



ICC-ES Listing Report

Reissued March 2025

ESL-1423

This listing is subject to renewal March 2026.

CSI: DIVISION: 09 00 00—FINISHES
Section: 09 96 43—Fire-Retardant Coatings

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 81 23—Intumescent Fire Protection

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: FORCEFIELD® FIREGUARD® E-84 INTUMESCENT COATING

Listee: SHIELD INDUSTRIES, INC.

Evaluation: ForceField® FireGuard® E-84 Intumescent Coating is a water-based liquid intumescent fire-retardant coating that is applied by rolling, brushing, or spraying; and was evaluated when tested to the following standard:

- ASTM E84 (-16, -13A, -09, -07, and -04), Standard Test Method for Surface Burning Characteristics of Building Materials, ASTM International.

Findings: ForceField® FireGuard® E-84 intumescent Coating, when applied to Southern Yellow Pine plywood and oriented strand board (OSB) at coverage rates and film thicknesses detailed in Table 1 below, have a flame-spread index and a smoke-developed index as specified in Table 1 below based on testing in accordance with ASTM E84. The coating qualifies as a Class A finish in accordance with the applicable sections of the *International Building Code®* and *International Fire Code®* as noted in the following code editions:

- 2018 *International Building Code®*
Applicable Section: 803.1.2
- 2015, 2012, and 2009 *International Building Code®*
Applicable Sections: 803.1.1
- 2006 *International Building Code®*
Applicable Sections: 803.1
- 2018, 2015, 2012, and 2009 *International Residential Code®*
Applicable Section: R302.9
- 2006 *International Residential Code®*
Applicable Section: R315
- 2018 *International Fire Code®*
Applicable Section: 803.1.2
- 2015, 2012, 2009 and 2006 *International Fire Code®*
Applicable Section: 803.1.1

Identification:

1. Containers of ForceField® FireGuard® E-84 intumescent fire-retardant coating are identified by the label bearing the manufacturer's name (Shield Industries, Inc.) and address, the product name, the date of manufacture, shelf life, the manufacturer's instructions for application, and the ICC-ES listing report number (ESL-1423), and when applicable, the ICC-ES Listing Mark.
2. The report holder's contact information is the following:

SHIELD INDUSTRIES, INC.
131 SMOKEHILL LANE
WOODSTOCK GEORGIA 30188
www.shieldindustries.com

Installation: The product must be installed in accordance with the Shield Industries, Inc.'s published installation instructions and applicable codes.

Conditions of listing:

1. The listing report addresses only conformance with the standard and code sections noted above.
2. Approval of the product's use is the sole responsibility of the local code official.
3. The listing report applies only to the materials tested and as submitted for review by ICC-ES.
4. ForceField® FireGuard® E-84 Intumescent Coating is manufactured in under a quality control program with inspections by ICC-ES.

TABLE 1—MINIMUM THICKNESS AND COVERAGE RATE FOR FORCEFIELD® FIREGUARD® E-84 INTUMESCENT COATING FOR INTERIOR FINISH

SUBSTRATE	MINIMUM FILM THICKNESS (mil)		COVERAGE RATE (square feet per gallon)	CLASSIFICATION	FLAME SPREAD INDEX	SMOKE DEVELOPED INDEX
	DRY	WET				
Southern Yellow Pine Plywood	15	28	57.73	CLASS A	5	15
Oriented Strand Board (OSB)	24	45	36.08	CLASS A	0	5

1 mil = 0.0245 mm; 1 square feet per gallon = 0.0245 square meter per liter.