



CSI: DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 21 00—Thermal Insulation

Product Certification System:

The ICC-ES product-certification system includes evaluated evidence in support of test data in accordance with the standard(s) listed below. The system also involves factory inspections, and assessment and surveillance of the listee's quality system.

Product: ACCUFOAM CC-HFO SPRAY FOAM INSULATION

Listee: CREATIVE POLYMER SOLUTIONS, LLC

Evaluation: Accufoam CC-HFO Spray Foam Insulation (Closed-Cell) was evaluated based on testing in accordance with the following standards:

- NFPA 285 (-23 and -19), Standard Fire Test Method for the Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components, National Fire Protection Association.

Findings: Evaluation of Accufoam CC-HFO Spray Foam Insulation (Closed-Cell), as a component of the assembly, is based on testing in accordance with the applicable test method as referenced in each ICC Design No. and as a result from the recognized standards indicated above. Relevant code sections where the standards are referenced are listed below. Approval of the product's use and all other relevant code sections is the sole responsibility of the local code (building) official.

- 2024 and 2021 *International Building Code*® (IBC)
Applicable Section: 2603.5.5
- 2024 and 2021 *International Residential Code*® (IRC)
Applicable Section: R301.1.3

Identification:

1. The ICC-ES mark of conformity, electronic labeling, the listing report number (ICC-ES [ESL-1592](#)), and when applicable, the ICC-ES Listing Mark, along with the name, registered trademark, or registered logo of the listee must be included in the product label.
2. In addition, all packages and containers of Accufoam CC-HFO must be labeled with Creative Polymer Solutions, LLC name and address, component designation (A or B); the flame spread index and the smoke-developed index; the expiration date; and the name of the inspection body (ICC-ES).
3. The report holder's contact information is the following:

CREATIVE POLYMER SOLUTIONS, LLC
2720 SOUTHEASTERN CIRCLE
BIRMINGHAM, ALABAMA 35215
(205) 440-4996
www.creativepolymer.com

Installation: The product must be installed in accordance with the product application guide and the manufacturer's published technical data sheet, in compliance with the associated design listing and with all applicable codes.

Conditions of Listing:

1. The listing addresses only conformance with the standards and code sections noted above.
2. Approval of the product's use is the sole responsibility of the local code official.
3. The listing applies only to the materials tested and as submitted for review by ICC-ES.
4. Creative Polymer Solutions' Accufoam CC-HFO Spray Foam Insulation is manufactured under a quality control program with inspections by ICC-ES.

