

Registry No. 29824 17520 Edinburgh Dr Tampa, FL 33647 (813) 480-3421

Issued December 23, 2023

## **EVALUATION REPORT**

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

Manufacturer: TRI COUNTY METALS

301 SE 16<sup>th</sup> Street Trenton, FL 32693 (877) 766-3309

www.tricountymetals.com

Manufacturing Locations: Trenton, FL

**Quality Assurance:** PRI Construction Materials Technologies (QUA9110)

#### **SCOPE**

Category: Roofing
Subcategory: Metal Roofing

**Code Edition:** Florida Building Code, 8<sup>th</sup> Edition (2023)

**Code Sections:** 1504.3, 1504.3.2 **Properties:** Wind Resistance

# **REFERENCES**

Entity Force Engineering & Testing, Inc. (TST5328)	Report No. 136-0027T-12A,B	Standard TAS 125 UL 580 UL 1897	<u>Year</u> 2003 2006 2015
Force Engineering & Testing, Inc. (TST5328) Force Engineering & Testing, Inc. (TST5328)	136-0027T-12C 136-0044T-14A,B	FM 4471 TAS 125 UL 580 UL 1897	1992 2003 2006 2015
Force Engineering & Testing, Inc. (TST5328)	136-0084T-14A,B	TAS 125 UL 580 UL 1897	2003 2006 2015
Force Engineering & Testing, Inc. (TST5328)	136-0087T-13	TAS 125 UL 580 UL 1897	2003 2006 2015
Force Engineering & Testing, Inc. (TST5328)	136-0099T-14A,B	TAS 125 UL 580 UL 1897	2003 2006 2015
Force Engineering & Testing, Inc. (TST5328)	136-0172T-12A,B	TAS 125 UL 580 UL 1897	2003 2006 2015
Force Engineering & Testing, Inc. (TST5328)	136-0172T-12C,D	TAS 125 UL 580 UL 1897	2003 2006 2015
Force Engineering & Testing, Inc. (TST5328) Force Engineering & Testing, Inc. (TST5328)	136-0172T-12E 136-0173T-12A,B	FM 4471 TAS 125 UL 580 UL 1897	1992 2003 2006 2015
Force Engineering & Testing, Inc. (TST5328)	136-0173T-12C,D	TAS 125 UL 580 UL 1897	2003 2006 2015
Force Engineering & Testing, Inc. (TST5328)	136-0299T-13	TAS 125 UL 580 UL 1897	2003 2006 2015

TCM20001.10a FL36904-R10 Page 1 of 9



Entity Force Engineering & Testing, Inc. (TST5328)	Report No. 136-0408T-09A,B	Standard TAS 125 UL 580	<u>Year</u> 2003 2006
Force Engineering & Testing, Inc. (TST5328)	136-0408T-09C	UL 1897 FM 4471	2015 1992
PRI Construction Materials Technologies (TST5878)	945T0002	ASTM B 117	2016
PRI Construction Materials Technologies (TST5878)	945T0004	ASTM G 155	2013
PRI Construction Materials Technologies (TST5878)	1272T0002	ASTM B 117	2016
DDI Construction Metarials Technologies (TCTC070)	4070T0000	TAS 110	2000
PRI Construction Materials Technologies (TST5878)	1272T0003	ASTM B 117 TAS 110	2016 2000
PRI Construction Materials Technologies (TST5878)	1272T0005	ASTM G 155	2013
• ( ,		TAS 110	2000
PRI Construction Materials Technologies (TST5878)	1272T0006	ASTM G 155	2013
PRI Construction Materials Technologies (TST5878)	1930T0001	TAS 110 TAS 125	2000 2003
PRI Construction Materials Technologies (1313676)	193010001	UL 580	2006
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0002	TAS 125	2003
		UL 580	2006
PRI Construction Materials Technologies (TST5878)	1930T0003	UL 1897 TAS 125	2015 2003
PRI Construction Materials Technologies (1313676)	193010003	UL 580	2005
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0004	TAS 125	2003
		UL 580	2006
PRI Construction Materials Technologies (TST5878)	1930T0009	UL 1897 FM 4471	2015 1992
PRI Construction Materials Technologies (TST5878)	1930T0009 1930T0010	ASTM B 117	2016
		TAS 110	2000
PRI Construction Materials Technologies (TST5878)	1930T0011	ASTM G 155	2013
DDI Construction Metarials Technologies (TCTC070)	4020T0042	TAS 110	2000
PRI Construction Materials Technologies (TST5878)	1930T0013	TAS 125 UL 580	2003 2006
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0015	UL 580	2006
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0016	TAS 125	2003
		UL 580 UL 1897	2006 2015
PRI Construction Materials Technologies (TST5878)	1930T0017	ASTM E 1592	2005(2017)
PRI Construction Materials Technologies (TST5878)	1930T0018	TAS 125	2003`
		UL 580	2006
PRI Construction Materials Technologies (TST5878)	1930T0019	UL 1897 UL 580	2015 2006
1 11 Construction Materials Technologies (1013070)	193010019	UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0020	TAS 125	2003
		UL 580	2006
DDI Construction Materials Technologies (TST5979)	1930T0026	UL 1897	2015
PRI Construction Materials Technologies (TST5878)	193010026	TAS 125 UL 580	2003 2006
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0027	TAS 125	2003
		UL 580	2006
PRI Construction Materials Technologies (TST5878)	1930T0028	UL 1897 ASTM C 794	2015 2001
PRI Construction Materials Technologies (TST5878)	1930T0029	TAS 125	2003
,		UL 580	2006
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0031	TAS 125 UL 580	2003 2006
		UL 580 UL 1897	2006
PRI Construction Materials Technologies (TST5878)	1930T0032	TAS 125	2003
,		UL 580	2006
		UL 1897	2015

