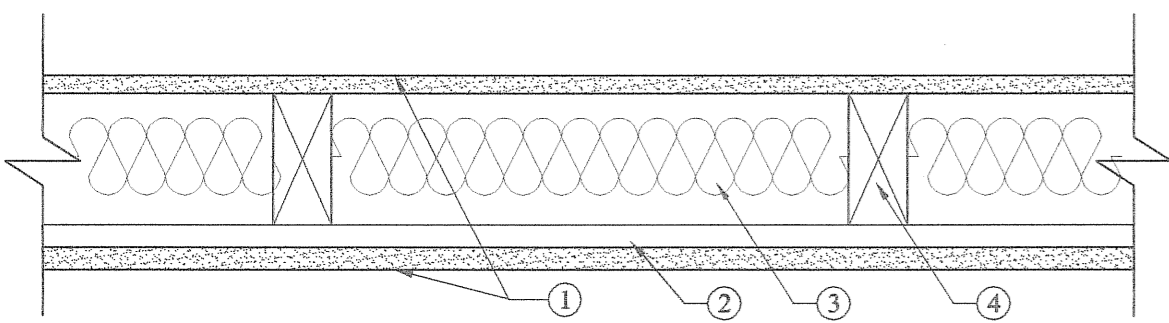
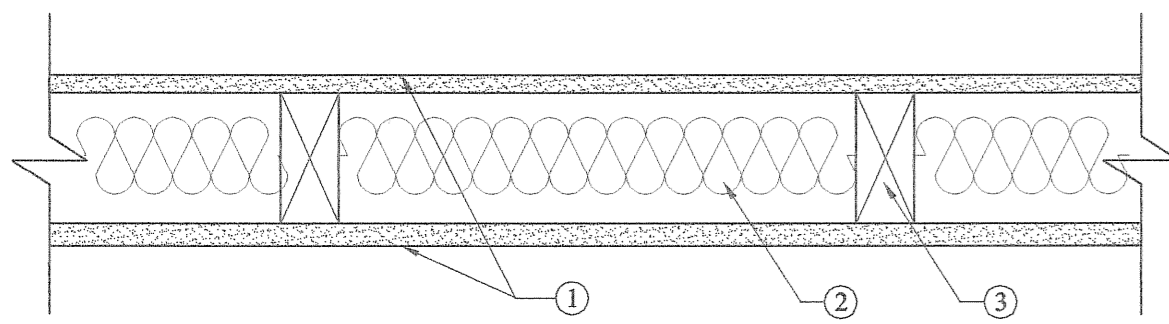


