



FWFO.EWS0024 Exterior Wall Systems

[Page Bottom](#)

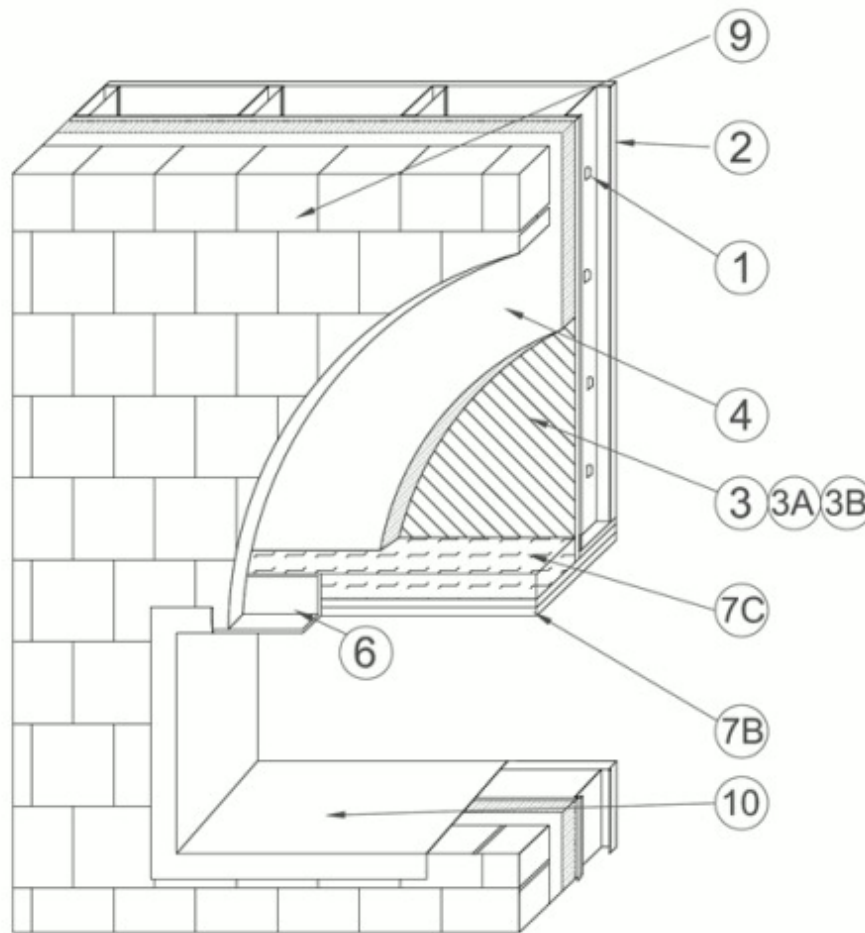
FWFO - Exterior Wall Systems

[See General Information for Exterior Wall Systems](#)

System No. EWS0024

August 18, 2015

Exterior Wall System



1. **Steel Studs** — Min 3-5/8 in. (92 mm) deep, formed of min 20 ga. galv steel spaced max 24 in. (406 mm) OC.

1A. **Alternate Base Walls (Not Shown)** — Cast concrete walls or concrete masonry units (CMU) concrete walls may be used in lieu of Items 1 through 3.

2. **Interior Gypsum Board (CKNX)*** — Min 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide, attached to interior face of steel studs with 1-1/4 in. (32 mm) long, Type S steel screws spaced max 8 in. (203 mm) OC. Joints oriented vertically and covered with paper tape and joint compound. Screw heads covered with joint compound.

See **Gypsum Board (CKNX)** Category for names of Classified Companies

3. **Exterior Gypsum Board (CKNX)*** — Exterior-grade glass mat sheathing gypsum board, minimum 1/2 in. (12.7 mm) thick, attached to exterior face of steel studs with 1-1/4 in. (32 mm) long, Type S steel screws spaced max 8 in. (203 mm) OC. Joints oriented vertically or horizontally.

See **Gypsum Board (CKNX)** Category for names of Classified Companies

3A. **Exterior Wall System Component (FWFX) — Fluid-Applied Flashing*** — (Not Shown) — Sealant applied to all exterior sheathing joints prior to application of air, vapor, and water barrier (Item 3B). Fluid-applied flashing to be installed to a wet thickness of 40-60 mils.

PECORA CORP — XL-Flash

3B. **Exterior Wall System Component (FWFX) — Air, Vapor, and Water Resistive Barrier*** — Sealant applied to completely cover the exterior surface of the exterior gypsum sheathing at a wet thickness of 10-14 mil.