ICC Design No. TMP-1592-01

ESL-1592

Issued December 2024

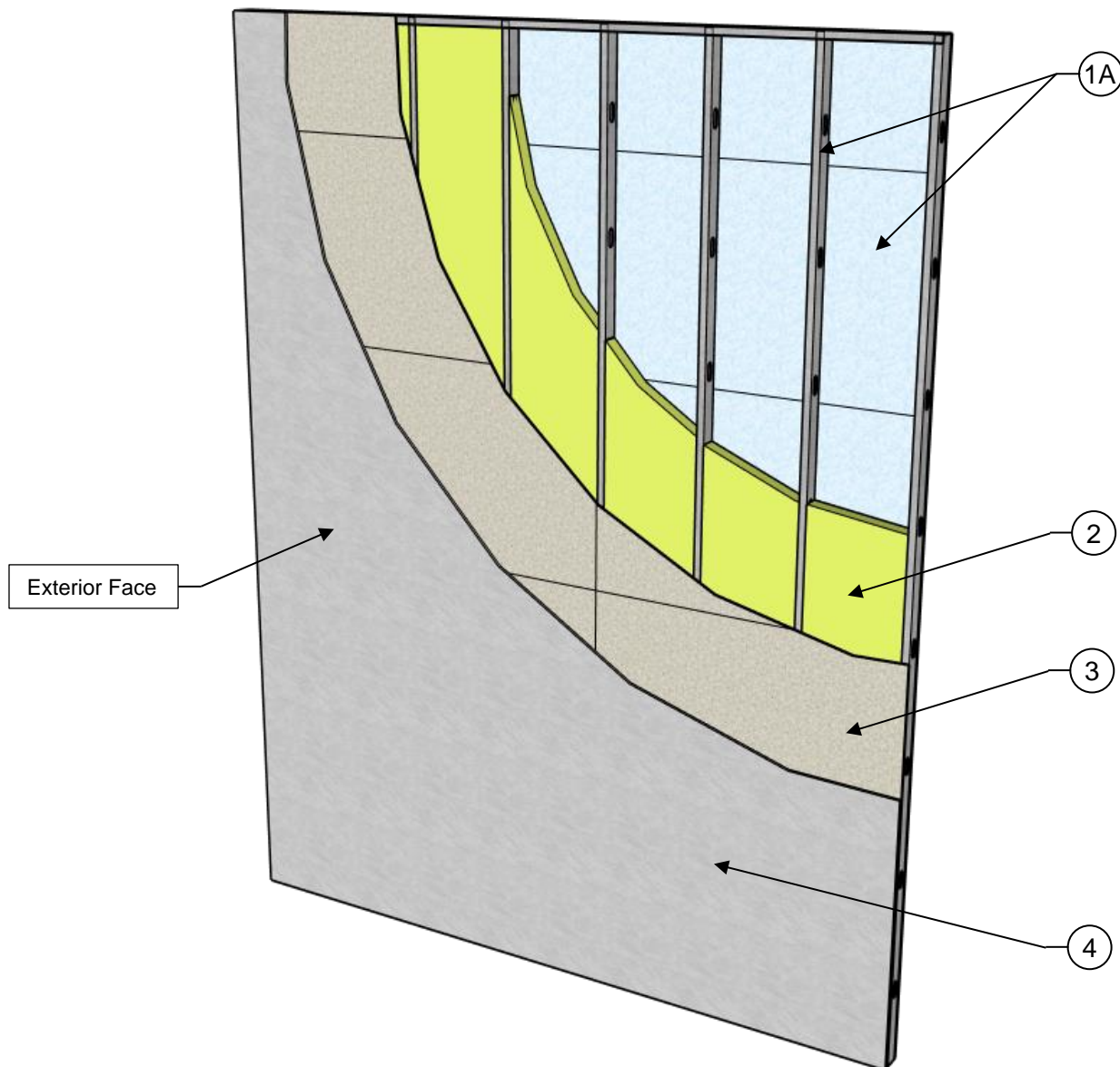
This listing is subject to renewal December 2025.

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Applicant: CREATIVE POLYMER SOLUTIONS, LLC
Product: ACCUFOAM CC-HFO SPRAY FOAM INSULATION
Standard: NFPA 285

TMP = Thermal and Moisture Protection



Listings are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the listing or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this listing, or as to any product covered by the listing.

COMPONENTS OF CONSTRUCTION:

