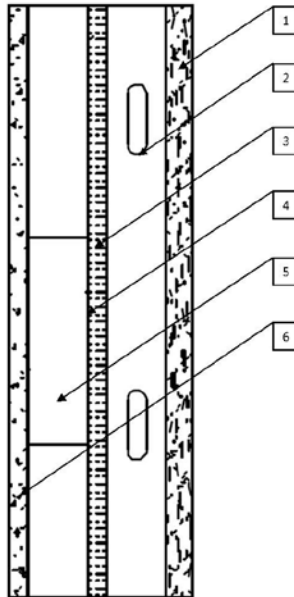


InSoFast, LLC
Design No. ISF/BI 30-01
Exterior Wall System
InSoFast® EX 2.5 Panels
NFPA 285
Rating: Meets the Requirements



1. **INTERIOR FINISH:** For steel stud wall framing as described in Item 2, use min. 5/8 in. thick Type X gypsum board meeting the requirements of ASTM C1396. Fasten gypsum board to the wall framing (Item 2) using #6 x 1-1/4 in long self-tapping screws for steel stud walls; use 1/4 x 1-1/4 in. long concrete screws for cast-in-place concrete or cement masonry unit walls, with a nominal spacing of 8 in. on center (oc) around the board perimeter and 12 in. oc in the field.

JOINT TAPE AND COMPOUND: (Not Shown)
 Apply a Level 2 finish of vinyl or casein, dry or premixed joint compound (ASTM C475) applied in two coats to all exposed fastener heads and gypsum board joints. Embed min. 2 in. wide paper, plastic, or fiberglass tape (ASTM C475) in first layer of compound over joints in gypsum board (Item 1).

2. **WALL FRAMING:** Use cast-in-place concrete, cement masonry unit, or min. 3-5/8 in. deep No. 20 GA galvanized steel studs spaced at 24 in. oc, fastened into 3-5/8 in. deep No. 20 GA galvanized steel track using #6 x 1/2 in. long self-tapping screws. Min. 4 pcf mineral fiber insulation is friction-fit in stud cavities at floor lines.

OPTIONAL – Fill or partially fill steel stud wall cavity with noncombustible insulation, mineral fiber, or fiberglass insulation meeting FSI \leq 25 and SDI \leq 450 when tested in accordance with ASTM E84.

3. **EXTERIOR SHEATHING:** Use min. 1/2 in. thick glass-mat exterior gypsum sheathing, meeting the requirements of ASTM C1177 or C1658. Fasten sheathing to the wall framing using #6 x 1-1/4 in. long self-tapping screws, with a



nominal spacing of 8 in. oc around the board perimeter and 12 in. oc in the field for galvanized steel stud construction as described in Item 2. For the attachment of exterior sheathing (Item 3) to concrete and masonry construction, use approved fasteners that penetrate a min. of 1 in. into the construction.

JOINT TAPE AND COMPOUND: (Not Shown) Apply a Level 2 finish of vinyl or casein, dry or premixed joint compound (ASTM C475) applied in two coats to all exposed fastener heads and gypsum board joints. Embed min. 2 in. wide paper, plastic, or fiberglass tape (ASTM C475) in first layer of compound over joints in gypsum board (Item 1).

- 4. WATER-RESISTIVE BARRIER:** Use BASF MasterSeal AWB® 660 (recognized under ICC-ES ESR-3209) water-resistive barrier, roll-applied directly to the exterior side of the exterior sheathing at a min. thickness of 10 wet mils, or other Code-compliant water-resistive barrier of equal or lower heat release rate when tested in accordance with ASTM E1354 at the intended thickness for use, using an incident radiant heat flux of 50 kW/m².

- 5. CERTIFIED MANUFACTURER:** InSoFast, LLC

CERTIFIED PRODUCT: InSoFast® EX 2.5 Panels

Attach InSoFast® Panels directly over the water-resistive barrier using #9 × 3-1/2 in. long coarse thread Type W screws, spaced at 12 in. oc through each panel molded-in attachment stud for steel stud wall assemblies; use approved fasteners that penetrate a min. of 1 in. into the construction for concrete masonry construction.

- 6. EXTERIOR SHEATHING:** To serve as a sheathing for the exterior covering (Item 7), fasten min.

1/2 in. thick cement board meeting the requirements of ASTM C1325, or min. 1/2 in. thick glass-mat gypsum board meeting the requirements of ASTM C1177 or ASTM C1658, over the InSoFast® Panels and directly into the InSoFast® Panel's molded-in attachment studs using 1-5/8 in. sharp-point cement board screws, spaced at 8 in. oc around the board perimeter and 12 in. oc in the field.

JOINT TAPE AND COMPOUND: (Not Shown) Apply a Level 2 finish of vinyl or casein, dry or premixed joint compound (ASTM C475) applied in two coats to all exposed fastener heads and gypsum board joints. Embed min. 2 in. wide paper, plastic, or fiberglass tape (ASTM C475) in first layer of compound over joints in gypsum board (Item 1).

- 7. EXTERIOR WALL COVERING:** (Not Shown) The following wall covering materials may be attached over the exterior sheathing (Item 6).
- A. EIFS coating, specified by the InSoFast, that is recognized as a component in an NFPA 285 complying EIFS system with a max. thermal mass of 3.125 pcf-in.
 - B. Adhered thin brick or stone using noncombustible mortar.
 - C. Fiber cement lap or panels (or any noncombustible cladding) mechanically fastened using the method as described in Intertek CCRR-1029, Section 5.2.2.2 for wall covering, with or without metal furring channels into the InSoFast® Panel molded-in attachment studs.
 - D. Vertical or horizontal, steel or aluminum cladding mechanically fastened with or without metal furring channels or noncombustible mounting elements that are fastened into the InSoFast® Panel molded-in attachment studs.