



EVALUATION REPORT

FLORIDA BUILDING CODE, 8TH EDITION (2023)

Manufacturer: SHEFFIELD METALS INTERNATIONAL
5467 Evergreen Parkway
Sheffield Village, OH 44054
(800) 283-5262
www.sheffieldmetals.com

Issued April 2, 2025

Quality Assurance: Keystone Certifications, Inc. (QUA1824)

SCOPE

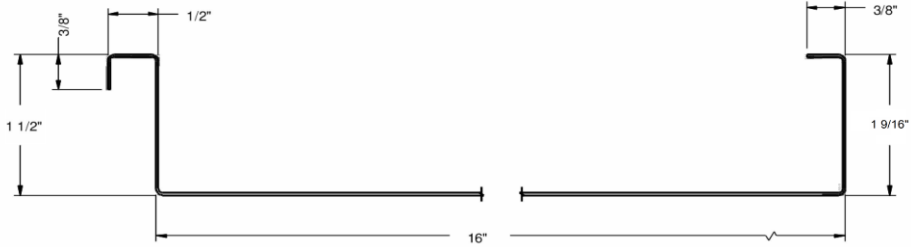
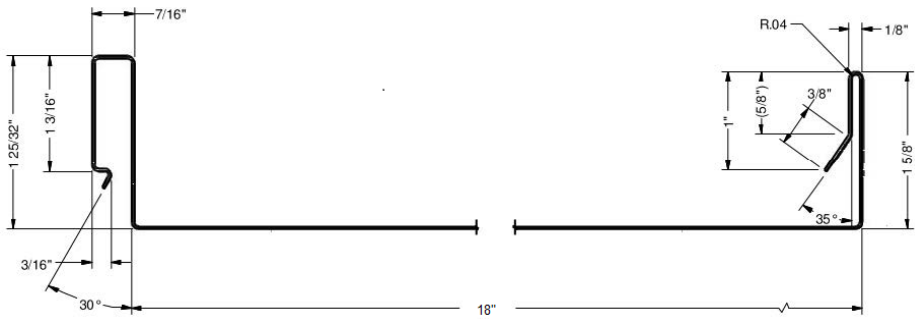
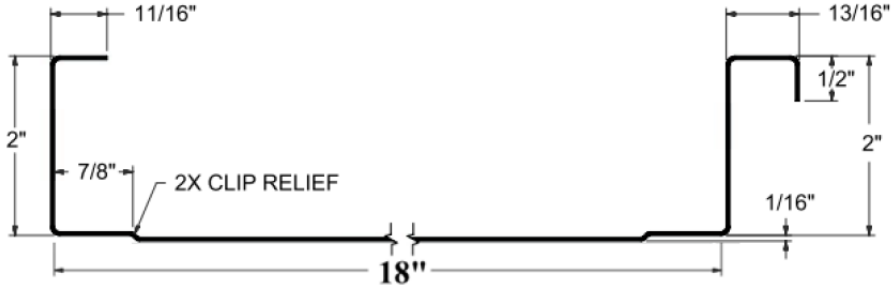
Category: Roofing
Subcategory: Metal Roofing
Code Edition: Florida Building Code, 8th Edition (2023) High-Velocity Hurricane Zones (HVHZ)
Code Sections: 1518.9.1, 1523.1.1, 1523.6.5, 1523.6.5.2.4, 1523.6.5.2.4.1
Properties: Wind Resistance

REFERENCES

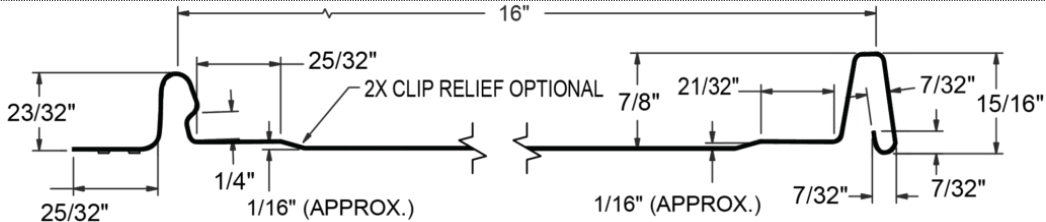
| <u>Entity</u> | <u>Report No.</u> | <u>Standard</u> | <u>Year</u> |
|---|--------------------|-----------------|-------------|
| Intertek - West Palm Beach (TST1527) | I3448.01-450-44 | TAS 125 | 2003 |
| Intertek - West Palm Beach (TST1527) | J8065.03-450-18 | TAS 125 | 2003 |
| Intertek - West Palm Beach (TST1527) | J8065.04-450-18 | TAS 125 | 2003 |
| Intertek - West Palm Beach (TST1527) | J8065.05-450-18 | TAS 125 | 2003 |
| Intertek - West Palm Beach (TST1527) | J8065.06-450-18 | TAS 125 | 2003 |
| Intertek - West Palm Beach (TST1527) | J8065.07-450-18 | TAS 125 | 2003 |
| Intertek - West Palm Beach (TST1527) | J8065.08-450-18 | TAS 125 | 2003 |
| Intertek - West Palm Beach (TST1527) | J8065.09-450-18 | TAS 125 | 2003 |
| Intertek - West Palm Beach (TST1527) | J8065.10-450-18 | TAS 125 | 2003 |
| Intertek - West Palm Beach (TST1527) | J8065.11-450-18 | TAS 125 | 2003 |
| Intertek - West Palm Beach (TST1527) | L3734.01-450-18 | TAS 125 | 2003 |
| Intertek - West Palm Beach (TST1527) | L3734.02-450-18 | TAS 125 | 2003 |
| Intertek - West Palm Beach (TST1527) | L3734.03-450-18 | TAS 125 | 2003 |
| Intertek - West Palm Beach (TST1527) | R7064.01-450-18 R0 | TAS 100 | 2023 |
| Intertek - West Palm Beach (TST1527) | R7064.02-450-18 R0 | TAS 100 | 2023 |
| PRI Construction Materials Technologies (TST5878) | 1272T0002 | ASTM B 117 | 2016 |
| | | TAS 110 | 2000 |
| PRI Construction Materials Technologies (TST5878) | 1272T0003 | ASTM B 117 | 2016 |
| | | TAS 110 | 2000 |
| PRI Construction Materials Technologies (TST5878) | 1272T0005 | ASTM G 155 | 2013 |
| | | TAS 110 | 2000 |
| PRI Construction Materials Technologies (TST5878) | 1272T0006 | ASTM G 155 | 2013 |
| | | TAS 110 | 2000 |
| PRI Construction Materials Technologies (TST5878) | 1802T0001 | TAS 100 | 2023 |
| PRI Construction Materials Technologies (TST5878) | 1802T0002 | TAS 100 | 2023 |
| PRI Construction Materials Technologies (TST5878) | 1802T0003 | TAS 100 | 2023 |
| PRI Construction Materials Technologies (TST5878) | 1802T0004.1 | TAS 125 | 2003 |
| PRI Construction Materials Technologies (TST5878) | 1802T0006.1 | TAS 125 | 2003 |
| PRI Construction Materials Technologies (TST5878) | 1802T0007.1 | TAS 125 | 2003 |
| PRI Construction Materials Technologies (TST5878) | 1802T0008 | TAS 125 | 2003 |



