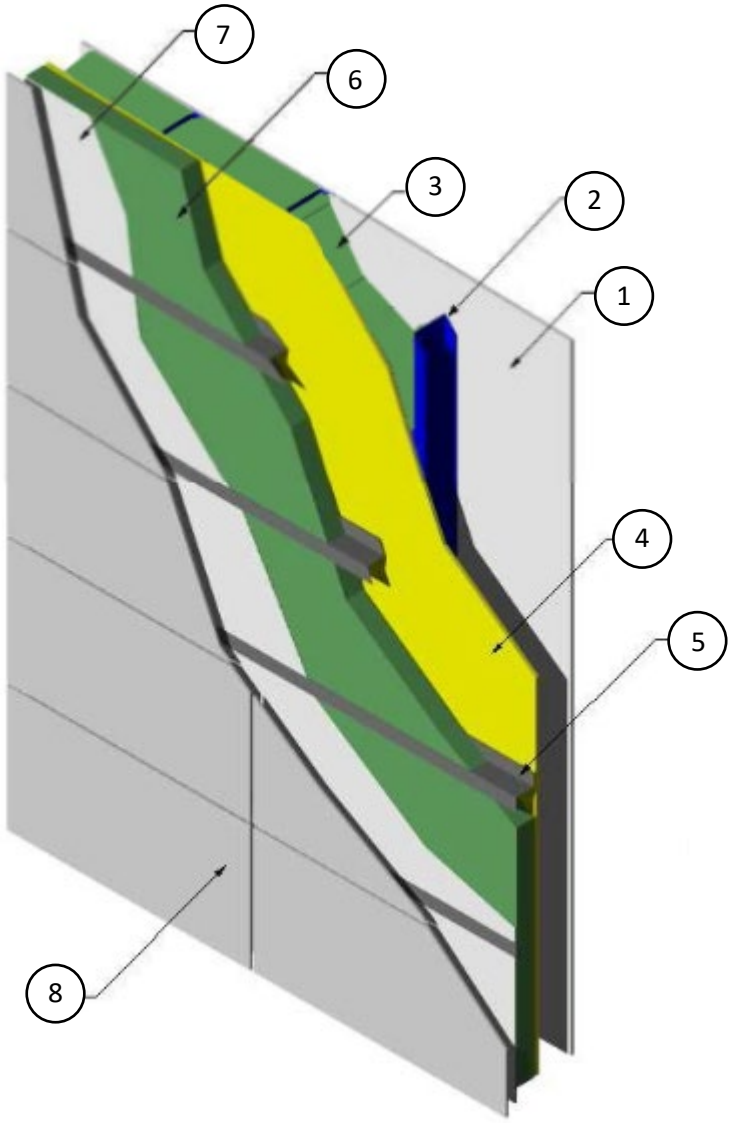
**XCELUS BUILDING SYSTEMS, INC.**
**Design No. XBS/FI 30-01**
**Non-Load Bearing Wall System**
**XCELUS XLS 1800**
**NFPA 285**
**Rating: Meets Requirements**




1. **GYPSUM BOARD:** Install min. one layer of 5/8 in. Type X gypsum board complying with ASTM C1396, with the long dimension perpendicular to the steel studs. Attach to steel studs using min. No. 6 x 1-1/4 in. long, self-tapping bugle-head screws, spaced 8 in. on center (oc) around the perimeter and min. 12 in. oc in the field.

A. JOINT TAPE AND COMPOUND – (Not Shown) Apply a level 2 finish of vinyl or casein, dry or premixed, joint compound applied to the following elements: Apply to face layer of gypsum board in two coats to all exposed fastener heads and gypsum board joints. Embed min. 2 in. wide paper, plastic, or fiberglass tape in first layer of compound over joints in gypsum board.

2. **STEEL STUDS:** Use min. 20 GA, 3-5/8 in. deep x 1-1/4 in. galvanized steel studs spaced at max. 24 in. oc. Secure steel studs to min. 20 GA, 3-5/8 in. deep, galvanized steel top and bottom track using min. No. 6 x 1/2 in. long self-tapping screws (min. two per stud, one at the top and one at the bottom.)

3. **CAVITY INSULATION:**

   **CERTIFIED PRODUCT:** Xcelus Building Systems, medium density closed-cell polyurethane foam insulation, XLS 1800.

   The cavity insulation is sprayed in accordance with the manufacturer's instructions, into the stud cavities, to the full thickness of the cavity. Floorline firestopping shall consist of min. 4 pcf mineral wool friction fit between the steel studs.

4. **EXTERIOR SHEATHING:** Install min. one layer of 1/2 in. gypsum board complying with ASTM C1396, with the long dimension perpendicular to the steel studs. Attach to steel studs using min. No. 6 x 1-1/4 in. long, self-tapping bugle-head screws, spaced 8 in. oc around the perimeter and min. 12 in. oc in the field.

   A. WATER-RESISTIVE BARRIER – (Not Shown) Use Senershield RS Vapor Permeable water-resistive barrier (ICC-ES ESR-1378). One coat, max. 12 wet mils thickness, applied to exterior sheathing.

5. **Z-GIRT:** Install max. nominal 6 in. deep Strongwell STRONGIRT® ULTRA Z-girts over exterior sheathing, spaced max. 22-1/2 in. above openings in the exterior wall assembly and max. 30 in. oc thereafter. The Z-girts are installed in a horizontal orientation using min. #14 x 2 in. long steel screws with integrated washer spaced max. 24 in. oc.

6. **EXTERIOR INSULATION:**

   **CERTIFIED PRODUCT:** Xcelus Building Systems, medium density closed-cell polyurethane foam insulation, XLS 1800.

   Spray-apply max. 5-1/2 in. thick XLS 1800 polyurethane foam insulation over the exterior sheathing between Z-girts. Ensure overspray is removed from the face of the Z-girts after application of insulation.

7. **INTUMESCENT COATING:** Apply No-Burn ThB Spray Seal intumescent coating (IAPMO ER-0305) at a nominal thickness of 15 mils (wet film thickness) over exterior insulation and Z-girts.

8. **EXTERIOR VENEER:** Install Alucobond® Plus (4 mm) aluminum composite panel system (ICC-ES ESR-1185) on the exterior face of the wall assembly. Secure panels to Z-girts using #12 x 1 in. long steel screws spaced nominal 16 in. oc. A max. 2 in. air gap between the interior face of the aluminum composite panel and the exterior face of the exterior insulation may be used.

9. **FLASHING:** (Not Shown) Install min. 0.040 in. thick aluminum flashing in openings and flush with the exterior face per manufacturer's installation instructions.

*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.*