ITEM NO.	WALL COMPONENTS	MATERIALS
1	Base Wall System— Use either A or B	<p>A — Cold-Formed Steel Studs (minimum 3 1/2-inch deep, minimum 20-gauge thick, spaced maximum 24 inches on center, laterally braced every 4 feet vertically) with one (1) layer of minimum 5/8-inch thick Type X gypsum wallboard, complying with ASTM C1396, installed on the interior side of the stud wall.</p> <p>B — FRT Wood Studs (minimum 2x4, spaced maximum 24 inches on center, laterally braced every 4 feet vertically) with one (1) layer of minimum 5/8-inch thick Type X gypsum wallboard, complying with ASTM C1396, installed on the interior side of the stud wall.¹</p>
	Floorline Firestopping (Not Shown)— Use A if 1A System Use B if 1B System	<p>A — Noncombustible mineral wool safing (minimum 4-inch thick, minimum density of 4.0 lbs./ft³) in each stud cavity and at each floorline. Mineral wool to be attached with z-clips or friction-fit (compressed a minimum of 25 percent) into each stud cavity. The depth of the insulation must match the stud cavity depth.</p> <p>B — Fire retardant treated (FRT) lumber (minimum 3-inch thick). The depth of the FRT lumber must match the stud cavity depth.¹</p>
2	Base Wall Cavity Insulation—	Maximum 3 1/2-inch thick of Accufoam CC-HFO Spray Foam Insulation (Closed-Cell) applied using exterior sheathing as the substrate and covering the width of the cavity (and the inside of the steel stud framing flange for Base Wall System 1A).
3	Exterior Sheathing — Use either A, B, or C	<p>A — One (1) layer of nominal 5/8-inch Type X gypsum sheathing, complying with ASTM C1177, installed vertically or horizontally, and attached directly to the framing on the exterior side of the stud wall.</p> <p>B — One (1) layer of nominal 5/8-inch Type X gypsum wallboard, complying with ASTM C1396, installed vertically or horizontally, and attached directly to the framing on the exterior side of the stud wall.</p> <p>C — One (1) layer of nominal 5/8-inch Type C gypsum wallboard, complying with ASTM C1396, installed vertically or horizontally, and attached directly to the framing on the exterior side of the stud wall.</p>
4	Exterior Wall Covering ^{2,3} — Use either A, B, or C	<p>A — Any noncombustible exterior wall covering material using any standard installation technique.⁵</p> <p>B — Any noncombustible exterior wall covering system with a combustible water-resistive barrier (WRB) recognized in an ICC-ES evaluation report or ICC-ES listing report for use as a component of an assembly that has successfully passed when tested in accordance with NFPA 285-19 (or more recent editions).⁴</p> <p>C — Any combustible exterior wall covering system recognized in an ICC-ES evaluation report or ICC-ES listing report for use as a component of an assembly that has successfully passed when tested in accordance with NFPA 285-19 (or more recent editions).</p>
	Window Perimeter/ Opening Protection ⁶ (Not Shown)— Use either A or B for Window Perimeter (depending on Base Wall System) and use C for Opening Protection	<p>For Window Perimeter of Base Wall Framing:</p> <p>A — Minimum 20-gauge thick steel stud framing around the perimeter of the window opening.</p> <p>B — Minimum 1 1/2-inch thick FRT wood window buck around the perimeter of the window opening.</p> <p>For Opening Protection:</p> <p>C — Requirements for the Opening Protection must follow the window details used with the respective approved Exterior Wall Covering System (Item 4) and must cover the opening header, jambs and sill from the interior sheathing to the exterior wall covering.</p>

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 lbs./ft³ = 16.01 kg/m³.

Footnotes:

¹Fire retardant treated (FRT) lumber must comply with 2024 and 2021 IBC Section 2303.2.

²Under the 2024 IBC, the noncombustible or combustible exterior wall with or without a combustible water-resistive barrier must be tested in accordance with the 2023 edition of NFPA 285 (2019 edition of NFPA 285 for 2021 IBC).

³The Exterior Wall Covering system must be designed to handle gravity and wind loads, per applicable code.

⁴Water-resistive barrier (WRB) must be applied in accordance with the manufacturer's published application instructions, the ICC-ES evaluation report (if applicable) and the applicable code.

⁵Details of the exterior wall covering must be provided to the code official by the report holder, designer or specifier, with an engineering analysis demonstrating that (1) the exterior wall covering conforms to ASTM E136 and (2) the addition of the wall covering to the assembly described in this table does not negatively affect conformance of the assembly with the requirements of IBC Section 2603.5.

⁶Opening Protection options shown pertains to fire performance characteristics only. Requirements for opening flashing and waterproofing shall be in accordance with the manufacturer's published installation instructions.

