



**CERTIFICATION**



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## **Technical Evaluation Report**

### **TER 1905-03**

No-Burn<sup>®</sup> Plus, No-Burn<sup>®</sup> Plus ThB, and  
No-Burn<sup>®</sup> Plus XD used as a Thermal  
Barrier or Ignition Barrier in Select  
Assemblies

**No-Burn<sup>®</sup>, Inc.**

### **Products:**

**No-Burn<sup>®</sup> Plus**  
**No-Burn<sup>®</sup> Plus ThB**  
**No-Burn<sup>®</sup> Plus XD**

Issue Date:

July 1, 2019

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August 20, 2019

Subject to Renewal:

July 1, 2020

For the most recent version or a sealed copy of this Technical Evaluation Report (TER), visit [drjcertification.org](http://drjcertification.org).



COMPANY  
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DIVISION: 09 00 00 - FINISHES

SECTION: 09 96 46 Intumescent Paints

## 1 PRODUCTS EVALUATED<sup>1</sup>

- 1.1 No-Burn® Plus  
No-Burn® Plus ThB  
No-Burn® Plus XD

## 2 APPLICABLE CODES AND STANDARDS<sup>2,3</sup>

### 2.1 Codes

- 2.1.1 *IBC—12, 15, 18: International Building Code®*
- 2.1.2 *IRC—12, 15, 18: International Residential Code®*
- 2.1.3 *IEBC—12, 15, 18: International Existing Building Code*

### 2.2 Standards and Referenced Documents

- 2.2.1 *NFPA 286: Standard Methods of Fire Test for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth*
- 2.2.2 *UL 1715: Fire Test of Interior Finish Material*
- 2.2.3 *DrJ Evaluation Criteria (EC) 045: Evaluation Criteria for Field Applied Coatings on Spray Polyurethane Foam for use as a Thermal Barrier or Ignition Barrier*

<sup>1</sup> Building codes require data from valid [research reports](#) be obtained from [approved sources](#). An [approved agency](#), which is an [approved source](#), is defined as “an established and recognized agency that is regularly engaged in...furnishing product certification where such agency has been approved...” Being [approved](#), defined as “acceptable to the [building official](#),” is accomplished via accreditation using ISO/IEC 17065 evaluation procedures meeting code requirements of [independence](#), [adequate equipment](#), and [experienced personnel](#). DrJ is an ISO/IEC 17065 [ANSI-Accredited Product Certification Body – Accreditation #1131](#).

Through ANSI accreditation, DrJ certification can be used to obtain product approval in any country that is an [IAF MLA Signatory](#) and covered by an [IAF MLA Evaluation](#) per the [Purpose of the MLA](#) – “certified once, accepted everywhere.” Manufacturers can go to [jurisdictions](#) in any IAF MLA Signatory Country and have their products readily approved by authorities having jurisdiction using DrJ’s ANSI accreditation.

For more information on any of these topics or our mission, product evaluation policies, product approval process, and engineering law, see [drjcertification.org](http://drjcertification.org).

<sup>2</sup> Unless otherwise noted, all references in this code-compliant TER are from the 2018 version of the codes and the standards referenced therein. This material, design, or method of construction also complies with the 2000-2015 versions of the referenced codes and the standards referenced therein. As required by [code](#), where this TER is not approved, the [building official](#) shall respond in writing stating the reasons this TER was not [approved](#). For any variations in state and local codes, see Section 8.

<sup>3</sup> All terms defined in the applicable building codes are italicized.

### 3 PERFORMANCE EVALUATION

- 3.1 The products listed in Section 1 have been evaluated for compliance with the following:
  - 3.1.1 Approval for use as a thermal barrier in accordance with IBC Section 2603.5, IBC Section 2603.9<sup>4</sup>, and IRC Section R316.6.
  - 3.1.2 Approval for use as an ignition barrier in accordance with IBC Section 2603.4.1.6, IBC Section 2603.9<sup>5</sup>, IRC Section R316.5.3, IRC Section R316.5.4, and IRC Section R316.6.
- 3.2 Any code compliance issues not specifically addressed in this section are outside the scope of this TER.
- 3.3 Any engineering evaluation conducted in the preparation of this TER was performed on the dates provided in this TER and within DrJ's professional scope of work.

