

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

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## **EVALUATION REPORT**

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

Manufacturer:	WORTHOUSE INC.Issued October 12, 2023321 Mills RoadWaynesboro, GA 30830(706) 955-4005www.worthouse.com
Manufacturing:	Poland
Quality Assurance:	UL LLC (QUA9625)
SCOPE	
Category: Subcategory: Code Edition: Code Sections: Properties:	Roofing Metal Roofing Florida Building Code, 8th Edition (2023) including High-Velocity Hurricane Zones (HVHZ) 1504.3.1, 1504.3.2, 1504.6, 1518.9, 1523.6.5.2.4 Wind Resistance

#### REFERENCES

WHI16001.5

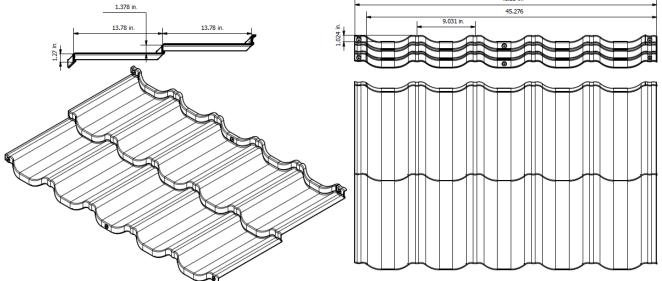
Entity PRI Construction Materials Technologies (TST5878)	<u>Report No.</u> BDMT-001-02-01	<u>Standard</u> UL 1897 UL 580	<u>Year</u> 2015 2006
PRI Construction Materials Technologies (TST5878)	BDMT-001-02-02	TAS 125 UL 1897 UL 580 TAS 125	2003 2015 2006 2003
PRI Construction Materials Technologies (TST5878) PRI Construction Materials Technologies (TST5878) PRI Construction Materials Technologies (TST5878)	BDMT-002-02-01 BDMT-004-02-01 BDMT-005-02-01	TAS 100 TAS 100 ASTM G 155	2023 2023 2013
PRI Construction Materials Technologies (TST5878)	BDMT-006-02-01	TAS 110 ASTM B 117 TAS 100	2000 2016 2000
PRI Construction Materials Technologies (TST5878)	1997T0003	UL 1897 UL 580 TAS 125	2015 2006 2003
PRI Construction Materials Technologies (TST5878)	1997T0004	UL 1897 UL 580	2015 2006
PRI Construction Materials Technologies (TST5878)	1997T0005	TAS 125 UL 1897 UL 580 TAS 125	2003 2015 2006 2003
PRI Construction Materials Technologies (TST5878)	1997T0009	UL 1897 UL 580 TAS 125	2003 2015 2006 2003

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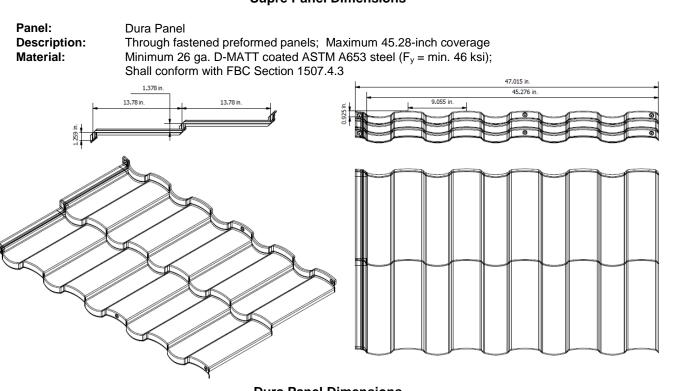


## **PRODUCT DESCRIPTIONS**

Panel: Description: Material:	Supre Panel Through fastened preformed panels; Maximum 45.28-inch coverage Minimum 26 ga. D-MATT coated ASTM A653 steel ( $F_y = min. 46 \text{ ksi}$ ); Shall conform with FBC Section 1507.4.3	
		46.85 in



**Supre Panel Dimensions** 



**Dura Panel Dimensions** 

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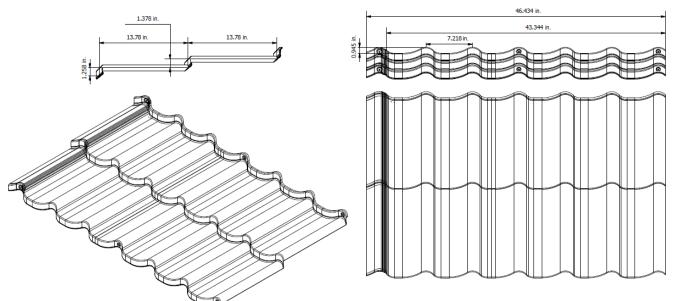


Eura Panel

Description: Material:

Panel:

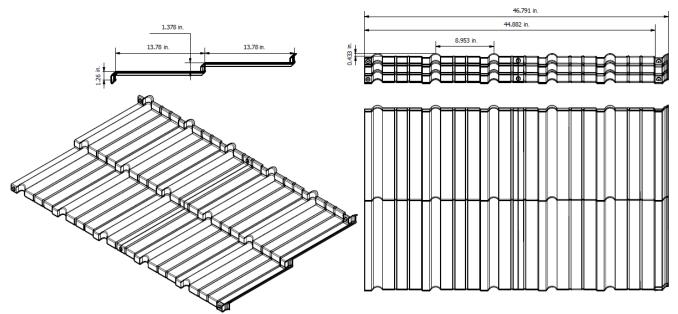
Through fastened preformed panels; Maximum 43.34-inch coverage Minimum 26 ga. D-MATT coated ASTM A653 steel ( $F_y = min. 46 ksi$ ); Shall conform with FBC Section 1507.4.3



### **Eura Panel Dimensions**

Panel:
<b>Description:</b>
Material:

Ulta Panel Through fastened preformed panels; Maximum 44.88-inch coverage Minimum 26 ga. D-MATT coated ASTM A653 steel ( $F_y = min. 46 \text{ ksi}$ ); Shall conform with FBC Section 1507.4.3

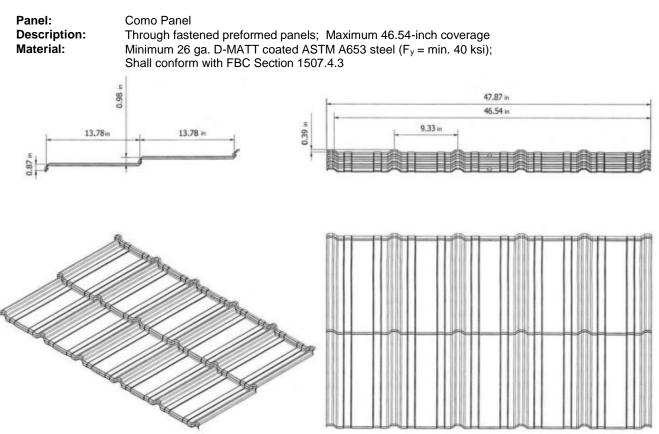


# **Ulta Panel Dimensions**

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**Como Panel Dimensions** 

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## APPROVED ASSEMBLIES

Slope:		Sha	Il be in acco	ordance with	n the FBC.						
Roof Deck:		and 19/3	Solid or closely fitted min. 15/32-inch, 32/16 span rated, 4-ply, CDX plywood sheathing for and existing construction at max. 24-inch span; In the HVHZ, new construction shall be 19/32-inch, 40/20 span rated, CDX plywood at max. 24-inch span; Designed by othe accordance with FBC requirements.								
Underlaymen	t:	Installed in accordance with the FBC. In the HVHZ, at the rake and eave, underlaying be wrapped over the eave and down the fascia prior to installing the drip edge metal HVHZ, the valley pan shall be sealed to the underlayment on each edge with a continu inch wide bead of approved sealant.								tal. In the	
Attachment:	See Appendix A for fastening patterns; 4.8mm x 35mm HWH screws with 14 mm O.D. sealir washers attached at a rate of "10 screws per panel" for Supre, Dura and Ulta Panels or "1									<u>els</u> or " <b>12</b> crews with the deck a	
Maximum De Pressures:	sign		5 psf	tod using 2:1	margin of safe	oty por 1504	n				
Flessules.		Fies			num Mean						
					Slopes 2:12		.5				
_					Basic V	Vind Speed	(mph)				
Exposure	≤12	20	130	140	150	160	170	180	190	200	
				Zon	e 1 for Gabl	e/Hip Roofs			•		
В	60	ft	60 ft	60 ft	60 ft	60 ft	57 ft	37 ft	25 ft	17 ft	
С	60	ft	60 ft	60 ft	42 ft	22 ft	NA	NA	NA	NA	
D	60	ft	60 ft	36 ft	16 ft	NA	NA	NA	NA	NA	
			Zone	2 for Gable	Roofs and Z	Zones 2 & 3	for Hip Roc	ofs			
В	60	ft	60 ft	60 ft	52 ft	32 ft	20 ft	NA	NA	NA	
С	60	ft	44 ft	21 ft	NA	NA	NA	NA	NA	NA	
D	43	ft	17 ft	NA	NA	NA	NA	NA	NA	NA	
				Z	one 3 for Ga	ble Roofs					
В	60	ft	54 ft	31 ft	18 ft	NA	NA	NA	NA	NA	
С	25	ft	NA	NA	NA	NA	NA	NA	NA	NA	
D	NA	-	NA	NA	NA	NA	NA	NA	NA	NA	
Notes: 1) E on an effective assessment 4)	wind a	area o	of 10ft <sup>2</sup> or les	s 3) Topog		s such as es	carpments o	r hills are no	ot included in	the above	

V<sub>ult</sub>√0.6 per 1609.3.1.

