KSC, Inc.
Design No. KSC/MCMWP 30-01
Exterior Non-loadbearing Rainscreen System
KSC 3000E
NFPA 285
Rating: Meets Conditions of Acceptance

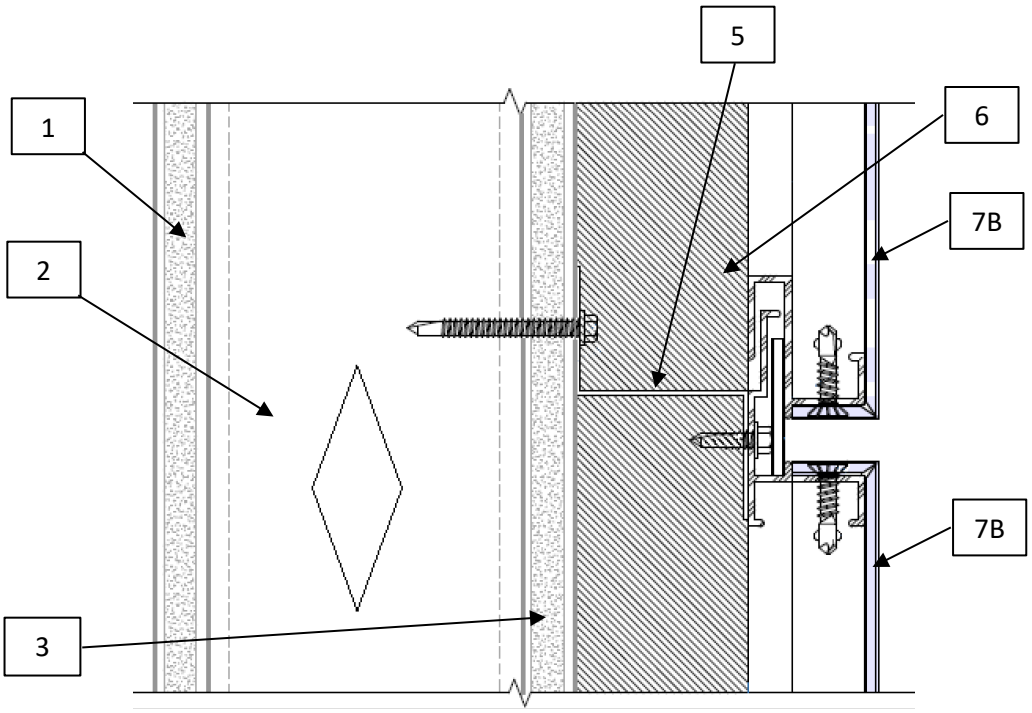


FIGURE 1. WALL ASSEMBLY (ELEVATION VIEW)

1. **INTERIOR GYPSUM WALLBOARD:** Install min. one layer of min. 5/8 in. thick Type X gypsum wall board, complying with ASTM C1396, to the interior side of the steel stud framing (Item 2) with the long dimension perpendicular to the steel stud framing. Fasten the gypsum wall board using min. #6 x 1-1/4 in. long, Type S screws spaced at maximum 8 in. on center (oc) around the perimeter and 12 in. (oc) in the field.

   A. JOINT TAPE AND COMPOUND (Not Shown): Use vinyl or casein, dry or premixed joint compound (complying with ASTM C475/C475M) applied to the exterior face of the interior gypsum wallboard (Item 1) in two coats to all exposed fastener heads and board joints. Use minimum 2 in. wide paper, plastic, or fiberglass tape (complying with ASTM C475/C475M) which is embedded in the first layer of compound over joints in gypsum board.

2. **STEEL STUD FRAMING:** Install nominal 18 GA, 3-5/8 in. x 1-5/8 in. steel studs and track spaced maximum 24 in. on center (oc). Fasten studs to track using min. #8 x 1/2 in. long pan-head self-drilling screws.

A. FLOORLINE FIRESTOPPING (Not Shown): Install min. 4 in. thick, 4 pcf, mineral wool insulation in the steel stud framing cavities at the floorline for firestopping.