PRODUCT DESCRIPTION

| | |
|--------------------------------|--|
| SMI 1.5" Mechanical Seam | <p>Profile: 1.5 in. mechanical seam; Max. 16 in. coverage</p> <p>Description: Non-structural, mechanical lock standing seam roof panel</p> <p>Material: Min. 0.029 in. ASTM B209, 3105 H24M aluminum (F_y = min. 21 ksi) coated with Fluropon®; or Min. 24ga. ASTM A792 AZ steel, Grade 50 coated with Fluropon®;</p> <p>Min. Slope: In accordance with FBC, but not less than 2:12</p>  |
| SMI 1.75" SnapLock | <p>Profile: 1.75 in. snap lock seam; Max. 18 in. coverage</p> <p>Description: Non-structural, snap lock standing seam roof panel</p> <p>Material: Min. 0.038 in. ASTM B209, 3105 H22 aluminum (F_y = min. 20 ksi) coated with Fluropon®; or Min. 24ga. ASTM A792 AZ steel, Grade 50 coated with Fluropon®;</p> <p>Min. Slope: In accordance with FBC, but not less than 2:12</p>  |
| SMI 2" Mechanical Seam | <p>Profile: 2.0 in. mechanical seam; Max. 18 in. coverage</p> <p>Description: Non-structural, mechanical lock standing seam roof panel</p> <p>Material: Min. 0.038 in. ASTM B209, 3105 H22 aluminum (F_y = min. 18 ksi) coated with Fluropon®; or Min. 24ga. ASTM A792 AZ steel, Grade 50 coated with Fluropon®;</p> <p>Min. Slope: In accordance with FBC, but not less than 2:12</p>  |



| | | |
|--|--|--|
| SMI 1.0" Fastener Flange SnapLock | Profile: | 1.0 in. snap lock seam; Max. 16 in. coverage |
| | Description: | Non-structural, snap lock standing seam roof panel with nail strip |
| | Material: | Min. 24ga. ASTM A792 AZ steel, Grade 50 coated with Fluoropon®; |
| | Min. Slope | In accordance with FBC, but not less than 2:12 |
| |  | |

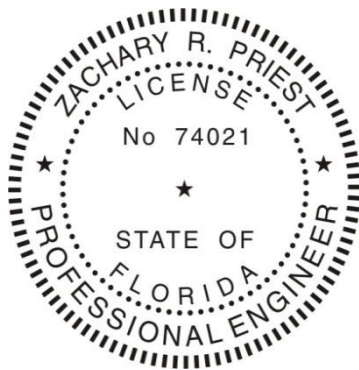


LIMITATIONS

1. This report is only for use in the HVHZ.
2. Fire classification is not within the scope of this evaluation.
3. The roof deck and the roof deck attachment information are provided based on testing. FBC requirements for the rational design of the roof deck, including the attachment, are not within the scope of this evaluation.
4. Reroofing shall be in accordance with FBC Section 1521.
5. Installation of the evaluated products shall comply with this report, RAS 133 and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
6. All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

COMPLIANCE STATEMENT

This report has been prepared in accordance with F.A.C. Rule 61G20-3.



**This item has been
digitally signed and
sealed by Zachary R.
Priest, PE, on 4/2/2025.**

**Printed copies of this
document are not
considered signed and
sealed and the signature
must be verified on any
electronic copies.**

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.

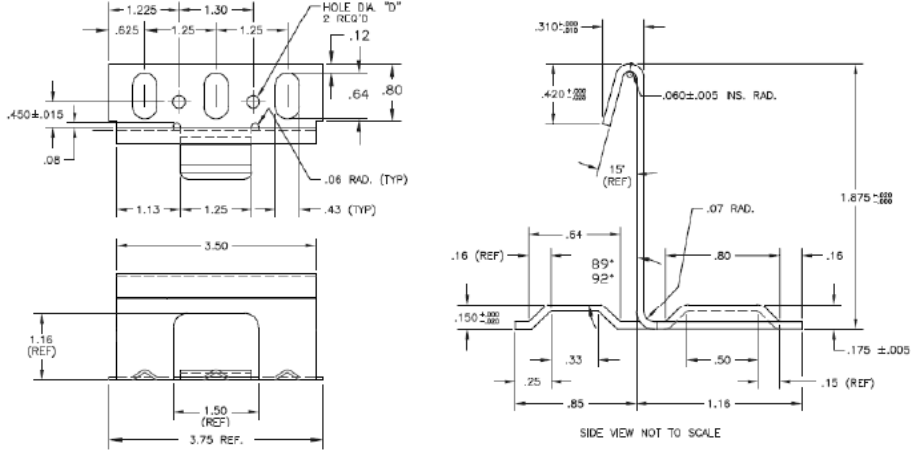
APPENDICES

- 1) APPENDIX A – Installation (5 pages)
- 2) APPENDIX B – Approved Roof Systems (5 pages)
- 3) APPENDIX C – Design Wind Loads (3 pages)

