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JMW Truss LLC  
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San Diego, California 92127

RESEARCH REPORT: RR 25766  
(CSI # 09260)

Attn: Richard D. Wilson  
(760) 774-0745

Expires: March 1, 2020  
Issued Date: February 1, 2018  
Code: 2017 LABC

**GENERAL APPROVAL** – Renewal and Clerical Modification - JMW Green Floor  
Truss 1-Hour Fire Rated and Sound Rated Floor-Ceiling Assembly.

**DETAILS**

Assemblies 1 thru 9 meet or exceed the Sound Transmission Class of 50 (STC50) and the Impact Insulation Class of 50 (IIC50).

**Sound Rated Floor-Ceiling Assembly 1**

**Structural Member:** Parallel Chord Truss (457 mm. (18 in.) high spaced at 24 inches on center

**Sub-floor:** 18 mm (23/32 in.) tongue and groove APA rated Sturd-I-Floor plywood attached using 51 mm. (2in.) steel screws spaced at 305 mm. (12 in.).

**Insulation:** A layer of 89 mm. (3.5 in.) thick by 610 mm. (24 in.) wide unfaced R-11 fiberglass SAFB insulation in the cavities of the joist.

**Ceiling Fasteners:** 22 mm. (0.875 in.) deep by 65 mm. (2.56 in.) wide, 25 gauge roll formed furring channel (hat track) and Resilient Sound Isolation Clips RSIC-1

**Ceiling:** 16 mm. (0.625 in.) thick, USG Firecode "C" Type-X gypsum board (joist taped and finished with 2 coats of compound)

**Underlayment:** 6 mm. (0.25 in.) ceramic tile mortar set over 25 mm (1 in.) thick lightweight gypsum concrete poured on a 0.71 mm (0.028 in.) thick damp proofing membrane.

**Toppings:** 100% PET Polyester 11 mm. (0.438 in.) tick Carpet over 6 pcf, 10 mm. (0.4 in.) thick Pad. **(STC 60, IIC 74)**

RR 25766  
Page 1 of 6

### **Sound Rated Floor-Ceiling Assembly 2**

<b>Structural Member:</b>	Parallel Chord Truss (457 mm (18 in.) high spaced at 24 inches on center)
<b>Sub-floor:</b>	18 mm (23/32 in.) tongue and groove APA rated Sturd-I-Floor plywood attached using 51 mm (2in.) steel screws spaced at 305 mm. (12 in.).
<b>Insulation:</b>	A layer of 89 mm (3.5 in.) thick by 610 mm. (24 in.) wide unfaced R-11 fiberglass SAFB insulation in the cavities of the joist.
<b>Ceiling Fasteners:</b>	22 mm. (0.875 in.) deep by 65 mm. (2.56 in.) wide, 25 gauge roll formed furring channel (hat track) and Resilient Sound Isolation Clips RSIC-1
<b>Ceiling:</b>	16 mm. (0.625 in.) thick, USG Firecode "C" Type-X gypsum board (joist taped and finished with 2 coats of compound)
<b>Underlayment:</b>	6 mm (0.25 in.) ceramic tile mortar set over 25 mm (1 in.) thick lightweight gypsum concrete poured on a 0.71 mm (0.028 in.) thick damp proofing membrane.
<b>Toppings:</b>	Ceramic tile. <b>(STC 60, IIC 53)</b>

### **Sound Rated Floor-Ceiling Assembly 3**

<b>Structural Member:</b>	Parallel Chord Truss (18 inches high spaced at 24 inches on center)
<b>Sub-floor:</b>	¾ in thick OSB
<b>Insulation:</b>	3.5 in. of fiberglass insulation into the top cavities.
<b>Ceiling Fasteners:</b>	Dietrich RC Deluxe resilient channels spaced 16 inches on center.
<b>Ceiling:</b>	5/8 inch Type-X gypsum board (taped and finished with 2 coats of compound)
<b>Underlayment:</b>	Nominal 1.0 in. thick Firm Fill gypsum concrete concrete¾ inch thick gypcrete 2000
<b>Toppings:</b>	Bare Gypsum – No finished flooring-Quite Qurl 55 025 MC acoustical mat <b>(STC 54, IIC 51)</b>

### **Sound Rated Floor-Ceiling Assembly 4**

<b>Structural Member:</b>	Parallel Chord Truss (18 inches high spaced at 24 inches on center)
<b>Sub-floor:</b>	¾ in thick OSB
<b>Insulation:</b>	3.5 in. of fiberglass insulation into the top cavities.