ICC Design No. TMP-1592-02

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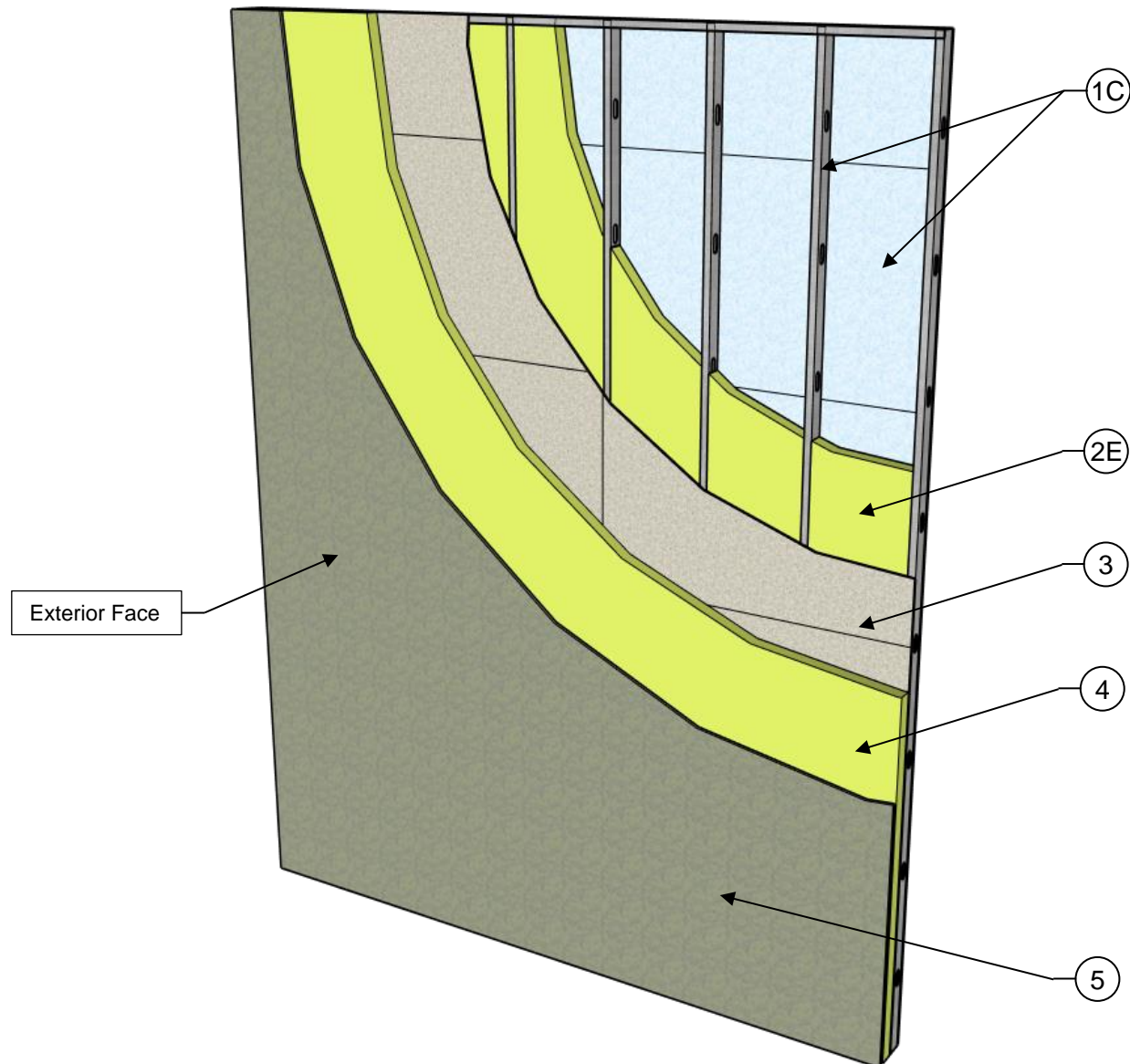
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Applicant: CREATIVE POLYMER SOLUTIONS, LLC
Product: ACCUFOAM CC-HFO SPRAY FOAM INSULATION
Standard: NFPA 285

TMP = Thermal and Moisture Protection



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COMPONENTS OF CONSTRUCTION:

ITEM NO.	WALL COMPONENTS	MATERIALS
1	Base Wall System— Use either A, B, C or D	<p>A — Concrete wall</p> <p>B — Concrete masonry wall</p> <p>C — Cold-Formed Steel Studs (minimum 3 $\frac{5}{8}$-inch deep, minimum 18-gauge, spaced maximum 24 inches on center, laterally braced every 4 feet vertically) with one (1) layer of minimum $\frac{5}{8}$-inch thick Type X gypsum wallboard, complying with ASTM C1396, installed on the interior side of the stud wall.</p> <p>D — FRT Wood Studs (minimum 2x4, spaced maximum 24 inches on center, laterally braced every 4 feet vertically), with one (1) layer of minimum $\frac{5}{8}$-inch thick Type X gypsum wallboard, complying with ASTM C1396, installed on the interior side of the stud wall.¹</p>
	Floorline Firestopping (Not Shown)— Use A if 1A, 1B, or 1C System Use B if 1D System	<p>A — Noncombustible mineral wool safing (minimum 4-inch thick, minimum density of 4.0 lbs./ft³) in each stud cavity and at each floorline. Mineral wool to be attached with z-clips or friction-fit (compressed a minimum of 25 percent) into each stud cavity. The depth of the insulation must match the stud cavity depth.</p> <p>B — Fire retardant treated (FRT) lumber (minimum 3-inch thick). The depth of the FRT lumber must match the stud cavity depth.¹</p>
2	Base Wall Cavity Insulation ² — Use A through E Restriction: E may only be used with either Exterior Sheathing 3B or 3C.	<p>A — None</p> <p>B — Fiberglass batt insulation, Class A (faced or unfaced) complying with applicable code.</p> <p>C — Mineral wool insulation (faced or unfaced), classified as noncombustible when tested in accordance with ASTM E136, complying with applicable code.</p> <p>D — Any noncombustible insulation, classified as noncombustible when tested in accordance with ASTM E136, complying with applicable code.</p> <p>E — Maximum 3 $\frac{1}{2}$-inch thick of Accufoam CC-HFO Spray Foam Insulation (Closed-Cell) applied using exterior sheathing as the substrate and covering the width of the cavity (and the inside of the steel stud framing flange for Base Wall System 1C). Full cavity fill only applies to a 3 $\frac{1}{2}$-inch thick stud depth.</p>
3	Exterior Sheathing — Use either A, B, or C Note: Only required with Base Wall Systems 1C and 1D	<p>A — One (1) layer of nominal $\frac{1}{2}$-inch Type X gypsum sheathing, complying with ASTM C1177, installed vertically or horizontally, and attached directly to the framing on the exterior side of the stud wall.</p> <p>B — One (1) layer of nominal $\frac{5}{8}$-inch Type X gypsum wallboard, complying with ASTM C1396, installed vertically or horizontally, and attached directly to the framing on the exterior side of the stud wall.</p> <p>C — One (1) layer of nominal $\frac{5}{8}$-inch Type X gypsum sheathing, complying with ASTM C1177, installed vertically or horizontally, and attached directly to the framing on the exterior side of the stud wall.</p>
4	Exterior Insulation—	Maximum 3 $\frac{7}{8}$ -inch thick of Accufoam CC-HFO Spray Foam Insulation (Closed-Cell) applied directly to the exterior face of the exterior sheathing for Base Wall Systems 1C and 1D, or directly to the exterior face for Base Wall Systems 1A and 1B.
5	Exterior Wall Covering ³ — Use A through F Note: Max. 2 $\frac{1}{2}$ -inch air gap between exterior insulation and inside face of exterior wall covering permitted.	<p>A — Brick — Standard nominal 4-inch thick clay brick with brick veneer anchors installed a maximum of 24 inches on center vertically on each stud.</p> <p>B — Cast Concrete — Minimum 2-inch thick, using any standard closed joint installation technique.</p> <p>C — Concrete masonry units (CMU) — Minimum 2-inch thick, using any standard closed joint installation technique.</p> <p>D — Natural stone veneer — Minimum 2-inch thick, using any standard closed joint installation technique.</p> <p>E — Terracotta Cladding — Use any terracotta cladding system in which the terracotta is minimum 1 $\frac{1}{4}$-inch thick, using any standard closed joint installation technique.</p> <p>F — Stucco — Minimum $\frac{3}{4}$-inch thick, code-complying three-coat exterior cement plaster and lath.</p>
	Window Perimeter/Opening Protection ⁴ (Not Shown)— Use either A or B for Window Perimeter (depending on Base Wall System) and use C for Opening Protection	<p>For Window Perimeter of Base Wall Framing:</p> <p>A — Minimum 18-gauge thick steel stud framing around the perimeter of the window opening.</p> <p>B — Minimum 1 $\frac{1}{2}$-inch thick FRT wood window buck around the perimeter of the window opening.</p> <p>For Opening Protection:</p> <p>C — Minimum 0.040-inch thick aluminum flashing installed at all openings to completely cover the opening header, jambs and sill from the interior sheathing to the exterior wall covering.</p>

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 lbs./ft³ = 16.01 kg/m³.