Appendix A
INSTALLATION

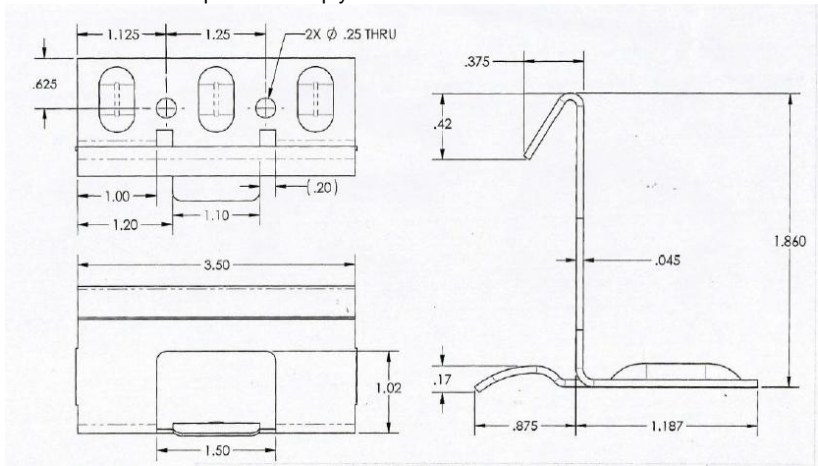
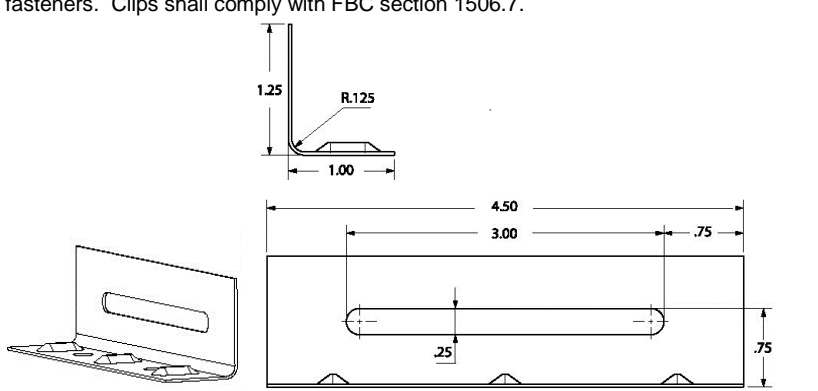
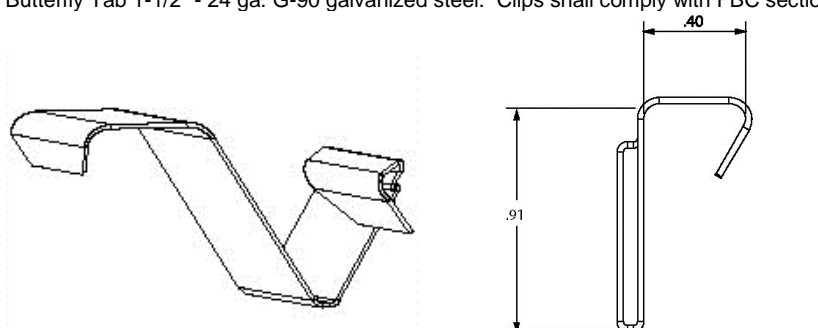
Note - Refer to the [APPROVED ROOF SYSTEMS](#) section of this report for specific installation details of a selected system.

Unless otherwise specified in this report the following installation details shall be met for the named products:

| Component | Product | Installation Detail |
|-----------------------|--|---|
| Fasteners | #10 PH wood screw | Shall penetrate through the sheathing a minimum 3/8 in. Shall be corrosion resistant in accordance with FBC section 1507.4.4. and 1506.6 |
| | #10-13 GP Concealer Pancake Head screw | |
| | #12 PH screws | Shall attach insulation to steel or wood deck. Shall penetrate through the top rib of the steel deck a minimum 3/4-inch. Shall comply with FBC section 1507.4.4 and 1506.6. |
| Insulation | Approved polyisocyanurate insulation board | Any <i>Approved</i> polyisocyanurate insulation board for use in the FBC. Minimum 1-inch thick base layer with optional minimum 1/2-inch or taper subsequent layers of polyisocyanurate insulation secured with fasteners and plates in accordance with the manufacturer's installation instructions. Butt edges and stagger joints of adjacent panels. |
| Moisture/Fire Barrier | GAF VersaShield® | Installed in accordance with the manufacturer's installation instructions and the FBC. |
| Sealant | Novaflex Metal Roof & Panel Adhesive Sealant - Translucent | ASTM C 920 sealant applied in a minimum 3/8-inch wide, continuous bead |
| Clips | 1-3/4" SnapLock Clip A | <p>18 ga., G-90 galvanized steel, through fastened to deck with two (2) fasteners. 3.5-inch length x 2.01-inch width. Clips shall comply with FBC section 1506.7.</p>  |

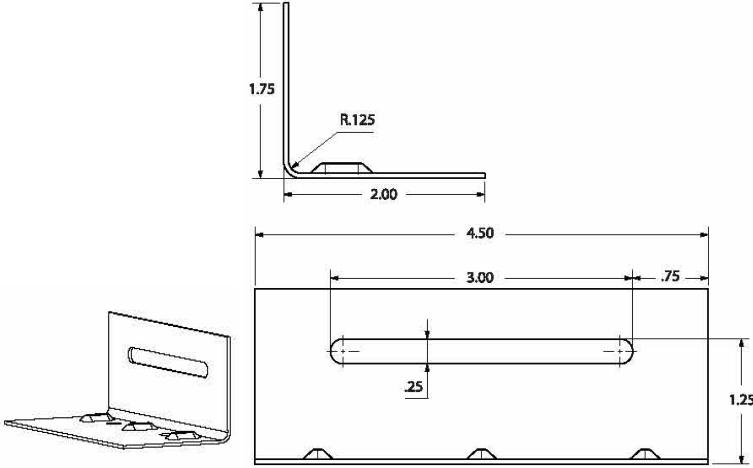
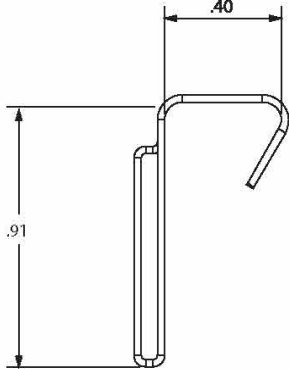
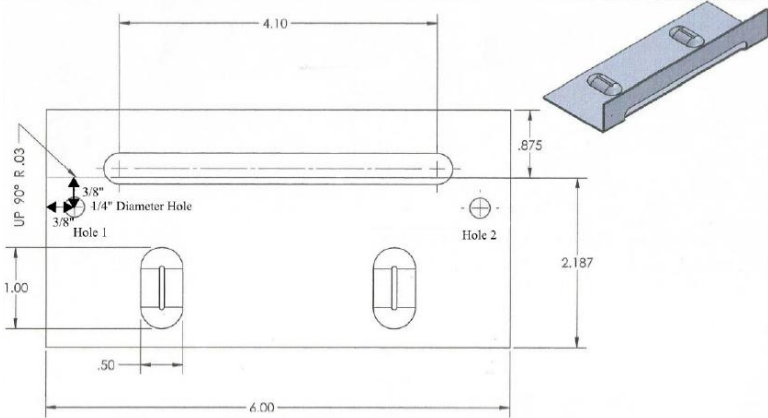


