



EVALUATION REPORT

FLORIDA BUILDING CODE, 8TH EDITION (2023)

Manufacturer: SIKA CORPORATION
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Issued November 12, 2024

Quality Assurance: PRI Construction Materials, LLC (QUA9110)

SCOPE

Category: Roofing
Subcategory: Waterproofing
Code Edition: Florida Building Code, 8th Edition (2023) including High-Velocity Hurricane Zones (HVHZ)
Code Sections: 1504.3.1, 1507.15.2, 1515.1.1, 1515.1.4, 1519.16, 1523.1.1
Properties: Wind Resistance

REFERENCES

<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>	<u>Year</u>
FM Approvals	3049736	FM 4470	2016
Miami-Dade BCCO – EVL (EVL1528)	21-0817.04	TAS 114(D)	2011
Nemo/etc. (TST6049)	4i-SIKAC-22-SSCRT-01.A	FM 4470	2016
Nemo/etc. (TST6049)	4a-SIKAC-22-LSWUS-01.A	ANSI/FM 4474(D)	2011
		TAS 114(J)	2011
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	LPI-045-02-01	ASTM D 7311/D 7311M	2010
PRI Construction Materials Technologies (TST5878)	LPI-046-02-01	ASTM C 297	2010
PRI Construction Materials Technologies (TST5878)	LPI-049-02-01	ANSI/FM 4474(B)	2011
		TAS 114(D)	2011
PRI Construction Materials Technologies (TST5878)	LPI-049-02-02	ANSI/FM 4474(B)	2011
		TAS 114(D)	2011
PRI Construction Materials Technologies (TST5878)	LPI-052-02-01	ASTM C 836	2018
PRI Construction Materials Technologies (TST5878)	LPI-062-02-01	ANSI/FM 4474(B)	2011
		TAS 114(D)	2011
PRI Construction Materials Technologies (TST5878)	LPI-070-02-01.1	ASTM D 4541	2009e1
PRI Construction Materials Technologies (TST5878)	LPI-072-02-01.1	ASTM D 4541	2009e1
PRI Construction Materials Technologies (TST5878)	LPI-078-02-01.1	ASTM D 562	2010(2014)
		ASTM D 1475	2013
		ASTM D 1644	2001(2017)
		ASTM E 96/E 96M	2016
PRI Construction Materials Technologies (TST5878)	LPI-083-02-01	ASTM D 6083	2021
PRI Construction Materials Technologies (TST5878)	LPI-083-02-01A	ASTM D 4541	2009e1
PRI Construction Materials Technologies (TST5878)	557T0053	ASTM C 920	2018
PRI Construction Materials Technologies (TST5878)	557T0023	ASTM C 562	2010(2018)
		ASTM D 1475	2013
		ASTM D 1644	2001(2017)
		ASTM D 4541	2017
PRI Construction Materials Technologies (TST5878)	557T0044	ASTM D 4541	2017
PRI Construction Materials Technologies (TST5878)	557T0050.1	ANSI/FM 4474(B)	2011
		TAS 114(D)	2011
PRI Construction Materials Technologies (TST5878)	557T0055	ASTM D 4541	2017
PRI Construction Materials Technologies (TST5878)	557T0056	ASTM D 6083	2021
PRI Construction Materials Technologies (TST5878)	557T0060	ASTM C 836	2018
PRI Construction Materials Technologies (TST5878)	557T0110	ASTM D 4541	2022
PRI Construction Materials Technologies (TST5878)	557T0060	ASTM E 330	2014(2021)



