FWFO - Exterior Wall Systems

See General Information for Exterior Wall Systems

System No. EWS0005

February 19, 2015

ASTM E2357 - 0.0062 cfm/ft² (0.032 l/s·m²) @ 75 Pa (1.57 psf) - Category 1

ASTM E331 - 45 min. @ 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 Gypsum Sheathing (BWFR)*** — Exterior-grade glass mat sheathing gypsum board, minimum 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.

**UNITED STATES GYPSUM CO** — Type SCX
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** — Type USGX

### 3A. Exterior Wall System Component — Sealant* — (Not Shown) — Sealant applied to all exterior sheathing joints prior to application of air barrier sealant (Item 4).

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

### 4. Exterior Wall System Component — Combustible Air Barrier Sealant* — Applied to completely cover the gypsum sheathing at a min thickness of 35 mil (0.9 mm) dry, 70 mil (1.8 mm) wet thickness.

**TREMCO INC** — ExoAir 230

### 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 5D) to completely frame window opening.

**TREMCO INC** — Proglaze ETA

**B. Fiberglass Mesh** — Nom 0.012 in. (0.3 mm) thick open-weave glass-reinforcing fabric embedded within the air barrier sealant (Item 5C).

**TREMCO INC** — 2011 Mesh

**C. Exterior Wall System Component — Combustible Air Barrier Sealant** — Applied to completely cover sheathing lining the window opening in conjunction with a nom 0.012 in. (0.3 mm) thick open-weave glass-reinforcing fabric embedded within the sealant.

**TREMCO INC** — ExoAir 230

**D. 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. Mounting System — Extruded aluminum mounting system secured to studs with min 5/16 in. (8 mm) diam self-tapping steel screws spaced max 16 in. (406 mm) OC. Installed horizontally and located at the top and bottom of each exterior panel (Item 9) for securement of exterior panels.

**NOW SPECIALTIES INC** — NOW 4200 Route and Return Dry System

### 7. Exterior Panels — Nom 36 in. (914 mm) wide by 1 in. (25 mm) deep, 0.157 in. (4 mm) thick aluminum composite material panel system secured to mounting system in accordance with the mounting system manufacturer's installation instructions.

**ALCOA INC** — Reynobond FR

### 8. 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).

### 9. Mineral Wool — (Not Shown) — Nom 4 pcf (64 kg/m³), 4 in. (102 mm) minimum thickness of mineral batt insulation installed within each wall stud cavity at each floor line held in place with any standard installation method.

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