### 4 PRODUCT DESCRIPTION AND MATERIALS

- 4.1 No-Burn® Plus, No-Burn® Plus ThB, and No-Burn® Plus XD are water-based, liquid applied, intumescent coatings. When exposed to elevated temperatures and flame, they expand and form a protective char layer.
- 4.2 The products are packaged in either 5 gallon (18.9 liter) pails or 55 gallon (208 liter) drums.
- 4.3 Shelf Life
  - 4.3.1 No-Burn® Plus and No-Burn® Plus XD: Two years when stored in unopened containers between 40°F (4.4°C) and 90°F (32.2°C).
  - 4.3.2 No-Burn® Plus ThB: Eighteen months when stored in unopened containers between 40°F (4.4°C) and 90°F (32.2°C).
- 4.4 No-Burn® Plus, No-Burn® Plus ThB, and No-Burn® Plus XD must be prepared with a power mixer (500-1500 RPM) or equivalent for a minimum of 5 minutes per container prior to application.

### 5 APPLICATIONS

- 5.1 Thermal Barrier Assemblies
  - 5.1.1 No-Burn® Plus ThB is used to protect spray-applied polyurethane foam (SPF) insulation to allow the SPF to be installed without a prescriptive 15-minute thermal barrier in accordance with IBC Section 2603.9<sup>6</sup> and IRC Section R316.6. The approved assemblies are as listed in Table 1.

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<sup>4</sup> 2012 IBC Section 2603.10

