



**EVALUATION REPORT**

**FLORIDA BUILDING CODE, 8<sup>TH</sup> EDITION (2023)**

**Manufacturer:** HUNTSMAN BUILDING SOLUTIONS  
3315 E. Division St  
Arlington, TX 76011  
(888) 224-1533  
[www.demilec.com](http://www.demilec.com)

*Issued October 11, 2023*

**Manufacturing location:** Arlington, TX

**Quality Assurance:** Intertek Testing Services NA, Inc. (QUA1673)

**SCOPE**

**Category:** Roofing  
**Subcategory:** Cements-Adhesives-Coatings  
**Code Edition:** Florida Building Code, 8<sup>th</sup> Edition (2023) including High-Velocity Hurricane Zones (HVHZ)  
**Code Sections:** 1709.2  
**Property:** Supplemental structural attachment of plywood and OSB roof decks

**REFERENCES**

| <u>Entity</u>                                     | <u>Report No.</u> | <u>Standard</u>     | <u>Year</u> |
|---------------------------------------------------|-------------------|---------------------|-------------|
| PRI Construction Materials Technologies (TST5878) | DMLC-037-02-01A   | TAS 202             | 1994        |
|                                                   |                   | ASTM E 330          | 2014        |
| PRI Construction Materials Technologies (TST5878) | DMLC-037-02-01B   | TAS 203             | 1994        |
| PRI Construction Materials Technologies (TST5878) | DMLC-037-02-02A   | TAS 202             | 1994        |
|                                                   |                   | ASTM E 330          | 2014        |
| PRI Construction Materials Technologies (TST5878) | DMLC-037-02-02B   | TAS 203             | 1994        |
| PRI Construction Materials Technologies (TST5878) | DMLC-037-02-03    | ASTM D 1623         | 2017        |
| PRI Construction Materials Technologies (TST5878) | DMLC-037-02-04    | Physical Properties |             |
| PRI Construction Materials Technologies (TST5878) | DMLC-037-02-05    | ASTM D 1929         | 2016        |
| QAI Laboratories Inc. (TST9808)                   | TJ4109-2          | ASTM E 84           | 2018b       |

**PRODUCT DESCRIPTION & APPLICATION**

*Unless otherwise noted, all surfaces shall be clean, dry, and free of oil, grease, rust, scale, mildew or other debris prior to application. Consult manufacturer's application instructions for further detail.*

**Heatlok HFO Pro** Heatlok HFO Pro is a two-component closed-cell spray polyurethane foam applied onsite by combining a polymeric isocyanurate and polymeric resin through a dual-component proportioner. The product may be applied as supplemental attachment of the plywood (HVHZ or non-HVHZ) or Oriented Strand Board (OSB) (non-HVHZ only) roof deck to the wood rafters or the top chord of the wood trusses. The product shall be applied using a minimum 3 in. x 3 in. fillet application to form a continuous bead at the deck to rafter/truss interface. Refer to detailed drawing on following page.

**Material Properties**

|                                                             |                             |
|-------------------------------------------------------------|-----------------------------|
| Density (ASTM D 1622):                                      | Min. 2.4 lb/ft <sup>3</sup> |
| Tensile Strength (ASTM D 1623):                             | Min. 54 psi                 |
| Compressive Strength (ASTM D 1621):                         | 36 psi                      |
| Water Absorption (ASTM D 2842):                             | 1.0% by volume              |
| Close Cell Content (ASTM D 6226):                           | 90%                         |
| Water Vapor Permeability (ASTM E96):                        | 1.26 Perm-inch              |
| Response to Thermal & Humid Aging after 168h: (ASTM D 2126) | 2% change in volume         |
| Spontaneous-Ignition Temperature (ASTM D 1929):             | 890°F                       |
| Flame Spread Index (ASTM E 84):                             | 10                          |
| Smoke Density Index (ASTM E 84):                            | 350                         |

