

BUILDING PRODUCTS LISTING PROGRAM

Customer: **International Fireproof Technology Inc (IFTI)**

Class: Applied Fireproofing
Location: Irvine, CA
Website: www.painttoprotect.com

Listing No. B1117
Project No. B1117, Edition 3
Effective Date: Aug 23, 2018
Last Revised May 31, 2024

Date:
Standards: ASTM E84 “Standard Test Method for Surface Burning Characteristics of Building Materials”.

ASTM E84 “Standard Test Method for Surface Burning Characteristics of Building Materials”, Extended 20 minutes.

ASTM E2768 “Extended Duration Surface Burning Characteristics of Building Materials (30 Min Tunnel Test) “.

ASTM E119 “Standard Test Method for Fire Tests of Building Construction and Materials”.

CAN/ULC S101 “Standard Methods of Fire Endurance Tests of Building Construction and Materials.”

CAN/ULC S102 “Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.”

NFPA 286 “Standard Methods of Fire Tests Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth”.

CAN/ULC-S145 “Standard Method of Test for the Evaluation of Protective Coverings for Foamed Plastic Insulation - Full-Scale Room Test.”

Product: DC315 Intumescent Coating.

Description: DC315 is an intumescent coating used as an interior ignition or thermal barrier coating (Per International Building Code 2021) for application over spray polyurethane foam (SPF) Insulation. DC315 may be produced in the following colors: White, Ice Gray, Dark Gray and Charcoal Black.

Uses: DC315 is an ignition and thermal barrier coating (Per International Building Code 2021) for application to spray polyurethane foam (SPF) insulation. DC315 is a water based latex product. DC315 is typically applied with a paint sprayer, brush or roller. See manufacturers published installation instructions for application details.

Markings: Product is marked with labels or stamp supplied by IFTI to each container. The markings include:

- Manufacturer’s name, trademark, or other recognized symbol of identification,
- Product name,
- QAI File Number: B1117,
- Date of manufacture or date code on the label or stamp,
- ASTM E84 (ASTM E2768) Flame Spread Index / Smoke Developed Index
- QAI logo shown here:



Models / Ratings: **The following outlines ratings for DC315 evaluated per the noted methods:**

DC315 Intumescent Coating surface burning characteristics per ASTM E84 are outlined below:

PRODUCT	CLASSIFICATION		
	Thickness	Flame Spread Index	Smoke Developed Index
DC315 Intumescent Coating	min. 20 mils Wet Film Thickness (WFT)	≤ 25	≤ 450

DC315 Intumescent Coating surface burning characteristics per CAN/ULC S102 are outlined below:

PRODUCT	CLASSIFICATION		
	Thickness	Flame Spread Classification	Smoke Developed Classification
DC315 Intumescent Coating	min. 12 mils Wet Film Thickness (WFT) over Oriented Strandboard (OSB)	0	25

DC315 Intumescent Coating surface burning characteristics per ASTM E84 Extended 20 minutes (ASTM E2768) are outlined below:

PRODUCT	CLASSIFICATION			
	Thickness	Flame Spread Index	Significant Progressive Combustion	Max Flame Front (ft)
DC315 Intumescent Coating	min. 20 mils Wet Film Thickness (WFT)	≤ 25	No	≤ 10.5

DC315 CAN/ULC S145 approved room corner assemblies:

Standard	Ratings	Limitations
CAN/ULC S145	20-minute Classification.	DC315 when applied with a 3 WFT primer and a 25 WFT thickness - 20-minute classifications of ULC S145 when applied over thermosetting foam.

DC315 intumescent coating NFPA 286 room corner assemblies:

Standard	Ratings	Limitations
NFPA 286	Complies with section 2603.9 Special Approval of International Building Code (IBC) 2021 for installation without code prescribed thermal barrier.	See current IFTI Code Evaluation Report for required installation details and approved foam plastic types.