TCM20001.10a FL36904-R10 Page 2 of 9



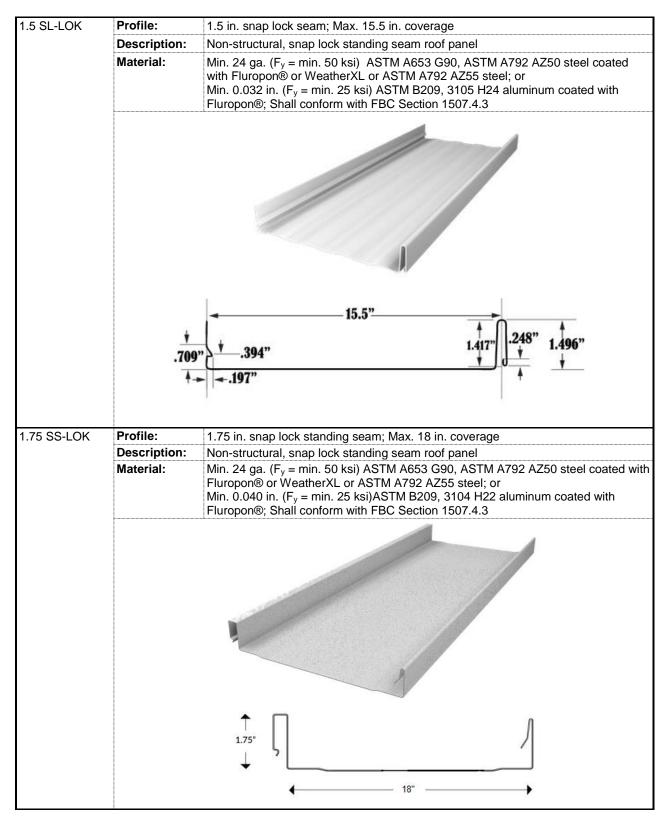
Entity PRI Construction Materials Technologies (TST5878)	Report No. 1930T0034.1	Standard TAS 125 UL 580 UL 1897	<u>Year</u> 2003 2006 2015
PRI Construction Materials Technologies (TST5878)	1930T0035	UL 580 UL 1897	2006 2015
PRI Construction Materials Technologies (TST5878)	1930T0036.1	TAS 125 UL 580	2003 2006
PRI Construction Materials Technologies (TST5878)	1930T0037.1	UL 1897 TAS 125 UL 580	2015 2003 2006
PRI Construction Materials Technologies (TST5878)	1930T0038	UL 1897 TAS 125 UL 580	2015 2003 2006
PRI Construction Materials Technologies (TST5878)	1930T0039.2	UL 1897 TAS 125 UL 580	2015 2003 2006
PRI Construction Materials Technologies (TST5878)	1930T0040	UL 1897 TAS 125 UL 580	2015 2003 2006
PRI Construction Materials Technologies (TST5878) PRI Construction Materials Technologies (TST5878)	1930T0042 1930T0045	UL 1897 FM 4471 UL 580	2015 1992 2006
PRI Construction Materials Technologies (TST5878)	1930T0046	UL 1897 TAS 125 UL 580 UL 1897	2015 2003 2006 2015



## **PRODUCT DESCRIPTION**

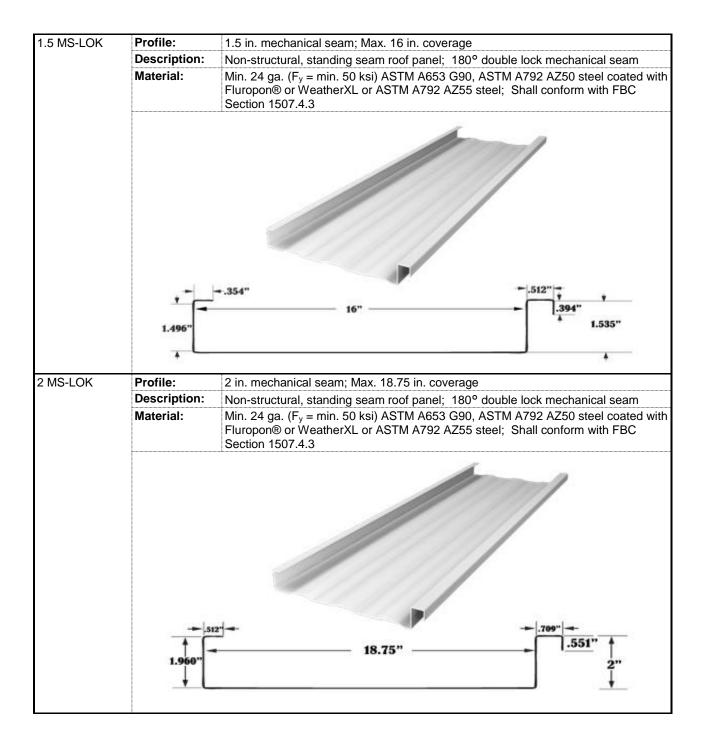
TCM-LOK 1 in.	Profile:	1 in. snap lock seam; Max.16 in. coverage
	Description:	Non-structural, snap lock standing seam roof panel with 7/8 in. slotted nail strip
	Material:	Min. 26 ga. ( $F_y$ = min. 50 ksi) ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or ASTM A792 AZ55 steel; or Min. 0.032in. ( $F_y$ = min. 25 ksi) ASTM B209, 3105 H22 aluminum coated with Fluropon®; Shall conform with FBC Section 1507.4.3
TCM-LOK 1.5 in	. Profile:	1.5 in. snap lock seam; Max. 15 in. coverage
	Description:	Non-structural, snap lock standing seam roof panel with 7/8 in. slotted nail strip
	Material:	Min. 24 ga. ( $F_y$ = min. 50 ksi) ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or ASTM A792 AZ55 steel; Shall conform with FBC Section 1507.4.3
		15"



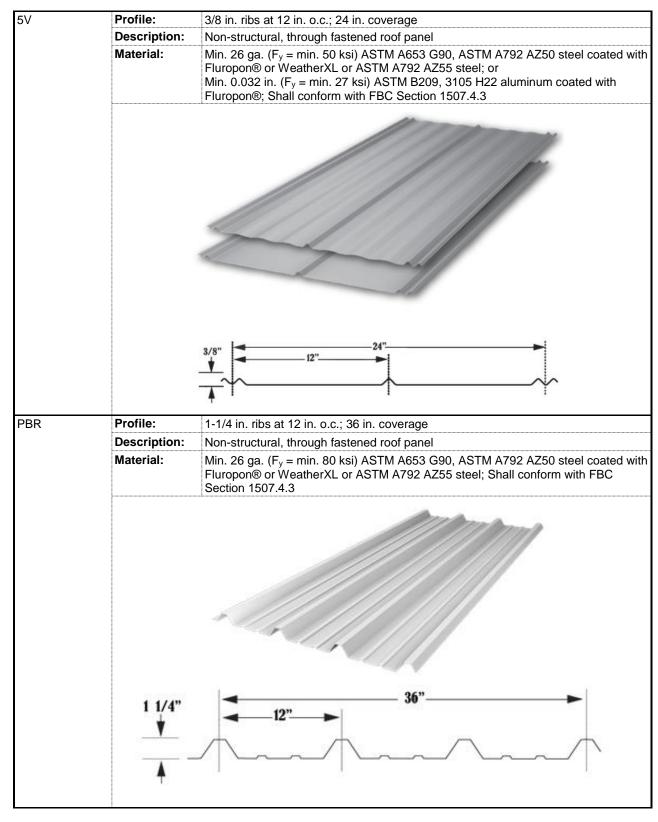


TCM20001.10a FL36904-R10 Page 5 of 9









TCM20001.10a FL36904-R10 Page 7 of 9



Ultra Rib	Profile:	3/4 in. ribs at 9 in. o.c.; 36 in. coverage
	Description:	Non-structural, through fastened roof panel
	Material:	Min. 29 ga. ( $F_y$ = min. 80 ksi) or Min. 26 ga. ( $F_y$ = min. 50 ksi) ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or ASTM A792 AZ55 steel; Shall conform with FBC Section 1507.4.3
		3/4" 9" 36"



#### **LIMITATIONS**

- 1. This report is not for use in the HVHZ.
- 2. Fire classification is not within the scope of this evaluation.
- The roof deck, wood battens and their attachment shall be designed by others to meet the minimum design loads established for components and cladding and in accordance with FBC requirements.
- 4. Roof slope shall be in accordance with FBC Section 1507.4.2
- 5. Reroofing shall be in accordance with Section 1511.
- 6. 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.
- 7. 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) 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 12/23/2023.

