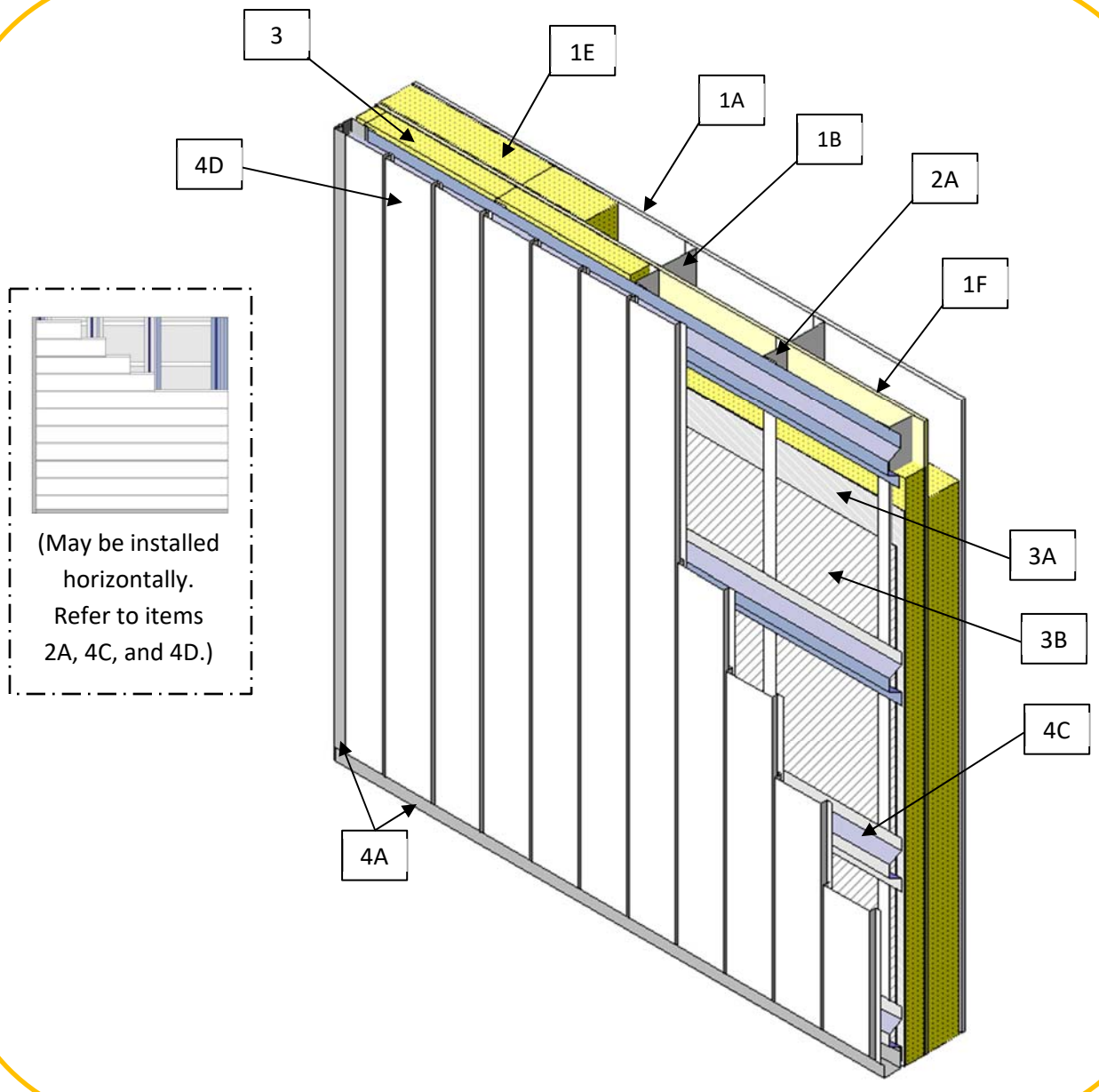
**BASF Corporation**
**Design No. BASF/FI 30-09**
**Non-Loadbearing Wall System**
**WALLTITE® LWP, WALLTITE® US, Spraytite® Comfort, and Enertite® G**
**NFPA 285**
**Rating: Meets Requirements**



1. **BASE WALL:** Base wall construction may consist of cast concrete walls, concrete masonry units (CMU), or shall consist of the following:

   A. INTERIOR FINISH: Install nominal 5/8 in. thick Type X gypsum board (complying with ASTM C1396) with the long dimension perpendicular to the steel studs (Item 1B) using, at a minimum, Type-S #6 × 1-1/4 in. long self-tapping bugle head screws, spaced 8 in. on center (oc) along the perimeter and 12 in. oc in the field.

   B. STEEL STUD FRAMING: Use min. 20 GA, 1.5 in x 3-5/8 in. deep or 6 in. deep galvanized steel studs spaced, at a maximum, 24 in. oc. Secure steel studs to a min. 20 GA top and bottom tracks using at a min. 1/2 in. long self-tapping pan head screws.

   C. FLOORLINE FIRESTOPPING (Not Shown)**:** Install a min. 4 pcf mineral wool in each framing cavity (thickness to match framing depth), at each floorline.

