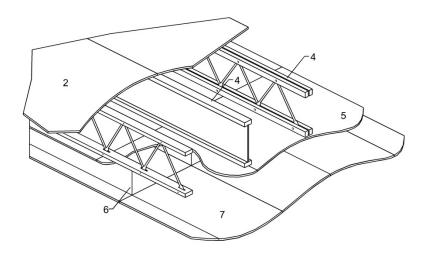
Design Number RBL/SFWT 60-07 REDBUILT OPEN-WEB TRUSS & RED-I JOIST SERIES

RedBuilt LLC
ASTM E119 and CAN/ULC S101
Load Bearing Fire Resistance Rated Roof/Ceiling, Floor/Ceiling Assembly
60-Minute Rating



- 1. FLOOR TOPPING (Optional, not shown): Gypsum concrete, lightweight or normal concrete topping. When used as a roof assembly, materials for a built-up roof covering that are described in an assembly that provides a Class A, B, or C rating on combustible wood decks may be used.
- 2. FLOOR SHEATHING: Min. 5/8 in. thick wood sheathing, designed and installed per code requirements. When used as a roof assembly, min. 1/2 in. thick wood sheathing may be used, when designed and installed per code requirements.
- 3. INSULATION (Optional, not shown): Installed in the cavity between the joists. When installed, insulation shall be supported by stay wires spaced a min. of 12 in. On Center (oc)..
- 4. CERTIFIED COMPANY: RedBuilt LLC

CERTIFIED PRODUCT: Shop fabricated wood trusses

CERTIFIED MODELS:

RED-I JOIST SERIES: RED-I45L, RED-I53, RED-I58, RED-I45, RED-I65, RED-I90, RED-I90H and RED-I90HS.

OPEN-WEB TRUSS SERIES: RED-L, RED-W, RED-S, RED-M and RED-H.

Min. 9-1/4 in. deep joists spaced a max.of 24 in. oc. Installed in accordance with the Code. The max. spacing may be increased to 48 in. oc when the ceiling is applied to stripping spaced a max. of 24 in. oc. The stripping must be a nominal 2 by 4, construction-grade lumber attached to the joists bottom flange using two 10d nails.

5. CEILING MEMBRANE (Directly attached to joists): The ceiling membrane must be installed perpendicular to the joists (or stripping) and must consist of a single layer of min.1/2 in. thick, Type X gypsum board. The gypsum board is fastened using 1-5/8 in. long, Type S screws spaced 6 in. oc at the edges and 8 in. oc in the field.

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- 6. SUSPENDED SYSTEM: The panels shall be supported by a fire-resistance-rated suspension system, listed for use with assemblies utilizing wood framing for a time period equal to or greater than this assembly rating. The distance from the bottom of the joists to the suspended ceiling must be a min, of 12 in..
- 7. SUSPENDED CEILING: The suspended ceiling panels shall be min. 5/8 in. thick, 2 ft. X2 ft. or 2 ft. X 4 ft., USG FIRECODE AURATONE lay-in acoustical board.
- 8. LIGHT FIXTURES (Optional, not shown): Max. size 2 ft. X 4 ft. are permitted to be installed in the ceiling, provided the aggregate area of fixtures does not exceed 12 square ft. per 100 square ft. of ceiling area.
- 9. RETURN AIR DUCT (Optional, not shown): A galvanized steel duct is permitted for each 200 square ft. of ceiling, provided the duct ha a max. 12 in. diameter steel diffuser opening without a damper, and a max. 6 in. by 12 in. return air opening.
- 10. FIXTURE PROTECTION (Not shown): A galvanized steel duct is permitted for each 200 square feet of ceiling, provided the duct ha a max. 12 in. diameter steel diffuser opening without a damper, and a max. 6 in. X 12 in. return air opening.

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