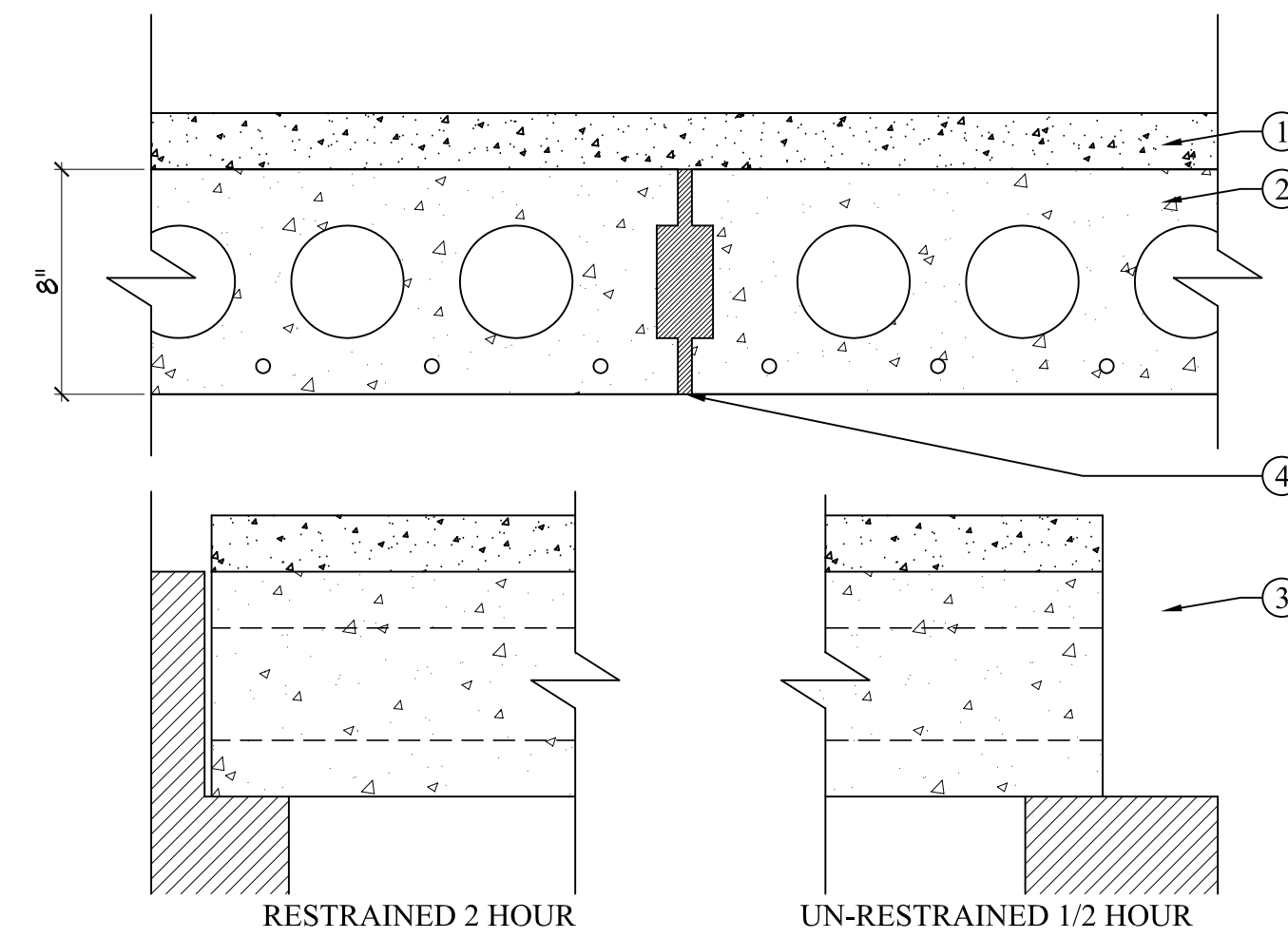