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 (11 pages)
- 3) APPENDIX C Design Wind Loads (4 pages)

TCM20001.10a FL36904-R10 Page 9 of 9





## 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	#10-12 Pancake Type A screw  #10-9 PanclipSS MTW low profile head wood screw  #10-9 Panclip MTW low profile head wood screw  #10-9 Panclip MTW low profile head wood screw  #9-15 Woodgrip HWH wood screw with sealing washer  #9-15 Evergrip HWH wood screw with sealing washer  #12-8 Woodgrip XG HWH wood screw with sealing washer	Shall penetrate through the sheathing a minimum 3/8 in. Shall be corrosion resistant in accordance with FBC section 1507.4.4.			
	#14-13 PANCLIP SD-L low profile head self- drilling screw	Shall penetrate through the top rib of the steel deck a minimum 3/4 in. Shall be corrosion resistant in accordance with FBC section 1507.4.4.			
Bearing Plate	Universal Bearing Plate	4" x 5", 20ga. galvanized steel bearing plate from Direct Metals, Inc.			
	1.5 in. DM SL Clip	24 ga. Direct Metals Inc Snaplock HD 450HD Clip, 1-1/4" – 1-1/2" Utility Snaplock Clip, 1.3 in. tall with 3 in, base			
Clips	1.5 in. SL Continuous Clip	24 ga. ASTM A792 AZ55 or 0.032" ASTM B209, 3105 H24 AI; 1.24 in. tall with 1.1 in, base, Min. 10 ft. length  0.38" 9.65 mm  1.24" 31.50 mm  1.10" 27.94 mm			



Component	Product	Installation Detail
	1.75 in. SFS SL Clip	18 ga. SFS 1-3/4 in. Snap Lock Clip; 1.875 in. tall with 3.75 in. base  (88.9) (9.32) (47.63) 1.875 (4.45) (95.25) 3.75
Clips – Cont'd	1.75 in. DM SL Clip	18 ga. Direct Metals Inc 1-3/4 in. Snap Lock Clip; 1-7/8 in. tall with 3-1/2 in. base
	1.5 in. ML Clip	1-1/2 in. 1-piece expansion clip; 22 ga.vertical tab; 16 ga. base; 4.5 in. long  Vertical Tab  Base



Component	Product	Installation Detail
Clips – Cont'd	2 in. ML Clip	2 in. 1-piece expansion clip; 22 ga.vertical tab; 16 ga. base; 4.5 in. long  Vertical Tab  Base
	TiteBond Weathermaster Metal Roof Sealant	
Seam Sealant	Geocel 2300	Shall be applied in 1/4 in 5/16 in. continuous beads on the male rib along the seam
	Novaflex Metal Roof Sealant	



Nomenclature	Fastening Details Attachment
TCM-LOK	3/8" bead TiteBond WeatherMaster Metal Roof Sealant  (1) #10-12 TYPE A PANCAKE
5V Type 1	(1) HWH wood screw w/sealing washer  12"  At Panel Lap
5V Type 2	12" 12" 12" (1) #9 x 1 1/2" WOODGRIP w/ WASHER
5V Type 3	(1) #9 x 1 1/2" WOODGRIP w/ WASHER
PBR Type 1	7" 7" 7" 5" 7" 5" 0 24" O.C.  WDDDGRIP W/ WASHER



Fastening Details Nomenclature Attachment				
PBR Type 2	12" 12" 12" #14 x 7/8 LAP SCREW © 24" O.C.			
Ultra Rib 1	6.5" 2.5" 6.5" 2.5" 6.5" 2.5" 6.5" 2.5" 4.5" 4.5" 4.5" 4.5" 4.5" 4.5" 4.5" 4			
Ultra Rib 2	WOODGRIP w/ SEALING WASHER			
Ultra Rib 3	6" 3" 6" 3" 6" 3" 6" 3" 6" 3" 6" 3" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6"			
Ultra Rib 4	WOODGRIP w/ SEALING WASHER   9" → 9" → 9" → 9" → 9" → 9" → 9" → 9"			

TCM20001.10a FL36904-R10 Page 5 of 5





#### APPROVED ROOF SYSTEMS

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

- 1. Maximum Design Pressure (MDP) was calculated using a 2:1 margin of safety per FBC Section 1504.9.
- 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. Unless otherwise specified, Steel Deck shall be designed by others in accordance with FBC requirements and shall be minimum 22 ga, Wide Rib Deck (Type WR) conforming to ANSI/SDI-RD1.0 & FBC and shall be attached to structural supports spaced maximum 5ft o.c. Panel seams shall be installed perpendicular to the steel deck ribs.
- 6. Wood Deck shall be designed by others in accordance with FBC requirements and shall be minimum APA Span-Rated sheathing at maximum 24 in. span.
- 7. No. 2 SYP wood battens used over solidly sheathed decks shall be installed parallel to the eave and 90 degrees to the roof trusses/rafters. Wood battens shall be located under each fastener row.
- 8. Panel fasteners shall be installed through the battens and into the roof deck. Battens shall be secured in place with one (1) min. 0.113 in. x 2-3/8 in. ring shank nail installed max. 12 in. o.c. into the plywood deck.
- 9. No. 2 SYP wood battens shall be secured in place with one (1) min. 8d x 2-3/8 in. ring shank nail installed max. 4 in. o.c. into the plywood deck or two (2) min. #9 x 3 in. deck screws spaced max. 24 in. o.c. installed through the plywood deck and into the rafters/trusses.
- 10. No. 2 SYP wood battens shall be secured in place with one (1) min. 8d x 2-1/2 in. ring shank nail installed max. 4 in. o.c. into the plywood deck.
- 11. No. 2 SYP wood battens shall be secured in place with two (2) min. #9 x 3 in. deck screws spaced max. 24 in. o.c. installed through the plywood deck and into the rafters/trusses.