DC315 Approved CAN/ULC S101 and ASTM E119 Assemblies:

ASSEMBLY NO.	DESCRIPTION	RATING
11.2	<p>Exterior steel wall assembly constructed of minimum 26-gauge (0.45 mm) thickness fluted steel panels of 36-inches (914 mm) width with 1-1/4 inches (32 mm) depth ribs anchored at the top and bottom of panels with #8 1/2-inches (51 mm) length) self-tapping screws at each panel corner. Z-girts of minimum 20-gauge (0.9 mm) thickness of 4-inches (102 mm) depth with 2-inches (51 mm) legs are installed horizontally at 4-foot (spacing, with Z-girts secured with #8 1/2-inches (51 mm) length self-drilling screws. Over the fluted steel and between Z-girts, Genyk Boreal Nature Elite closed-cell, medium density spray-applied polyurethane foam insulation (SPF) is applied at a maximum thickness of 4 inches (102 mm) with a maximum density of 2.2 lbs/ft³ (35 kg/m³). After curing, the interior surface of Genyk Boreal Nature Elite foam insulation is coated with approximately 34 mils WFT (23 dry film thickness) applied at 2.15 gallons per 100 ft² (1.14 m²/L) DC315 intumescent paint.</p> <p>The above noted assembly complies for use in exterior walls with the following limitations:</p> <p>Where used in jurisdictions governed by the 2020/2015 National Building code of Canada the above-described exterior wall assembly is permitted where:</p> <ul style="list-style-type: none"> • Limiting distance ≥ 1.2 meters (3.9 ft) and, • A fraction of the exposed building face of the exterior wall assembly is added to the actual area of unprotected openings as 3.3% where 60-minute fire-resistance rating is required, and 1.9% where 45-minute fire resistance rating is required. <p>Where used in jurisdictions governed by the 2018 International Building Code the above-described exterior wall is permitted where:</p>	1-hour non-load bearing.

	<ul style="list-style-type: none"> • Where there is no limit to the area of unprotected openings, and the exterior wall requires a 60-minute fire resistance rating or, • Where per 2018 IBC Section 705.8, the fraction of exposing building face of the wall is added to the actual area of unprotected openings of 3.3%. <p>Protection of load-bearing elements of the exterior wall assembly is outside the scope of this report.</p>	
2 ^{1.2}	<p>Exterior steel wall assembly features intermediate supports consisting of 16-gauge (1.519 mm), 4-inch (102 mm) deep Z-girts with 2-inch (51 mm) legs, installed horizontally and spaced 4 feet (1,219 mm) on center. The unexposed face is sheathed with 26-gauge (0.45 mm) fluted steel panels, 36 inches (914 mm) wide with 1-1/4 inch (32 mm) deep ribs, attached to the framing using #12-14 1-1/2 inch (38 mm) long self-drilling screws spaced 12 inches (305 mm) on center horizontally at each intermediate support, and #12 1-inch (25 mm) long self-drilling screws spaced 16 inches (406 mm) on center vertically at the panel overlap seams. The cavity is insulated with Carlisle Spray Foam Insulation's SealTite™ One spray foam insulation applied at a nominal thickness of 4 inches (102 mm) between the supports and 1-1/2 inches (38 mm) over the Z-girts. The insulation has a maximum density of 2.5 lbs./ft.³ (40 kg/m³) and is coated with approximately 34 mils WFT (0.864 mm) of International Fireproof Technology Inc. DC315 intumescent coating.</p> <p>The above noted assembly complies for use in exterior walls with the following limitations:</p> <p>Where used in jurisdictions governed by the 2020/2015 National Building code of Canada the above-described exterior wall assembly is permitted where:</p> <ul style="list-style-type: none"> • Limiting distance ≥ 1.2 meters (3.9 ft) and, • A fraction of the exposed building face of the exterior wall assembly is added to the actual area of unprotected openings as 1.8% where 60-minute fire-resistance rating is required, while no adjustment is needed for a 45-minute rating. <p>Where used in jurisdictions governed by the 2018 International Building Code the above-described exterior wall is permitted where:</p> <ul style="list-style-type: none"> • Where there is no limit to the area of unprotected openings, and the exterior wall requires a 60-minute fire resistance rating or, • Where per 2018 IBC Section 705.8, the fraction of exposing building face of the wall is added to the actual area of unprotected openings of 1.8%. <p>Protection of load-bearing elements of the exterior wall assembly is outside the scope of this report.</p>	1-hour non-load bearing.