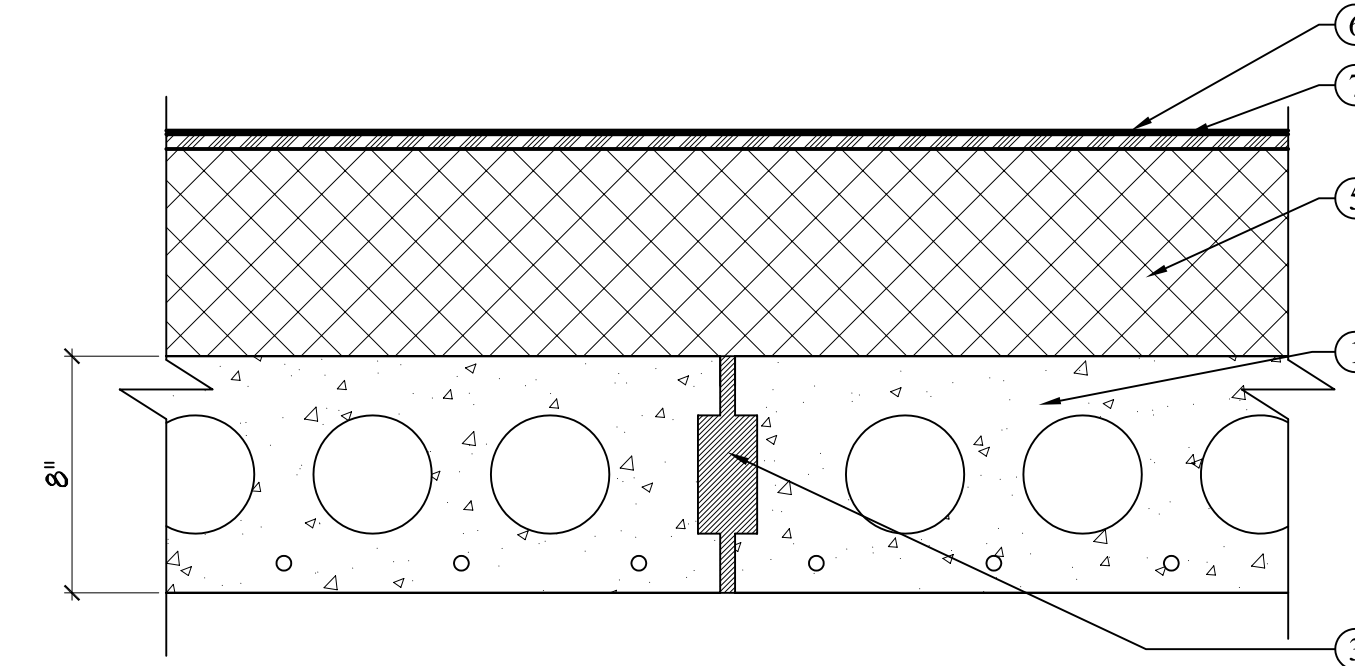


