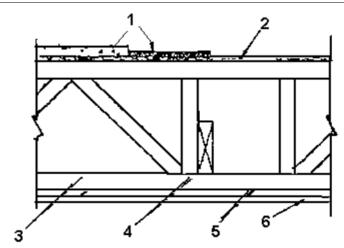
Design Number BS/SFWT 60-06 OPEN JOIST 2000® JOIST SERIES

By Barrette Structural Inc.
ASTM E119 and CAN/ULC S101
Load Bearing Fire Resistance Rated Roof/Ceiling, Floor/Ceiling Assembly
1-Hour Fire Rating



Acoustic Performance for 11-7/8 in. Depth Joist

Required Components	STC	IIC
With carpet, pad and insulation	53	72
With carpet, pad without insulation	52	67
With vinyl flooring and insulation	53	50
With vinyl flooring without insulation	52	
Bare Gypcrete and insulation	53	
Bare Gypcrete without insulation	52	

Note

- Carpet and pad are 37 oz., 7/8 in. carpet with woven polypropylene backing and 40 oz. felt pad
- Vinyl flooring: Armstrong Starstep
- 3/4 in. Gypcrete 2000
- **1. FLOOR TOPPING (Optional):** Gypsum concrete, lightweight or normal concrete topping.
- **2. SUB-FLOORING:** Min. 5/8 in. thick plywood or OSB or equivalent.
- **3. CERTIFIED MANUFACTURER:** Barrette Structural Inc.

CERTIFIED PRODUCT: Open Joist Series

CERTIFIED MODEL: Open Joist 2000®

Open Joist 2000®, 9-1/4 in. min. depth, installed up to 24 in. oc, with structural

- graded nominal 2 x 3 or 2 x 4 chords per NLGA grading rules. Structural member should bear the Intertek certification mark.
- **4. BRIDGING:** Continuous 2 x 4 lumber nailed to the bottom chord and the sides of the diagonals with 2 in. long nails at 7 ft. oc.
- 5. RESILIENT CHANNEL (Optional): Min. 0.019 in. thick galvanized steel resilient channel attached perpendicular to the bottom flange of the I-joists with 1-1/4 in. drywall screw. Channels spaced a max. of 16 in. oc (24 in. oc when I-joists are spaced a max. of 16 in. oc).

Date Revised: November 19, 2015 Project No. G102283294



- 6. GYPSUM BOARD: Two layers of min. 1/2 in. thick Type X gypsum wallboards attached with the long dimension perpendicular to the resilient channels or joists as follows:
 - A. WALLBOARD BASE LAYER Base layer of wallboard attached to resilient channels or joists using 1-1/4 in. Type S drywall screws at 12 in. oc. When the resilient channels are installed, edge joints shall be centered between joists. End joints of wallboard staggered a min. of one channel or joist spacing.
 - B. WALLBOARD FACE LAYER Face layer of wallboard attached to resilient channels or joists through base layer using 1-5/8 in. Type S drywall screws spaced 12 in. oc. Edge joints of wallboard face layer offset a distance equal to the joist spacing from those of

- base layer. End joints shall be offset from base layer joints by a min. of one channel or joist spacing. Additionally, wallboard face layer attached to base layer with 1-1/2 in. Type G drywall screws spaced 8 in. oc, placed 1-1/2 in. from face layer end joints.
- 7. INSULATION (Optional, Not Shown): When installed, insulation shall be installed above the joist flanges and supported by stay wires spaced 12 in. oc.
- FINISH SYSTEM (Not Shown): Face layer joints covered with tape and coated with joint compound. Screw heads covered with joint compound.