Appendix A

| Component | Product | Installation Detail |
|-----------|--------------------------------|--|
| Clips | 1-3/4" SnapLock Clip B | <p>18 ga., galvanized steel, through fastened to deck with two (2) fasteners. 3.5-inch length x 2.125-inch width. Clips shall comply with FBC section 1506.7.</p>  |
| | 1-1/2" Butterfly Clip Assembly | <p>Butterfly Base 1-1/2" - 22 ga, G-90 galvanized steel, through fastened to deck with two (2) fasteners. Clips shall comply with FBC section 1506.7.</p>  <p>Butterfly Tab 1-1/2" - 24 ga. G-90 galvanized steel. Clips shall comply with FBC section 1506.7.</p>  |
| | | |



Appendix A

| Component | Product | Installation Detail |
|-----------|----------------------------|--|
| Clips | 2" Butterfly Clip Assembly | <p>Butterfly Base 2" - 18 ga, G-90 galvanized steel, through fastened to deck with two (2) fasteners. Clips shall comply with FBC section 1506.7.</p>  |
| | | <p>Butterfly Tab 2" - 22 ga. G-90 galvanized steel. Clips shall comply with FBC section 1506.7.</p>  |
| | 1.5" 2-Piece Clip | <p>Clip Base - 18 ga. steel. Clips shall comply with FBC section 1506.7. Installed with two (2) fasteners per clip.</p>  |

Page 4 of 5

This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.



Appendix A

| Component | Product | Installation Detail |
|-----------|----------------|--|
| Clips | 1.5" MS Clip B | <p>26 ga. galvanized steel, through fastened to deck with two (2) fasteners. 0.75-inch width x 2.0-inch length. Clips shall comply with FBC section 1506.7.</p> <p>The technical drawing shows two views of the clip. The top view is a rectangle with a width of 2.0000 inches and a height of 0.3710 inches. It features two circular fastener holes, each with a diameter of 0.2500 inches, spaced 1.0000 inches apart from the center. The distance from the left edge to the first hole is 0.5000 inches, and from the second hole to the right edge is 0.5000 inches. The side view shows the clip's profile with a total height of 1.6250 inches. The base is 0.3200 inches thick. The top flange is 0.7500 inches wide and 0.3900 inches high. The clip is shown fastened to a deck.</p> |

APPROVED ROOF SYSTEMS

The following notes shall be observed when using the assembly tables below.

1. Maximum Design Pressures (*MDP*) were calculated using a 2:1 margin of safety per FBC Section 1523.4.
2. Refer to [LIMITATIONS](#) and sections of this evaluation when using the table(s) below.
3. Refer to [INSTALLATION](#) section of this report for installation detail when the information is not explicitly stated for the selected assembly.
4. The on-center (o.c.) spacing given is the maximum allowable attachment spacing for the rated system.
5. Underlayment shall be installed in accordance with FBC requirements. The minimum underlayment shall be ASTM D 226, Type II installed as described in FBC Section 1518.2.1 with nails and tin caps per 1517.5.
6. Unless otherwise specified, Wood Deck shall be designed by others in accordance with FBC requirements and shall be minimum 19/32-inch thick APA Span-Rated plywood sheathing or wood plank at maximum 24-inch span for new construction. Existing construction shall be the minimum plywood sheathing or wood plank thickness at maximum 24-inch span as stated in the approval tables on following pages. In no case shall the attachment be less than 8d ring shank nails spaced 6-inch o.c.

| Roof System Numbers and Definitions | |
|--|--|
| 1.5MS-S# | SMI 1.5" Mechanical Seam over Steel Deck (New or Existing) |
| 1.5MS-W# | SMI 1.5" Mechanical Seam over Wood Deck (New or Existing) |
| 1.75SL-S# | SMI 1.75" SnapLock over Steel Deck (New or Existing) |
| 1.75SL-W# | SMI 1.75" SnapLock over Wood Deck (New or Existing) |
| 2.0MS-S# | SMI 2.0" Mechanical Seam over Steel Deck (New or Existing) |
| 2.0MS-W# | SMI 2.0" Mechanical Seam over Wood Deck (New or Existing) |
| 1.0FF-W# | SMI 1.0" Fastener Flange SnapLock over Wood Deck (New or Existing) |

| Approved Systems for SMI 1.5" Mechanical Seam over Steel Deck (New or Existing) | | | | | | | |
|--|------------|---|--|---------------------|---|--|------------------|
| System No. | Steel Deck | Insulation | Fire Barrier | Underlayment | Roof Panel | Panel Attachment | <i>MDP</i> (psf) |
| 1.5MS-S1 | Min. 22 ga | - | OPTIONAL <i>Approved</i> fire barrier | As required per FBC | Min. 24ga. steel Max. 16-inch coverage | 1-1/2" Butterfly Clip Assembly 18-inches o.c. and attached with two (2) #12 PH screws. Panel is mechanically seamed 180 degrees. | -77.63 |
| 1.5MS-S2 | Min. 22 ga | Min. 1 in. <i>Approved</i> polyisocyanurate insulation board | OPTIONAL <i>Approved</i> fire barrier | As required per FBC | Min. 24ga. steel Max. 16-inch coverage | 1-1/2" Butterfly Clip Assembly 18-inches o.c. and attached with two (2) #12 PH screws. Panel is mechanically seamed 180 degrees. | -141.38 |
| 1.5MS-S3 | Min. 22 ga | - | OPTIONAL <i>Approved</i> fire barrier | As required per FBC | Min. 24ga. steel Max. 16-inch coverage | 1-1/2" Butterfly Clip Assembly 6-inches o.c. and attached with two (2) #12 PH screws. Panel is mechanically seamed 180 degrees. | -198.5 |