PECORA CORP — XL-Perm^{ULTRA} VP

4. **Foam Insulation (BRYX)*** — Max two layers of nom 4 by 8 ft (1.2 by 2.4 m) by 2 in. (51 mm) thick nom 1.55 pcf (24.8 kg/m³) extruded polystyrene insulation. First and second layer secured through gypsum sheathing into steel stud with 4 in. (89 mm) and 5-1/2 in. (140 mm) long self-tapping steel screws in conjunction with 2 in. (51 mm) diameter, 0.2 in. (5 mm) thick plastic pronged continuous insulation washers. Fasteners and washers used to secure foam board at minimum down horizontal centerline of each board at each stud location.

OWENS CORNING FOAM INSULATION L L C — FOAMULAR 250

5. **Masonry Veneer Anchors** — (Not Shown) — Max 4 in. (102 mm) masonry veneer screw anchors with min 1 in. (25 mm) long self-drilling tip attached into steel studs. Includes flanged head/integral zinc/EPDM washer, and thermal break clip to receive double pintle wire tie. Installed on each stud spaced 16 in. (406 mm) OC vertically.

6. **Steel Lintel** — Nom 4 by 4 in. (102 by 102 mm) by min 1/4 in. (6.4 mm) thick steel angle supporting brick veneer at header at top of window opening and extending min 8 in. (204 mm) beyond each side of the window opening into the brick veneer mortar joints.

7. **Window System** — The following items shall be used as materials when framing the interior surface of an opening in the exterior wall assembly:

A. **Lumber, Treated (BPVV)* — Window Jamb & Sill Framing (Not Shown)** — One layer of nominal 2 by 4 in. (50 by 102 mm) fire retardant treated lumber secured to steel studs at jambs and sill with min 3 in. (76 mm) self-tapping steel screws, spaced max 8 in. (204 mm) OC, to line framed window opening. Lumber only covers the depth of the studs and interior/exterior gypsum board in the assembly. Lumber does not extend past exterior insulation.

HOOVER TREATED WOOD PRODUCTS INC — Exterior Fire-X, Type B

B. **Treated Plywood (BUGV)* — Header Extension** — Two layers of 3/4 in. (19 mm) thick treated plywood secured to header stud framing min No. 6 by 3 in. (72 mm) self-tapping steel screws. Treated plywood pieces extend from interior gypsum (Item 1) surface to back face of steel lintel (Item 6). A second row of min No. 6 by 1-1/4 in. (32 mm) screws, spaced max 8 in. (204 mm) OC, to tie two pieces of plywood together at cantilevered section.

HOOVER TREATED WOOD PRODUCTS INC — Pyro-Guard

C. **Forming Materials (XHKU)* — Mineral Wool** — Nominal 2-1/2 in. (64 mm) thick mineral wool piece spanning from exterior surface of exterior sheathing to inside surface of steel lintel. Exterior foam insulation (Item 4) cut away to accommodate installation of mineral wool. Mineral wool sits above treated plywood (Item 4B). Mineral wool is cut such that when placed in between lintel and exterior of wall it undergoes 30% compression.

THERMAFIBER INC — Type SAF

D. **Exterior Wall Component (FWFX)* — Metal Framing Silicone Sealant** — (Not shown) — Nominal 3/8 in. (10 mm) bead of silicone caulk applied to joints between dissimilar metals and materials.

PECORA CORP — AVB Silicone

8. **Mineral Wool** — (Not Shown) — Nom 4 pcf (64 kg/m³), 8 in. (102 mm) thick mineral batt insulation installed within stud cavity at floor line locations. Insulation installed filling full depth of stud cavity for the full depth of the floor line.

9. **Exterior Finishing** — The following items may be used as exterior finishing for the wall system:

A. **Exterior Veneer — Brick** — Nom 3-5/8 in.-thick clay brick offset to provide a nom 2 in. (50 mm) air gap between foam insulation (Item 4) and brick veneer with masonry veneer anchors (Item 5).

B. **Concrete** — Min 2 in. (51 mm) thick with max 2 in. (51 mm) air gap between exterior wall insulation (Item 4) and concrete.

C. **Concrete Masonry Units** — Min 2 in. (51 mm) thick with max 2 in. (51 mm) air gap between exterior wall insulation (Item 4) and concrete masonry units.

D. **Stone Veneer** — Min 2 in. (51 mm) thick natural stone veneer with any standard non-open joint installation technique.

E. **Terracotta Cladding** — Min 1-1/4 in. (32 mm) thick with any standard non-open joint installation technique such as ship lap.

F. **Stucco** — Min 3/4 in. (19 mm) thick exterior cement plaster lath.

10. **Window Flashing** — Minimum 0.080 in. (2 mm) thick aluminum flashing to cover all inner surface of window perimeter. Minimum 25 ga steel flashing is also acceptable for use in this application.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2015-08-18

[Questions?](#)

[Print this page](#)

[Terms of Use](#)

[Page Top](#)

© 2015 UL LLC

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2015 UL LLC".