<sup>5</sup> 2012 IBC Section 2603.10

<sup>6</sup> 2012 IBC Section 2603.10

TABLE 1. THERMAL BARRIER ASSEMBLIES

| Substrate                                       | No-Burn® Product Name | Max. Thickness of Walls & Vertical Surfaces (in) | Max. Thickness of Ceilings, Underside of Roof Sheathing/Rafters & Floors (in) | Application of No-Burn® Coating    |          |  | Evaluation Report¹ |
|---|-----------------------|--|---|------------------------------------|----------|--|--------------------|
|   |                       |  |   | Minimum Installed Thickness (mils) |          | Theoretic Application Rate (gallons/100 ft²) |                    |
|   |                       |  |   | Wet Film                           | Dry Film |  |                    |
| BASF ENERTITE® G Open Cell Spray Foam           | Plus ThB²             | 8  | 14  | 14                                 | 9        | 0.87   | CCRR-1032          |
| BASF ENERTITE® NM Open Cell Spray Foam          | Plus ThB²             | 8  | 14  | 14                                 | 9        | 0.87   | CCRR-1032          |
| BASF ENERTITE® IB-418 Open Cell Spray Foam      | Plus ThB²             | 8  | 14  | 14                                 | 9        | 0.87   | CCRR-1032          |
| BASF SPRAYTITE® SP Closed Cell Spray Foam       | Plus ThB²             | 6  | 8   | 14                                 | 9        | 0.87   | CCRR-1031          |
| BASF SPRAYTITE® 158 Closed Cell Spray Foam      | Plus ThB²             | 6  | 8   | 14                                 | 9        | 0.87   | CCRR-1031          |
| BASF SPRAYTITE® 81205 Closed Cell Spray Foam    | Plus ThB²             | 6  | 8   | 14                                 | 9        | 0.87   | CCRR-1031          |
| BASF SPRAYTITE® 178 Closed Cell Spray Foam      | Plus ThB²             | 6  | 8   | 17                                 | 11       | 1.06   | CCRR-1031          |
| BASF SPRAYTITE® 81206 Closed Cell Spray Foam    | Plus ThB²             | 6  | 8   | 17                                 | 11       | 1.06   | CCRR-1031          |
| BASF WALLTITE® HP+ Closed Cell Spray Foam       | Plus ThB²             | 6  | 8   | 17                                 | 11       | 1.06   | CCRR-1031          |
| BASF WALLTITE® US-N Closed Cell Spray Foam      | Plus ThB²             | 6  | 8   | 17                                 | 11       | 1.06   | CCRR-1031          |
| BASF WALLTITE® US Closed Cell Spray Foam        | Plus ThB²             | 6  | 8   | 17                                 | 11       | 1.06   | CCRR-1031          |
| BASF WALLTITE® 200 Closed Cell Spray Foam       | Plus ThB²             | 6  | 8   | 17                                 | 11       | 1.06   | ESR-2642           |
| Demilec SEALECTION® 500 Open Cell Spray Foam    | Plus ThB²             | 8  | 14  | 16                                 | 11       | 1.0  | CCRR-1063          |
| Demilec Agribalance® Open Cell Spray Foam       | Plus ThB²             | 8  | 14  | 16                                 | 11       | 1.0  | ESR-2600           |
| Demilec Heatlok HFO Closed Cell Spray Foam      | Plus ThB²             | 6.5  | 9.5   | 16                                 | 11       | 1.0  | ESR-4073           |
| Demilec Heatlok XT Closed Cell Spray Foam       | Plus ThB²             | 6.5  | 9.5   | 16                                 | 11       | 1.0  | ESR-3883           |
| GacoEZSpray F4500 Open Cell Spray Foam          | Plus ThB²             | 12   | 16  | 14                                 | 9        | 0.87   | CCRR-1107          |
| Gaco F183M Closed Cell Spray Foam               | Plus ThB²             | 6.5  | 9   | 14                                 | 9        | 0.87   | CCRR-1002          |
| Gaco OnePass F1850 Closed Cell Spray Foam       | Plus ThB²             | 6.5  | 9.5   | 14                                 | 9        | 0.87   | CCRR-1043          |
| Gaco OnePass Low GWP F1880 Open Cell Spray Foam | Plus ThB²             | 9  | 12.5  | 14                                 | 9        | 0.87   | CCRR-1106          |
| Icynene Classic Open Cell Spray Foam            | Plus ThB²             | 6  | 14  | 16                                 | 11       | 1.0  | ESR-1826           |
| Icynene Classic Ultra Open Cell Spray Foam      | Plus ThB²             | 6  | 14  | 16                                 | 11       | 1.0  | ESR-1826           |