Appendix B

| Approved Systems for SMI 1.5" Mechanical Seam over Steel Deck (New or Existing) | | | | | | | |
|---|------------|--|-----------------------------------|---------------------|---|---|---------------|
| System No. | Steel Deck | Insulation | Fire Barrier | Underlayment | Roof Panel | Panel Attachment | MDP (psf) |
| 1.5MS-S4 | Min. 22 ga | Min. 1 in. Approved polyisocyanurate insulation board | OPTIONAL Approved fire barrier | As required per FBC | Min. 24ga. steel Max. 16-inch coverage | 1-1/2" Butterfly Clip Assembly 6-inches o.c. and attached with two (2) #12 PH screws. Panel is mechanically seamed 180 degrees. | -198.5 |

| Approved Systems for SMI 1.5” Mechanical Seam over Wood Deck (New or Existing) | | | | | | |
|--|-------------------------|---------------------|-----------------------|---|---|-----------|
| System No. | Wood Deck | Underlayment | Moisture/Fire Barrier | Roof Panel | Panel Attachment | MDP (psf) |
| 1.5MS-W1 | Min. 15/32” CDX Plywood | As required per FBC | OPTIONAL VersaShield® | Min. 0.029 Al Max. 16-inch coverage | 1.5” MS Clip B secured with two (2) #10-13 GP Pancake Head screws and spaced 16-inches o.c. along the panel seam. Panel is mechanically seamed 90 degrees. | -67.25 |
| 1.5MS-W2 | Min. 15/32” CDX Plywood | As required per FBC | OPTIONAL VersaShield® | Min. 24ga. steel Max. 16-inch coverage | 1.5” MS Clip B secured with two (2) #10-13 GP Pancake Head screws and spaced 16-inches o.c. along the panel seam. Panel is mechanically seamed 90 degrees. | -74.75 |
| 1.5MS-W3 | Min. 1/2” CDX Plywood | As required per FBC | OPTIONAL VersaShield® | Min. 24ga. steel Max. 16-inch coverage | 1-1/2” Butterfly Clip Assembly secured with two (2) #10 PH wood screws and spaced 24-inches o.c. along the panel seam. Panel is mechanically seamed 180 degrees. | -88.88 |
| 1.5MS-W4 | Min. 1/2” CDX Plywood | As required per FBC | OPTIONAL VersaShield® | Min. 0.029 Al Max. 16-inch coverage | 1.5” 2-Piece Clip Assembly secured with two (2) #10 x 1” PH wood screws and spaced 16-inches o.c. along the panel seam. Panel is mechanically seamed 180 degrees. | -97.25 |
| 1.5MS-W5 | Min. 15/32” CDX Plywood | As required per FBC | OPTIONAL VersaShield® | Min. 24ga. steel Max. 16-inch coverage | 1.5” MS Clip B secured with two (2) #10-13 GP Pancake Head screws and spaced 8-inches o.c. along the panel seam. Novaflex Metal Roof & Panel Adhesive Sealant - Translucent shall be applied along vertical leg of the female seam prior to seaming. Panel is mechanically seamed 90 degrees. | -108.5 |
| 1.5MS-W6 | Min. 1/2” CDX Plywood | As required per FBC | OPTIONAL VersaShield® | Min. 0.029 Al Max. 16-inch coverage | 1.5” 2-Piece Clip Assembly secured with two (2) #10 x 1” PH wood screws and spaced 8-inches o.c. along the panel seam. Panel is mechanically seamed 180 degrees. | -116 |
| 1.5MS-W7 | Min. 1/2” CDX Plywood | As required per FBC | OPTIONAL VersaShield® | Min. 24ga. steel Max. 16-inch coverage | 1-1/2” Butterfly Clip Assembly secured with two (2) #10 PH wood screws and spaced 16-inches o.c. along the panel seam. Panel is mechanically seamed 180 degrees. | -123.5 |

Appendix B

| Approved Systems for SMI 1.5" Mechanical Seam over Wood Deck (New or Existing) | | | | | | |
|--|-------------------------|---------------------|-----------------------|--|---|---------------|
| System No. | Wood Deck | Underlayment | Moisture/Fire Barrier | Roof Panel | Panel Attachment | MDP (psf) |
| 1.5MS-W8 | Min. 15/32" CDX Plywood | As required per FBC | OPTIONAL VersaShield® | Min. 0.029 Al Max. 16-inch coverage | 1.5" MS Clip B secured with two (2) #10-13 GP Pancake Head screws and spaced 8-inches o.c. along the panel seam. Novaflex Metal Roof & Panel Adhesive Sealant - Translucent shall be applied along vertical leg of the female seam prior to seaming. Panel is mechanically seamed 90 degrees. | -123.5 |

| Approved Systems for SMI 1.75" SnapLock over Steel Deck (New or Existing) | | | | | | | |
|---|-------------|--|---------------------|-----------------------|---|--|---------------|
| System No. | Steel Deck | Insulation | Underlayment | Moisture/Fire Barrier | Roof Panel | Panel Attachment | MDP (psf) |
| 1.75SL-S1 | Min. 22 ga. | - | As required per FBC | OPTIONAL VersaShield® | Min. 24ga. steel Max. 18-inch coverage | 1-3/4" SnapLock Clip A 24-inches o.c. and attached with two (2) #12 PH screws. The male leg of panel is secured with clips and female leg is snap fit over male. | -77.63 |
| 1.75SL-S2 | Min. 22 ga. | Min. 1 in. <i>Approved</i> polyisocyanurate insulation board | As required per FBC | OPTIONAL VersaShield® | Min. 24ga. steel Max. 18-inch coverage | 1-3/4" SnapLock Clip A 24-inches o.c. and attached with two (2) #12 PH screws. The male leg of panel is secured with clips and female leg is snap fit over male. | -85.13 |
| 1.75SL-S3 | Min. 22 ga. | - | As required per FBC | OPTIONAL VersaShield® | Min. 24ga. steel Max. 18-inch coverage | 1-3/4" SnapLock Clip A 6-inches o.c. and attached with two (2) #12 PH screws. The male leg of panel is secured with clips and female leg is snap fit over male. | -101 |
| 1.75SL-S4 | Min. 22 ga. | Min. 1 in. <i>Approved</i> polyisocyanurate insulation board | As required per FBC | OPTIONAL VersaShield® | Min. 24ga. steel Max. 18-inch coverage | 1-3/4" SnapLock Clip A 6-inches o.c. and attached with two (2) #12 PH screws. The male leg of panel is secured with clips and female leg is snap fit over male. | -191 |

| Approved Systems for SMI 1.75" SnapLock over Wood Deck (New or Existing) | | | | | | |
|--|-----------------------|---------------------|-----------------------|--|---|------------|
| System No. | Wood Deck | Underlayment | Moisture/Fire Barrier | Roof Panel | Panel Attachment | MDP (psf) |
| 1.75SL-W1 | Min. 1/2" CDX Plywood | As required per FBC | OPTIONAL VersaShield® | Min. 0.038 Al Max. 16-inch coverage | 1-3/4" SnapLock Clip B secured with two (2) #10 x 1" PH wood screws and spaced 16-inches o.c. along the panel seam. | -96 |