	Roof System Numbers and Definitions			
<u>L1-Al-W-#</u>	Min. 0.032 AI TCM-LOK 1 in. over Wood Deck (New or Existing)			
<u>L1-S-W-#</u>	Min. 26ga. steel TCM-LOK 1 in. over Wood Deck (New or Existing)			
L1.5-S-W-#	Min. 24ga. steel TCM-LOK 1.5 in. over Wood Deck (New or Existing)			
SL-AI-W-#	Min. 0.032 Al 1.5 SL-LOK over Wood Deck (New or Existing)			
<u>SL-S-W-#</u>	Min. 24ga. steel 1.5 SL-LOK over Wood Deck (New or Existing)			
SS-AI-W-#	Min. 0.040 Al 1.75 SS-LOK over Wood Deck (New or Existing)			
SS-S-W-#	Min. 24ga. steel 1.75 SS-LOK over Wood Deck (New or Existing)			
<u>SS-S-S-#</u>	Min. 24ga. steel 1.75 SS-LOK over Steel Deck (New or Existing)			
1.5MS-W-#	Min. 24ga. steel 1.5 MS-LOK over Wood Deck (New or Existing)			
<u>2MS-W-#</u>	Min. 24ga. steel 2 MS-LOK over Wood Deck (New or Existing)			
<u>2MS-S-#</u>	Min. 24ga. steel 2 MS-LOK over Steel Deck (New or Existing)			
5V-AI-W-#	Min. 0.032 Al 5V over Wood Deck (New or Existing)			
5V-S-W-#	Min. 26ga. steel 5V over Wood Deck (New or Existing)			
PBR-W-#	Min. 26ga. steel PBR over Wood Deck (New or Existing)			
RIB-W-#	Min. 29ga steel Ultra Rib over Wood Deck (New or Existing)			

TCM20001.10a FL36904-R10 Page 1 of 11



	Approved Systems for Min. 0.032 Al 1 in. TCM-LOK over Wood Deck (New or Existing)					
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
L1-Al-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.032 AI TCM-LOK 1 in. Max. 16 in. coverage	TCM-LOK attachment with #10-12 Pancake Type A screws spaced 5-1/4 in. o.c.; Seam Sealant (see INSTALLATION for list of allowable products) applied to male rib.	-110

		Approved System	ms for Min. 26ga. ste	el TCM-LOK 1 in. over Wo	ood Deck (New or Existing)	
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
L1-S-W-1	Min. 15/32 B-C plywood with OPTIONAL single layer of asphalt shingles	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel TCM-LOK 1 in. Max. 16 in. coverage	#10-12 Pancake Type A screws installed 5-1/4 in. o.c. along the fastening strip into the pre-punched slots	-52.5
L1-S-W-2	Min. 15/32 B-C plywood with OPTIONAL single layer of asphalt shingles	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel TCM-LOK 1 in. Max. 16 in. coverage	#10-12 Pancake Type A screws installed 5-1/4 in. o.c. along the fastening strip into the pre-punched slots	-116
L1-S-W-3	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel TCM-LOK 1 in. Max. 16 in. coverage	#10-12 Pancake Type A screws installed 5-1/4 in. o.c. along the fastening strip into the pre-punched slots	-123.5
L1-S-W-4	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel TCM-LOK 1 in. Max. 16 in. coverage	TCM-LOK attachment with #10-12 Pancake Type A screws spaced 5-1/4 in. o.c.; Seam Sealant (see INSTALLATION for list of allowable products) applied to male rib.	-142.5

TCM20001.10a FL36904-R10 Page 2 of 11



		Approved System	ns for Min. 24ga. stee	el TCM-LOK 1.5 in. over Wo	ood Deck (New or Existing)	
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
L1.5-S-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel TCM-LOK 1.5 in. Max. 15 in. coverage	TCM-LOK attachment with #10-12 Pancake Type A screws spaced 5-1/4 in. o.c.; Seam Sealant (see INSTALLATION for list of allowable products) applied to male rib.	-122.5

		Approve	ed Systems Min. 0.032	2 Al 1.5 SL-LOK over Wood	Deck (New or Existing)	
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
SL-Al-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.032 Al 1.5 SL-LOK Max. 15.5 in. coverage	0.032 Al 1.5 in. SL Continuous Clips installed over male leg and fastened 6 in. o.c. with one (1) #10-9 PanclipSS MTW low profile head wood screw; Female portion of snap-lock is then engaged over the continuous clip	-101
SL-AI-W-2	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.032 AI 1.5 SL-LOK Max. 15.5 in. coverage	0.032 Al 1.5 in. SL Continuous Clips installed over male leg and fastened 6 in. o.c. with one (1) #10-9 PanclipSS MTW low profile head wood screw; 3/8 in. wide, continuous bead of NovaFlex Metal Roof Sealant is applied to backside of continuous clip; Female portion of snap-lock is then engaged over the continuous clip	-108.5

		Approved \$	Systems for Min. 24ga	a. steel 1.5 SL-LOK over Woo	od Deck (New or Existing)	
System No.	Deck Fire Barrier Underlayment Roof Panel Panel Attachm		Panel Attachment	MDP (psf)		
SL-S-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 1.5 SL-LOK Max. 15.5 in. coverage	1.5 in. SL Clips spaced 12 in. o.c. at the panel seam secured with two (2) #10-12 Pancake Type A screws per clip	-75
SL-S-W-2	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 1.5 SL-LOK Max. 15.5 in. coverage	1.5 in. SL Clips spaced 6 in. o.c. at the panel seam secured with two (2) #10-12 Pancake Type A screws per clip	-90
SL-S-W-3	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 1.5 SL-LOK Max. 15.5 in. coverage	24 ga. 1.5 in. SL Continuous Clips installed over male leg and fastened 6 in. o.c. with one (1) #10-12 Pancake Type A screws; Female portion of snap-lock is then engaged over the continuous clip	-146

TCM20001.10a FL36904-R10 Page 3 of 11

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.



	Approved Systems for Min. 0.040 Al 1.75 SS-LOK over Wood Deck (New or Existing)										
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)					
SS-Al-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.040 Al 1.75 SS-LOK Max. 16 in. coverage	1.75 in. SFS SL Clips spaced 16 in. o.c. at the panel seam secured with two (2) #10-9 PanclipSS MTW low profile head screws per clip	-90					
SS-AI-W-2	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.040 Al 1.75 SS-LOK Max. 16 in. coverage	1.75 in. SFS SL Clips spaced 6 in. o.c. at the panel seam secured with two (2) #10-9 PanclipSS MTW low profile head screws per clip	-120					

	Approved Systems for Min. 24ga. steel 1.75 SS-LOK over Wood Deck (New or Existing)									
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)				
SS-S-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 1.75 SS-LOK Max. 18 in. coverage	1.75 in. DM SL Clips spaced 18 in. o.c. at the panel seam secured with two (2) #10-12 Pancake Type A screws per clip	-105				

	Approved Systems for Min. 24ga. steel 1.75 SS-LOK over Steel Deck (New or Existing)										
System No.	Deck	Fire Barrier	Insulation	Underlayment	Roof Panel	Panel Attachment	MDP (psf)				
SS-S-S-1	Min. 22ga. steel deck	OPTIONAL Approved fire barrier	Min. 1-inch Approved insulation board	As required per FBC	Min. 24ga. steel 1.75 SS-LOK Max. 18 in. coverage	1.75 in. DM SL Clips and Universal Bearing Plates spaced 24 in. o.c. at the panel seam secured with two (2) #14 PANCLIP SD-L fasteners per clip	-78.5				

