

CSI: DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 81 23—Intumescent Fireproofing

DIVISION: 09 00 00—FINISHES
Section: 09.96.43—Fire-Retardant Coatings

DIVISION: 09 00 00—FINISHES
Section: 09.96.46—Intumescent Painting

Product Certification System:

The ICC-ES product-certification system includes evaluating reports of tests of standard manufactured product, prepared by accredited testing laboratories and provided by the listee, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the listee's quality system.

Product: DC315 INTUMESCENT COATING

Listee: INTERNATIONAL FIREPROOF TECHNOLOGY INC.

Evaluation: DC315 intumescent coating, when applied with 18 mils WFT to spray foam insulation at a theoretical coverage rate of 89 sq.ft. per gallon, was evaluated based on testing to the following standards:

- NFPA 285 (-19, -12 and -06), Standard Fire Test Method for the Evaluation of Fire Propagation Characteristics of Exterior Non-load-bearing Wall Assemblies Containing Combustible Components, National Fire Protection Association.

Findings: DC315 intumescent coating has met the performance criteria in NFPA 285, as referenced in the applicable sections of the following code editions.

- 2021, 2018, 2015, and 2012 *International Building Code*®
Applicable Sections: 2603.5.5
- 2021, 2018, 2015, and 2012 *International Residential Code*®
Applicable Sections: R301.1.3

Identification:

1. All containers of DC315 coating must be labeled with the manufacturer's name (International Fireproof Technology Inc.) and address; the product name; the date of manufacturer; the shelf life or expiration dated, the manufacturer's instructions for application, the ICC-ES listing number (ESL-1286), and the ICC-ES Listing Mark, when applicable.
2. The report holder's contact information is the following:

INTERNATIONAL FIREPROOF TECHNOLOGY INC.
17528 VON KARMAN AVENUE
IRVINE, CALIFORNIA 92614
(949) 975-8588
ptp@painttoprotect.com

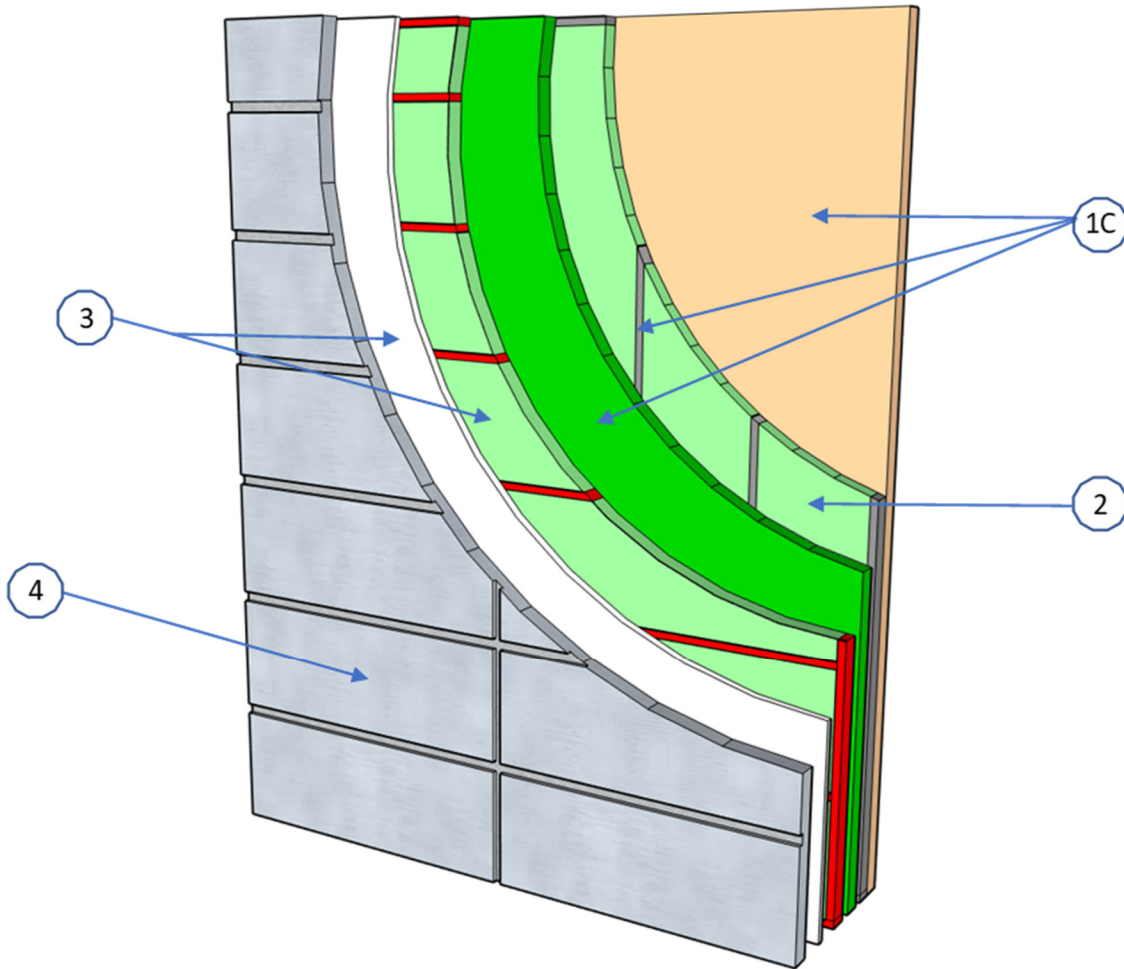
Installation: The product must be installed in accordance with International Fireproof Technology Inc.'s published installation instructions, in compliance with the associated design listing and with all applicable codes.

