

# 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.

FOAMSULATE SPRAY FOAM INSULATION AS EXTERIOR AND/OR CAVITY INSULATION	
<b>BASE WALL SYSTEM</b>  Use item 1, 2, 3, or 4	<ol style="list-style-type: none"> <li>1. Concrete Wall</li> <li>2. Concrete Masonry Wall</li> <li>3. Steel Stud Wall – 1-layer 5/8 inch thick type X gypsum wallboard on the interior, installed on minimum 3 inch deep, 20-gauge steel studs, spaced a maximum of 24 inches on center</li> <li>4. Fire Retardant Treated (FRT) Stud Wall – 1-layer 5/8 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</li> </ol>
<b>FLOOR LINE FIRE STOPPING</b>  Use item 1 or 2	<ol style="list-style-type: none"> <li>1. 4 inch 4 pcf mineral wool (friction fit or installed with Z-Clips)</li> <li>2. Fire Retardant Treated (FRT) lumber – 1.5-inch-thick (min.)</li> </ol> FRT firestop may only be used with FRT framing
<b>CAVITY INSULATION</b>  Use items 1, 2, or 3 when steel framing is used. Use item 1 or 3 when FRT framing is used.	<ol style="list-style-type: none"> <li>1. None</li> <li>2. Full stud cavity depth or less of <b>Foamsulate 50-HY, Foamsulate 50, Foamsulate 70, Foamsulate OCX, Foamsulate Closed Cell, Foamsulate HFO</b></li> <li>3. Any Noncombustible or fiberglass insulation (faced or unfaced)</li> </ol>
<b>EXTERIOR SHEATHING</b>	Minimum 1/2 inch thick exterior type gypsum sheathing
<b>EXTERIOR INSULATION</b>	3 in. max. Foamsulate Closed Cell, Foamsulate HFO

## WALLS WITH FOAMSULATE SPRAY FOAM INSULATION ON THE EXTERIOR

### EXTERIOR CLADDING

Use only Items 1–7 when DC315 coating system is not used

Use any of Items 1–20 when exterior SPF is coated with IFTI DC315 (16 mil WFT) with topcoat paint (8 mils WFT Sherwin Williams Sher-Cryl or equivalent)

For Items 8–20, Air Gap cannot Exceed 2½ inches. All claddings non-open joint. Panel claddings may use vertical or horizontal Z girt 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** – 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 ⅝-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** – ¾ 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

### WINDOW/DOOR PERIMETERS/FLASHINGS

The window opening perimeters shall be per UL Design Listings EWS0013, EWS0029, or EWS0054, as applicable