**Ceiling Fasteners:** Dietrich RC Deluxe resilient channels spaced 16 inches on center.  
**Ceiling:** 5/8 inch Type-X gypsum board (taped and finished with 2 coats of compound)  
**Underlayment:** Nominal 1.0 in. thick Firm Fill gypsum concrete concrete<sup>3</sup>/<sub>4</sub> inch thick gypcrete 2000  
**Toppings:** Quite Qurl 55 025 MC acoustical mat  
Mohawk Engineer Hardwood flooring (15/32 in. thick) over 2 mm. thick Step Soft rubber underlayment (glue down applicable). **(STC 54, IIC 54)**

### **Sound Rated Floor-Ceiling Assembly 5**

**Structural Member:** Parallel Chord Truss (18 inches high spaced at 24 inches on center)  
**Sub-floor:** <sup>3</sup>/<sub>4</sub> in thick OSB  
**Insulation:** 3.5 in. of fiberglass insulation into the top cavities.  
**Ceiling Fasteners:** Dietrich RC Deluxe resilient channels spaced 16 inches on center.  
**Ceiling:** 5/8 inch Type-X gypsum board (taped and finished with 2 coats of compound)  
**Underlayment:** Nominal 1.0 in. thick Firm Fill gypsum concrete concrete<sup>3</sup>/<sub>4</sub> inch thick gypcrete 2000  
**Toppings:** Quite Qurl 55 025 MC acoustical mat  
Congeleum Commercial Tile Flooring (12 in. square by 1/8 in. thick) (glue down applicable) **(STC 54, IIC 53)**

### **Sound Rated Floor-Ceiling Assembly 6**

**Structural Member:** Parallel Chord Truss (18 inches high spaced at 24 inches on center)  
**Sub-floor:** <sup>3</sup>/<sub>4</sub> in thick OSB  
**Insulation:** 3.5 in. of fiberglass insulation into the top cavities.  
**Ceiling Fasteners:** Dietrich RC Deluxe resilient channels spaced 16 inches on center.  
**Ceiling:** 5/8 inch Type-X gypsum board (taped and finished with 2 coats of compound)  
**Underlayment:** Nominal 1.0 in. thick Firm Fill gypsum concrete concrete<sup>3</sup>/<sub>4</sub> inch thick gypcrete 2000

**Toppings:** Quite Qurl 55 025 MC acoustical mat  
Antica Ceramic Tiles (12 in. square by 5/16 in. thick) installed  
with Latex Modified Thin Set and grouted (24 hour curing time)  
**(STC 54, IIC 53)**

### **Sound Rated Floor-Ceiling Assembly 7**

**Structural Member:** JMW Green Floor Truss ® Parallel Chord Floor Truss 12 inch  
(11.25 in.) thru 18 inch (18.0 in.) depth at 24 inch on center.

**Sub-floor:** 23/32 inch (0.72 in.) T&G OSB fastened with 6d ring shanked  
nails 12 inch on center.

**Insulation:** **OPTIONAL** – 3.5 inch thick by 24 inch wide unfaced R-11  
fiberglass insulation.

**Ceiling Fasteners:** 25 gauge (0.022 in.) thick Resilient Channels (aka Hat Track)  
space 16 inch on centers.

**Ceilings:** One Layer 5/8 inch (0.625in.) thick USG 5/8" SHEETROCK ®  
Brand FIRECODE ® "C" Type X gypsum Board.

**Underlayment:** **OPTIONAL** – ¼ (0.25in) thick insulation material

**Toppings:** 1.5 inch thick Light Weight Concrete

**Floor coverings:** (0.438in.) thick Carpet with (0.4in.) thick Pad or  
(0.138 in.) thick Vinyl/Linoleum

### **Sound Rated Floor-Ceiling Assembly 8**

**Structural Member:** JMW Green Floor Truss ® Parallel Chord Floor Truss 12 inch  
(11.25 in.) thru 18 inch (18.0 in.) depth at 24 inch on center.