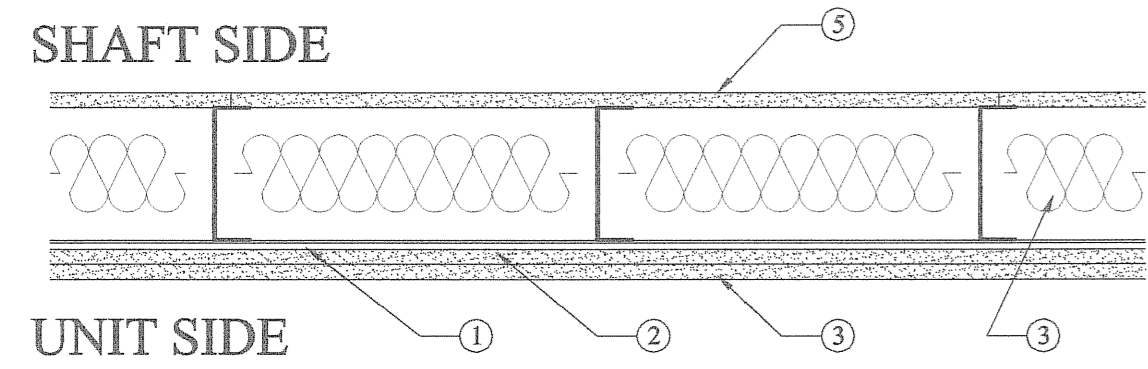
INTERIOR WALLS



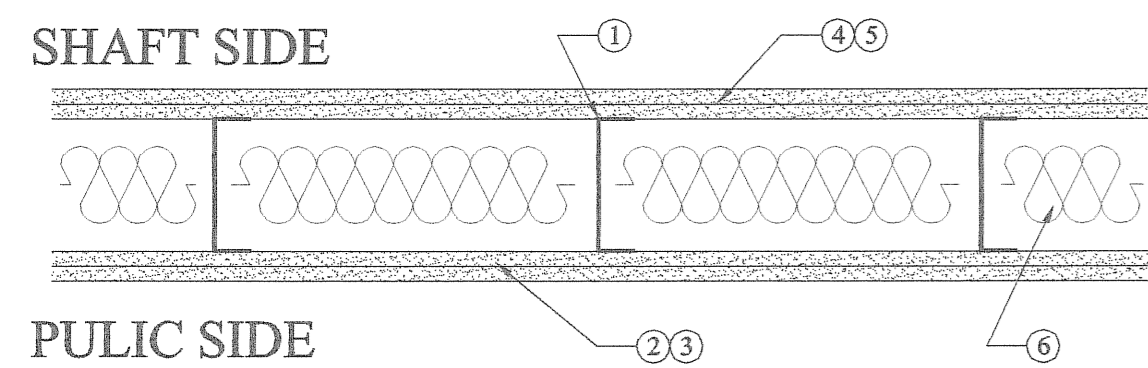
**1 1 HOUR WALL ASSEMBLY
PARTY WALL AND CORRIDOR WALL**



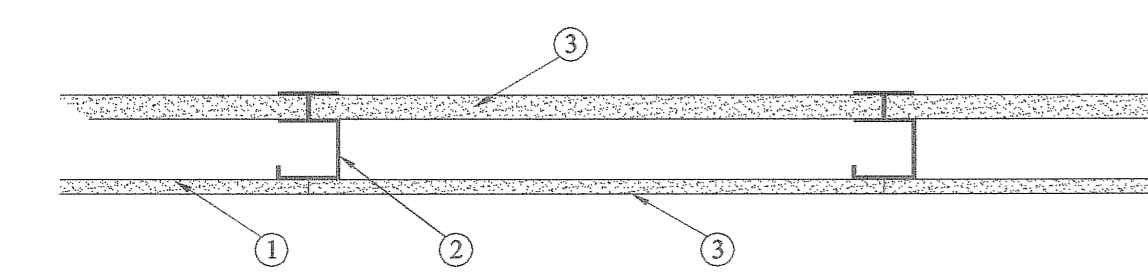
**2 UNRATED WALL ASSEMBLY
TYPICAL INTERIOR PARTITION WALL**



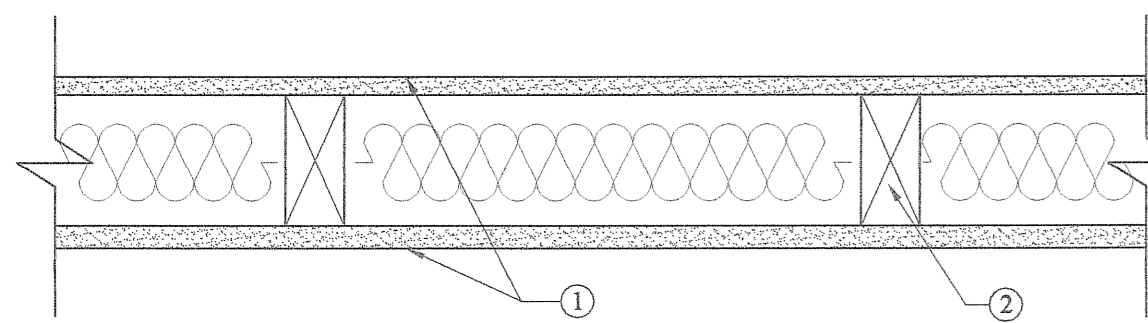
**3 2 HOUR BEARING WALL
SHAFTS TO UNIT**



