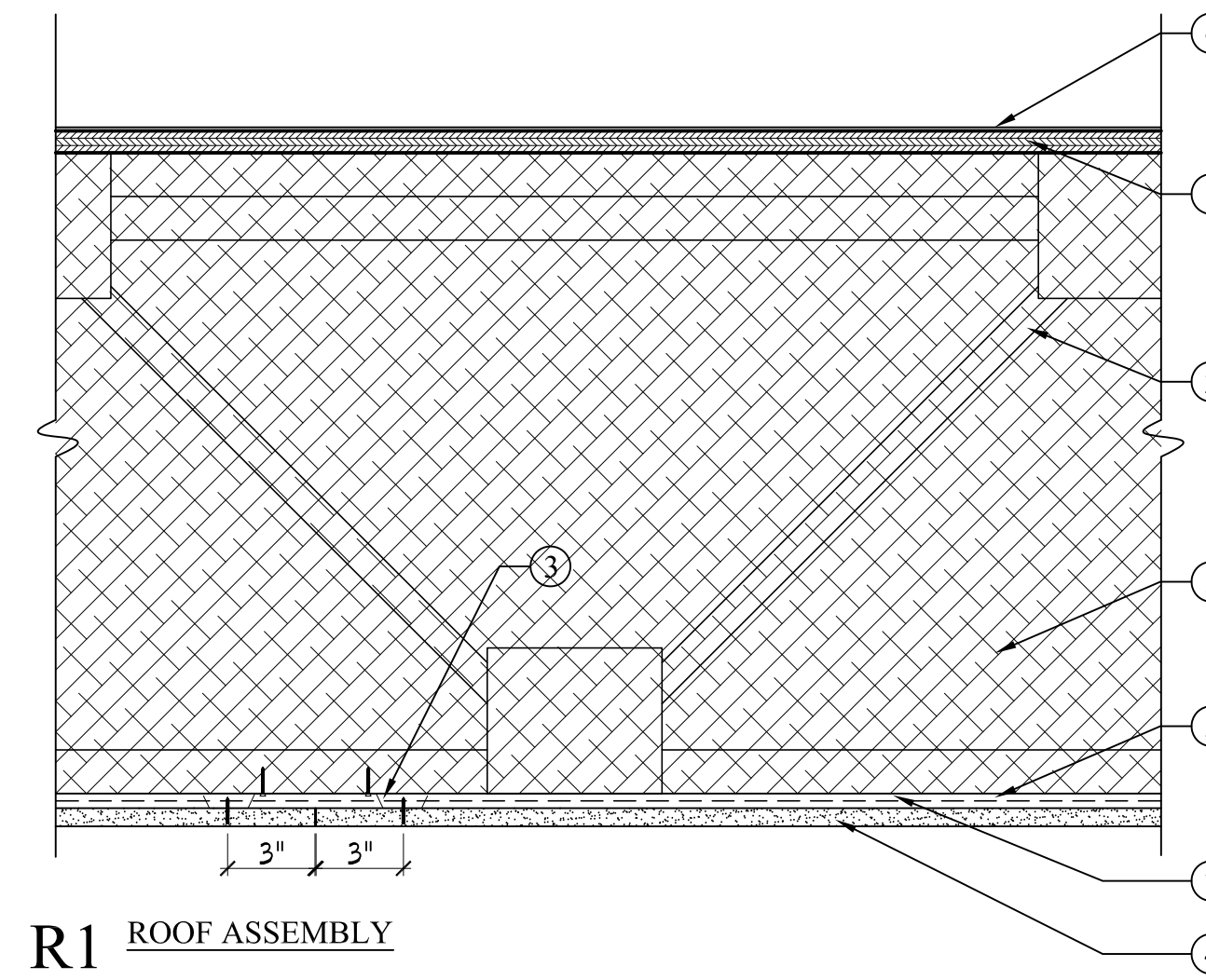


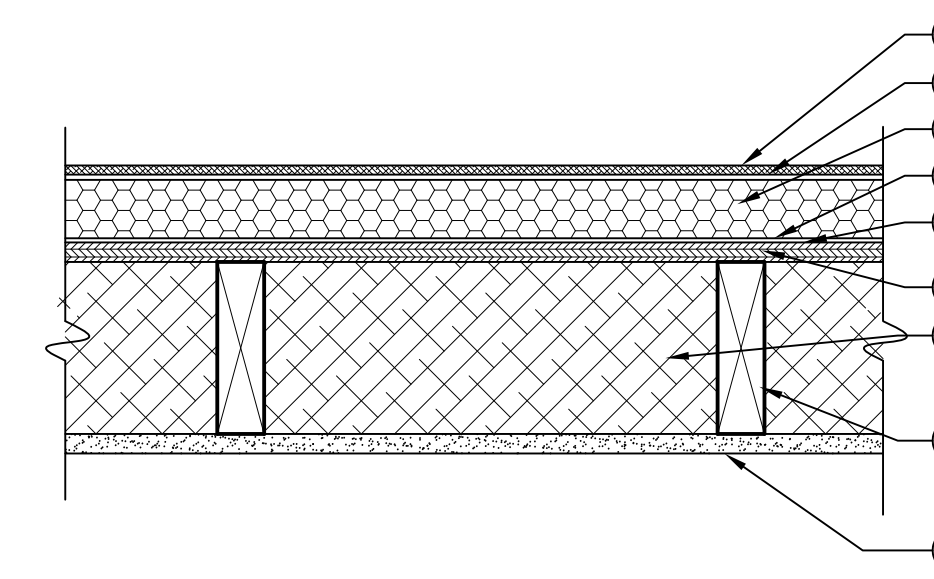
WALL TYPES



R1 ROOF ASSEMBLY

R1 ROOF SYSTEM
 DESIGN NUMBER U.L. L521
 (STC 54 - IC 51) F.H.A.—Materials Release No. 930e &
 1150d ICBO-Report No. 1016 ICC-ES File No. 04-02-05
 R-VALUE = 68

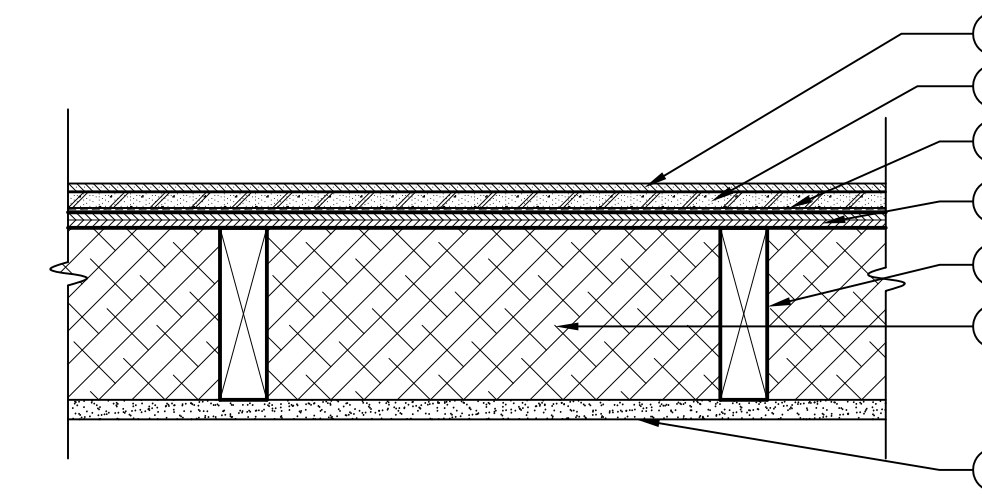
1. APA rated sheathing with exterior glue applied at right angles to trusses with 8d nails.
2. Trusses — Parallel wood trusses. (SEE STRUCTURAL)
3. Resilient Channels — Formed from min 0.020 in. thick galv steel, 1/2 in. deep by 2-3/8 in. wide at the base and 1-3/8 in. wide at the face as shown, spaced 12 in. OC perpendicular to trusses. Channels secured to each truss with 1-1/4 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each other at gypsum panel end joints as shown in the illustration. Additional channels shall extend min 6 in. beyond each side edge of panel.
4. Gypsum Board — Nom 5/8 in. thick, 48 in. wide gypsum panels. Gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. End joints secured to both resilient channels as shown in end joint detail.
5. Fiber, Sprayed (ADDED)— Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 3.2 lb/ft³. Alternate application method: The fiber is applied with U.S. Greenfiber LLC Type AD100 hot melt adhesive at a nominal ratio of one part adhesive to 6.6 parts fiber to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 2.5 lb/ft³.
6. Fully Adhered 0.060" EPDM Roofing - SEE SPECIFICATION
7. Vapor Barrier - 6 mil vapor barrier secured to underside of bottom chord of truss.