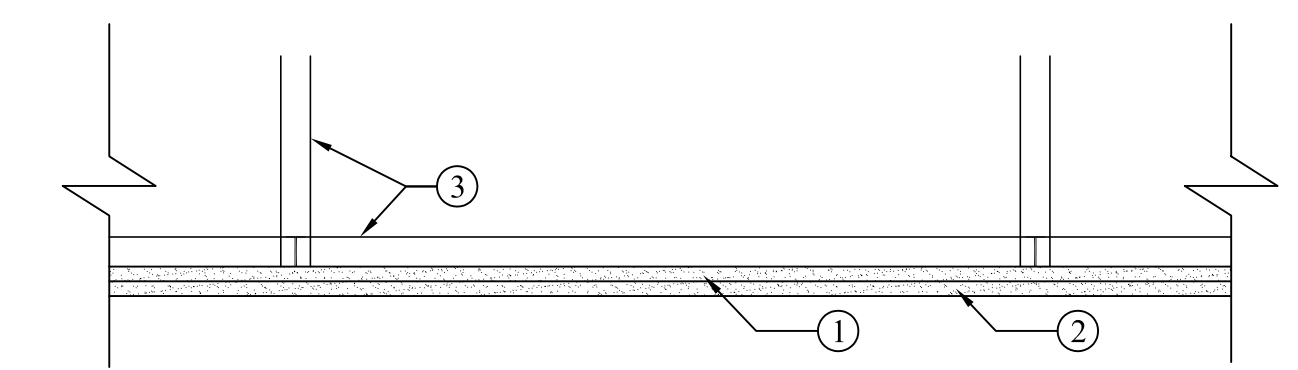
# ROOF & FLOOR/CEILING TYPES



**F1 2 HOUR FLOOR / CEILING ASSEMBLY**



**F2 2 HOUR ROOF ASSEMBLY**



**F3 1 HOUR GYPSUM MEMBRANE PROTECTION**

**F1 CONCRETE PLANK FLOOR/CEILING ASSEMBLY - RATING - 2 HOUR**  
DESIGN NUMBER U.L. J927 - RESTRAINED ASSEMBLY

- 1. **Concrete Topping** -- 3,000 psi compressive strength, 110 to 153 pcf unit weight. Normal weight aggregate 2 in. thick.
- 1A. **Floor Topping Mixture** -- (Alternate to concrete topping) -- 8 gal max water to 80 lbs min of floor topping mixture to 220 lbs max of sand. Compressive strength to be 1000 psi min thickness 3/4 in.
- Floor Mat Materials** -- (Optional) -- Floor mat material nom 6 mm thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 in. of floor-topping mixture.
- Alternate Floor Mat Materials** -- (Optional) -- Floor mat material nom 10 mm thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/2 in. of floor-topping mixture.
- 2. **Precast Concrete Units** -- 6, 8, 10 and 12 in. thick units. Normal weight or lightweight aggregate. Cross section similar to the above illustration.
- 3. **End Details** -- Restrained and Unrestrained.
- 4. **Grout** -- Sand cement type, 3500 psi compressive strength.
- 5. **Min Bearing** -- 1-1/2 in.

**F2 CONCRETE PLANK ROOF ASSEMBLY - RATING - 2 HOUR**  
DESIGN NUMBER U.L. J926 - RESTRAINED ASSEMBLY

- 1. **Precast Concrete Units** -- 8, 10 and 12 in. thick units. Normal weight or lightweight aggregate. Cross section similar to the above illustration.
- 2. **End Details** -- Restrained and Unrestrained.
- 3. **Grout** -- Sand cement type, 3500 psi compressive strength.
- 4. **Min Bearing** -- 1-1/2 in.
- 5. **Tapered Rigid Insulation** -- to a minimum of Average R-38 (approximately equal to 7" average - SEE ROOF PLAN FOR THICKNESSES AND LAYOUT)
- 6. Fully Adhered 0.060" EPDM Roofing - SEE SPECIFICATION
- 7. 1/2" High Density Fiberboard

**F3 1 HR CEILING ASSEMBLY - GYPSUM MEMBRANE**  
GA FILE NO. FC5406 and RC2601 - APPENDED GA 610-02

- 1. **Base layer** 5/8" type X gypsum wallboard applied at right angles to ceiling framing 24" o.c. and attached with 2" type S drywall screws spaced 24" o.c.
- 2. **Face layer** 5/8" type X gypsum wallboard or gypsum veneer base applied at right angles to joists with 2-5/8" Type S or S-12 drywall screws at end joints and intermediate joists and 2-1/2" type G drywall screws 12" O.C. placed 2" back on either side of end joints. Edge joints offset 24" from base layer edge joints. Face layer joints and fasteners are finished to Level 1 as specified in Gypsum Association GA-214, Levels of Gypsum Board Finish
- 3. Drywall Suspension System- Main tee spans less than 48". Hanger wire spaced along main tees at 36" o.c. and within 8" of walls. Cross tees between the mains at 16" o.c.

Ceiling provides one hour fire resistance protection for framing, including trusses.

OWNER:  
**468 FORE STREET  
REALTY LLC**  
FORE STREET  
PORTLAND, ME 04101

**ARCHETYPE, P.A.  
ARCHITECTS**  
48 Union Wharf Portland, Maine 04101  
(207) 772-6022 Fax (207) 772-4056

Project:  
**PORTLAND HARBOR  
HOTEL ANNEX**  
468-470 FORE STREET  
PORTLAND, MAINE

Revisions:  
Bid Set - 17 August 2007  
Addendum One - 31 August 2007

Date: 17 August 2007  
Scale: Not to Scale  
**FLOOR-CEILING  
ASSEMBLIES**

**A4.02**