Footnotes:

¹Fire retardant treated (FRT) lumber must comply with 2024 and 2021 IBC Section 2303.2.

²Insulation must comply with the applicable requirements of 2024 and 2021 IBC Section 720.2.

³The Exterior Wall Covering system must be designed to handle gravity and wind loads, per applicable code.

⁴Opening Protection options shown pertains to fire performance characteristics only. Requirements for opening flashing and waterproofing shall be in accordance with the manufacturer's published installation instructions.

ICC Design No. TMP-1592-03

ESL-1592

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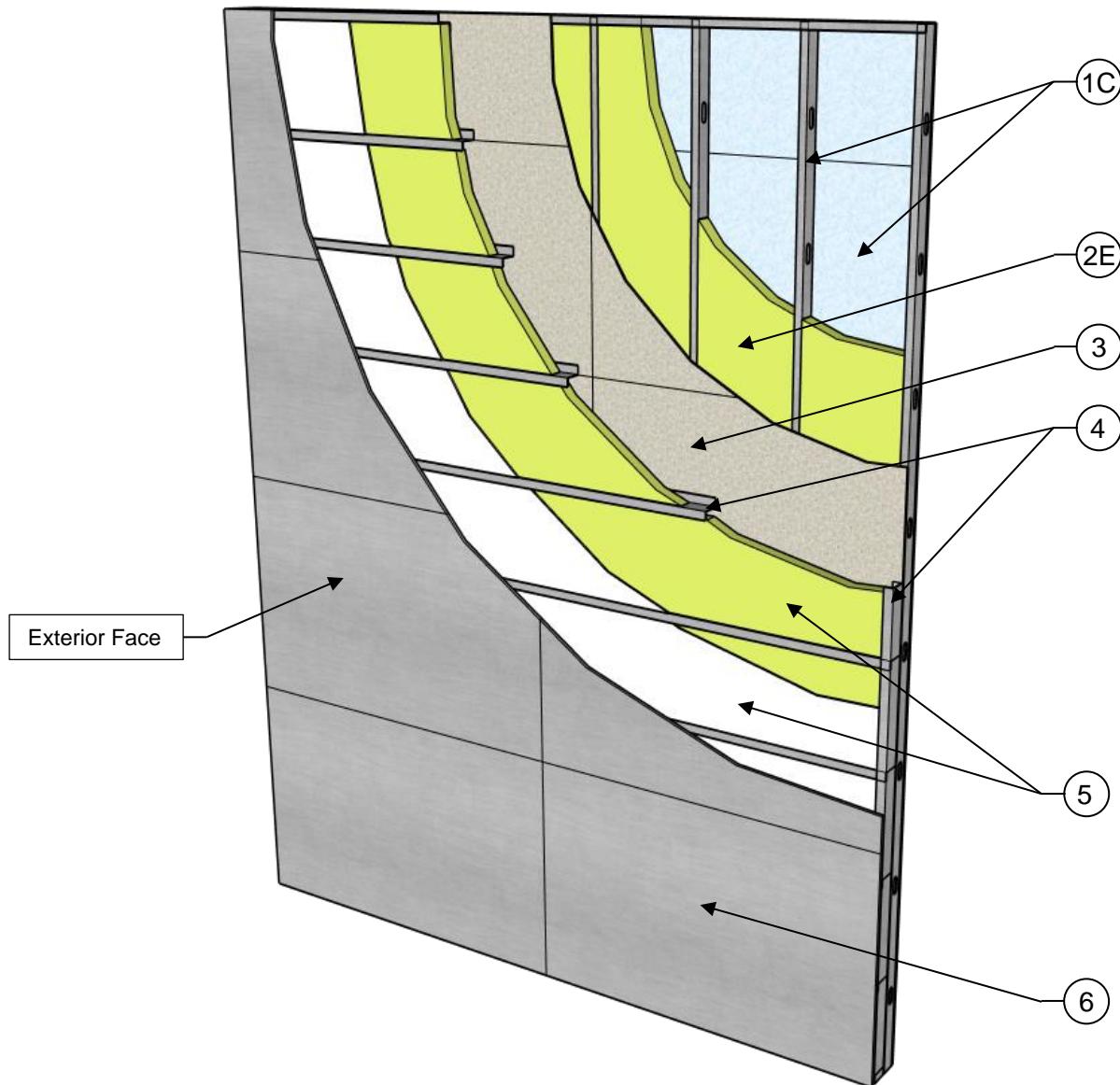
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Applicant: CREATIVE POLYMER SOLUTIONS, LLC
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Standard: NFPA 285