| Substrate  | No-Burn® Product Name | Max. Thickness of Walls & Vertical Surfaces (in) | Max. Thickness of Ceilings, Underside of Roof Sheathing/Rafters & Floors (in) | Application of No-Burn® Coating    |          |   | Evaluation Report <sup>1</sup> |
|--|-----------------------|--|---|------------------------------------|----------|---|--------------------------------|
|  |                       |  |   | Minimum Installed Thickness (mils) |          | Theoretic Application Rate (gallons/100 ft <sup>2</sup> ) |                                |
|  |                       |  |   | Wet Film                           | Dry Film |   |                                |
| Icynene Classic Ultra Select Open Cell Spray Foam    | Plus ThB <sup>2</sup> | 6  | 14  | 16                                 | 11       | 1.0   | ESR-1826                       |
| Icynene Classic Plus Open Cell Spray Foam            | Plus ThB <sup>2</sup> | 6  | 14  | 16                                 | 11       | 1.0   | ESR-1826                       |
| Icynene Prime Gold Open Cell Spray Foam              | Plus ThB <sup>2</sup> | 6  | 14  | 16                                 | 11       | 1.0   | ESR-4323                       |
| Icynene No Mix Open Cell Spray Foam                  | Plus ThB <sup>2</sup> | 8 ½  | 14  | 14                                 | 9        | 0.87  | CCRR-1123                      |
| Icynene ProSeal Closed Cell Spray Foam               | Plus ThB <sup>2</sup> | 4  | 8   | 14                                 | 9        | 0.87  | ESR-3500                       |
| Icynene ProSeal LE Closed Cell Foam                  | Plus ThB <sup>2</sup> | 4  | 8   | 14                                 | 9        | 0.87  | ESR-3500                       |
| Icynene ProSeal Eco Closed Cell Spray Foam           | Plus ThB <sup>2</sup> | 4  | 8   | 14                                 | 9        | 0.87  | ESR-3493                       |
| Icynene ProSeal HFO Closed Cell Foam                 | Plus ThB <sup>2</sup> | 4  | 8   | 14                                 | 9        | 0.87  | CCRR-1108                      |
| Icynene ProSeal HFO CW Closed Cell Foam              | Plus ThB <sup>2</sup> | 4  | 8   | 14                                 | 9        | 0.87  | CCRR-1108                      |
| Icynene MD-C-200 Closed Cell Spray Foam              | Plus ThB <sup>2</sup> | 4  | 8   | 14                                 | 9        | 0.87  | ESR-3199                       |
| Johns Manville JM Corbond Open Cell Spray Foam       | Plus ThB <sup>2</sup> | 8  | 14  | 14                                 | 9        | 0.87  | CCRR-1079                      |
| Johns Manville JM Corbond OCX Open Cell Spray Foam   | Plus ThB <sup>2</sup> | 8  | 14  | 14                                 | 9        | 0.87  | ER-372                         |
| Johns Manville JM Corbond III Closed Cell Spray Foam | Plus ThB <sup>2</sup> | 6  | 8   | 14                                 | 9        | 0.87  | ER-146                         |
| Johns Manville JM Corbond MCS Closed Cell Spray Foam | Plus ThB <sup>2</sup> | 6  | 8   | 14                                 | 9        | 0.87  | ESR-3159                       |
| Lapolla Foam-Lok FL 450 Open Cell Spray Foam         | Plus ThB <sup>2</sup> | 6  | 14  | 16                                 | 11       | 1.0   | ESR-4242                       |
| Lapolla Foam-Lok FL 500 Open Cell Spray Foam         | Plus ThB <sup>2</sup> | 8 ½  | 14  | 14                                 | 9        | 0.87  | CCRR-1091                      |
| Lapolla Foam-Lok FL 750 Open Cell Spray Foam         | Plus ThB <sup>2</sup> | 6  | 14  | 16                                 | 11       | 1.0   | ESR-4322                       |
| Lapolla Foam-Lok FL 2000-4G Closed Cell Spray Foam   | Plus ThB <sup>2</sup> | 6  | 9   | 14                                 | 9        | 0.87  | CCRR-1025                      |
| Lapolla Foam-Lok FL 2000 Closed Cell Spray Foam      | Plus ThB <sup>2</sup> | 6  | 9   | 14                                 | 9        | 0.87  | ESR-2629                       |
| SES SucraSeal 0.5 Open Cell Spray Foam               | Plus ThB <sup>2</sup> | 9  | 14  | 14                                 | 9        | 0.87  | ESR-3375                       |
| SES Nexseal 2.0 Closed Cell Spray Foam               | Plus ThB <sup>2</sup> | 6  | 9.5   | 14                                 | 9        | 0.87  | ER-374                         |
| SWD Quik-Shield 108 Open Cell Spray Foam             | Plus ThB <sup>2</sup> | 8  | 14  | 14                                 | 9        | 0.87  | CCRR-1051                      |