**Performance with Plywood Deck (HVHZ or non-HVHZ)**

|                          |                                                                   |
|--------------------------|-------------------------------------------------------------------|
| Maximum Design Pressure: | <b>-207 psf</b>                                                   |
| Roof Deck:               | Min. PS1-09 CAT 15/32 APA span rated plywood at max. 24-inch span |
| Truss/Rafter:            | No. 2 dimensional lumber (Min. S.G. = 0.63)                       |

**Performance with OSB Deck (non-HVHZ only)**

|                          |                                                               |
|--------------------------|---------------------------------------------------------------|
| Maximum Design Pressure: | <b>-142.5 psf</b>                                             |
| Roof Deck:               | Min. PS 2-10 CAT 7/16 APA span rated OSB at max. 24-inch span |
| Truss/Rafter:            | No. 2 dimensional lumber (Min. S.G. = 0.63)                   |

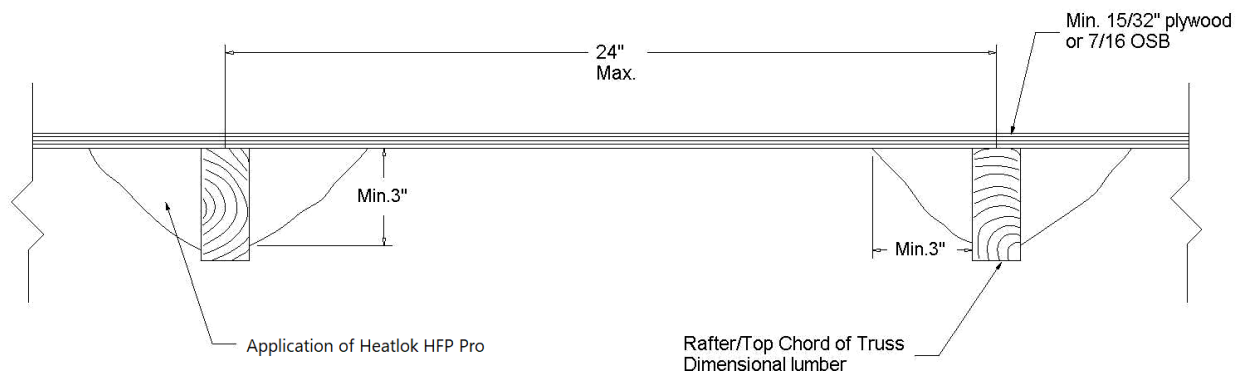


**FIGURE 1.** Typical Application Detail for Heatlok HFO Pro

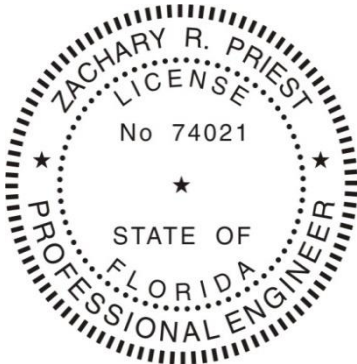


## LIMITATIONS

1. Fire classification and thermal properties are not within the scope of this evaluation.
2. Applications are valid for new and existing construction. Installation shall be conducted by qualified spray foam applicator.
3. Structural integrity is evaluated only a supplemental anchorage of the roof deck. The roof deck shall be designed and installed by others in accordance with the FBC.
4. Installation of the evaluated products shall comply with this report, the FBC, and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
5. All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

## COMPLIANCE STATEMENT

The products evaluated herein by Zachary R. Priest P.E. have demonstrated compliance with the Florida Building Code, 8<sup>th</sup> Edition (2023) including High-Velocity Hurricane Zones (HVHZ) as evidenced in the referenced documents submitted by the named manufacturer.



This item has been  
digitally signed and  
sealed by Zachary R.  
Priest, PE, on 10/11/2023.

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must be verified on any  
electronic copies.

  
Digitally signed by Zachary R. Priest  
CREEK Technical Services, LLC

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Zachary R. Priest, P.E.  
Florida Registration No. 74021  
Organization No. ANE9641

## CERTIFICATION OF INDEPENDENCE

CREEK Technical Services, LLC does not have, nor will it acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

CREEK Technical Services, LLC is not owned, operated, or controlled by any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

**END OF REPORT**