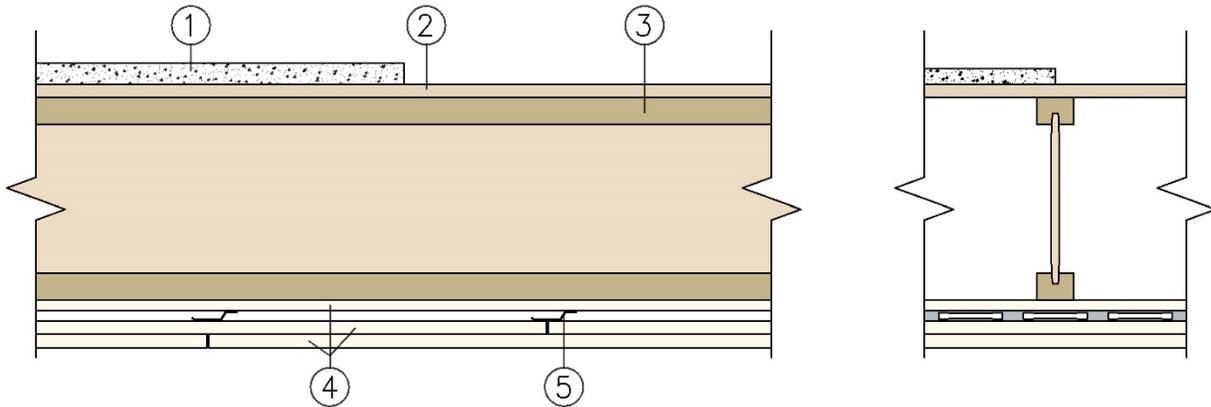


Weyerhaeuser NR Company
Design No. WNR/FCA 90-01
Wood I-Joists
TJI® Joists
ASTM E119, CAN/ULC S101
Rating: 1-1/2 Hour
STC 54 with Minimum 1-1/2 in. Topping



1. **TOPPING (Optional):** Lightweight concrete or proprietary topping.

Min. thickness: 1.5 in., Min. depth: 9-1/2 in.,
Max. spacing: 24 in. oc.

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

4. **GYPSTUM:** Max. board width is 48 in. Exposed joints to be taped and filled. Exposed screw heads to be filled.

3. **STRUCTURAL MEMBERS:** Wood I-Joists

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

Min. depth: 9-1/2 in., Max. spacing: 24 in. on center (oc).

One base layer, min. 1/2 in. Type X, installed with long dimension perpendicular to joists, end centered on joists. Attached with Type W screws, spaced 8 in. on intermediate and end supports. Screws located 1-1/2 in. from side joints and 3/4 in. from end joints. Screws must penetrate min. 1 in. into wood member.

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

Face and middle layers, both min. 5/8 in. Type X, installed perpendicular to furring channels, with end joints centered on channel. All middle and face layer joints to be staggered. Screws spaced 8 in. oc, located 1-1/2 in. from side joints and 3/4 in. from end joints. 1 in. screws required for middle layer. 1-5/8 in. screws required for face layer.



5. **STEEL FURRING CHANNEL:** 0.019 in. or thicker galvanized steel resilient channels, or 0.0179 in. or thicker galvanized steel hat channels (not shown), installed at 16 in. oc and attached to each joist with min. 1-7/8 in. Type W Screws.

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.