PRODUCT DESCRIPTIONS & APPLICATION

Use	Products	Description
Joint Sealant	Sikaflex 11 FC	One-component, moisture-cured, polyurethane, elastomeric sealant/adhesive; Applied as a continuous bead at all board joints
Joint Tape	Sika Joint Tape SA	3-inch or 6-inch wide roll of self-adhering rubberized tape with plastic release liner on the underside and woven polyester facer on the top side.
Primer	Sika Bonding Primer	Two-component, water-based, epoxy primer applied at a rate of 200-300 ft ² /gal depending on substrate profile and porosity
	Sikalastic DTE Primer	Two-component, epoxy primer applied at a rate of 200 ft ² /gal; Not for use with Sikalastic 644 Lo-VOC
	Sikalastic EP Primer/Sealer	Two-component, epoxy primer applied at a rate of 100-250 ft ² /gal depending on substrate profile and porosity
	Sika Concrete Primer Lo-VOC	Single-component, low odor moisture-curing polyurethane resin applied at a rate of 225-375 ft ² /gal depending on substrate profile and porosity
	Sikalastic GDC Primer	Two-component epoxy primer applied at a rate of 95-112 ft ² /gal
Liquid-Applied Waterproofing	Sikalastic 621 TC	Cold applied, aliphatic, single component, moisture-triggered polyurethane resin base and top coat applied with a 1/2-inch nap phenolic resin roller, spray, or squeegee applied
	Sikalastic 624 WP	Cold applied, aliphatic, single component, alkali resistant moisture-triggered polyurethane resin base and top coat applied with a 1/2-inch nap phenolic resin roller, spray, or squeegee applied
	Sikalastic 641 Lo-VOC	ASTM D 6083, Type I, cold applied, aliphatic, single component, moisture-triggered polyurethane resin base and top coat applied with a 1/2-inch nap phenolic resin roller, spray, or squeegee applied
	Sikalastic 644 Lo-VOC	Cold applied, aliphatic, single component, alkali resistant moisture-triggered polyurethane resin base and top coat applied with a 1/2-inch nap phenolic resin roller, spray, or squeegee applied
Reinforcement	Sika Fleece 120	Non-woven, needle-punched polyester fleece reinforcement; Min. 3-inch side laps and min. 6-inch end laps; Embed into wet resin and apply wet roller to top to saturate
	Sika Fleece 140	
	Sika Fleece 170	
	Sika Flexitape Heavy	Woven nylon mesh; Min. 6-inch wide strips applied over sealed board joints into roller applied base coat of Sikalastic resin followed by application of top coat of Sikalastic resin to saturation
	Sika Reemat Premium	Surface treated, randomly oriented glass fiber reinforcement; Min. 2-inch overlapping seams; Embed into wet resin and apply wet roller to top to saturate
Overburden Attachment	Laticrete 254 Platinum Thin-Set Mortar	Applied using 1/4-inch x 3/8-inch x 1/4-inch notched trowel with ANSI A137.1 tiles; Applied using 1/2-inch x 1/2-inch x 1/2-inch notched trowel with concrete pavers
	MAPEI Ceramic Tile Mortar	
	SikaTile-475 LHT Premium Set	
	Versabond Fortified Thin-Set Mortar	

