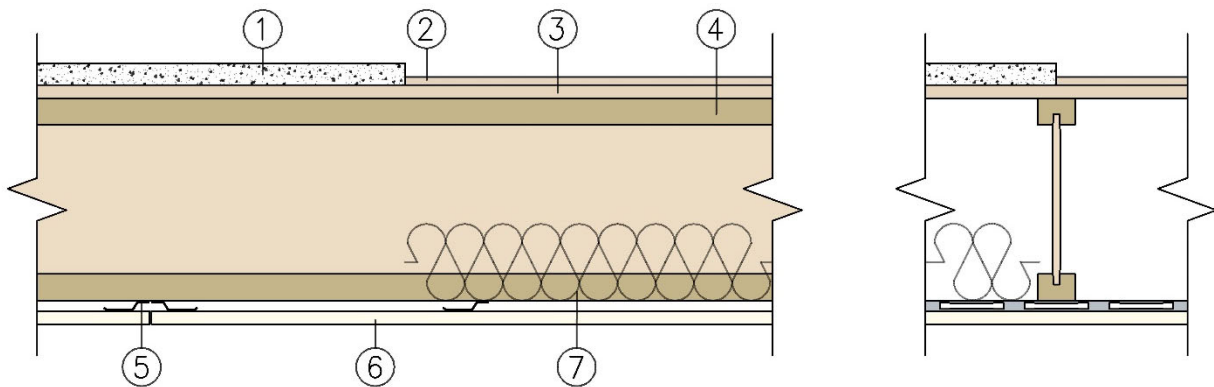


Weyerhaeuser NR Company
Design No. WNR/FCA 45-06
Wood I-Joists
TJI® Joists
ASTM E119, CAN/ULC S101
Rating: 3/4 Hour

STC 50 with Insulation and Resilient Channels STC 57 with Min. 1-1/2 in. of Topping & Resilient Channels



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

2. FLOORING (Optional): 3/8 in. wood panel sheathing.

3. SUB-FLOORING: Minimum 19/32 in. tongue and groove plywood or oriented strand board (OSB) designed and installed per Code requirements. Square-edge panels are permitted when optional topping or optional flooring is used.

4. STRUCTURAL MEMBERS: Wood I-Joist

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. on center (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.

5. STEEL FURRING CHANNELS: 0.019 in. or thicker galvanized steel resilient channels, maximum spacing 16 in. oc, fastened to each joist with one 1-1/4 in. Type W screw. For the attachment of gypsum board end joints, additional channels are placed such that each board end is supported by its own channel. These additional channels extend to the next joist on each side of the board edges.

6. GYPSUM: 5/8 in. Georgia Pacific "Fire-Shield G, Type X", Westroc "Fireboard C" or USG/CGC "Sheetrock, Fire Code C" gypsum board. Maximum board width is 48 in. Joints to be taped and filled. Screw heads to be filled.



Applied to furring channels with long edge perpendicular to channels and located midway between joists. End joints staggered. Gypsum board fastened to channels with 1 in. Type S screws with two rows located 3/4 in. and 6 in. away from long edge and the remainder spaced 12 in. oc along channel. Screws located 1-1/2 in. from end joints

- 7. FIBERGLASS BATT INSULATION (Optional when resilient channel is used):** 3-1/2 in. thickness, friction fit between flanges.

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.