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1	Base Wall System— Use either A, B, C or D	<p>A — Concrete wall</p> <p>B — Concrete masonry wall</p> <p>C — Cold-Formed Steel Studs (minimum 3 $\frac{5}{8}$-inch deep, minimum 18-gauge, spaced maximum 24 inches on center, laterally braced every 4 feet vertically) with one (1) layer of minimum $\frac{5}{8}$-inch thick Type X gypsum wallboard, complying with ASTM C1396, installed on the interior side of the stud wall.</p> <p>D — FRT Wood Studs (minimum 2x4, spaced maximum 24 inches on center, laterally braced every 4 feet vertically), with one (1) layer of minimum $\frac{5}{8}$-inch thick Type X gypsum wallboard, complying with ASTM C1396, installed on the interior side of the stud wall.¹</p>
	Floorline Firestopping (Not Shown)— Use A if 1A, 1B, or 1C System Use B if 1D System	<p>A — Noncombustible mineral wool safing (minimum 4-inch thick, minimum density of 4.0 lbs./ft³) in each stud cavity and at each floorline. Mineral wool to be attached with z-clips or friction-fit (compressed a minimum of 25 percent) into each stud cavity. The depth of the insulation must match the stud cavity depth.</p> <p>B — Fire retardant treated (FRT) lumber (minimum 3-inch thick). The depth of the FRT lumber must match the stud cavity depth.¹</p>
2	Base Wall Cavity Insulation ² — Use A through E Restriction: E may only be used with either Exterior Sheathing 3B or 3C.	<p>A — None</p> <p>B — Fiberglass batt insulation, Class A (faced or unfaced) complying with applicable code.</p> <p>C — Mineral wool insulation (faced or unfaced), classified as noncombustible when tested in accordance with ASTM E136, complying with applicable code.</p> <p>D — Any noncombustible insulation, classified as noncombustible when tested in accordance with ASTM E136, complying with applicable code.</p> <p>E — Maximum 3 $\frac{1}{2}$-inch thick of Accufoam CC-HFO Spray Foam Insulation (Closed-Cell) applied using exterior sheathing as the substrate and covering the width of the cavity (and the inside of the steel stud framing flange for Base Wall System 1C). Full cavity fill only applies to a 3 $\frac{1}{2}$-inch thick stud depth.</p>
3	Exterior Sheathing — Use either A, B, or C Note: Only required with Base Wall Systems 1C and 1D	<p>A — One (1) layer of nominal $\frac{1}{2}$-inch Type X gypsum sheathing, complying with ASTM C1177, installed vertically or horizontally, and attached directly to the framing on the exterior side of the stud wall.</p> <p>B — One (1) layer of nominal $\frac{5}{8}$-inch Type X gypsum wallboard, complying with ASTM C1396, installed vertically or horizontally, and attached directly to the framing on the exterior side of the stud wall.</p> <p>C — One (1) layer of nominal $\frac{5}{8}$-inch Type X gypsum sheathing, complying with ASTM C1177, installed vertically or horizontally, and attached directly to the framing on the exterior side of the stud wall.</p>
4	Exterior Wall Covering Framing System—	Minimum 16-gauge thick, 4-inch deep galvanized steel C-channel with 1 $\frac{1}{2}$ -inch legs must be installed around the perimeter and any opening within the wall. The C-channels must be secured through the exterior sheathing to the studs or framing members. Minimum 16-gauge thick, 4-inch deep steel Z-girts with 1 $\frac{1}{2}$ -inch legs must be installed horizontally and secured through the exterior sheathing to the studs spaced at a maximum of 24-inches on center vertically.
5	Exterior Insulation ³ —	Maximum 3 $\frac{3}{4}$ -inch thick of Accufoam CC-HFO Spray Foam Insulation (Closed-Cell) applied directly to the exterior face of the exterior sheathing for Base Wall Systems 1C and 1D, or directly to the exterior face for Base Wall Systems 1A and 1B. No-Burn Plus ThB intumescent coating applied at a minimum 20 mils (0.51 mm) wet film thickness.