WATERPROOFING SYSTEMS

System	Component	Detail with Sika Reemat Reinforcement	Detail with Sika Fleece Reinforcement
RoofPro 20 Sikalastic 621 TC System	Base Coat:	Sikalastic 621 TC applied at a rate of 35 ft ² /gal	Sikalastic 621 TC applied at a rate of 32 ft ² /gal
	Reinforcement:	Sika Reemat Premium	Sika Fleece 140
	Top Coat:	Sikalastic 621 TC applied at a rate of 53 ft ² /gal	Sikalastic 621 TC applied at a rate of 45 ft ² /gal
	Surfacing:	<i>Optional</i> - Sikalastic 621 TC applied at a rate of 15 mils, 100 ft ² /gal with silica sand (20-40 or 16-30 grit) broadcast at a rate of 2.75 lbs/100 ft ² into wet surfacing coat	
RoofPro 25 Sikalastic 621 TC System	Base Coat:	Sikalastic 621 TC applied at a rate of 35 ft ² /gal	Sikalastic 621 TC applied at a rate of 26 ft ² /gal
	Reinforcement:	Sika Reemat Premium	Sika Fleece 170
	Intermediate/ Top Coat:	Two (2) coats of Sikalastic 621 TC applied at a rate of 53 ft ² /gal. Allow 12 hours cure time between first and second coat.	Sikalastic 621 TC applied at a rate of 40 ft ² /gal
	Surfacing:	<i>Optional</i> - Sikalastic 621 TC applied at a rate of 15 mils, 100 ft ² /gal with silica sand (20-40 or 16-30 grit) broadcast at a rate of 2.75 lbs/100 ft ² into wet surfacing coat	
RoofPro 20 Sikalastic 624 WP System	Base Coat:	Sikalastic 624 WP applied at a rate of 35 ft ² /gal	Sikalastic 624 WP applied at a rate of 32 ft ² /gal
	Reinforcement:	Sika Reemat Premium	Sika Fleece 140
	Top Coat:	Sikalastic 624 WP applied at a rate of 40 ft ² /gal	Sikalastic 624 WP applied at a rate of 45 ft ² /gal
	Surfacing:	<i>Optional for exposed waterproofing systems</i> - Sikalastic 624 WP applied at a rate of 15 mils, 100 ft ² /gal with silica sand (20-40 or 16-30 grit) broadcast at a rate of 50 lbs/100 ft ² into wet sand coat for overburden attachment	
RoofPro 25 Sikalastic 624 WP System	Base Coat:	Sikalastic 624 WP applied at a rate of 35 ft ² /gal	Sikalastic 624 WP applied at a rate of 24 ft ² /gal
	Reinforcement:	Sika Reemat Premium	Sika Fleece 170
	Intermediate/ Top Coat:	Two (2) coats of Sikalastic 624 WP applied at a rate of 53 ft ² /gal. Allow 12 hours cure time between first and second coat.	Sikalastic 624 WP applied at a rate of 40 ft ² /gal
	Surfacing:	<i>Optional for exposed waterproofing systems</i> - Sikalastic 624 WP applied at a rate of 15 mils, 100 ft ² /gal with silica sand (20-40 or 16-30 grit) broadcast at a rate of 50 lbs/100 ft ² into wet sand coat for overburden attachment	
Sikalastic 641 Lo-VOC RoofPro 15 System	Base Coat:	Sikalastic 641 Lo-VOC applied at a rate of 32 ft ² /gal	Sikalastic 641 Lo-VOC applied at a rate of 35 ft ² /gal
	Reinforcement:	Sika Reemat Premium	Sika Fleece 120
	Top Coat:	Sikalastic 641 Lo-VOC applied at a rate of 80 ft ² /gal	Sikalastic 641 Lo-VOC applied at a rate of 64 ft ² /gal
	Surfacing:	<i>Optional</i> - Sikalastic 641 Lo-VOC applied at a rate of 15 mils, 100 ft ² /gal with silica sand (20-40 or 16-30 grit) broadcast at a rate of 2.75 lbs/100 ft ² into wet surfacing coat	