| Substrate                                    | No-Burn® Product Name | Max. Thickness of Walls & Vertical Surfaces (in) | Max. Thickness of Ceilings, Underside of Roof Sheathing/Rafters & Floors (in) | Application of No-Burn® Coating    |          |   | Evaluation Report <sup>1</sup> |
|--|-----------------------|--|---|------------------------------------|----------|---|--------------------------------|
|  |                       |  |   | Minimum Installed Thickness (mils) |          | Theoretic Application Rate (gallons/100 ft <sup>2</sup> ) |                                |
|  |                       |  |   | Wet Film                           | Dry Film |   |                                |
| SWD Quik-Shield 108YM Open Cell Spray Foam   | Plus ThB <sup>2</sup> | 8  | 14  | 14                                 | 9        | 0.87  | CCRR-1051                      |
| SWD Quik-Shield 112XC Closed Cell Spray Foam | Plus ThB <sup>2</sup> | 5  | 8   | 14                                 | 9        | 0.87  | CCRR-1011                      |
| SWD Quik-Shield 118 Closed Cell Spray Foam   | Plus ThB <sup>2</sup> | 5  | 8   | 14                                 | 9        | 0.87  | CCRR-1093                      |

SI: 1 mil = 0.0254 mm, 1 inch = 25.4 mm, 1 gal = 3.79 L

1. Use of No-Burn® Plus ThB for use with any insulation product listed herein is conditional upon that insulation product's recognition in a valid evaluation report by an approved evaluation entity. Users shall independently verify the current validity of any evaluation report referenced herein. ER-Evaluation Reports from IAPMO Uniform Evaluation Service, CCRR-Code Compliance Research Reports from Intertek, and ESR-Evaluation Service Reports from ICC-ES.
2. No-Burn® Plus ThB or Plus may be over coated with latex paint with a pH of 7 to 8.

## 5.2 Ignition Barrier Assemblies

- 5.2.1 No-Burn® Plus, No-Burn® Plus ThB and No-Burn® Plus XD may be used to protect SPF in attics and crawlspaces to allow the SPF to be installed without a prescriptive ignition barrier in accordance with IBC Section 2603.4.1.6 and IBC Section 2603.9 and IRC Sections R316.5.3 and R316.5.4. The approved assemblies are shown in Table 2.
- 5.2.2 The assemblies listed in Table 2 may be installed in an attic or crawlspace without a prescriptive ignition barrier when all of the following are met:
  - 5.2.2.1 Entry into the attic or crawlspace is only for the maintenance, repair or servicing of the building or equipment. No storage is permitted.
  - 5.2.2.2 There are no interconnected attic or crawlspace areas.
  - 5.2.2.3 Air is not circulated to other parts of the building.
  - 5.2.2.4 The foam plastic insulation does not exceed the maximum density and thickness shown in Table 2.
  - 5.2.2.5 Combustion air is provided in accordance with the IBC Section 701.
  - 5.2.2.6 When required, attic ventilation is provided in accordance with IBC Section 1202.2<sup>7</sup> or IRC Section R806 and crawlspace ventilation is provided in accordance with IBC Section 1202.4<sup>8</sup>.
  - 5.2.2.6.1 Exception: Unvented attics and crawlspaces meeting the requirements of IBC Section 1202.3, IRC Section R408.3 or Section R806.5.

