CARLISLE SPRAY FOAM INSULATION

WALL ASSEMBLY GUIDE

NFPA 285

Per Chapter 26 of the International Building Code, the wall assembly shall be tested in accordance with and comply with the acceptance criteria of NFPA 285. The listed assemblies in this document have met that criteria.

SEALTITE™ PRO SPRAY FOAM INSULATION AS EXTERIOR AND/OR CAVITY INSULATION

BASE WALL SYSTEM **Use item 1, 2, 3, or 4**	1. Concrete Wall 2. Concrete Masonry Wall 3. Steel Stud Wall – 1-layer ⅝ inch thick type X gypsum wallboard on the interior, installed on minimum 3⅝ inch deep, 20-gauge steel studs, spaced a maximum of 24 inches on center 4. Fire Retardant Treated (FRT) Stud Wall – 1-layer ⅝ inch thick type X gypsum wallboard on the interior, installed on 2x4 (min.) Fire Retardant Treated studs spaced a maximum of 24 inches on center
FLOOR LINE FIRE STOPPING **Use item 1 or 2**	1. 4 inch 4 pcf mineral wool (friction fit or installed with Z-Clips) 2. Fire Retardant Treated (FRT) lumber – 1.5-inch-thick (min.) FRT firestop may only be used with FRT framing
CAVITY INSULATION **Use items 1, 2, or 3 when steel framing is used. Use item 1 or 3 when FRT framing is used.**	1. None 2. Full stud cavity depth or less of Carlisle **SealTite™ PRO High Yield, SealTite PRO Open Cell, SealTite PRO No Mix, SealTite PRO No Trim 21, SealTite PRO OCX, SealTite PRO HFO** 3. Any Noncombustible or fiberglass insulation (faced or unfaced)
EXTERIOR SHEATHING	Minimum ½ inch thick exterior type gypsum sheathing
GIRTS **Use item 1, 2, or 3**	1. None 2. Metallic Girts 3. Smart Ci GreenGrit as listed in TER 1501-06 (Horizontal only) Note: Use girts only when mineral wool is being used. Mineral wool thickness must match the girt depth.
EXTERIOR INSULATION	1. **3½ in. max. SealTite PRO Closed Cell, SealTite PRO One Zero** (without coating for cladding 1-7, or with coating for Claddings 8 - 20). 2. **3½ in. max. SealTite PRO HFO** (without coating for Claddings 1 - 7, or with coating for Claddings 8 - 21). Coating over foam for Claddings 8 - 21 - IFTI DC315 (17 mil WFT) with Top Coat Paint (8 mils) WFT Sherwin Williams Sher-Cryl

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NFPA 285

WALLS WITH CARLISLE SPRAY FOAM INSULATION ON THE EXTERIOR

EXTERIOR CLADDING

Use only Items 1-7 when the DC315 coating system is not used.

Use any of Items 1 -20 when exterior SPF is coated with IFTIDC315 (17 mils WFT)with Top Coat Paint(8 mils WFT Sherwin Williams Sher-Cryl)

For Exterior Insulation 1,

Items 8-20, Air Gap cannot Exceed 2½ inches. All claddings non-open joint. Panel claddings may use vertical or horizontal metallic Z girt or horizontal GreenGirt attachment. Panel claddings may be vertical or horizontal.

For Exterior Insulation 2, "SealTite PRO HFO"

Items 8-21, Air Gap cannot Exceed 3¼ in. All claddings non-open joint. Panel claddings may use vertical or horizontal metallic Z girt or horizontal GreenGirt attachment. Panel claddings may be vertical or horizontal.

1. **Brick** – Nominal 4-inch clay brick or veneer with a maximum 2-inch air gap behind the brick. Brick Ties/Anchors 24-inch OC (max.)
2. **Precast Concrete Panels** – min. 1½ in. thick using any standard non-open joint installation technique such as shiplap, with max. 2 in. air gap behind the cladding
3. **Concrete Masonry Units** – Min. 2 in. thick with max 2 in. air gap between exterior wall insulation and concrete masonry units
4. **Stucco** – min. ¾ in. thick exterior cement plaster and lath with approved WRB over exterior insulation
5. **Natural Stone** (granite, limestone, marble, sandstone) – 2-inch (min.) using any standard non-open joint installation technique
6. **Artificial Cast Stone** – 1½ inch (min.) using any standard non-open joint installation technique.
7. **Terra Cotta Cladding** – 1¼ inch (min.) using any standard non-open joint installation technique
8. **Aluminum Cladding** – 0.030 in. min. thickness – non-open joint
9. **Steel Cladding** – 0.0149 in. min. thickness – non-open joint
10. **Copper Cladding** – 0.0216 in. min. thickness – non-open joint
11. **Zinc Cladding** – 0.040 in. min. thickness – non-open joint
12. **Terreal Zephir Evolution Rainscreen System** (or similar terra cotta), minimum 9⁄16 in. thick – non-open joint
13. **¼ In. Min. Fiber Cement Cladding** – non-open joint
14. **SwissPearl Carat Panels** – 0.315 in. min. thickness – non-open joint
15. **FunderMax M.Look** (min. ¼ in.) – non-open joint
16. **Concrete** – min. 1 in. thick - non-open joint
17. **CMU** – min. 1 in. thick – non-open joint
18. **Stone Veneer** – minimum 1 in. thick – non-open joint
19. **One Coat Stucco** – ⅜ in. (min.) exterior cement plaster and lath – non-open joint
20. **Thin Brick** adhered (with non-combustible mortar) to stucco base (min. ¾ in.) – non-open joint
21. **Any ACM or MCM** that has successfully passed NFPA 285 with foam insulation of comparable thickness (only with SealTite PRO HFO coated with the DC315/Shercryl coating listed above). The tested ACM was 4 mm Reynobond FR ACM.

WINDOW/DOOR PERIMETERS/ FLASHINGS

For Exterior Insulation 1, the window opening perimeters shall be per UL Design Listings EWS0013, EWS0029, or EWS0054, as applicable.

For FRT stud construction, openings are lined with 1½-inch thick FRT lumber.

For Exterior Insulation 2 (SealTite PRO HFO), the perimeter flashing may be 0.040 in. aluminum flashing or materials with higher melting points than aluminum.

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