TCM20001.10a FL36904-R10 Page 4 of 11



	Approved Systems for Min. 24ga. steel 1.5 MS-LOK over Wood Deck (New or Existing)										
System No.	Deck	Fire Barrier	Underlayment	rlayment Roof Panel Panel Attachment		MDP (psf)					
1.5MS-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 1.5 MS-LOK Max. 16 in. coverage	1.5 MS-LOK   Secured with two (2) #10-9 x min. 1.5 in. Pancip WTV						
1.5MS-W-2	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 1.5 MS-LOK Max. 16 in. coverage	1.5 in. ML Clips spaced 6 in. o.c. at the panel seam secured with two (2) #10-9 x min. 1.5 in. Panclip MTW low profile screws per clip; Panels mechanically seamed with 180° double lock	-176					

		Approved	Systems for Min. 24g	a. steel 2 MS-LOK over Woo	d Deck (New or Existing)	
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
2MS-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 2 MS-LOK Max. 18.75 in. coverage	2 in. ML Clips spaced 16 in. o.c. at the panel seam secured with two (2) #10-9 x min. 1.5 in. Panclip MTW low profile screws per clip; Panels mechanically seamed with 180° double lock	-116.25
2MS-W-2	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 2 MS-LOK Max. 18.75 in. coverage	2 in. ML Clips spaced 8 in. o.c. at the panel seam secured with two (2) #10-9 x min. 1.5 in. Panclip MTW low profile screws per clip; Panels mechanically seamed with 180° double lock	-120
2MS-W-3	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 2 MS-LOK Max. 18 in. coverage	2 in. ML Clips spaced 6 in. o.c. at the panel seam secured with two (2) #10-9 x min. 1.5 in. Panclip MTW low profile screws per clip; Panels mechanically seamed with 180° double lock	-153.5

TCM20001.10a FL36904-R10 Page 5 of 11



		Approved	Systems for Min. 2	4ga. steel 2 MS-LOK	over Steel Deck (New	or Existing)	
System No.	Deck	Fire Barrier	Insulation	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
2MS-S-1	Min. 22ga. steel deck	OPTIONAL Approved fire barrier	Min. 1-inch Approved insulation board	As required per FBC	Min. 24ga. steel 2 MS-LOK Max. 18 in. coverage	2 in. ML Clips and Universal Bearing Plates spaced 24 in. o.c. at the panel seam secured with two (2) #14 PANCLIP SD-L fasteners per clip; Panels mechanically seamed with 180° double lock	-112.25
2MS-S-2	Min. 22ga. steel deck	OPTIONAL Approved fire barrier	Min. 1-inch Approved insulation board	As required per FBC	Min. 24ga. steel 2 MS-LOK Max. 18 in. coverage	2 in. ML Clips and Universal Bearing Plates spaced 6 in. o.c. at the panel seam secured with two (2) #14 PANCLIP SD-L fasteners per clip; Panels mechanically seamed with 180° double lock	-168.5

		Approve	d Systems for Min.	0.032 AI 5V Crimp o	ver Wood Deck (New o	or Existing)	
System No.	Deck	Battens (Note 7)	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
5V-Al-W-1	Min. 15/32 CDX plywood	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.032 Al 5V Crimp Max. 24 in. coverage	5V Type 1 attachment with #9-15 Evergrip screws with sealing washers spaced 9 in. o.c.	-127.5
5V-Al-W-2	Min. 15/32 CDX plywood	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.032 Al 5V Crimp Max. 24 in. coverage	5V Type 1 attachment with #9-15 Evergrip screws with sealing washers spaced 6 in. o.c.	-150

TCM20001.10a FL36904-R10 Page 6 of 11



		Approved	Systems for Min. 2	6ga. steel 5V Crimp	over Wood Deck (New	or Existing)	
System No.	Deck	Battens ( <u>Note 7</u> )	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
5V-S-W-1	Min. 15/32 CDX plywood	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 50 5V Crimp Max. 24 in. coverage	5V Type 1 attachment with #9-15 Woodgrip screws with sealing washers spaced 16 in. o.c.	-67.5
5V-S-W-2	Min. 15/32 B-C plywood with OPTIONAL single layer of asphalt shingles	No. 2 SYP min. 1x4 wood battens secured per Note 9	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 5V Crimp Max. 24 in. coverage	5V Type 2 attachment into wood battens with #9-15 x min. 1.5-inch Woodgrip screws with sealing washers spaced 16 in. o.c.	-78.5
5V-S-W-3	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens secured per Note 8	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 5V Crimp Max. 24 in. coverage	5V Type 1 attachment with #12-8 Woodgrip XG screws with sealing washers spaced 16 in. o.c.	-86.25
5V-S-W-4	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens secured per Note 8	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 5V Crimp Max. 24 in. coverage	5V Type 1 attachment with #9-15 Woodgrip or #12-8 Woodgrip XG screws with sealing washers spaced 12 in. o.c.	-90
5V-S-W-5	Min. 15/32 B-C plywood with OPTIONAL single layer of asphalt shingles	No. 2 SYP min. 1x4 wood battens secured per Note 9	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 5V Crimp Max. 24 in. coverage	5V Type 3 attachment into wood battens with #9-15 x min. 1.5-inch Woodgrip screws with sealing washers spaced 16 in. o.c.	-101
5V-S-W-6	Min. 15/32 CDX plywood	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 50 5V Crimp Max. 24 in. coverage	5V Type 1 attachment with #12-8 Woodgrip XG screws with sealing washers spaced 12 in. o.c.	-101.25
5V-S-W-7	Min. 15/32 CDX plywood	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 50 5V Crimp Max. 24 in. coverage	5V Type 1 attachment with #9-15 Woodgrip or #12-8 Woodgrip XG screws with sealing washers spaced 6 in. o.c.	-120

TCM20001.10a FL36904-R10 Page 7 of 11

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		Approved	Systems for Min. 2	6ga. steel 5V Crimp	over Wood Deck (New	or Existing)	
System No.	Deck	Battens (Note 7)	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
5V-S-W-8	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens secured per Note 8	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 5V Crimp Max. 24 in. coverage	5V Type 1 attachment with #12-8 Woodgrip XG screws with sealing washers spaced 9 in. o.c.	-120
5V-S-W-9	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens secured per Note 8	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 5V Crimp Max. 24 in. coverage	5V Type 1 attachment with #9-15 Woodgrip or #12-8 Woodgrip XG screws with sealing washers spaced 6 in. o.c.	-135

		Approv	ed Systems for I	Min. 26ga. steel P	BR over Wood Deck (Ne	w or Existing)	
System No.	Deck	Battens (Note 7)	I FIRE BARRER I		Roof Panel	Panel Attachment	MDP (psf)
PBR-W-1	Min. 15/32 B-C plywood	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga.steel, Grade 80 PBR Max. 36 in. coverage	PBR Type 2 attachment with #9-15 Woodgrip screws with sealing washers spaced 24 in. o.c.	-63.5
PBR-W-2	Min. 15/32 B-C plywood with OPTIONAL single layer of asphalt shingles	No. 2 SYP min. 1x4 wood battens secured per Note 9	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga.steel, Grade 80 PBR Max. 36 in. coverage	PBR Type 2 attachment intro wood battens with #9-15 x min. 1.5-inch Woodgrip screws with sealing washers spaced 24 in. o.c.	-71
PBR-W-3	Min. 15/32 B-C plywood with OPTIONAL single layer of asphalt shingles	No. 2 SYP min. 1x4 wood battens secured per Note 9	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga.steel, Grade 80 PBR Max. 36 in. coverage	PBR Type 1 attachment into wood battens with #9-15 x min. 1.5-inch Woodgrip screws with sealing washers spaced 24 in. o.c.	-78.5

