing: 24 in. oc.

B. Code Compliant Weyerhaeuser Timberstand LSL, Microllam LVL, or Parallam PSL Certified to ASTM D5456:

Minimum thickness: 1.5 in. Minimum depth: 9-1/2 in. Maximum spacing: 24 in. oc.

4. Gypsum Board: Two layers, 5/8 in. Type X. Maximum board width is 48 in.

Base layer installed with long dimension perpendicular to joists, end joints centered on joists. Attached to joists with minimum 1-5/8 in. Type W Screws.

Second layer installed with long dimension perpendicular to furring, end joints centered on furring. Attached to furring with minimum 1-5/8 in. Type W screws.



All base and second layer joints to be staggered.
All gypsum board screws spaced 8 in. oc, located 1-1/2 in. from side joints and 3/4 in. from end joints.

- 5. Wood Furring:** 2 x 4 lumber, minimum Standard & Better grade, placed perpendicular to joists, spaced maximum 24 in. oc, and attached to each joist with one minimum 3 in. Type W screw.

- 6. Ceiling Finish:** Gypsum sand plaster, minimum 1.0 in. thick on 3/8 in. thick self-furring Riblath

or equivalent, attached to 2 x 4 wood furring with 11-gauge barbed roofing nails engaging 2 strands or a rib at 6 in. oc along support. Nails to penetrate 3/4 in. minimum into wood furring. Minimum 1/2 in. side lap and 1.0 in. end lap.

- 7. Insulation (Optional):** Maximum 6 in. fiberglass or mineral wool batt insulation, friction fit between webs, and supported using wires ever 16 in.

Consult the listing report on the Directory of Building Products (<https://bpdirectory.intertek.com>) for the edition of the standard(s) evaluated.

Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.