<sup>7</sup> 2012 IBC Section 1203.2, 2015 IBC Section 1203.2

<sup>8</sup> 2012 IBC Section 1203.3, 2015 IBC Section 1203.4



TABLE 2. IGNITION BARRIER ASSEMBLIES

| Substrate  | No-Burn® Product Name     | Max. Thickness of Walls & Vertical Surfaces (in) | Max. Thickness of Ceilings, Underside of Roof Sheathing/Rafters & Floors (in) | Application of No-Burn® Coating    |          |   |
|--|---------------------------|--|---|------------------------------------|----------|---|
|  |                           |  |   | Minimum Installed Thickness (mils) |          | Theoretic Application Rate (gallons per 100 ft <sup>2</sup> ) |
|  |                           |  |   | Wet Film                           | Dry Film |   |
| Accella Bayseal™ OC Open Cell Spray Foam               | Plus XD or Plus ThB       | 11 ¼   | 16  | 6                                  | 4        | 0.37  |
| BASF ENERTITE® G Open Cell Spray Foam                  | Plus XD or Plus ThB       | 11 ¼   | 16  | 6                                  | 4        | 0.37  |
| BASF ENERTITE® NM Open Cell Spray Foam                 | Plus XD or Plus ThB       | 11 ¼   | 16  | 6                                  | 4        | 0.37  |
| BASF SPRAYTITE® 158 and 81205 Closed Cell Spray Foam   | Plus XD or Plus ThB       | 8  | 8   | 6                                  | 4        | 0.37  |
| BASF SPRAYTITE® SP Closed Cell Spray Foam              | Plus XD or Plus ThB       | 8  | 8   | 6                                  | 4        | 0.37  |
| BASF SPRAYTITE® 178 and 81206 Closed Cell Spray Foam   | Plus, Plus XD or Plus ThB | 9 ¼  | 11 ¼  | 12                                 | 7        | 0.75  |
| BASF WALLTITE® US Closed Cell Spray Foam               | Plus, Plus XD or Plus ThB | 9 ¼  | 11 ¼  | 12                                 | 7        | 0.75  |
| BASF WALLTITE® US-N Closed Cell Spray Foam             | Plus, Plus XD or Plus ThB | 9 ¼  | 11 ¼  | 12                                 | 7        | 0.75  |
| BASF WALLTITE® HP+ Closed Cell Spray Foam              | Plus, Plus XD or Plus ThB | 9 ¼  | 11 ¼  | 12                                 | 7        | 0.75  |
| BASF COMFORT FOAM® 178 Closed Cell Spray Foam          | Plus, Plus XD or Plus ThB | 9 ¼  | 11 ¼  | 12                                 | 7        | 0.75  |
| DAP Touch 'n Seal® 2.2 PCF Closed Cell Spray Foam      | Plus XD or Plus ThB       | 2  | 2   | 8                                  | 5        | 0.5   |
| Demilec SEALECTION® 500 Open Cell Spray Foam           | Plus XD or Plus ThB       | 9 ¼  | 11 ¼  | 6                                  | 4        | 0.37  |
| Demilec Agribalance® Open Cell Spray Foam              | Plus XD or Plus ThB       | 9 ½  | 11 ½  | 10                                 | 6        | 0.63  |
| GacoEZSpray F4500 Open Cell Spray Foam                 | Plus ThB                  | 12   | 16  | 6                                  | 4        | 0.37  |
| ICP Handi-Foam® E-84 Class 1(A) Closed Cell Spray Foam | Plus XD or Plus ThB       | 2  | 2   | 10                                 | 6        | 0.63  |
| Icynene Classic Open Cell Spray Foam                   | Plus XD or Plus ThB       | 5 ½  | 14  | 6                                  | 4        | 0.37  |
| Icynene Classic Ultra Open Cell Spray Foam             | Plus XD or Plus ThB       | 5 ½  | 14  | 6                                  | 4        | 0.37  |
| Icynene Classic Ultra Select Open Cell Spray Foam      | Plus XD or Plus ThB       | 5 ½  | 14  | 6                                  | 4        | 0.37  |
| Icynene Classic Plus Open Cell Spray Foam              | Plus XD or Plus ThB       | 8  | 14  | 6                                  | 4        | 0.37  |
| Icynene Prime Gold Open Cell Spray Foam                | Plus XD or Plus ThB       | 5 ½  | 14  | 6                                  | 4        | 0.37  |