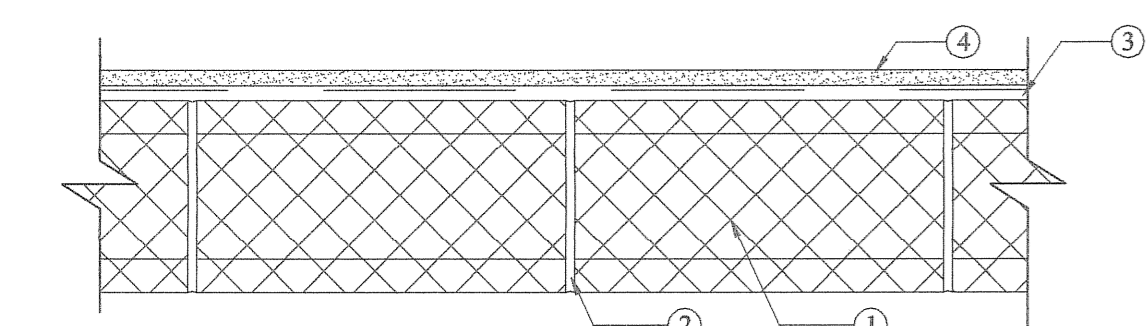
**4 2 HOUR BEARING WALL
SHAFTS TO PUBLIC SPACE**



5 1 HOUR NON-BEARING CHASE WALL



6 1 HOUR RATED WALL ASSEMBLY



7 2 HOUR BEARING & NON-BEARING

- 1 1 HR WALL ASSEMBLY 50 to 54 STC**
GYPSUM BOARD, WOOD STUDS, RESILIENT CHANNEL, INSULATION
GA FILE NO. WP 3230

Fire Test OSU T 3127, 10-4-65
Sound Test RAL TL11-138, 5-5-77

1. One layer 5/8" type "X" gypsum board applied parallel to resilient furring channels 1" Type 5 drywall screws 12" o.c. @ intermediate furring channels and 6" o.c. @ ends.
2. Resilient furring channels applied at right angles to 2x6 woodstuds @ 16" o.c. with 6d coated nails, 1 7/8" long, ØØ85" shank, 1/4" heads, two per joist.
3. 3 psf, 3-1/2" glass fiber insulation stapled to studs in stud space.
4. 2x6 wood studs @ 16" o.c.

- 2 UNRATED WALL ASSEMBLY**
GYPSUM BOARD, WOOD STUDS, INSULATION

1. One layer 5/8" gypsum board
2. 3 psf, 3-1/2" glass fiber insulation stapled to studs in stud space.
3. 2x4 wood studs @ 16" o.c.

- 3 BEARING WALL RATING - 2 HOUR**
GA FILE NO. WP 1520

- Unit Side:
1. Resilient channels 24" OC attached at right angles to one side of 6" 20 gage steel studs 16" OC with one 1/2" Type 5-12 drywall screw at each stud.
 2. Base Layer - 1/2" proprietary type X gypsum wallboard applied at right angles to channels with Type 5 drywall screws 24" OC.
 3. Face Layer - 1/2" proprietary type X gypsum wallboard applied at right angles to channels with 1 5/8" Type 5 drywall screws 12" OC.
 4. S&F insulation friction fit between studs.

- Shaft Side:
5. One layer 1/2" proprietary type X gypsum wallboard applied parallel to studs with 1" Type 5-12 drywall screws 12" OC. Joints staggered 24" each layer and side.