**Sub-floor:** 23/32 inch (0.72in.) T&G OSB fastened with 6d ring shanked nails  
12 inch on center.

**Insulation:** 3.5 inch thick by 24 inch wide unfaced R-11 fiberglass insulation

**Ceiling Fasteners:** 25 gauge (0.022in.) thick Resilient Channels space 16 inch on  
centers.

**Ceilings:** One Layer 5/8 inch (0.625in.) thick USG 5/9" SHEETROCK ®  
Brand FIRECODE ® "C" Type S gypsum Board

**Underlayment:** ¼ inch (0.25 in) thick insolation material  
**Toppings:** 1.5 inch thick Light Weight Concrete

**Floor coverings:** Bare Concrete or  
(0.25in.) thick Ceramic Tile embedded in (0.375in.) thin set mortar  
or  
(.0375 in.) Engineered Wood Flooring on (0.095 in.) thick foam  
Underlayment

### **Sound Rated Floor-Ceiling Assembly 9**

**Structural Member:** JMW Green Floor Truss ® Parallel Chord Floor Truss 12 inch  
(11.25in.) thru 18 inch (18.0in.) depth at 24 inch on center.

**Sub-floor:** 23/32 inch (0.72in.) T&G OSB fastened with 6d ring shanked nails  
12 inch on center.

**Insulation:** 3.5 inch thick by 24 inch wide unfaced R-11 fiberglass insulation

**Ceiling Fasteners:** 25 gauge (0.022in.) thick Furring Channels (aka hat track)  
(0.875in.) deep by (2.56in.) wide space 24 inch on centers with  
PAC International RSIC-1 ® clips spaced 48 inch on center

**Ceilings:** Two (2) layer-Base layer 5/8 inch (0.625in.) thick 5/8" Type X  
gypsum board attached to hat track with (1 in.) type S screws at  
(12 in.) on centers in the field and (8 in.) on center at the butt  
joints. Face layer 5/8 inch (0.625in.) thick 5/8" Type X gypsum  
board attached with Type S screws at (12 in.) on center in the field  
and (8 in.) on center at the butt joints.

**Floor coverings:** (0.438 in.) thick Carpet with (0.4 in.) thick Pad  
or  
(0.138 in.) thick Vinyl/Linoleum  
or  
(0.25 in.) thick Ceramic Tile embedded in (0.375 in.) thin set  
mortar  
or  
(.0375 in.) Engineered Wood Flooring on (0.095 in.) thick foam  
underlayment

### **The approval is subject to the following conditions:**

1. The approval is for new construction only.
2. Complete detail and description of the assembly shall be shown on the approved set of plans.

JMW Truss LLC

Re: JMW Green Floor Truss Sound Rating Flore-Ceiling Assembly

3. Finish materials must comply with Chapter 8 of the 2017 LABC.
4. For fire-rated assemblies shall be the assembly listed on Gypsum Manual Assemblies per footnote q of Table 721.1 (3) of the 2017 LABC. Any proprietary assembly shall carry the label of any Los Angeles City licensed testing agency to perform the required fire test for the assembly.

## DISCUSSION

The clerical modification is to update the report to the 2017 Los Angeles City Building Code.

The report is in compliance with the 2017 Los Angeles City Building Code.

The approval is based on gypsum manual for fire rating and sound test for sound rating. Addressee to whom this Research Report is issued is responsible for providing copies of it, complete with any attachments indicated, to architects, engineers and builders using items approved herein in design or construction which must be approved by Department of Building and Safety Engineers and Inspectors.

This general approval of an equivalent alternate to the Code is only valid where an engineer and/or inspector of this Department has determined that all conditions of this Approval have been met in the project in which it is to be used.

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Attachment: Details of Assemblies 7, 8 and 9 (3 pages)