| Substrate  | No-Burn® Product Name     | Max. Thickness of Walls & Vertical Surfaces (in) | Max. Thickness of Ceilings, Underside of Roof Sheathing/Rafters & Floors (in) | Application of No-Burn® Coating    |          |   |
|--|---------------------------|--|---|------------------------------------|----------|---|
|  |                           |  |   | Minimum Installed Thickness (mils) |          | Theoretic Application Rate (gallons per 100 ft <sup>2</sup> ) |
|  |                           |  |   | Wet Film                           | Dry Film |   |
| Icynene ProSeal Eco Closed Cell Spray Foam                   | Plus XD or Plus ThB       | 7 ¼  | 9 ¼   | 5                                  | 3        | 0.31  |
| Icynene MD-C-200 Closed Cell Spray Foam                      | Plus, Plus XD or Plus ThB | 11 ¼   | 11 ¼  | 16                                 | 10       | 1.0   |
| Lapolla Foam-Lok FL 450 Open Cell Spray Foam                 | Plus XD or Plus ThB       | 5 ½  | 14  | 6                                  | 4        | 0.37  |
| Lapolla Foam-Lok FL 750 Open Cell Spray Foam                 | Plus XD or Plus ThB       | 8  | 14  | 6                                  | 4        | 0.37  |
| SWD Quick Shield 106 Open Cell Spray Foam                    | Plus ThB                  | 8  | 14  | 6                                  | 4        | 0.43  |
| Tiger Foam Insulation E-84 Fire Rated SPF Class 1 Spray Foam | Plus XD or Plus ThB       | 3.5  | 3.5   | 10                                 | 6        | 0.63  |

For SI: 1 mil = 0.0254 mm, 1 inch = 25.4 mm, 1 gal = 3.79 L

1. No-Burn® Plus, Plus XD, or Plus ThB may be overcoated with latex paint with a pH of 7 to 8.

## 6 INSTALLATION

6.1 Installation shall comply with the manufacturer's installation instructions, and this TER. In the event of a conflict between the manufacturer's installation instructions and this TER, the more restrictive shall govern.

### 6.2 Installation Procedure

- 6.2.1 The substrates that the No-Burn® products are applied to shall be clean, dry and free from loose dirt, debris, grease, oil or any other materials that would inhibit proper adhesion of No-Burn® products, including, but not limited to, any paints, stains or sealants.
- 6.2.2 No-Burn® Plus, No-Burn® Plus ThB, and No-Burn® Plus XD are white in color.
- 6.2.3 A painter's gauge shall be used to verify the proper thickness during application.
- 6.2.4 The dry mil thickness will be 0.4 to 0.7 times the wet mil thickness.
- 6.2.5 Apply the No-Burn® products only to the substrates listed in Table 1 and Table 2 in accordance with the assembly selected.
- 6.2.6 Substrates shall be fully protected from the weather and fully installed prior to application.
- 6.2.7 Both the substrate surface and the ambient temperature shall be maintained between 40°F (4.4°C) and 100°F (37.7°C) immediately before and during application. Minimum cure time is 24 hours.
- 6.2.8 Apply the coatings at the rate specified in Table 1 and Table 2.
- 6.2.9 Coatings may be applied via roller, brush or spraying equipment.
- 6.2.10 After curing, the coating may be overcoated with latex paint per the paint manufacturer's instructions.

## 7 TEST ENGINEERING SUBSTANTIATING DATA

- 7.1 Reports of fire tests in accordance with *NFPA 286*, and *UL 1715*.
- 7.2 Data in accordance with DrJ EC 45.
- 7.3 Supporting documentation from spray foam manufacturers and evidence of code compliance.



- 7.4 No-Burn® Quality control documentation in accordance with DrJ policies.
- 7.5 Some information contained herein is the result of testing and/or data analysis by other sources which conform to IBC Section 1703 and relevant professional engineering law. DrJ relies on accurate data from these sources to perform engineering analysis. DrJ has reviewed and found the data provided by other professional sources to be credible.
- 7.6 Where appropriate, DrJ's analysis is based on design values that have been codified into law through codes and standards (e.g., *IBC*, *IRC*, *NDS*®, and *SDPWS*). This includes review of code provisions and any related test data that aids in comparative analysis or provides support for equivalency to an intended end-use application. Where the accuracy of design values provided herein is reliant upon the published properties of commodity materials (e.g., lumber, steel, and concrete), DrJ relies upon the grade mark, stamp, and/or design values provided by raw material suppliers to be accurate and conforming to the mechanical properties defined in the relevant material standard.