W1 EXTERIOR EIFS WALL

W1 EXTERIOR EIFS WALL ASSEMBLY

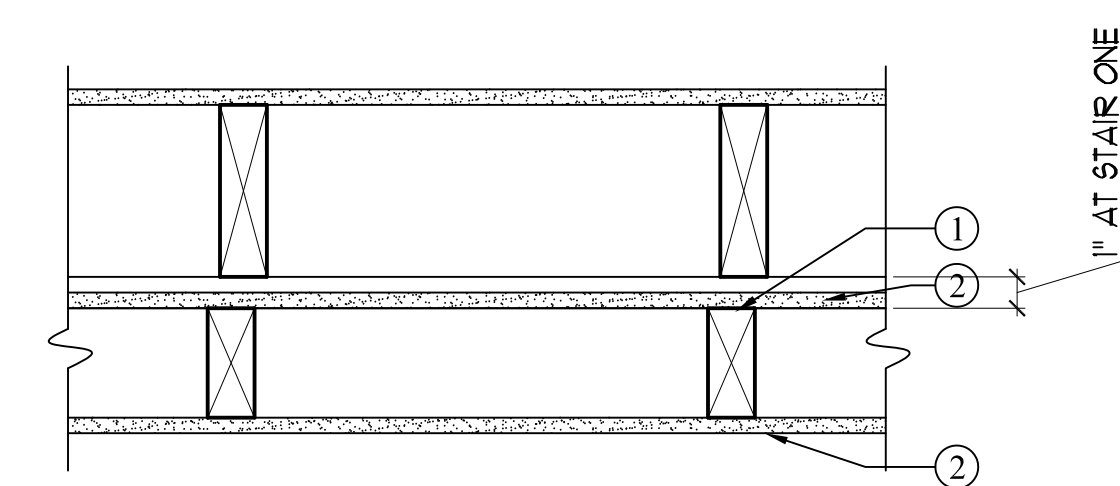
1. Wood Studs — Nom 2 by 6 in. spaced 16 in. OC with two 2 by 6 in. top and one 2 by 6 in. bottom plates. Studs laterally braced by wood structural panel sheathing (Item 5) and effectively fire stopped at top and bottom of wall.
2. Fiber, Sprayed — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 3.0 lb/ft³. Alternate application method: The fiber is applied with U.S. Greenfiber LLC Type AD100 hot melt adhesive at a nominal ratio of one part adhesive to 6.6 parts fiber to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 2.5 lb/ft³. Insulation substitution allowed with UL Test U311, Alternate Item "4B - Fiber, Sprayed".
3. 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.
4. Exterior Insulation Finish System (EIFS) - a. Dryvit water-resistive barrier coating. b. Dryvit adhesive c. 2" OR 3" insulation board (see wall sections for thickness) d. Dryvit reinforcing mesh embedded in base coat e. Dryvit finish coat
5. Gypsum Board — 5/8 in. thick, with square or tapered edges, applied vertically or horizontally with vertical joints centered over studs. Horizontal joints need not be backed by framing. Fastened with Type S-12 screws. 1-Hr System - For vertical application, fastened to studs and runners with 1 in. long screws spaced max 8 in. OC at vertical edges and spaced max 12 in. OC in the field. For horizontal application, fastened to studs and runners with 1 in. long screws spaced max 8 in. OC. Vertical joints staggered one stud cavity from cement board vertical joints on opposite side of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered.



W2 CEMENT-BOARD SIDING EXTERIOR WALL

W2 EXTERIOR BEARING & NON-BEARING WALL RATING - 1 HOUR
 DESIGN NUMBER U.L. U356
 R-VALUE = 33

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. Fiber, Sprayed — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 3.0 lb/ft³. Alternate application method: The fiber is applied with U.S. Greenfiber LLC Type AD100 hot melt adhesive at a nominal ratio of one part adhesive to 6.6 parts fiber to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 2.5 lb/ft³. Insulation substitution allowed with UL Test U311, Alternate Item "4B - Fiber, Sprayed".
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. Water Resistive Barrier — Commercial grade breathable moisture and air barrier. (ADDED)
7. Cementitious Backer Units — 1/2 in. thick, applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with corrosion resistant, chamfered, ribbed wafer head screws with a minimum head diameter of .400 inch. For nonbearing systems, fastened to studs and bottom runners with the uppermost screws placed 1/2 in. to 2 in. below the bottom edge of the leg of the top runner. Horizontal joints need not be backed by framing. 1 Hr System - Screws shall be min 1-1/4 in. long and spaced a max of 8 in. OC. All vertical joints staggered one stud cavity from gypsum board vertical joints on the opposite side of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered.
8. Ceramic Tile (See Specification)



W3 TYPICAL ONE-HOUR RATED STAIR WALL

W3 TYPICAL RATED STAIR WALL ASSEMBLY - 1 HOUR
 GA FILE NO. WP 3510 GENERIC - 1 HOUR FIRE
 Fire Test: UL R3501-47, -48, 9-17-65; UL Design U309; UL Design U314

1. Wood Studs — Nom 2 by 4 in. spaced 16 in. OC with two 2 by 4 in. top and one 2 by 4 in. bottom plates. NOTE: All plumbing wet walls shall be framed with nominal 2X6 wood studs.
2. Gypsum Board — Type 'X' 5/8 in. thick, 4 ft wide, attached to wood studs with Type S steel screws spaced 8 in. OC, along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly 48 in. OC.
3. Joint Tape and Compound — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.
4. Bearing Wall (SEE STRUCTURAL) - 2X6 wood stud bearing wall, outside of fire rating, and unattached. Space bottom plate 1" from face of 2x4 stud at Stair One. Space bottom plate 3" from face of 2x4 stud at Stair Two.

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WALL, FLOOR, ROOF TYPES

A4.01