31,2	<p>Exterior steel wall assembly features intermediate supports consisting of 16-gauge (1.519 mm), 4-inch (102 mm) deep Z-girts with 2-inch (51 mm) legs, installed horizontally and spaced 4 feet (1,219 mm) on center. The unexposed face is sheathed with 26-gauge (0.45 mm) fluted steel panels, 36 inches (914 mm) wide with 1-1/4 inch (32 mm) deep ribs, attached to the framing using #12-14 1-1/2 inch (38 mm) long self-drilling external Hex Washer head screws spaced 12 inches (305 mm) on center horizontally at each intermediate support, and #12 1-inch (25 mm) long self-drilling external Hex Washer head screws spaced 16 inches (406 mm) on center vertically at the panel overlap seams. The cavity is insulated with Elastochem Specialty Chemical, Inc.'s Insulthane® Extreme Winter spray foam insulation (SPF) applied at a nominal thickness of 4 inches (102 mm) between the supports and 1-1/2 inches (38 mm) over the Z-girts. The insulation has a nominal density of 2.2 lbs./ft.³ (35 kg/m³) and is coated with approximately 34 mils WFT (0.864 mm) of International Fireproof Technology Inc. DC315 intumescent coating.</p> <p>The above noted assembly complies for use in exterior walls with the following limitations: Where used in jurisdictions governed by the 2020/2015 National Building code of Canada the above-described exterior wall assembly is permitted where:</p> <ul style="list-style-type: none"> • Limiting distance ≥ 1.2 meters (3.9 ft) and, • A fraction of the exposed building face of the exterior wall assembly is added to the actual area of unprotected openings as 0.9% where 60-minute fire-resistance rating is required, while no adjustment is needed for a 45-minute rating. <p>Where used in jurisdictions governed by the 2018 International Building Code the above-described exterior wall is permitted where:</p> <ul style="list-style-type: none"> • Where there is no limit to the area of unprotected openings, and the exterior wall requires a 60-minute fire resistance rating or, • Where per 2018 IBC Section 705.8, the fraction of exposing building face of the wall is added to the actual area of unprotected openings of 0.9%. <p>Protection of load-bearing elements of the exterior wall assembly is outside the scope of this report.</p>	1-hour non-load bearing.
4	<p>The wall assembly comprises ½ inch (12.7mm) thick approved Type C gypsum wallboard fastened to one side of nominal 2-inch by 4-inch studs located 16 inches on center using 1-1/4 inches (31.75 mm) drywall screws spaced 8 inches (203.2mm) on center. Inside the cavity, LaPolla Industries Foam-Lok spray foam insulation or equivalent is applied to an average thickness of 3-1/2 (88.9mm) inches. The exterior surface is coated with DC315 intumescent paint applied to a wet film thickness (WFT) of 18 mils in total, providing fire protection and insulation for the assembly.</p>	25 minutes non-load bearing.

Note 1: Exterior wall assembly complies with the 2020 National Building Code of Canada Section 3.1.7.2 where installed with limitations noted.

Note 2: Exterior wall assembly complies with Section 705.7 of the 2021 International Building Code (IBC) where installed with limitations noted.

The materials, products or systems listed herein have been qualified to bear the QAI Listing Mark under the conditions stated with each Listing. Only those products bearing the QAI Listing Mark are considered to be listed by QAI. No warrantee is expressed or implied, and no guarantee is provided that any jurisdictional authority will accept the Listing found herein. The appropriate authorities should be contacted regarding the acceptability of any given Listing. Visit the QAI Online Listing Directory located at www.qai.org for the most up to date version of this Listing and to validate that this QAI Listing is active. Questions regarding this listing may be directed to info@qai.org. Please include the listing number in the request.