## 8 FINDINGS

- 8.1 When used and installed in accordance with this TER and the manufacturer's installation instructions, the product(s) listed in Section 1.1 are approved for the following:
  - 8.1.1 No-Burn® Plus ThB is approved for the protection of SPF insulation to allow the SPF to be installed without a prescriptive 15-minute thermal barrier.
  - 8.1.2 No-Burn® Plus, No-Burn® Plus ThB, and No-Burn® Plus XD is approved for the protection of SPF in attics and crawlspaces to allow the SPF to be installed without a prescriptive ignition barrier.
- 8.2 IBC Section 104.11 (IRC Section R104.11 and IFC Section 104.9 are similar) states:

104.11 **Alternative materials, design and methods of construction and equipment.** The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative has been *approved*. An alternative material, design or method of construction shall be *approved* where the *building official* finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, not less than the equivalent of that prescribed in this code...Where the alternative material, design or method of construction is not *approved*, the *building official* shall respond in writing, stating the reasons the alternative was not *approved*.
- 8.3 This product has been evaluated in the context of the codes listed in Section 1.1 and is compliant with all known state and local building codes. Where there are known variations in state or local codes applicable to this evaluation, they are listed here.
  - 8.3.1 No known variations

## 9 CONDITIONS OF USE

- 9.1 When used in accordance with this report, No-Burn® Plus, No-Burn® Plus ThB, and No-Burn® Plus XD comply with the codes listed in Section 2, subject to the following:
  - 9.1.1 Assemblies shall be limited to those shown in Table 1 and Table 2, as applicable.
  - 9.1.2 No-Burn® Plus, No-Burn® Plus ThB, and No-Burn® Plus XD shall be applied only to areas within the water resistive barrier of the building envelope or in areas that are otherwise not exposed to weather.
  - 9.1.3 When required by the building official, inspections in accordance with *IRC* Section R109.1 or special inspections in accordance with *IBC* Section 1705.1.1 shall be conducted. Where required in accordance with *IBC* Section 1704.2.3, a statement of special inspections shall be submitted to the building official.
- 9.2 Where required by the *building official*, also known as the authority having jurisdiction (AHJ) in which the project is to be constructed, this TER and the installation instructions shall be submitted at the time of permit application.
- 9.3 At a minimum, this product shall be installed per Section 6 of this TER.
- 9.4 This product is manufactured under a third-party quality control program in accordance with IBC Section 104.4 and 110.4 and IRC Section R104.4 and R109.2.

- 9.5 The actual design, suitability, and use of this TER, for any particular building, is the responsibility of the owner or the owner's authorized agent. Therefore, the TER shall be reviewed for code compliance by the building official for acceptance.
- 9.6 The use of this TER is dependent on the manufacturer's in-plant QC, the ISO/IEC 17020 third-party quality assurance program and procedures, proper installation per the manufacturer's instructions, the building official's inspection, and any other code requirements that may apply to demonstrate and verify compliance with the applicable building code.

## 10 IDENTIFICATION

- 10.1 The product(s) listed in Section 1 are identified by a label on the board or packaging material bearing the manufacturer's name, product name, TER number, and other information to confirm code compliance.
- 10.2 Additional technical information can be found at [noburn.com](http://noburn.com).

## 11 REVIEW SCHEDULE

- 11.1 This TER is subject to periodic review and revision. For the most recent version of this TER, visit [drjcertification.org](http://drjcertification.org).
- 11.2 For information on the current status of this TER, contact [DrJ Certification](#).