3. **EXTERIOR SHEATHING:** Install min. one layer of min. 5/8 in. thick glass mat exterior sheathing, complying with ASTM C1177, to the exterior side of the steel framing (Item 2) with the long dimension perpendicular to the steel stud framing. Fasten using min. #6 x 1-1/4 in. long, Type S screws spaced at maximum 8 in. (oc) around the perimeter and 12 in. (oc) in the field.

   A. JOINT TREATMENT (Not Shown): Install Tremco® Tremflex® 834 sealant over all joints of the exterior sheathing (Item 3).

4. **WEATHER-RESISTIVE BARRIER (Not Shown):** Install a maximum of 48 mils (wet film thickness) of Tremco® EXOAIR® 230 over the exterior sheathing (Item 3) by rolling, brushing, or spraying.

5. **FURRING SYSTEM:** Install min. 16 GA, 2 in. x 2 in. x 2 in. galvanized steel z-girts and min. 16 GA, 2 in. x 2 in. x 4 in. galvanized steel j-channels, both oriented horizontally and spaced 16 in. (oc). Fasten the z-girts and j-channels with min. #12-14 x 2 in. hex washer head self-drilling screws, spaced to match the spacing of the steel stud framing (Item 2).

   At each fastener location, prior to fully driving in the screw, apply a small (nom. 1/4 in. thick) bead of Tremco® Spectrem® 2 sealant over the interface of the exterior sheathing (Item 3) and the screw, and then completely fasten the screw over the z-girt.

6. **CAVITY INSULATION:** Use only mineral wool insulation bearing an Intertek Certified Label and meeting the following requirements:

   Install nom. 2 in. thick, 4.4 pcf density, mineral wool insulation certified to NFPA 285 in the cavities of the furring system (Item 5). The cavity insulation is friction fit into the cavities.

7. **EXTERIOR CLADDING:** Install exterior cladding with the following requirements:

   A. ALUMINUM TERMINATION EXTRUSIONS (Not Shown): Install min. 0.125 in thick, 2 in. x 1-/2 in. aluminum termination extrusions at the termination edges of the wall assembly (top, bottom, and side ends) and around openings with the leg perpendicular to wall, flush with the edges of the opening. Fasten the aluminum termination extrusion to the furring system (item 5) using min. #10-16 x 1 in. hex washer head self-drilling screws. A max. 4 mm thick aluminum spline is installed into the track of the extrusion.

   B. ALUMINUM COMPOSITE MATERIAL (ACM) PANELS: Install 4 mm ALPOLIC® FR aluminum composite material (ACM) panels bearing the Intertek Certified Label.

      Install panels such that a maximum 1/2 in. wide panel-to-panel joint (both vertical and horizontal) is provided.

      ACM panels have pre-installed aluminum system extrusions around the perimeter of the panel. The ACM panels have a nom. 1 in. return leg which creates a max. 1-1/2 in. air cavity between the interior face of the ACM panel and the exterior face of the cavity insulation (Item 6). Fasten the ACM panel via the aluminum extrusion to the furring system (Item 5) using min. #10-16 x 1 in. hex washer head self-drilling screws. A

max. 4 mm thick aluminum spline is installed into the track of the extrusion. The bottommost row and topmost row of panels are fastened at both the top and bottom of the panel via the aluminum extrusions. The subsequent rows above the bottommost row only fasten at the top of the panel and the bottom of the panel is keyed into the extrusion of the panel below it. Lateral terminations of panels are keyed into the aluminum termination extrusions (Item 7A).

8. **FLASHING (Not Shown):** Install min. 0.040 in. thick aluminum sheet metal flashing sized to span the entire thickness of the wall assembly, flush with the exterior edge of the exterior cladding (Item 7) and the 90°, min. 2 in. long leg, overlapping the interior face of the interior gypsum wall board (Item 1). Fasten the flashing with min. # 6 x 1-1/4 in. Type S screws spaced max. 12 in. (oc).

Consult the listing report on the Directory of Building Products (https://bpdirectory.intertek.com) for the edition of the standard(s) evaluated.

Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.