System	Component	Detail with Sika Reemat Reinforcement	Detail with Sika Fleece Reinforcement
Sikalastic 641 Lo-VOC RoofPro 20 System	Base Coat:	Sikalastic 641 Lo-VOC applied at a rate of 32 ft ² /gal	Sikalastic 641 Lo-VOC applied at a rate of 32 ft ² /gal
	Reinforcement:	Sika Reemat Premium	Sika Fleece 140
	Top Coat:	Sikalastic 641 Lo-VOC applied at a rate of 53 ft ² /gal	Sikalastic 641 Lo-VOC applied at a rate of 53 ft ² /gal
	Surfacing:	<i>Optional</i> - Sikalastic 641 Lo-VOC applied at a rate of 15 mils, 100 ft ² /gal with silica sand (20-40 or 16-30 grit) broadcast at a rate of 2.75 lbs/100 ft ² into wet surfacing coat	
Sikalastic 641 Lo-VOC RoofPro 25 System	Base Coat:	Sikalastic 641 Lo-VOC applied at a rate of 32 ft ² /gal	Sikalastic 641 Lo-VOC applied at a rate of 24 ft ² /gal
	Reinforcement:	Sika Reemat Premium	Sika Fleece 170
	Top Coat:	Two (2) coats of Sikalastic 641 Lo-VOC applied at a rate of 69 ft ² /gal. Allow 12 hours cure time between first and second coat.	Sikalastic 641 Lo-VOC applied at a rate of 47 ft ² /gal
	Surfacing:	<i>Optional</i> - Sikalastic 641 Lo-VOC applied at a rate of 15 mils, 100 ft ² /gal with silica sand (20-40 or 16-30 grit) broadcast at a rate of 2.75 lbs/100 ft ² into wet surfacing coat	
Sikalastic 644 Lo-VOC RoofPro 15 System	Base Coat:	Sikalastic 644 Lo-VOC applied at a rate of 35 ft ² /gal	Sikalastic 644 Lo-VOC applied at a rate of 35 ft ² /gal
	Reinforcement:	Sika Reemat Premium	Sika Fleece 120
	Top Coat:	Sikalastic 644 Lo-VOC applied at a rate of 64 ft ² /gal	Sikalastic 644 Lo-VOC applied at a rate of 64 ft ² /gal
	Surfacing:	<i>Optional for exposed waterproofing systems</i> - Sikalastic 644 Lo-VOC applied at a rate of 15 mils, 100 ft ² /gal with silica sand (20-40 or 16-30 grit) broadcast at a rate of 50 lbs/100 ft ² into wet sand coat for overburden attachment	
Sikalastic 644 Lo-VOC RoofPro 20 System	Base Coat:	Sikalastic 644 Lo-VOC applied at a rate of 35 ft ² /gal	Sikalastic 644 Lo-VOC applied at a rate of 32 ft ² /gal
	Reinforcement:	Sika Reemat Premium	Sika Fleece 140
	Top Coat:	Sikalastic 644 Lo-VOC applied at a rate of 53 ft ² /gal	Sikalastic 644 Lo-VOC applied at a rate of 64 ft ² /gal
	Surfacing:	<i>Optional for exposed waterproofing systems</i> - Sikalastic 644 Lo-VOC applied at a rate of 15 mils, 100 ft ² /gal with silica sand (20-40 or 16-30 grit) broadcast at a rate of 50 lbs/100 ft ² into wet sand coat for overburden attachment	
Sikalastic 644 Lo-VOC RoofPro 25 System	Base Coat:	Sikalastic 644 Lo-VOC applied at a rate of 35 ft ² /gal	Sikalastic 644 Lo-VOC applied at a rate of 27 ft ² /gal
	Reinforcement:	Sika Reemat Premium	Sika Fleece 170
	Top Coat:	Two (2) coats of Sikalastic 644 Lo-VOC applied at a rate of 64 ft ² /gal. Allow 12 hours cure time between first and second coat.	Sikalastic 644 Lo-VOC applied at a rate of 45 ft ² /gal
	Surfacing:	<i>Optional for exposed waterproofing systems</i> - Sikalastic 644 Lo-VOC applied at a rate of 15 mils 100 ft ² /gal with silica sand (20-40 or 16-30 grit) broadcast at a rate of 50 lbs/100 ft ² into wet sand coat for overburden attachment	

APPROVED ASSEMBLIES

The following notes shall be observed when using the waterproofing systems from the tables below.

1. *Maximum Design Pressures* were calculated using a 2:1 margin of safety per FBC Section 1504.9 and 1523.4.
2. Refer to [LIMITATIONS](#) section of this evaluation when using the table(s) below.
3. Refer to [PRODUCT DESCRIPTION & APPLICATION](#) and [WATERPROOFING SYSTEMS](#) sections of this report for installation detail when the information is not explicitly stated for the selected roof system.
4. The on-center (o.c.) spacing given is the maximum allowable attachment spacing for the rated system.
5. As *Tested* information for roof deck construction is provided for information only. The addition of the As *Tested* deck information does not obviate the requirement for rational design of the roof deck and roof deck attachment in accordance with FBC requirements.
6. As *Tested* deck construction details for Wood Deck are described as follows:

Min. 19/32-inch thick, 40/20 span rated, CDX plywood sheathing. The following nomenclature is used to further describe the As <i>Tested</i> condition.	
T<#>	Min. <#>-inch thickness of the plywood
L<#>	Max. span of <#> inches
N<#1>/<#2>	Min. 8d x 2.5-inch ring shank nails spaced <#1>-inch o.c. at all intermediate supports and spaced <#2> at the perimeter of each board