TCM20001.10a FL36904-R10 Page 8 of 11



		Approv	ed Systems for	Min. 26ga. steel P	BR over Wood Deck (Ne	ew or Existing)	
System No.	Deck	Battens (Note 7)	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
PBR-W-1	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens secured per Note 8	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga.steel, Grade 80 PBR Max. 36 in. coverage	PBR Type 1 attachment with #12-8 Woodgrip XG screws with sealing washers spaced 24 in. o.c.	-86
PBR-W-2	Min. 15/32 B-C plywood	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga.steel, Grade 80 PBR Max. 36 in. coverage	PBR Type 1 attachment with #9-15 Woodgrip screws with sealing washers spaced 24 in. o.c.	-93.5
PBR-W-3	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens secured per Note 8	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga.steel, Grade 80 PBR Max. 36 in. coverage	PBR Type 1 attachment with #12-8 Woodgrip XG screws with sealing washers spaced 12 in. o.c.	-153.5

		Approved	l Systems for Mi	n. 29ga steel Ultra	Rib over Wood Deck (Ne	w or Existing)	
System No.	Deck	Battens (Note 7)	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
RIB-W-1	Min. 7/16 OSB with OPTIONAL single layer of asphalt shingles	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 2 attachment with #12-8 Woodgrip XG screws with sealing washers spaced 24 in. o.c	-41.7
RIB-W-2	Min. 15/32 B-C plywood with OPTIONAL single layer of asphalt shingles	No. 2 SYP min. 1x4 wood battens secured per Note 10	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 4 attachment into wood battens with #9-15 x min. 2-inch Woodgrip screws with sealing washers spaced 24 in. o.c	-52.5

TCM20001.10a FL36904-R10 Page 9 of 11



		Approved	Systems for Mi	in. 29ga steel Ultra	Rib over Wood Deck (Ne	w or Existing)	
System No.	Deck	Battens (Note 7)	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
RIB-W-3	Min. 15/32 B-C plywood with OPTIONAL single layer of asphalt shingles	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 2 attachment with #9-15 Woodgrip screws with sealing washers spaced 24 in. o.c	-63.5
RIB-W-4	Min. 15/32 CDX plywood with OPTIONAL single layer of asphalt shingles	No. 2 SYP min. 1x4 wood battens secured per Note 8	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 2 attachment with #9-15 Woodgrip screws with sealing washers spaced 24 in. o.c	-67.5
RIB-W-5	Min. 15/32 3-ply plywood with OPTIONAL single layer of asphalt shingles	No. 2 SYP min. 1x4 wood battens secured per Note 10	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 2 attachment into wood battens with #9-15 x min. 1.5-inch Woodgrip screws with sealing washers spaced 24 in. o.c	-78.5
RIB-W-6	Min. 15/32 3-ply plywood with OPTIONAL single layer of asphalt shingles	No. 2 SYP min. 1x4 wood battens secured per note 10	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 3 attachment into wood battens with #9-15 x min. 1.5-inch Woodgrip screws with sealing washers spaced 24 in. o.c	-86
RIB-W-7	Min. 15/32 CDX plywood	No. 2 SYP min. 1x4 wood battens secured per Note 11	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 2 attachment into wood battens with #9-15 x min. 1.5-inch Woodgrip screws with sealing washers spaced 24 in. o.c	-93.5
RIB-W-8	Min. 15/32 B-C plywood with OPTIONAL single layer of asphalt shingles	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 3 attachment with #9-15 Woodgrip screws with sealing washers spaced 24 in. o.c	-101

TCM20001.10a FL36904-R10 Page 10 of 11

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		Approved	Systems for Mi	n. 29ga steel Ultra	Rib over Wood Deck (Ne	w or Existing)	
System No.	Deck	Battens (Note 7)	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
RIB-W-9	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens secured per Note 8	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 1 attachment with #12-8 Woodgrip XG screws with sealing washers spaced 24 in. o.c	-116.25
RIB-W-10	Min. 7/16 OSB with OPTIONAL single layer of asphalt shingles	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 3 attachment with #12-8 Woodgrip XG screws with sealing washers spaced 12 in. o.c	-123.5
RIB-W-11	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens secured per Note 8	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 1 attachment with #9-15 Woodgrip screws with sealing washers spaced 12 in. o.c	-135
RIB-W-12	Min. 15/32 B-C plywood with OPTIONAL single layer of asphalt shingles	No. 2 SYP min. 1x4 wood battens secured per Note 10	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 4 attachment into wood battens with #9-15 x min. 2-inch Woodgrip screws with sealing washers spaced 6 in. o.c	-131
RIB-W-13	Min. 15/32 CDX plywood	No. 2 SYP min. 1x4 wood battens secured per Note 11	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 3 attachment into wood battens with #9-15 x min. 1.5-inch Woodgrip screws with sealing washers spaced 24 in. o.c	-138.5

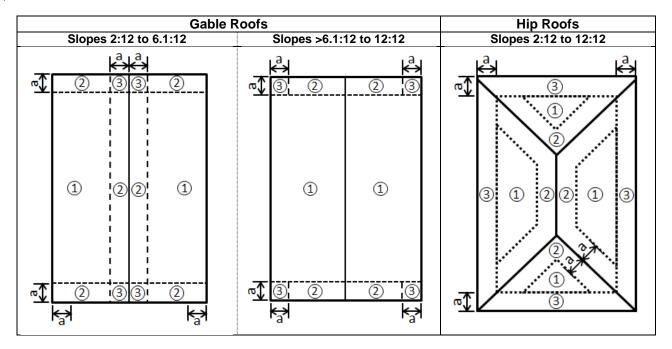
TCM20001.10a FL36904-R10 Page 11 of 11



#### **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 B, C and D shall be as defined in section 1609 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-ft<sup>2</sup> 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.  $V_{ult}$  is shown in the tables below. Design wind loads are calculated using  $V_{asd} = V_{ult} \sqrt{0.6}$  per 1609.3.1.
- 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.



