



## FWFO.EWS0016 Exterior Wall Systems

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### FWFO - Exterior Wall Systems

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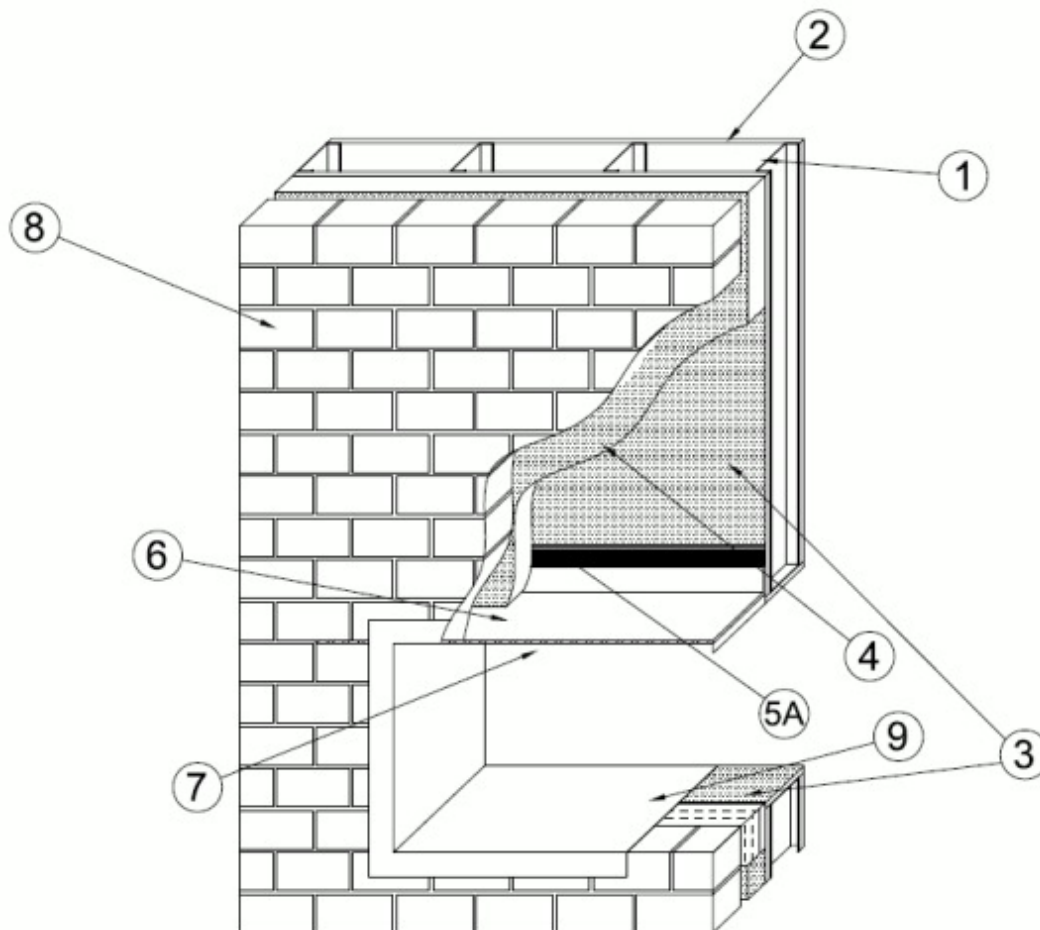
### System No. EWS0016

February 19, 2015

**ASTM E2357 - 0.029 cfm/ft<sup>2</sup> (0.015 l/s•m<sup>2</sup>) @ 75 Pa (1.57 psf) - Category 1**

**ASTM E331 - 2 Hr @ 300 Pa (6.27 psf)**

**Exterior Wall System**



**1. Steel Studs** — Min 3-5/8 in. (92 mm) deep, formed of min 16 ga. galv steel spaced max 16 in. (406 mm) OC. Additional studs to be used to completely frame window openings.

**2. Interior Gypsum Board (BWFR)\*** — Min 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide, attached to steel studs with 1 in. (25 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.

**UNITED STATES GYPSUM CO** — Type SCX

**3. Exterior Wall System Component — Exterior Gypsum Sheathing (FWFX)\*** — Exterior-grade glass mat sheathing gypsum board with air barrier sealant factory applied. Minimum 5/8 in. (16 mm) thick, attached to steel studs with 1 in. (25 mm) long, Type S steel screws spaced max 8 in. (203 mm) OC. Joints oriented vertically or horizontally. Additional sheathing to be used to line framed window openings.

**UNITED STATES GYPSUM CO** — Types USGX, SECUROCK® ExoAir® 430 Panel

**3A. Exterior Wall System Component — Sealant\*** — (Not Shown) - Sealant applied to all exterior sheathing joints.

**TREMCO INC** — Tremflex 834 or Dymonic 100

**4. Foam Insulation (BRYX)\*** — Nom 4 by 8 ft (1.2 by 2.4 m) by max 2-1/2 in. (64 mm) thick, max 1.55 pcf (24.8 kg/m<sup>3</sup>) extruded polystyrene insulation secured to gypsum sheathing with min No. 8 by 3-1/2 in. (89 mm) self-tapping steel screws in conjunction with 2 in. (51 mm) diameter steel washers.

**AFM CORP** — Foam-Control EPS Type IX, Film Faced Foam-Control EPS Type IX, Foam-Control EPS Type XIV or Foam-Control EPS Type XV

**ATLAS EPS, DIV OF ATLAS ROOFING CORP** — ThermalStar

**OWENS CORNING SCIENCE AND TECHNOLOGY, LLC** — Foamular 250 or Foamular CC

**DOW CHEMICAL CO** — Styrofoam Scoreboard

**5. Window Flashing Materials** — (Optional) - The following items may be used as window flashing materials:

**A. Exterior Wall System Component — Window Flashing Material\*** — Nom 6 in. (152 mm) wide extruded silicone rubber flashing attached to gypsum sheathing with sealant (Item 5B) to completely frame window opening.

**TREMCO INC** — Proglaze ETA

**B. Exterior Wall System Component — Sealant\*** — (Not Shown) - Sealant applied to all edges of window flashing material to adhere flashing to gypsum sheathing.

**TREMCO INC** — Spectrem 1

**6. Steel Lintel** — Nom 7 in. (178 mm) wide by min 3/8 in. (10 mm) thick steel used at top of window opening of brick veneer (Item 8) and extending min 8 in. (203 mm) beyond each side of the opening.

**7. Mineral Wool** — Nom 4 pcf (64 kg/m<sup>3</sup>), 1 in. (25 mm) thick mineral batt insulation secured to the underside of steel lintel (Item 6) with two rows of steel batt pins located approx. 1 in. (25 mm) from the edges and spaced a max 8 in. (203 mm) OC. Also installed within each wall stud cavity at each floor line, minimum 4 in. thick, held in place with any standard installation method (floor line mineral wool not shown in diagram).

**8. Exterior Veneer — Brick** — Nominal 4-in.-thick clay brick offset to provide a nom 1 in. air gap between foam insulation (Item 4) and brick veneer with standard type veneer anchors spaced a max 24 in. (610 mm) on center.

**9. Steel Flashing** — Formed of min 22 ga. steel. Formed to completely line window opening and overlap onto both surfaces of the wall assembly a min 1/2 in. (13 mm).

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

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