Assemblies with Adhered Membranes over Concrete Deck (New or Existing)				
System No.	Deck Detail	Waterproofing System	Overburden	Max. Design Pressure (psf)
C-1	Min 2500 psi concrete primed with Sika Bonding Primer, Sikalastic DTE Primer, Sikalastic EP Primer/Sealer, Sika Concrete Primer Lo-VOC, or Sikalastic GDC Primer	RoofPro 20 Sikalastic 624 WP System or RoofPro 25 Sikalastic 624 WP System	Minimum 2500 psi, 2-inch thick structural concrete poured in place	-367.5 (Lim. 9)
C-2	Min 2500 psi concrete primed with Sika Bonding Primer, Sikalastic DTE Primer, Sikalastic EP Primer/Sealer, Sika Concrete Primer Lo-VOC, or Sikalastic GDC Primer	RoofPro 20 Sikalastic 624 WP System or RoofPro 25 Sikalastic 624 WP System	Minimum 12" x 12" tiles complying with ANSI A137.1 secured in Laticrete 254 Platinum thin-set mortar, Versabond Fortified Thin-Set Mortar, MAPEI Ceramic Tile Mortar, or SikaTile-475 LHT Premium Set	-495 (Lim. 9)
C-3	Min 2500 psi concrete primed with Sika Bonding Primer, Sikalastic DTE Primer, Sikalastic EP Primer/Sealer, Sika Concrete Primer Lo-VOC, or Sikalastic GDC Primer	RoofPro 20 Sikalastic 624 WP System or RoofPro 25 Sikalastic 624 WP System	Minimum 4" x 8" x 2" thick concrete pavers secured in SikaTile-475 LHT Premium Set	-495 (Lim. 9)
C-4	Min 2500 psi concrete primed with Sika Bonding Primer, Sikalastic EP Primer/Sealer, Sika Concrete Primer Lo-VOC, or Sikalastic GDC Primer	Sikalastic 644 Lo-VOC RoofPro 15 System, Sikalastic 644 Lo-VOC RoofPro 20 System or Sikalastic 644 Lo-VOC RoofPro 25 System	Minimum 12" x 12" tiles complying with ANSI A137.1 secured in Laticrete 254 Platinum thin-set mortar, MAPEI Ceramic Tile Mortar, or SikaTile-475 LHT Premium Set	-502.5 (Lim. 9)