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

   E. **CERTIFIED MANUFACTURER:** BASF Corporation

      **CERTIFIED PRODUCT:** Polyurethane Foam Insulation

      **CERTIFIED MODEL:** WALLTITE® LWP, WALLTITE® US, Spraytite® Comfort, or Enertite® G

      **INTERIOR INSULATION:** Spray-apply nominal 2.0 pcf density of WALLTITE® LWP, WALLTITE® US, Spraytite® Comfort or nominal 0.5 pcf density Enertite® G polyurethane foam insulation directly on the interior-side of the Exterior Sheathing (Item 1F). The Steel Stud Framing (Item 1B) cavity may be partially or fully filled with polyurethane foam insulation. When partially filled cavities are used, the polyurethane foam insulation shall be spray-applied to a thickness that allows for a max. 4 in. air cavity between the polyurethane foam insulation and the Interior Finish. (Item 1A).

   F. EXTERIOR SHEATHING: Install min. 1/2 in. thick fiberglass mat, exterior gypsum board (complying with ASTM C1177) with the long dimension perpendicular to the Steel Stud Framing (Item 1B) using min. Type-S #6 × 1-1/4 in. long self-tapping bugle head screws, spaced 8 in. oc along the perimeter and 12 in. oc in the field.

   G. AIR/WATER-RESISTIVE BARRIER (Optional, Not Shown)**:** Use BASF MasterSeal® AWB 660 or equivalent. One coat, max. 10 wet mils thickness, applied to the Exterior Sheathing (Item 1F).

2. **SUPPORT STRUCTURE:** The Support Structure for the Exterior Wall System (Item 4) shall consist of the following:

   A. Z-GIRTS: Z-girts may be oriented vertically or horizontally. Use Z-girts made of 20 GA galvanized steel with 4 in. web and 2 in. legs. Vertical Z-girts shall be installed on the

Exterior Sheathing (Item 1F) spaced 24 in. oc. A horizontal Z-girt, with the outer leg oriented downward, shall be installed on the Exterior Sheathing (Item 1F) at the top and bottom of the wall, and at each floorline as a through wall flashing.

B. INSULATION STOPS (Not Shown)**:** Use metal closures made of min. 20 GA galvanized steel at edges of wall and at openings.

**3. CERTIFIED MANUFACTURER:** BASF Corporation

**CERTIFIED PRODUCT:** Polyurethane Foam Insulation

**CERTIFIED MODEL:** WALLTITE® LWP or WALLTITE® US

**EXTERIOR INSULATION:** Spray-apply a max. 3-1/2 in. thick, nominal 2.0 pcf density WALLTITE® LWP or WALLTITE® US polyurethane foam insulation directly on the Exterior Sheathing (Item 1F) between the Z-girts (Item 2A) and Insulation Stops (Item 2B). The Exterior Insulation must be coated by the following materials after installation:

A. INTUMESCENT COATING: Spray-apply No-Burn Inc., No-Burn Plus ThB intumescent coating over the Exterior Insulation (Item 3) at a nominal thickness of 15 wet mils.

B. OVERCOAT: Apply Behr Premium Plus Exterior Paint or equivalent. One coat, with a uniform thickness of max. 6 wet mils, applied over the Intumescent Coating (Item 3A).

**4. EXTERIOR WALL SYSTEM:** The Exterior Wall System shall consist of the following:

A. CLOSURES: Use Closures made of min. 20 GA aluminum with 3 in. web × 3 in. leg × 2 in. leg. Closures shall be installed over the Support Structure (Item 2) around the perimeter of wall, at floorlines, and around window openings. When installed horizontally, the 3 in. leg is fastened to the Z-girts (Item 2A) using one min. Type-S, #8 × 3/4 in. long self-tapping pan-head screw at each Z-girt location. When installed vertically, the 3 in. leg is fastened to the Z-girts using min. Type-S, #8 × 3/4 in. long self-tapping pan-head screws spaced 12 in. oc.

At the floorlines, J-trim and Z-flashings are utilized to finish the cut ends.

B. DRIP CAP (Not Shown): Use Drip Caps made of min. 20 GA aluminum. The Drip Caps shall be installed horizontally, at the top of the wall assembly, at the bottom of the wall assembly, and at openings using one min. Type-S, #8 × 3/4 in. long self-tapping pan-head screw at each Z-girt location.

C. HAT CHANNELS: Use Hat Channels made of 18 GA galvanized steel. Hat Channels may be vented or unvented. Hat Channels may be installed vertically or horizontally over the Support Structure (Item 2) spaced with max. 24 in. oc and fastened at each Z-girt (Item 2A) location across the span of Hat Channel using one min. Type-S, #8 × 3/4 in. long self-tapping pan-head screw on both the upper and lower flange of the Hat Channel.

D. EXTERIOR WALL CLADDING: Install max. 20 GA aluminum or steel cladding oriented vertically or horizontally with no opening between adjacent cladding. The cladding may be installed vertically or horizontally fastened on one edge with the opposite edge interlocked to the adjacent cladding edge. Cladding fasteners are a min. Type-S

#8 × 3/4 in. long self-tapping pan-head screw.

Alternate cladding types consisting of noncombustible materials such as steel, stone veneer, brick, concrete, etc. may be used.

The combination of the air cavity created by the Hat Channels (Item 4C) and the Exterior Wall Cladding (Item 4D), allow for an overall max. air cavity of 3 in. between the Exterior Wall Cladding and the Exterior Insulation (Item 3).

E. SEALANT (Not Shown): Install a bead of silicone-based sealant at the following typical locations [for moisture control]: along all the interfaces between the Closures (Item 4A) and the face of the Exterior Wall Cladding (Item 4D) and at interfaces between Drip Cap (Item 4B) and Exterior Wall Cladding, etc. Weep hole openings in the sealants are permitted. Where sealing of vertical joints between adjacent Exterior Wall Cladding (Item 4D) panels is required, only use 100% silicone sealant.

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