TCM20001.10a FL36904-R10 Page 1 of 4



## **APPENDIX C**

			Gable/l	Hip Roofs in <b>Ex</b>	posure B (Roc	of slope between	en 2:12 and 12	2:12)			
		Mean		_	,		ic Wind Speed (				
Building Type	Zone	Roof Height (ft)	120	130	140	150	160	170	180	190	200
		20	-25.4	-29.8	-34.6	-39.7	-45.2	-51.0	-57.2	-63.7	-70.6
		25	-26.9	-31.6	-36.6	-42.0	-47.8	-54.0	-60.5	-67.5	-74.7
	4	30	-28.3	-33.2	-38.5	-44.1	-50.2	-56.7	-63.6	-70.8	-78.5
	1	40	-30.5	-35.8	-41.5	-47.7	-54.2	-61.2	-68.6	-76.5	-84.7
		50	-32.4	-38.0	-44.1	-50.6	-57.6	-65.0	-72.8	-81.2	-89.9
		60	-34.0	-39.9	-46.3	-53.1	-60.4	-68.2	-76.5	-85.2	-94.4
		20	-33.6	-39.4	-45.7	-52.5	-59.7	-67.4	-75.5	-84.2	-93.3
		25	-35.5	-41.7	-48.4	-55.5	-63.2	-71.3	-80.0	-89.1	-98.7
Enclosed/	0	30	-37.3	-43.8	-50.8	-58.3	-66.3	-74.9	-84.0	-93.6	-103.7
Partially Open	2	40	-40.3	-47.3	-54.9	-63.0	-71.6	-80.9	-90.7	-101.0	-111.9
		50	-42.8	-50.2	-58.2	-66.8	-76.0	-85.8	-96.2	-107.2	-118.8
		60	-44.9	-52.7	-61.1	-70.2	-79.8	-90.1	-101.0	-112.6	-124.7
		20	-44.1	-51.7	-60.0	-68.8	-78.3	-88.4	-99.1	-110.5	-122.4
		25	-46.7	-54.8	-63.5	-72.9	-82.9	-93.6	-105.0	-117.0	-129.6
	0	30	-49.0	-57.5	-66.7	-76.5	-87.1	-98.3	-110.2	-122.8	-136.1
	3	40	-52.9	-62.1	-72.0	-82.6	-94.0	-106.1	-119.0	-132.6	-146.9
		50	-56.1	-65.9	-76.4	-87.7	-99.8	-112.6	-126.3	-140.7	-155.9
		60	-58.9	-69.2	-80.2	-92.1	-104.8	-118.3	-132.6	-147.7	-163.7
	1	20	-29.7	-34.9	-40.5	-46.5	-52.8	-59.7	-66.9	-74.5	-82.6
		25	-31.5	-36.9	-42.8	-49.2	-56.0	-63.2	-70.8	-78.9	-87.4
		30	-33.0	-38.8	-45.0	-51.6	-58.7	-66.3	-74.4	-82.8	-91.8
		40	-35.7	-41.9	-48.6	-55.8	-63.4	-71.6	-80.3	-89.4	-99.1
		50	-37.9	-44.4	-51.5	-59.2	-67.3	-76.0	-85.2	-94.9	-105.2
		60	-39.8	-46.7	-54.1	-62.1	-70.7	-79.8	-89.4	-99.7	-110.4
		20	-37.9	-44.5	-51.6	-59.2	-67.4	-76.0	-85.2	-95.0	-105.2
		25	-40.1	-47.1	-54.6	-62.7	-71.3	-80.5	-90.3	-100.6	-111.4
Partially	0	30	-42.1	-49.4	-57.3	-65.8	-74.9	-84.5	-94.8	-105.6	-117.0
Enclosed	2	40	-45.5	-53.4	-61.9	-71.1	-80.8	-91.3	-102.3	-114.0	-126.3
		50	-48.3	-56.6	-65.7	-75.4	-85.8	-96.9	-108.6	-121.0	-134.1
		60	-50.7	-59.5	-69.0	-79.2	-90.1	-101.7	-114.0	-127.0	-140.7
		20	-48.4	-56.8	-65.8	-75.6	-86.0	-97.1	-108.8	-121.3	-134.4
		25	-51.2	-60.1	-69.7	-80.0	-91.1	-102.8	-115.3	-128.4	-142.3
	2	30	-53.8	-63.1	-73.2	-84.0	-95.6	-107.9	-121.0	-134.8	-149.4
	3	40	-58.1	-68.1	-79.0	-90.7	-103.2	-116.5	-130.6	-145.6	-161.3
		50	-61.6	-72.3	-83.9	-96.3	-109.6	-123.7	-138.7	-154.5	-171.2
		60	-64.7	-75.9	-88.1	-101.1	-115.0	-129.8	-145.6	-162.2	-179.7

TCM20001.10a FL36904-R10 Page 2 of 4



## **APPENDIX C**

			Gable/l	Hip Roofs in <b>Ex</b>	posure C (Roc	of slope between	n 2:12 and 12	2:12)			
		Mean			•		c Wind Speed (				
Building Type	Zone	Roof Height (ft)	120	130	140	150	160	170	180	190	200
		20	-36.9	-43.3	-50.2	-57.6	-65.6	-74.0	-83.0	-92.5	-102.5
		25	-38.7	-45.4	-52.7	-60.5	-68.8	-77.7	-87.1	-97.1	-107.6
	1	30	-40.2	-47.2	-54.7	-62.8	-71.4	-80.7	-90.4	-100.8	-111.6
	1	40	-42.6	-50.0	-58.0	-66.6	-75.8	-85.5	-95.9	-106.8	-118.4
		50	-44.6	-52.3	-60.7	-69.7	-79.3	-89.5	-100.4	-111.8	-123.9
		60	-46.3	-54.3	-63.0	-72.3	-82.3	-92.9	-104.2	-116.1	-128.6
		20	-48.7	-57.2	-66.3	-76.1	-86.6	-97.8	-109.6	-122.2	-135.4
		25	-51.2	-60.0	-69.6	-79.9	-90.9	-102.7	-115.1	-128.2	-142.1
Enclosed/	0	30	-53.1	-62.3	-72.3	-83.0	-94.4	-106.6	-119.5	-133.1	-147.5
Partially Open	2	40	-56.3	-66.1	-76.6	-88.0	-100.1	-113.0	-126.7	-141.1	-156.4
		50	-58.9	-69.2	-80.2	-92.1	-104.8	-118.3	-132.6	-147.7	-163.7
		60	-61.2	-71.8	-83.2	-95.6	-108.7	-122.7	-137.6	-153.3	-169.9
		20	-64.0	-75.1	-87.1	-99.9	-113.7	-128.4	-143.9	-160.3	-177.7
		25	-67.1	-78.8	-91.4	-104.9	-119.4	-134.7	-151.1	-168.3	-186.5
	0	30	-69.7	-81.8	-94.8	-108.9	-123.9	-139.8	-156.8	-174.7	-193.6
	3	40	-73.9	-86.7	-100.6	-115.5	-131.4	-148.3	-166.3	-185.2	-205.3
		50	-77.3	-90.8	-105.3	-120.8	-137.5	-155.2	-174.0	-193.9	-214.8
		60	-80.3	-94.2	-109.3	-125.4	-142.7	-161.1	-180.6	-201.2	-223.0
	1	20	-43.2	-50.6	-58.7	-67.4	-76.7	-86.6	-97.1	-108.2	-119.9
		25	-45.3	-53.2	-61.6	-70.8	-80.5	-90.9	-101.9	-113.5	-125.8
		30	-47.0	-55.2	-64.0	-73.5	-83.6	-94.3	-105.8	-117.8	-130.6
		40	-49.9	-58.5	-67.9	-77.9	-88.6	-100.0	-112.2	-125.0	-138.5
		50	-52.2	-61.2	-71.0	-81.5	-92.8	-104.7	-117.4	-130.8	-144.9
		60	-54.2	-63.6	-73.7	-84.6	-96.3	-108.7	-121.8	-135.8	-150.4
		20	-55.0	-64.5	-74.9	-85.9	-97.8	-110.4	-123.7	-137.9	-152.8
		25	-57.7	-67.7	-78.6	-90.2	-102.6	-115.8	-129.9	-144.7	-160.3
Partially	2	30	-59.9	-70.3	-81.6	-93.6	-106.5	-120.2	-134.8	-150.2	-166.4
Enclosed	2	40	-63.5	-74.6	-86.5	-99.3	-112.9	-127.5	-143.0	-159.3	-176.5
		50	-66.5	-78.0	-90.5	-103.9	-118.2	-133.5	-149.6	-166.7	-184.7
		60	-69.0	-81.0	-93.9	-107.8	-122.7	-138.5	-155.3	-173.0	-191.7
		20	-70.2	-82.4	-95.6	-109.7	-124.8	-140.9	-158.0	-176.0	-195.1
		25	-73.7	-86.5	-100.3	-115.2	-131.0	-147.9	-165.8	-184.8	-204.7
	2	30	-76.5	-89.8	-104.1	-119.5	-136.0	-153.5	-172.1	-191.8	-212.5
	3	40	-81.1	-95.2	-110.4	-126.8	-144.2	-162.8	-182.5	-203.4	-225.4
		50	-84.9	-99.7	-115.6	-132.7	-150.9	-170.4	-191.0	-212.9	-235.9
		60	-88.1	-103.4	-120.0	-137.7	-156.7	-176.9	-198.3	-220.9	-244.8