Assemblies with Adhered Membranes over Concrete Deck (New or Existing)				
System No.	Deck Detail	Waterproofing System	Overburden	Max. Design Pressure (psf)
C-5	Min 2500 psi concrete primed with Sika Bonding Primer, Sikalastic EP Primer/Sealer, Sika Concrete Primer Lo-VOC, or Sikalastic GDC Primer	Sikalastic 644 Lo-VOC RoofPro 15 System, Sikalastic 644 Lo-VOC RoofPro 20 System or Sikalastic 644 Lo-VOC RoofPro 25 System	Minimum 4" x 8" x 2" thick concrete pavers secured in SikaTile-475 LHT Premium Set	-502.5 (Lim. 9)
C-6	Min 2500 psi concrete primed with Sika Bonding Primer, Sikalastic DTE Primer, Sikalastic EP Primer/Sealer, Sika Concrete Primer Lo-VOC, or Sikalastic GDC Primer	RoofPro 20 Sikalastic 621 TC System, RoofPro 25 Sikalastic 621 TC System, RoofPro 20 Sikalastic 624 WP System, RoofPro 25 Sikalastic 624 WP System (without top coat), Sikalastic 641 Lo-VOC RoofPro 15 System, Sikalastic 641 Lo-VOC RoofPro 20 System or Sikalastic 641 Lo-VOC RoofPro 25 System	Drainage medium followed by min. 24-inch deep soil medium	-502.5 (Lim. 9)
C-7	Min 2500 psi concrete primed with Sika Bonding Primer, Sikalastic EP Primer/Sealer, Sika Concrete Primer Lo-VOC, or Sikalastic GDC Primer	Sikalastic 644 Lo-VOC RoofPro 15 System, Sikalastic 644 Lo-VOC RoofPro 20 System or Sikalastic 644 Lo-VOC RoofPro 25 System	Drainage medium followed by min. 24-inch deep soil medium	-502.5 (Lim. 9)
C-8	Min 2500 psi concrete primed with Sika Bonding Primer, Sikalastic DTE Primer, Sikalastic EP Primer/Sealer, Sika Concrete Primer Lo-VOC, or Sikalastic GDC Primer	RoofPro 20 Sikalastic 621 TC System, RoofPro 25 Sikalastic 621 TC System, Sikalastic 641 Lo-VOC RoofPro 15 System, Sikalastic 641 Lo-VOC RoofPro 20 System or Sikalastic 641 Lo-VOC RoofPro 25 System	-	-502.5 (Lim. 9)
C-9	Min 2500 psi concrete primed with Sika Bonding Primer, Sikalastic EP Primer/Sealer, Sika Concrete Primer Lo-VOC, or Sikalastic GDC Primer	Sikalastic 644 Lo-VOC RoofPro 15 System, Sikalastic 644 Lo-VOC RoofPro 20 System or Sikalastic 644 Lo-VOC RoofPro 25 System	-	-502.5 (Lim. 9)
C-10	Min 2500 psi concrete primed Sika Concrete Primer Lo-VOC	RoofPro 20 Sikalastic 624 WP System or RoofPro 25 Sikalastic 624 WP System	Minimum 12" x 12" tiles complying with ANSI A137.1 secured in SikaTile-475 LHT Premium Set	-570 (Lim. 9)

Assemblies with Adhered Membranes over Wood Deck (New or Existing)							
System No.	Deck Detail (Note 6)	Coverboard	Primer	Joint Treatment	Waterproofing System	Overburden	Max. Design Pressure (psf)
W-1	T19/32, L24, N6/6	Min 1/2-inch SECUROCK Cement Roof Board secured with Sarnafastener #12 screws and 3-inch Sarnaplates (square) at a rate of 9 per 4ft x 4ft board (1 per 1.8ft ²); Plates primed with Sikalastic EP Primer/Sealer	SECUROCK primed with Sika Concrete Primer Lo-VOC applied at a rate of 200 ft ² /gal;	Board joints treated with Sikaflex 11 FC followed by Sika Flexitape Heavy followed by a saturation coat of Sikalastic 641 Lo-VOC or joints treated with Sika Joint Tape SA	Sikalastic 641 Lo-VOC RoofPro 20 System or Sikalastic 641 Lo-VOC RoofPro 25 System	-	-75 (Lim. 7)
W-2	T19/32, L24, N6/6	Min 1/2-inch SECUROCK Cement Roof Board secured with Sarnafastener #12 screws and 3-inch Sarnaplates (square) at a rate of 9 per 4ft x 4ft board (1 per 1.8ft ²); Plates primed with Sikalastic EP Primer/Sealer	SECUROCK primed with Sika Concrete Primer Lo-VOC applied at a rate of 200 ft ² /gal;	Board joints treated with Sikaflex 11 FC followed by Sika Flexitape Heavy followed by a saturation coat of Sikalastic 624 WP or joints treated with Sika Joint Tape SA	RoofPro 20 Sikalastic 624 WP System or RoofPro 25 Sikalastic 624 WP System	Minimum 12" x 12" tiles complying with ANSI A137.1 secured in Laticrete 254 Platinum thin-set mortar, Versabond Fortified Thin-Set Mortar, MAPEI Ceramic Tile Mortar, or SikaTile-475 LHT Premium Set	-75 (Lim. 7)
W-3	T19/32, L24	-	Plywood deck primed with Sikalastic EP primer/Sealer applied at a rate of 200 ft ² /gal	Board joints treated with Sikaflex 11 FC followed by Sika Flexitape Heavy followed by a saturation coat of Sikalastic 641 Lo-VOC or joints treated with Sika Joint Tape SA	Sikalastic 641 Lo-VOC RoofPro 20 System or Sikalastic 641 Lo-VOC RoofPro 25 System	-	-120 (Lim. 9; Non-HVHZ only)
W-4	T19/32, L24	-	Plywood deck primed with Sikalastic EP primer/Sealer applied at a rate of 200 ft ² /gal	Board joints treated with Sikaflex 11 FC followed by Sika Flexitape Heavy followed by a saturation coat of Sikalastic 624 WP or joints treated with Sika Joint Tape SA	RoofPro 20 Sikalastic 624 WP System or RoofPro 25 Sikalastic 624 WP System	Minimum 12" x 12" tiles complying with ANSI A137.1 secured in Laticrete 254 Platinum thin-set mortar, Versabond Fortified Thin-Set Mortar, MAPEI Ceramic Tile Mortar, or SikaTile-475 LHT Premium Set	-120 (Lim. 9; Non-HVHZ only)