Conditions of listing:

1. The listing addresses only conformance with the standards and code sections noted above and installed as noted in the design listing.

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. Recognition is limited to the NFPA 285 test data for the coated spray foam. Evaluation for compliance of the spray foam insulation with other applicable requirements of the IBC and IRC are outside the scope of this report.
4. International Fireproof Technology Inc.'s DC315 is manufactured under a quality control program with inspections by ICC-ES.

Applicant: International Fireproof Technology Inc.
Product: DC315 Intumescent Coating
Standard: NFPA 285
Assembly Rating: 30 minutes



COMPONENTS OF CONSTRUCTION:

Item No.	WALL COMPONENTS	MATERIALS
1	Base wall system— Use either A, B or C	A — Concrete wall B — Concrete masonry wall C — 1 layer of 5/8-inch-thick Type X gypsum wallboard on interior, installed over minimum 3 5/8-inch-deep, minimum No. 20-gage steel studs spaced at a maximum of 24 inches on center with lateral bracing every 4 feet as required by the code. One Layer of minimum 1/2-inch thick ASTM C1177 complying exterior sheathing.
	Floor line firestopping	4 pcf mineral-fiber insulation friction-fit in each wall stud cavity at each floor line. Thickness must match stud cavity depth.
2	Cavity insulation— Use either A, B, C, D or E	A — None B — Spray-applied foam plastic insulation, maximum 3 5/8-inch-thick of Carlisle SealTite™ Pro (ESR-2072) applied to Base wall 3, covering the width of the stud cavity and either fully filling the stud cavity depth or partially filling the stud cavity depth leaving a maximum air space of 1 5/8 inches. C — Spray-applied foam plastic insulation, maximum 2 1/4 -inch-thick of Huntsman Building Solutions Heatlok HFO Pro (Closed Cell) applied to Base wall 3, covering the width of the stud cavity and partially filling the stud cavity depth leaving a maximum air space of 1 5/8 inches. D — Fiberglass batt insulation, Class A (faced or unfaced) ¹ E — Mineral-fiber insulation complying with ASTM E136 ¹
3	Exterior Insulation Use either A, B, or C	A — Maximum 3 1/2-inch-thick of Carlisle SealTite™ Pro Closed Cell (ESR-2072) spray foam insulation, applied directly to the exterior face of the exterior sheathing of Base wall C or directly to the exterior face of Base wall A or B and the exposed surface of the spray foam insulation must be covered with International Fireproof Technology, Inc. DC315 intumescent coating applied at a minimum 16 mils wet film thickness. The DC315 coating must be covered with Sherwin-Williams SHER-CRYL HPA topcoat applied at a minimum 12 mils wet film thickness. This option can be used with 2A, 2B, 2D, or 2E. ^{Footnotes 2,3} B — Heatlok HFO Pro Spray Foam Insulation Closed-Cell at a nominal thickness of 3-3/4" between the steel Z-girts, applied directly to the exterior face of the exterior sheathing of Base wall C or directly to the exterior face of Base wall A or B, DC315 intumescent coating applied at a minimum 18 mils wet film thickness. The DC315 coating must be covered with Sherwin-Williams SHER-CRYL HPA topcoat applied at a minimum 9 mils wet film thickness. This option can be used with 2A,, 2C, 2D or 2E. ^{Footnotes 2, 4} C — Gaco F1850 ccSPF or Gaco F1880 ccSPF Spray Foam Insulation Closed-Cell at a nominal thickness of 4" between the steel Z-girts, applied directly to the exterior face of the exterior sheathing of Base wall C or directly to the exterior face of Base wall A or B, DC315 intumescent coating applied at a minimum 18 mils wet film thickness. The DC315 coating must be covered with Sherwin-Williams SHER-CRYL HPA topcoat applied at a minimum 8 mils wet film thickness. This option must be used with 2A, 2D, or 2E. ^{Footnotes 2, 5}
4	Exterior wall covering—Use either A through L	A — Brick —Standard nominally 4-inch-thick clay brick with brick veneer anchors installed a maximum of 24 inches on center vertically on each stud. Maximum 2 1/2 -inch air gap between exterior insulation and brick. B — Cast concrete – Minimum 1–inch-thick, using any standard open or closed joint installation. Maximum 2 1/2 -inch air gap between exterior insulation and cast concrete. C — Concrete masonry units – Minimum 2 1/2–inch-thick, using any standard open or closed joint installation. Maximum 2 1/2 -inch air gap between exterior insulation and concrete masonry units. D — Natural stone veneer – Minimum 2-inch-thick, using any standard open or closed joint installation technique. E — Terracotta cladding – Use any terracotta cladding system in which the terracotta is minimum 1 1/4-inch-thick, using any standard open or closed joint installation technique. F — Stucco – Minimum 3/4 -inch-thick, code-complying three-coat exterior cement plaster and lath. G — Aluminum cladding panels, interlocking type – Minimum 0.030-inch-thick using the framing system specified in footnote 3 or 4 dependent on Spray Foam Used. H — Corrosion-resistant steel cladding panels, interlocking type – minimum 0.0149-inch-thick using the framing system specified in footnote 3 or 4 dependent on Spray Foam Used. I — Cold-rolled copper cladding panels, interlocking type – minimum 0.0216-inch-thick, minimum 16 ounces per square foot, using the framing system specified in footnote 3 or 4 dependent on Spray Foam Used. J — Fiber-cement siding – Minimum 0.25 inches thick, using any standard open or closed joint installation. K — One-coat Stucco – Minimum thickness as stated in a current ICC-ES evaluation report where the one-coat stucco has been qualified for compliance under AC11. L — Thin brick veneer – Minimum 1/4-inch thick, thin brick complying with ASTM C1088, adhered to minimum 3/4 -inch-thick, code-complying three-coat exterior cement plaster and lath mortar bed.
	Opening Flashing	Minimum 0.030-inch-thick aluminum flashing installed at all openings to completely cover the opening header, jambs and sill.