TCM20001.10a FL36904-R10 Page 3 of 4



### **APPENDIX C**

			Gable/l	Hip Roofs in <b>Ex</b>	posure D (Roc	of slope between	en 2:12 and 12	2:12)			
		Mean			•		ic Wind Speed (				
Building Type	Zone	Roof Height (ft)	120	130	140	150	160	170	180	190	200
		20	-44.7	-52.4	-60.8	-69.8	-79.4	-89.7	-100.5	-112.0	-124.1
		25	-46.4	-54.4	-63.1	-72.4	-82.4	-93.1	-104.3	-116.2	-128.8
	1	30	-47.9	-56.2	-65.1	-74.8	-85.1	-96.1	-107.7	-120.0	-132.9
	ı	40	-50.3	-59.1	-68.5	-78.6	-89.4	-101.0	-113.2	-126.1	-139.8
		50	-52.3	-61.4	-71.2	-81.7	-93.0	-105.0	-117.7	-131.1	-145.3
		60	-54.0	-63.4	-73.5	-84.4	-96.0	-108.4	-121.5	-135.3	-150.0
		20	-59.0	-69.3	-80.3	-92.2	-104.9	-118.5	-132.8	-148.0	-163.9
		25	-61.3	-71.9	-83.4	-95.7	-108.9	-122.9	-137.8	-153.6	-170.1
Enclosed/	2	30	-63.2	-74.2	-86.1	-98.8	-112.4	-126.9	-142.3	-158.5	-175.6
Partially Open	2	40	-66.5	-78.0	-90.5	-103.9	-118.2	-133.4	-149.6	-166.6	-184.6
		50	-69.1	-81.1	-94.1	-108.0	-122.8	-138.7	-155.5	-173.2	-191.9
		60	-71.3	-83.7	-97.1	-111.4	-126.8	-143.1	-160.5	-178.8	-198.1
	3	20	-77.5	-90.9	-105.4	-121.0	-137.7	-155.5	-174.3	-194.2	-215.2
		25	-80.4	-94.4	-109.4	-125.6	-142.9	-161.3	-180.9	-201.5	-223.3
		30	-83.0	-97.4	-112.9	-129.7	-147.5	-166.5	-186.7	-208.0	-230.5
	3	40	-87.2	-102.4	-118.7	-136.3	-155.1	-175.1	-196.3	-218.7	-242.3
		50	-90.7	-106.4	-123.4	-141.7	-161.2	-182.0	-204.1	-227.4	-251.9
		60	-93.6	-109.9	-127.4	-146.3	-166.4	-187.9	-210.6	-234.7	-260.0
	1	20	-52.3	-61.3	-71.1	-81.7	-92.9	-104.9	-117.6	-131.0	-145.2
		25	-54.2	-63.7	-73.8	-84.7	-96.4	-108.8	-122.0	-136.0	-150.6
		30	-56.0	-65.7	-76.2	-87.5	-99.5	-112.3	-126.0	-140.3	-155.5
		40	-58.9	-69.1	-80.1	-92.0	-104.6	-118.1	-132.4	-147.5	-163.5
		50	-61.2	-71.8	-83.3	-95.6	-108.8	-122.8	-137.7	-153.4	-169.9
		60	-63.2	-74.1	-86.0	-98.7	-112.3	-126.7	-142.1	-158.3	-175.4
		20	-66.6	-78.2	-90.7	-104.1	-118.4	-133.7	-149.9	-167.0	-185.0
		25	-69.1	-81.1	-94.1	-108.0	-122.9	-138.7	-155.5	-173.3	-192.0
Partially	2	30	-71.4	-83.7	-97.1	-111.5	-126.8	-143.2	-160.5	-178.9	-198.2
Enclosed	2	40	-75.0	-88.0	-102.1	-117.2	-133.3	-150.5	-168.8	-188.0	-208.4
		50	-78.0	-91.5	-106.1	-121.8	-138.6	-156.5	-175.4	-195.5	-216.6
		60	-80.5	-94.5	-109.6	-125.8	-143.1	-161.5	-181.1	-201.8	-223.6
		20	-85.0	-99.8	-115.8	-132.9	-151.2	-170.7	-191.4	-213.2	-236.2
		25	-88.3	-103.6	-120.1	-137.9	-156.9	-177.1	-198.6	-221.3	-245.2
	2	30	-91.1	-106.9	-124.0	-142.4	-162.0	-182.8	-205.0	-228.4	-253.1
	3	40	-95.8	-112.4	-130.4	-149.7	-170.3	-192.2	-215.5	-240.1	-266.1
		50	-99.6	-116.9	-135.5	-155.6	-177.0	-199.8	-224.0	-249.6	-276.6
		60	-102.8	-120.6	-139.9	-160.6	-182.7	-206.3	-231.2	-257.7	-285.5

**END OF REPORT** 

TCM20001.10a FL36904-R10 Page 4 of 4