LIMITATIONS

1. Fire classification is not within the scope of this evaluation.
2. 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.
3. Foam plastic insulation shall be installed in accordance with the FBC Section 2603.4.1.5 and 2603.6.
4. In the HVHZ, fastener spacing for insulation attachment is determined using a Minimum Characteristic Force (F') of 275 lbf as demonstrated via testing to TAS 105. If the field tested fastener value is below 275 lbf, then insulation attachment shall not be acceptable.
5. In the HVHZ, fastener spacing for base sheets or membrane attachment shall meet the minimum fastener resistance value and the *MDP* for the specified roof system. It is permissible for a qualified professional to submit a revised fastener spacing utilizing the withdrawal resistance value obtained from TAS 105 testing and calculations performed in accordance with RAS 117 and/or RAS 137, when the fastener resistance is found less than required.
6. In the HVHZ, if mechanical attachment through the lightweight insulating concrete to the structural deck is proposed, a field fastener withdrawal test shall be conducted in compliance with TAS 105 to determine equivalent or increased attachment densities. Revised fastener densities shall be submitted utilizing the withdrawal resistance value obtained from TAS 105 testing and calculations performed in accordance with RAS 117 and/or RAS 137.
7. For assemblies containing mechanical attachment, the allowable uplift pressure for the selected roof system shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16. For perimeter and corner roof zones 2 and 3, the attachment density may be increased by a qualified design professional, as necessary, to meet the design pressure requirements in these areas. In the HVHZ, calculations shall be conducted in compliance with RAS 117 and/or RAS 137. Outside the HVHZ, commonly used standards include RAS 117, FM LPDS 1-29, or ANSI/SPRI WD-1.
8. Reroofing applications shall be examined in accordance with FBC Section 1511 outside of the HVHZ and FBC Section 1521 within the HVHZ. For mechanically fastened systems, a field withdrawal resistance test (TAS 105 in the HVHZ; ANSI/SPRI FX-1 or TAS 105 in the non-HVHZ) shall be conducted by a qualified professional to ensure the fastener meets the minimum design load requirements of the system. For adhered systems, a field uplift resistance test (TAS 124 in the HVHZ; ASTM E 907, FM LPDS 1-52, ANSI/SPRI IA-1, or TAS 124 in the non-HVHZ) shall be conducted to confirm conformance of the existing to the minimum design loads.
9. For assemblies containing fully adhered or ribbon adhered attachment, or where extrapolation of the roof system is not permitted, the *MDP* for the selected roof system shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16 without augmentation.
10. 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.
11. The minimum roof slope shall be 1/4:12 for new construction.
12. The AHJ may require integrity flood testing (ASTM D 5957) or Electric Field Vector Mapping tests of all waterproofing systems prior to placement of the overburden material. Testing, if required, should be conducted by a qualified design professional. In the HVHZ, the waterproofing system shall be flood tested in accordance with Section 1519.16.6.
13. All products listed in this report shall be manufactured under a quality assurance programs in compliance with Rule 61G20-3.



COMPLIANCE STATEMENT

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



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END OF REPORT