6	Exterior Wall Covering ⁴ — Use A through L Note: Max. 2 $\frac{1}{2}$ -inch air gap between the exterior face of the coated spray-applied foam plastic insulation and the back of the exterior wall covering permitted.	<p>A — Aluminum cladding panels, interlocking type – Minimum 0.12-inch thick, using any standard open or closed joint installation technique.</p> <p>B — Corrosion-resistant steel cladding panels, interlocking type – Minimum 0.0149-inch thick, using any standard open or closed joint installation technique.</p> <p>C — Cold-rolled copper cladding panels, interlocking type – Minimum 0.0216-inch thick, using any standard open or closed joint installation technique.</p> <p>D — Zinc cladding panels, interlocking type – Minimum 2.65 mm (0.104-inch) thick, using any standard open or closed joint installation technique.</p> <p>E — Fiber-cement siding – Minimum $\frac{1}{4}$-inch thick fiber-cement siding, classified as noncombustible when tested in accordance with ASTM E136, using any standard open or closed joint installation in accordance with the manufacturer's published installation instructions.</p> <p>F — Brick – Standard nominal 4-inch thick clay brick with brick veneer anchors installed a maximum of 24 inches on center vertically on each stud.</p> <p>G — Cast Concrete – Minimum 2-inch thick, using any standard closed joint installation technique.</p> <p>H — Concrete masonry units (CMU) – Minimum 2-inch thick, using any standard closed joint installation technique.</p> <p>I — Natural stone veneer – Minimum 2-inch thick, using any standard closed joint installation technique.</p> <p>J — Terracotta Cladding – Use any terracotta cladding system in which the terracotta is minimum 1 $\frac{1}{4}$-inch thick, using any standard closed joint installation technique.</p> <p>K — Stucco – Minimum $\frac{3}{4}$-inch thick, code-complying three-coat exterior cement plaster and lath.</p> <p>L — Thin brick veneer – Minimum $\frac{1}{4}$-inch thick, thin brick complying with ASTM C1088, adhered to minimum $\frac{3}{4}$-inch thick, code-complying three-coat exterior cement plaster and lath mortar bed.</p>

ITEM NO.	WALL COMPONENTS	MATERIALS
	Window Perimeter/ Opening Protection ⁵ (Not Shown)— Use either A or B for Window Perimeter (depending on Base Wall System) and use C for Opening Protection	For Window Perimeter of Base Wall Framing: A — Minimum 18-gauge thick steel stud framing around the perimeter of the window opening. B — Minimum 1 1/2-inch thick FRT wood window buck around the perimeter of the window opening. For Opening Protection: C — Minimum 0.040-inch thick aluminum flashing installed at all openings to completely cover the opening header, jambs and sill from the interior sheathing to the exterior wall covering.

For **SI**: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 lbs./ft³ = 16.01 kg/m³.

Footnotes:

- ¹Fire retardant treated (FRT) lumber must comply with 2024 and 2021 IBC Section 2303.2.
- ²Insulation must comply with the applicable requirements of 2024 and 2021 IBC Section 720.2.
- ³Coating must be applied in accordance with the coating manufacturer’s published installation and application instructions.
- ⁴The Exterior Wall Covering system must be designed to handle gravity and wind loads, per applicable code.
- ⁵Opening Protection options shown pertains to fire performance characteristics only. Requirements for opening flashing and waterproofing shall be in accordance with the manufacturer’s published installation instructions.