**Rmax, a Business Unit of Sika Corporation**
**Design No. ROL/BI 30-06**
**Exterior – Nonloadbearing Wall Assembly**
**Durasheath® and Thermasheath®**
**NFPA 285**
**Rating: Meets Conditions of Acceptance**

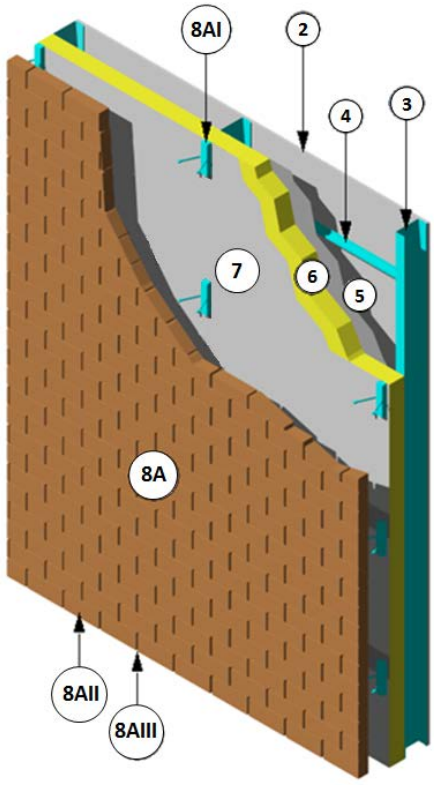


**Figure 1 – Item 1**

1. **EXTERIOR NONLOADBEARING WALL ASSEMBLY:** Incorporate construction features in the exterior nonloadbearing wall assembly as described in Items 2 through 9.

2. **INTERIOR GYPSUM:** On the interior side of the exterior nonloadbearing wall assembly (Item 1), apply one layer of 5/8 in. thick, FIREBLOCK© Type X, gypsum board using 1-1/4 in. long, #6 self-drill, zinc-plated, bugle-head screws spaced nominally 8 in. on center (oc) around the perimeter and 12 in. oc in the field on all steel framing (Item 3).

3. **STEEL FRAMING:** Install nominal 3-5/8 in., 20 GA galvanized steel studs spaced nominally 24 in. oc. Attach steel studs to 20 GA top and bottom steel tracks using #8 x 1/2 in. long, pan-head framing screws, attached to the front and back of each steel stud. Install nominal 4 in. thick x 8 in. high, 4 pcf, mineral wool in the stud cavities at the floor lines.

4. **LATERAL BRACING:** Install lateral bracing measuring 1-1/2 in. wide with 1/2 in., 16 GA legs nominally 48 in. oc in elevation and perpendicular to the steel framing (Item 3). Secure lateral bracing to all steel framing

(Item 3) using two nominal 3/4 in. long, self-drilling, sheet metal screws.

5. **EXTERIOR SHEATHING:** Install 4 ft. x 8 ft. x 1/2 in. DensGlass® Gold Exterior Sheathing (Georgia Pacific) with the long edge perpendicular to the studs. Secure with #6 x 1-1/4 in. self-drilling screws, spaced 8 in. oc around the perimeter and 12 in. oc in the field.

6. **WEATHER RESISTANT BARRIER:** Install Soprema, Inc. Sopramastic Sealant in the exterior sheathing board joints 1/8 in. or larger. Apply Soprema, Inc. Mammouth Elastocol 600c Primer over exterior sheathing in two passes to a nominal 25 mils wet film thickness and allow drying. Install the Soprema, Inc. Sopraseal Stick 1100T air barrier vertically with a 2 in. overlap at the vertical seams. Apply Sopramastic Sealant in exterior sheathing board joints 1/8 in. or larger.

7. **CERTIFIED COMPANY:** Rmax, a Business Unit of Sika Corporation

   **CERTIFIED PRODUCT:** Foam Insulation Panel

   **MODELS:** Durasheath® or Thermasheath®

   **FOAM INSULATION PANEL:** Use nominal 4-1/2 in. thick foam insulation panels (Item 7), measuring nominally 4 ft. wide x 8 ft. long. Install foam insulation panels with the long edge horizontal (perpendicular) to steel framing (Item 3). Prior to installing foam insulation panels, and when needed, trim foam insulation panels. Stagger the vertical seam of the foam insulation panels nominally 24 in. to the vertical seam of the foam insulation panels below. Secure the foam insulation panels to steel framing (Item 3) using #10 x 5-1/2 in. long, self-drilling, screws with a preinstalled rubber washer. Insert screw through a 2-1/2 in. diameter square washer. Install the screws into steel framing (Item 3) at the four edges of the foam insulation panels.

8. Install an exterior cladding consisting of the following:

   A. BRICK VENEER – Install a brick veneer using the following elements:

      i. BRICK VEENER ANCHORS – Insert nominal 1-1/2 in. X-Seal™ Anchors (Hohmann & Barnard) through the foam insulation panels (item 7) with 3/16 in. x 3 in. x 3 in. VB VEE Byna Ties. Space brick anchors 24 in. oc vertically, and secure to the steel framing (Item 3) using #12 x 3 in. long, hex-head, self-drilling screws with washer attached.
      ii. EXTERIOR BRICK – Install standard 4 in. thick (3-1/2 x 2-1/4 x 7-3/4 in.), red clay brick laid in a "running bond" pattern using mortar (Item 8Aiii). Provide a nominal 2 in. air gap between the unexposed side exterior brick face and the outer most surface of the foam insulation panels (Item 7).
      iii. MORTAR – Use Type S mortar consisting of the following components and ratio: Type S Lime (1.5 parts), Portland Cement Type 1/II Low Alkali (2 parts), sand (7 parts), and water (as needed).

9. **STEEL LINTEL:** (Not Shown) Install 94 in. long, 4 in. x 4 in. x 1/4 in. thick steel lintel on top of the window. Use two pieces of 2 in. x 9 in. x 20 GA steel to wrap the window opening. Attach the steel, nominally 24 in. oc with 3/16 in. x 1-1/4 in. long Tapcon concrete anchors, to the exterior of the wall and with #6 x 1-1/4 in. long self-drilling screws to the interior of the assembly.