- 4 BEARING WALL RATING - 2 HOUR**
GA FILE NO. WP 1521

- Unit Side:
1. 6" 20 gage steel studs 16" OC.
 2. Base Layer - 1/2" type X gypsum wallboard applied parallel to each side of 6" steel studs with 1" Type 5 drywall screws 24" OC.
 3. Face Layer - 1/2" type X gypsum wallboard applied parallel to each side with 1 5/8" Type 5 drywall screws 12" OC.

- Public Side:
4. Base Layer - 1/2" type X gypsum wallboard applied parallel to each side of 6" steel studs with 1" Type 5 drywall screws 24" OC.
 5. Face Layer - 1/2" type X gypsum wallboard applied parallel to each side with 1 5/8" Type 5 drywall screws 12" OC. 3 1/2" glass fiber insulation friction fit between studs.
 6. 3 1/2" glass fiber insulation friction fit between studs.

- 5 NON BEARING WALL RATINGS - 1 Hr.**
Design No. U415

1. Floor, Side and Ceiling Runners - "J" - shaped runner, min 2-1/2 in. deep, with unequal legs of 1 in. and 2 in., fabricated from min 24 M&G galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC.
2. Steel Studs - "C-H" - shaped studs, min 2-1/2 in deep, fabricated from min 25 M&G galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC.
3. Wallboard, Gypsum* - Gypsum liner panels, nom 1 in. thick, 24 in. wide. Panels cut 1 in. less in length than floor to ceiling heights. Vertical edged inserted in "H" - shaped section of "C-H" studs. Free edge of end panels attached to long leg of "J" - runners with 1-5/8 in. long Type 5 steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. UNITED STATES

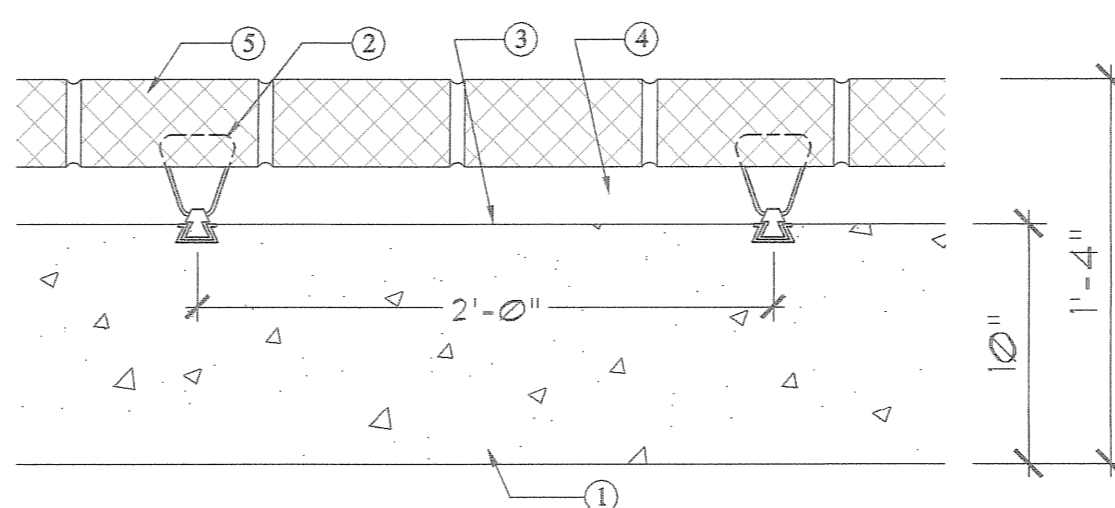
- 6 1 HOUR RATED WALL ASSEMBLY**
GA File No WP 3514

1. One layer 5/8" type X gypsum board applied parallel or at right angles to studs with 1 1/4" Type W drywall screws 12" OC
2. 2x6 wood studs @ 16" o.c.