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

¹Insulation must comply with the applicable requirements of 2021, 2018, 2015 or 2012 IBC Section 720.2.

²Coating must be applied in accordance with the coating manufacturer's published installation instructions.

³Framing for Exterior wall coverings G, H, and I consist of minimum 22 gage steel 4-in. C-channel with $1\frac{3}{8}$ -inch legs (35 mm) installed around the perimeter of any opening through the exterior sheathing to the steel studs. 4-inch deep (101 mm), 20-gage steel Z-girts with 2-inch legs (51 mm) secured through exterior sheathing to studs at 24 inches (610 mm) on-center. Hat Channels [1-inch deep (25.4 mm), $3\frac{7}{8}$ -inch tall (99 mm)] 22-gage steel hat channels fastened at 24 inches (610 mm) on-center to the Z-girts. Z-girts may be installed horizontally or vertically. The cladding edges interlock together such that all edges and fasteners are concealed after installation. The maximum air space between the exterior face of the spray-applied foam plastic insulation and the back of the exterior wall covering cladding panels described in G, H and I must not exceed $2\frac{1}{2}$ inches (64 mm).

⁴Framing for Exterior wall coverings G, H, and I consist of minimum 18 gage steel 4-inch C-channel with $1\frac{1}{2}$ -inch legs (38 mm) installed around the perimeter of any opening through the exterior sheathing to the steel studs. 4-inch deep (101 mm), 18-gage steel Z-girts with 2-inch legs (51 mm) secured through exterior sheathing to studs at 24 inches (610 mm) on-center. Z-girts installed horizontally spaced 24 inches on center. The cladding edges interlock together such that all edges and fasteners are concealed after installation. The maximum air space between the exterior face of the spray-applied foam plastic insulation and the back of the exterior wall covering cladding panels described in 7, 8 and 9 must not exceed $2\frac{1}{2}$ inches (64 mm).

⁵Framing for Exterior wall coverings G, H, and I consist of minimum 22 gage steel 5-inch C-channel with $1\frac{1}{2}$ -inch legs (38 mm) installed around the perimeter of any opening through the exterior sheathing to the steel studs. 5-inch deep (127 mm), 22-gage steel Z-girts with 2-inch legs (51 mm) secured through exterior sheathing to studs at 24 inches (610 mm) on-center. Z-girts installed vertically spaced 24 inches on center. The cladding edges interlock together such that all edges and fasteners are concealed after installation. The maximum air space between the exterior face of the spray-applied foam plastic insulation and the back of the exterior wall covering cladding panels described in 7, 8 and 9 must not exceed 1 inch (25 mm).