Appendix B

| Approved Systems for SMI 1.75" SnapLock over Wood Deck (New or Existing) | | | | | | |
|--|-----------------------|---------------------|-----------------------|---|--|----------------|
| System No. | Wood Deck | Underlayment | Moisture/Fire Barrier | Roof Panel | Panel Attachment | MDP (psf) |
| 1.75SL-W2 | Min. 1/2" CDX Plywood | As required per FBC | OPTIONAL VersaShield® | Min. 24ga. steel Max. 18-inch coverage | 1-3/4" SnapLock Clip A secured with two (2) #10 PH wood screws and spaced 24-inches o.c. along the panel seam. The male leg of panel is secured with clips and female leg is snap fit over male. | -100.13 |
| 1.75SL-W3 | Min. 1/2" CDX Plywood | As required per FBC | OPTIONAL VersaShield® | Min. 0.038 Al Max. 16-inch coverage | 1-3/4" SnapLock Clip B secured with two (2) #10 x 1" PH wood screws and spaced 6-inches o.c. along the panel seam. | -123.5 |
| 1.75SL-W4 | Min. 1/2" CDX Plywood | As required per FBC | OPTIONAL VersaShield® | Min. 24ga. steel Max. 18-inch coverage | 1-3/4" SnapLock Clip A secured with two (2) #10 PH wood screws and spaced 6-inches o.c. along the panel seam. The male leg of panel is secured with clips and female leg is snap fit over male. | -131 |

| Approved Systems for SMI 2.0” Mechanical Seam over Steel Deck (New or Existing) | | | | | | | |
|---|-------------|--|---------------------|-----------------------|---|--|---------------|
| System No. | Steel Deck | Insulation | Underlayment | Moisture/Fire Barrier | Roof Panel | Panel Attachment | MDP (psf) |
| 2.0MS-S1 | Min. 22 ga. | Min. 1 in. <i>Approved</i> polyisocyanurate insulation board | As required per FBC | OPTIONAL VersaShield® | Min. 24ga. steel Max. 16-inch coverage | 2” Butterfly Clip Assembly 24-inches o.c. and attached with two (2) #12 PH screws. Panel is mechanically seamed 180 degrees. | -81.38 |
| 2.0MS-S2 | Min. 22 ga. | - | As required per FBC | OPTIONAL VersaShield® | Min. 24ga. steel Max. 18-inch coverage | 2” Butterfly Clip Assembly 24-inches o.c. and attached with two (2) #12 PH screws. Panel is mechanically seamed 180 degrees. | -96.38 |
| 2.0MS-S3 | Min. 22 ga. | - | As required per FBC | OPTIONAL VersaShield® | Min. 24ga. steel Max. 18-inch coverage | 2” Butterfly Clip Assembly 6-inches o.c. and attached with two (2) #12 PH screws. Panel is mechanically seamed 180 degrees. | -108.5 |
| 2.0MS-S4 | Min. 22 ga. | Min. 1 in. <i>Approved</i> polyisocyanurate insulation board | As required per FBC | OPTIONAL VersaShield® | Min. 24ga. steel Max. 18-inch coverage | 2” Butterfly Clip Assembly 6-inches o.c. and attached with two (2) Dekfast™ #12 PH screws. Panel is mechanically seamed 180 degrees. | -123.5 |

Appendix B

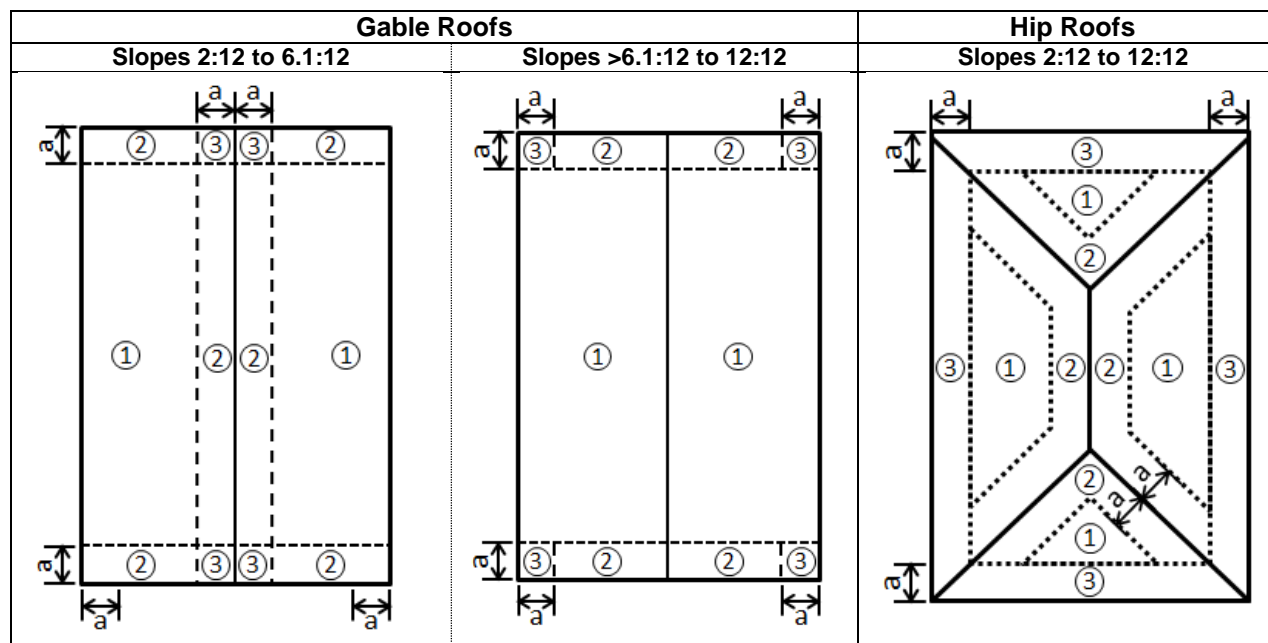
| Approved Systems for SMI 2.0" Mechanical Seam over Wood Deck (New or Existing) | | | | | | |
|--|-----------------------|---------------------|-----------------------|---|---|----------------|
| System No. | Wood Deck | Underlayment | Moisture/Fire Barrier | Roof Panel | Panel Attachment | MDP (psf) |
| 2.0MS-W1 | Min. 1/2" CDX Plywood | As required per FBC | OPTIONAL VersaShield® | Min. 24ga. steel Max. 18-inch coverage | 2" Butterfly Clip Assembly secured with two (2) #10 PH wood screws and spaced 24-inches o.c. along the panel seam. Panel is mechanically seamed 180 degrees. | -81.38 |
| 2.0MS-W2 | Min. 1/2" CDX Plywood | As required per FBC | OPTIONAL VersaShield® | Min. 24ga. steel Max. 18-inch coverage | 2" Butterfly Clip Assembly secured with two (2) #10 PH wood screws and spaced 16-inches o.c. along the panel seam. Panel is mechanically seamed 180 degrees. | -101 |
| 2.0MS-W3 | Min. 1/2" CDX Plywood | As required per FBC | OPTIONAL VersaShield® | Min. 0.038 Al Max. 16-inch coverage | 2" 2-Piece Clip Assembly secured with two (2) #10 x 1" PH wood screws and spaced 16-inches o.c. along the panel seam. Panel is mechanically seamed 180 degrees. | -142.25 |
| 2.0MS-W4 | Min. 1/2" CDX Plywood | As required per FBC | OPTIONAL VersaShield® | Min. 0.038 Al Max. 16-inch coverage | 2" 2-Piece Clip Assembly secured with two (2) #10 x 1" PH wood screws and spaced 8-inches o.c. along the panel seam. Panel is mechanically seamed 180 degrees. | -153.5 |