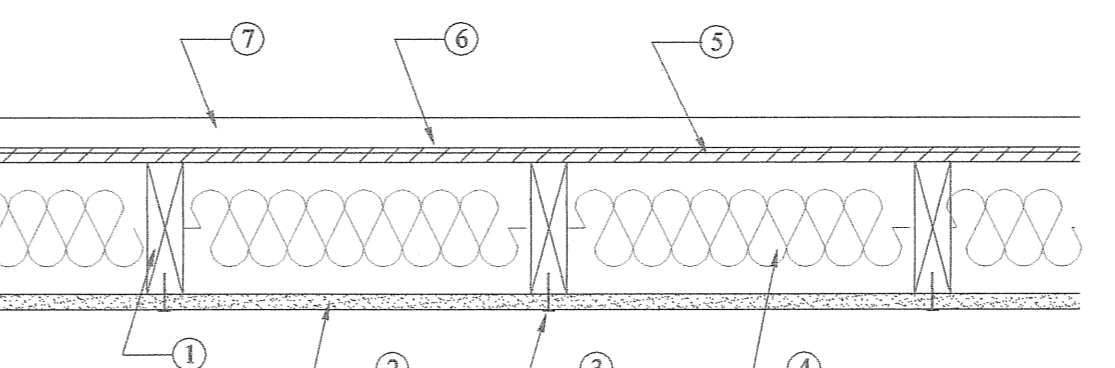
- 7 BEARING/NON-BEARING CMU WALL @ ELEVATOR 2-HOUR**
U.L. U905

1. Concrete Blocks - Classification D-2 (2 hr).
2. Mortar - Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
3. Channel - 7/8" Resilient Channel.
4. Finish - 5/8" Gypsum Board.

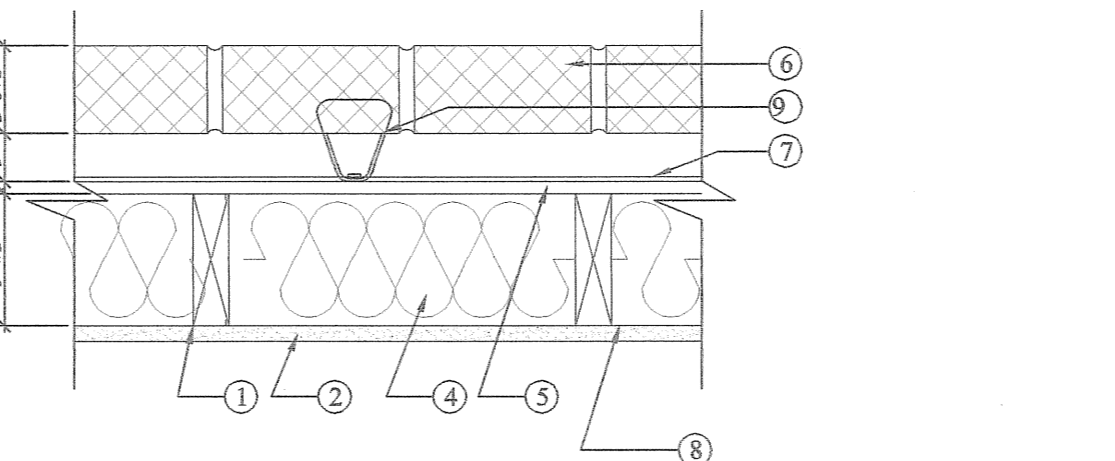
EXTERIOR WALLS



8 EXTERIOR BRICK VENEER & CONCRETE WALL



9 1 HOUR EXTERIOR BEARING WALL



10 1 HOUR EXTERIOR BRICK VENEER WALL

- 8 CONCRETE BEARING WALL W/BRICK VENEER**

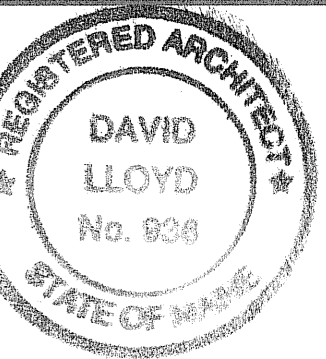
1. 16" Formed in place concrete wall.
2. Stainless steel adjustable dovetail wall tie system - ties 16" o.c. ea. way.
3. Waterproof membrane applied to exterior face of concrete wall.
4. 2" air space.
5. 4" nominal face brick.

