



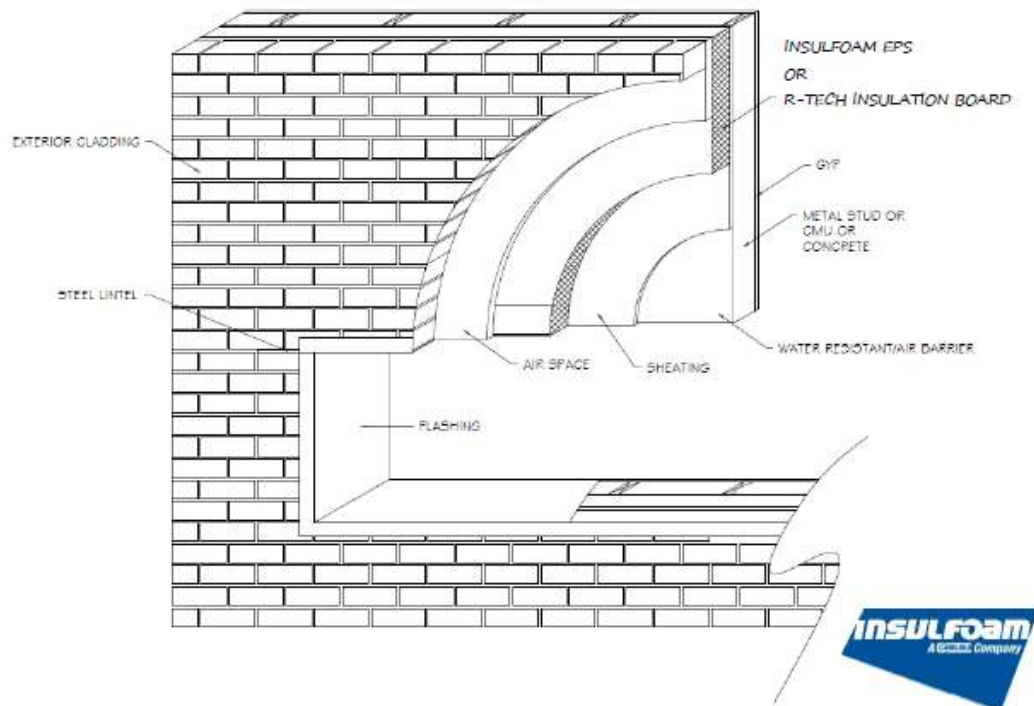
## TECHNICAL BULLETIN No. 1025

**DATE:** December 17, 2014

**SUBJECT:** Insulfoam Products and NFPA 285 Compliance

Insulfoam EPS products are recognized for use in wall assemblies that meet the requirements of NFPA 285. NFPA 285 is a fire test that is a requirement of the International Building Code (IBC) for multi-story walls containing foam plastic insulation in Types I, II, III and IV classified structures.

Insulfoam EPS products have been used in numerous Exterior Insulation Systems that have qualified NFPA 285 tested assemblies. Additional NFPA testing has been completed that expands the use of Insulfoam EPS products in several typical cavity wall constructions that are used in Type I, II, III, and IV classified buildings.



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The following are NFPA 285 compliant assemblies that may incorporate Insulfoam EPS products:

INSULFOAM EPS and R-TECH® WALL ASSEMBLIES	
WALL COMPONENT	DESCRIPTION
Base Wall (Use 1, 2 or 3)	<ol style="list-style-type: none"> <li>1. Cast Concrete Walls</li> <li>2. Concrete Masonry Wall (CMU)</li> <li>3. 25 Gauge (min) 3 5/8" (min) steel studs spaced 24" oc (max.)                             <ol style="list-style-type: none"> <li>a. Any 5/8" type X Gypsum Wallboard Interior (Note 1)</li> <li>b. Any 1/2" Exterior Gypsum Sheathing</li> <li>c. Lateral Bracing Every 4 ft. vertically</li> </ol> </li> </ol>
Fire Stopping at Floor Lines	<ol style="list-style-type: none"> <li>1. Any approved mineral fiber based safing insulation in each stud cavity at floor line. Safing thickness must match stud cavity depth. Use manufacturer instructions for installation.</li> </ol>
Cavity Insulation (Use 1, 2 or 3)	<ol style="list-style-type: none"> <li>1. None</li> <li>2. Any Class "A", "B" or "C" fiberglass batt insulation (faced or unfaced)</li> <li>3. Any noncombustible insulation</li> </ol>
Exterior Sheathing	<ol style="list-style-type: none"> <li>1. 1/2" or thicker exterior gypsum sheathing</li> </ol>
Weather Resistive Barrier (WRB) Over Base Wall Surface Use 1 or 2	<ol style="list-style-type: none"> <li>1. None</li> <li>2. Any of the following:                             <ul style="list-style-type: none"> <li>◆ Tremco EXOAir 230</li> <li>◆ BASF Enershield HP</li> <li>◆ BASF Enershield I</li> <li>◆ Grace Perm-A-Barrier VPS</li> <li>◆ Dupont Fluid Applied WB</li> <li>◆ Dupont Tyvek Commercial wrap (1 or 2 layers)</li> <li>◆ CCW Barritech NP (Carlisle Construction &amp; Waterproofing)</li> <li>◆ CCW Barrier VP (Carlisle Construction &amp; Waterproofing)</li> </ul> </li> </ol>
Exterior Insulation Use 1-6	<ol style="list-style-type: none"> <li>1. 10.75" (max) - Insulfoam I, R-TECH</li> <li>2. 8.25" (max) - Insulfoam VIII, R-TECH VIII</li> <li>3. 7.0" (max) - Insulfoam II, R-TECH X</li> <li>4. 5.25" (max) - Insulfoam IX, R-TECH IV</li> <li>5. 4.0" (max) - Insulfoam XIV, R-TECH VI</li> <li>6. 3.25" (max) - Insulfoam XV, R-TECH VII</li> </ol>
Weather Resistive Barrier (WRB) Over Exterior Insulation	<ol style="list-style-type: none"> <li>1. None</li> </ol>
Exterior Cladding Use either 1-8	<ol style="list-style-type: none"> <li>1. <u>Brick</u> - Nominal 4" clay brick or veneer with maximum 2" air gap behind the cladding. Brick with ties/anchors 24" o.c. (max).</li> <li>2. <u>Concrete</u> - Minimum 2" thick with maximum 2" air gap behind the cladding.</li> <li>3. <u>Concrete Masonry Units (CMU)</u> - Minimum 4" thick with maximum 2" air gap behind cladding.</li> <li>4. <u>Limestone</u> - Minimum 2" thick with non-open joints installation technique such as shiplap.</li> <li>5. <u>Natural Stone Veneer</u> - Minimum 2" thick with non-open joints installation technique such as shiplap.</li> <li>6. <u>Precast Artificial Stone</u> - Minimum 1.5" thick complying with ICC-ES, Acceptance Criteria 51 with non-open joint installation technique.</li> <li>7. <u>Terra Cotta Cladding</u> - Minimum 1.25" thick (solid) with non-open joint installation technique such as shiplap.</li> </ol>
Window Header Use either 1 or 2	<ol style="list-style-type: none"> <li>1. Flashing composed of 25 gauge (min) sheet metal (steel) with 1" thick, 4 lb/ft<sup>2</sup> mineral wool over interior of sheet steel.</li> <li>2. Any header design deemed more robust than item 1 per analysis.</li> </ol>

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