| Approved Systems for SMI 1.0" Fastener Flange SnapLock over Wood Deck (New or Existing) | | | | | | |
|---|-------------------------|---------------------|-----------------------|---|---|---------------|
| System No. | Wood Deck | Underlayment | Moisture/Fire Barrier | Roof Panel | Panel Attachment | MDP (psf) |
| 1.0FF-W1 | Min. 15/32" CDX Plywood | As required per FBC | OPTIONAL VersaShield® | Min. 24ga. steel Max. 16-inch coverage | Secured with one (1) #10-13 GP Pancake Head screw spaced 5-inches o.c. in between slots along fastener flange | -97.25 |
| 1.0FF-W2 | Min. 15/32" CDX Plywood | As required per FBC | OPTIONAL VersaShield® | Min. 24ga. steel Max. 16-inch coverage | Secured with one (1) #10-13 GP Pancake Head screw spaced 2.5-inches o.c. into and in between slots along nail strip. Novaflex Metal Roof & Panel Adhesive Sealant - Translucent shall be applied along fastener flange at the base of the male rib prior to engaging the snap lock. | -153.5 |

DESIGN WIND LOADS

The following tables provide design wind loads for components and cladding in accordance with Section 1609 of the FBC and ASCE 7-22 under the following provisions:

1. Wind speeds for risk category I, II, III, and IV buildings shall be as defined in Section 1609 of the FBC.
2. Exposure C, and D shall be as defined in section 1620 of the FBC.
3. Design wind load provided only for gable/hip roofs with roof slopes between 2:12 and 12:12
4. All calculations are based on an effective wind area of 10-ft² or less.
5. Topographic factors such as escarpments or hills have been excluded from the analysis
6. Overhangs have been excluded from the analysis.
7. Wind directionality factor, $K_d = 0.85$
8. Ground elevation factor, $K_e = 1.0$
9. Design wind loads are calculated using $P_{asd} = 0.6P_{ult}$.
10. Zone 2 applies to Zone 3 for Hip Roofs where the slope is between 2:12 and 6.1:12
11. Projects with mean roof heights greater than 60-ft shall be evaluated by a licensed design professional
12. Zones 1, 2, and 3 shall be defined as shown below. Dimension "a" shall be 10% of the least horizontal dimension or (0.4 x Mean Roof Height), whichever is smaller, but not less than either 4% of the least horizontal dimension or 3ft



Appendix C

| Gable/Hip Roofs in Exposure C in Miami-Dade & Broward County (Roof slopes between 2:12 and 12:12) | | | | | | | | |
|---|------|-----------------------|------------------------|------------|-------------|-------------|------------------|-----------------|
| Building Type | Zone | Mean Roof Height (ft) | Basic Wind Speed (mph) | | | | | |
| | | | Risk Cat I | Risk Cat I | Risk Cat II | Risk Cat II | Risk Cat III, IV | Risk Cat III,IV |
| | | | 156 | 165 | 170 | 175 | 180 | 186 |
| Enclosed/ Partially Open | 1 | 20 | -62.3 | -69.7 | -74.0 | -78.5 | -83.0 | -88.6 |
| | | 25 | -65.1 | -72.8 | -77.3 | -81.9 | -86.7 | -92.6 |
| | | 30 | -67.9 | -75.9 | -80.6 | -85.4 | -90.4 | -96.5 |
| | | 40 | -72.0 | -80.6 | -85.6 | -90.7 | -95.9 | -102.4 |
| | | 50 | -75.5 | -84.5 | -89.7 | -95.0 | -100.5 | -107.3 |
| | | 60 | -78.3 | -87.6 | -93.0 | -98.5 | -104.2 | -111.3 |
| | 2 | 20 | -90.9 | -101.7 | -108.0 | -114.4 | -121.1 | -129.3 |
| | | 25 | -95.0 | -106.3 | -112.8 | -119.5 | -126.5 | -135.0 |
| | | 30 | -99.0 | -110.8 | -117.6 | -124.6 | -131.8 | -140.8 |
| | | 40 | -105.1 | -117.6 | -124.8 | -132.2 | -139.9 | -149.4 |
| | | 50 | -110.1 | -123.2 | -130.8 | -138.6 | -146.6 | -156.6 |
| | | 60 | -114.2 | -127.7 | -135.6 | -143.7 | -152.0 | -162.3 |
| | 3 | 20 | -108.1 | -120.9 | -128.4 | -136.0 | -143.9 | -153.7 |
| | | 25 | -112.9 | -126.3 | -134.1 | -142.1 | -150.3 | -160.5 |
| | | 30 | -117.7 | -131.7 | -139.8 | -148.1 | -156.7 | -167.3 |
| | | 40 | -124.9 | -139.7 | -148.3 | -157.2 | -166.3 | -177.6 |
| | | 50 | -130.9 | -146.5 | -155.5 | -164.7 | -174.3 | -186.1 |
| | | 60 | -135.7 | -151.8 | -161.2 | -170.8 | -180.7 | -192.9 |
| Partially Enclosed | 1 | 20 | -72.9 | -81.6 | -86.6 | -91.8 | -97.1 | -103.7 |
| | | 25 | -76.2 | -85.2 | -90.4 | -95.8 | -101.4 | -108.3 |
| | | 30 | -79.4 | -88.8 | -94.3 | -99.9 | -105.7 | -112.9 |
| | | 40 | -84.3 | -94.3 | -100.1 | -106.0 | -112.2 | -119.8 |
| | | 50 | -88.3 | -98.8 | -104.9 | -111.1 | -117.6 | -125.5 |
| | | 60 | -91.6 | -102.4 | -108.7 | -115.2 | -121.9 | -130.2 |
| | 2 | 20 | -101.5 | -113.6 | -120.6 | -127.8 | -135.2 | -144.3 |
| | | 25 | -106.0 | -118.6 | -125.9 | -133.4 | -141.2 | -150.7 |
| | | 30 | -110.5 | -123.7 | -131.3 | -139.1 | -147.2 | -157.1 |
| | | 40 | -117.3 | -131.2 | -139.3 | -147.6 | -156.2 | -166.8 |
| | | 50 | -123.0 | -137.5 | -146.0 | -154.7 | -163.7 | -174.8 |
| | | 60 | -127.5 | -142.6 | -151.4 | -160.4 | -169.7 | -181.2 |
| | 3 | 20 | -118.7 | -132.8 | -140.9 | -149.3 | -158.0 | -168.7 |
| | | 25 | -124.0 | -138.7 | -147.2 | -156.0 | -165.0 | -176.2 |
| | | 30 | -129.2 | -144.6 | -153.5 | -162.6 | -172.0 | -183.7 |
| | | 40 | -137.1 | -153.4 | -162.9 | -172.6 | -182.6 | -195.0 |
| | | 50 | -143.7 | -160.8 | -170.7 | -180.9 | -191.4 | -204.3 |
| | | 60 | -149.0 | -166.7 | -177.0 | -187.5 | -198.4 | -211.8 |

