


Fire and Sound Assembly - Floor/Ceiling Wood-Framed

03/04/2019

5/8" (15.9 mm) ToughRock® Fireguard X™ Products applied perpendicular to 2" x 10" wood joists 16" (406 mm) o.c. with 1-7/8" (48 mm) 6d nails 6" (152 mm) o.c. Wood joists supporting 1" (25.4 mm) nominal wood sub and 1" (25.4 mm) nominal finish floor, or 19/32" (15.1 mm) plywood finished floor with long edges T&G and 15/32" (11.9 mm) interior plywood with exterior glue subfloor perpendicular to joists with joints staggered.


 Hourly Rating: **1-hour**

 STC Rating: **35-39 STC and 32 IIC**

 Fire Test Reference: **UL L501, ULC M500³, cUL L501, GA FC 5420**

 Sound Test Reference: **NGC 4024 & IIC - NGC 5032**

Approved for Assembly:

- DensArmor Plus® Fireguard C® Products**
- DensArmor Plus® Fireguard® Products**
- DensElement™ Barrier Sheathing**
- DensGlass® Fireguard® Sheathing**
- DensShield® Fireguard® Tile Backer**
- ToughRock® Fireguard C® Products**
- ToughRock® Fireguard X™ Mold-Guard™ Products**
- ToughRock® Fireguard X™ Products**
- ToughRock® Lite-Weight Fire-Rated Products**

1. DensArmor Plus Fireguard: For certain proprietary ULC assemblies identified above, DensArmor Plus® Fireguard C® (Type DAPC) interior panels have not been approved by ULC for listing in such assemblies as of the date of this publication in lieu of DensArmor Plus® Fireguard® High-Performance (Type DAP) interior panels. Please check with ULC for current information.
2. Proprietary GA-600 Designs: Assemblies listed as proprietary in the GA-600 Fire Resistance Design Manual only list one product per manufacturer and may not include all products referenced in the illustrations above. Please consult the specified UL, cUL, ULC or other fire listing or test for a complete list of approved products.
3. ToughRock® Lite-Weight Fire-Rated: For ULC assemblies identified above, ToughRock® Lite-Weight Fire-Rated Gypsum Board (Type LWX) is not approved by ULC for listing in such assemblies as of the date of this publication. Please check with ULC for current information.

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Reviewed for Code Compliance
Permitting and Inspections Department
Approved with Conditions

03/04/2019

Description of Projects at 185 Edwards Street

Porch

Architectural:

- Insulation: R-13 fiberglass batts between existing 2x4 wall framing; R-21 fiberglass batts between existing 2x8 ceiling rafters; R-21 fiberglass batts between existing 2x8 floor joists in garage; 1 hour rated gypsum board assembly attached to bottom of porch floor joists
- Porch ceiling sheathing: Wood tongue and groove planks
- Wall sheathing: Beadboard below windows; ½" gypsum board above windows on south side gable end
- Add 1 hour rated ceiling at garage below porch
- Base molding: ½" x 4" wood for opaque paint finish
- Prime and finish coat painting ceiling and walls

Mechanical:

- Installation of new Rinnai gas heater
- Piping and valves to connect to existing gas lines

Electrical:

- Installation of pendant mounted light
- Installation of smoke detectors
- Wiring for light, gas heater and smoke detector

Attic

Architectural:

- Demolition: Remove wallboard on gable ends of attic space
- Insulation: install R-13 insulation between existing 2 x 4 studs on north and south ends
- Ceiling sheathing: Wood tongue and groove planks
- Wall sheathing on north and south ends: ½ gypsum board
- Prime and finish coat painting ceiling and walls

Electrical:

- Installation of two pendant mounted lights
- Relocate existing smoke detectors
- Wiring for lights and smoke detectors