- 9 EXTERIOR BEARING WALL RATING - 1 HOUR**
DESIGN NUMBER U.L. U356

1. Wood Studs - Nom 2 by 6 in. spaced 16 in. OC with two 2 by 6 in. top and one 2 by 6 in. bottom plates. Studs laterally-braced by wood structural panel sheathing (Item 5) and effectively fire stopped at top and bottom of wall.
2. Wallboard, Gypsum - Any UL Classified 5/8 in. thick, 4 ft wide, applied vertically and nailed to studs and bearing plates 7 in. OC with 6d cement-coated nails, 1-7/8 in. long with 1/4 in. diam head.
3. Joints and Nailheads - (Not Shown) - Wallboard joints covered with tape and joint compound. Nail heads covered with joint compound. 6 mil poly vapor barrier.
4. Batts and Blankets - UL Classified Glass fiber insulation, 6 in. thick, pressure fit to fill wall cavities between studs and plates. Glass fiber insulation to be faced with aluminum foil or kraft paper and to have a min density of 0.9 pcf (min R-19 thermal insulation rating).
5. Wood Structural Panel Sheathing - min grade "C-D" or "Sheathing". Installed with long dimension of sheet (strength axis) or face grain of plywood parallel with or perpendicular to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 6 in. wood blocking. Attached to studs on exterior side of wall with 6d cement coated box nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs.
6. #5 Felt.
7. Exterior Facing - Cement board clappboard siding.

- 10 1 HOUR EXTERIOR BRICK VENEER WALL**
FIRE TEST U.L. U356

1. Wood Studs - Nom 2 by 6 in. spaced 16 in. OC with two 2 by 6 in. top and one 2 by 6 in. bottom plates. Studs laterally-braced by wood structural panel sheathing (Item 5) and effectively fire stopped at top and bottom of wall.
2. Wallboard, Gypsum - Any UL Classified 5/8 in. thick, 4 ft wide, applied vertically and nailed to studs and bearing plates 7 in. OC with 6d cement-coated nails, 1-7/8 in. long with 1/4 in. diam head.
3. Joints and Nailheads - (Not Shown) Wallboard joints covered with tape and joint compound. Nail heads covered with joint compound.
4. Batts and Blankets - UL Classified Glass fiber insulation, 6 in. thick, pressure fit to fill wall cavities between studs and plates. Glass fiber insulation to be faced with aluminum foil or kraft paper and to have a min density of 0.9 pcf (min R-19 thermal insulation rating).
5. Wood Structural Panel Sheathing - Min 7/16 in. thick, 4 ft wide wood structural panels, min grade "C-D" or "Sheathing". Installed with long dimension of sheet (strength axis) or face grain of plywood parallel with or perpendicular to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 6 in. wood blocking. Attached to studs on exterior side of wall with 6d cement coated box nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs.
6. Brick Veneer - Any type on nom 4 in. wide brick veneer. When brick veneer is used, the rating is applicable with exposure on either face. Brick veneer fastened with wall ties attached over sheathing to wood studs with 8d nail per tie; ties spaced not more than each sixth course of brick and max 32 in. OC horizontally. Two in. air space provided between brick veneer and sheathing.
7. #5 Felt.
8. 6 mil poly vapor barrier.
9. Stainless Steel Adjustable Brick Ties



Owner:
315 VALLEY STREET, L.P.
P.O. BOX 560
PORTLAND, MAINE 04112

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

Project:
VALLEY STREET APARTMENTS
GILMAN STREET
PORTLAND, MAINE 04102

Date:
NOV 21 2005

Scale:
1 1/2" = 1'-0"

Drawing:
WALL TYPES

A.6a