SMI15001.7b

FL18316-R7

Page 2 of 3

This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

Appendix C

| Gable/Hip Roofs in Exposure D in Miami-Dade & Broward County (Roof slopes between 2:12 and 12:12) | | | | | | | | |
|---|------|-----------------------|------------------------|------------|-------------|-------------|------------------|-----------------|
| Building Type | Zone | Mean Roof Height (ft) | Basic Wind Speed (mph) | | | | | |
| | | | Risk Cat I | Risk Cat I | Risk Cat II | Risk Cat II | Risk Cat III, IV | Risk Cat III,IV |
| | | | 156 | 165 | 170 | 175 | 180 | 186 |
| Enclosed/ Partially Open | 1 | 20 | -74.8 | -83.7 | -88.8 | -94.1 | -99.6 | -106.3 |
| | | 25 | -77.6 | -86.8 | -92.1 | -97.6 | -103.3 | -110.3 |
| | | 30 | -80.4 | -89.9 | -95.4 | -101.1 | -107.0 | -114.2 |
| | | 40 | -84.5 | -94.5 | -100.4 | -106.3 | -112.5 | -120.1 |
| | | 50 | -88.0 | -98.4 | -104.5 | -110.7 | -117.1 | -125.1 |
| | | 60 | -90.7 | -101.5 | -107.8 | -114.2 | -120.8 | -129.0 |
| | 2 | 20 | -109.1 | -122.1 | -129.6 | -137.3 | -145.3 | -155.1 |
| | | 25 | -113.2 | -126.6 | -134.4 | -142.4 | -150.7 | -160.9 |
| | | 30 | -117.2 | -131.1 | -139.2 | -147.5 | -156.0 | -166.6 |
| | | 40 | -123.3 | -137.9 | -146.4 | -155.1 | -164.1 | -175.2 |
| | | 50 | -128.3 | -143.6 | -152.4 | -161.5 | -170.8 | -182.4 |
| | | 60 | -132.4 | -148.1 | -157.2 | -166.6 | -176.2 | -188.2 |
| | 3 | 20 | -129.7 | -145.1 | -154.0 | -163.2 | -172.7 | -184.4 |
| | | 25 | -134.5 | -150.5 | -159.7 | -169.3 | -179.1 | -191.2 |
| | | 30 | -139.3 | -155.9 | -165.4 | -175.3 | -185.5 | -198.1 |
| | | 40 | -146.5 | -163.9 | -174.0 | -184.4 | -195.1 | -208.3 |
| | | 50 | -152.5 | -170.6 | -181.1 | -192.0 | -203.1 | -216.8 |
| | | 60 | -157.3 | -176.0 | -186.8 | -198.0 | -209.5 | -223.7 |
| Partially Enclosed | 1 | 20 | -87.5 | -97.9 | -103.9 | -110.1 | -116.5 | -124.4 |
| | | 25 | -90.7 | -101.5 | -107.8 | -114.2 | -120.8 | -129.0 |
| | | 30 | -94.0 | -105.1 | -111.6 | -118.3 | -125.1 | -133.6 |
| | | 40 | -98.8 | -110.6 | -117.4 | -124.4 | -131.6 | -140.5 |
| | | 50 | -102.9 | -115.1 | -122.2 | -129.5 | -137.0 | -146.3 |
| | | 60 | -106.1 | -118.7 | -126.0 | -133.6 | -141.3 | -150.9 |
| | 2 | 20 | -121.8 | -136.3 | -144.7 | -153.3 | -162.2 | -173.2 |
| | | 25 | -126.3 | -141.3 | -150.0 | -159.0 | -168.2 | -179.6 |
| | | 30 | -130.8 | -146.4 | -155.4 | -164.7 | -174.2 | -186.0 |
| | | 40 | -137.6 | -154.0 | -163.4 | -173.2 | -183.2 | -195.6 |
| | | 50 | -143.3 | -160.3 | -170.1 | -180.3 | -190.7 | -203.6 |
| | | 60 | -147.8 | -165.3 | -175.5 | -186.0 | -196.7 | -210.1 |
| | 3 | 20 | -142.4 | -159.3 | -169.1 | -179.2 | -189.6 | -202.5 |
| | | 25 | -147.7 | -165.2 | -175.4 | -185.8 | -196.6 | -210.0 |
| | | 30 | -153.0 | -171.1 | -181.6 | -192.5 | -203.6 | -217.4 |
| | | 40 | -160.9 | -180.0 | -191.0 | -202.4 | -214.2 | -228.7 |
| | | 50 | -167.5 | -187.3 | -198.9 | -210.7 | -223.0 | -238.1 |
| | | 60 | -172.7 | -193.2 | -205.1 | -217.4 | -230.0 | -245.6 |

END OF REPORT

FL18316-R7

Page 3 of 3

SMI15001.7b

This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.