WHI16001.5



System 1E	: Dire	ect-t	o-Deck fo	or Supre,	Dura, Ult	a and Eu	ra Panels	5			
Slope:		Sha	Il be in acco	ordance with	the FBC.						
Roof Deck:		and 19/3	Solid or closely fitted min. 15/32-inch, 32/16 span rated, 4-ply, CDX plywood sheathing for n and existing construction at max. 24-inch span; In the HVHZ, new construction shall be n 19/32-inch, 40/20 span rated, CDX plywood at max. 24-inch span; Designed by others accordance with FBC requirements.								
Underlaymen	t:	und edg	Installed in accordance with the FBC Section. In the HVHZ, at the rake and underlayment shall be wrapped over the eave and down the fascia prior to installing th edge metal. In the HVHZ, the valley pan shall be sealed to the underlayment on each with a continuous 3/4-inch wide bead of a <i>pproved</i> sealant.								
Attachment:	Attachment: See Appendix A for fastening patterns; 4.8mm x 35mm HWH screws with 14 mm O.D. sealing washers attached at a rate of " <b>20 screws per panel</b> " for <u>Supre, Dura and Ulta Panel</u> or " <b>24 screws per panel</b> " for <u>Eura Panel</u> ; Panel laps stitched with 4.8mm x 19mm HWH screws with 14mm O.D. sealing washers at the preformed locations. Fasteners shall penetrate the deck a minimum 3/8-inch and shall be corrosion resistant in accordance with section 1507.4.4 and 1506.6.									<u>nel</u> or " <b>24</b> crews with he deck a	
Maximum Dea Pressures:	sign		<b>.5 psf</b> ssure calcular	ted using 2:1	margin of saf	etv per 1504.	9				
110000100.				Maxin	num Mean	Roof Heigh					
	[				Slopes 2:12						
Exposure					1	Vind Speed	,				
•	≤12	20	130	140	150	160	170	180	190	200	
-		_				e/Hip Roofs	r	-	-		
B	60		60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
C D	60		60 ft	60 ft	60 ft	60 ft	60 ft	43 ft	25 ft	15 ft	
D	60	π	60 ft	60 ft	60 ft	60 ft	32 ft	16 ft	NA	NA	
D	00	<i>t</i> 1		2 for Gable	-		•		05.4	00.4	
B C	60 60		60 ft 60 ft	60 ft 60 ft	60 ft 60 ft	60 ft 35 ft	60 ft 19 ft	52 ft NA	35 ft NA	23 ft NA	
D	60 60		60 ft	60 ft	27 ft	NA	NA	NA	NA	NA	
	00		00 11		one 3 for Ga						
В	60	ft	60 ft	60 ft	60 ft	45 ft	29 ft	18 ft	NA	NA	
C	60		60 ft	34 ft	17 ft	NA	NA	NA	NA	NA	
D	60		30 ft	NA	NA	NA	NA	NA	NA	NA	
Notes: 1) E on an effective assessment 4) mean roof heig dimensions and V <sub>ult</sub> √0.6 per 160	wind a Applica of locale	area d able fo great	of 10ft <sup>2</sup> or less or Enclosed B er than 60 ft	uildings without shall be ev	raphic factors out overhangs aluated by a	s such as es 5) NA = "No licensed de	carpments o ot Allowed" 6) sign professi	r hills are no $K_d = 0.85$ 7) onal 9) See	t included in $K_e = 1.0 8$ ) P page 15 for	the above rojects with details for	



Slope:		Sha	Il be in acco	ordance with	the FBC.						
Roof Deck:		and	Solid or closely fitted min. 19/32-inch, 40/20 span rated, 4-ply, CDX plywood sheathing for and existing construction at max. 24-inch span; Designed by others in accordance with requirements.								
Underlaymen	t:	Installed in accordance with the FBC. In the HVHZ, at the rake and eave, underlayment be wrapped over the eave and down the fascia prior to installing the drip edge metal. HVHZ, the valley pan shall be sealed to the underlayment on each edge with a continuo inch wide bead of a <i>pproved</i> sealant.							al. In the		
Attachment:		See Appendix A for fastening patterns; #12 x min. 1.5-inch WoodZip SCAMP CHWH 304S Hi-Lo threaded screws attached at a rate of " <b>20 screws per panel</b> " for <u>Supre, Dura and UI</u> <u>Panel</u> or " <b>24 screws per panel</b> " for <u>Eura Panel</u> ; Panel laps stitched with 1/4"-14 x 7/8-inc SteelZIP SCAMP stitch screws at the preformed locations. Fasteners shall penetrate the deck minimum 3/8-inch and shall be corrosion resistant in accordance with section 1507.4.4 ar 1506.6.								<u>a and Ulta</u> x 7/8-inch the deck a	
Maximum De Pressures:	sign		6 psf ssure calcula	ted using 2:1	margin of saf	ety per 1504.	9				
					laximum M Slopes 2:12						
					Basic \	Vind Speed	(mph)				
Exposure	≤12	20	130	140	150	160	170	180	190	200	
	1			Zon	e 1 for Gabl	e/Hip Roofs			l	L	
B	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
С	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
D	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
			Zone	2 for Gable	Roofs and 2	Zones 2 & 3	for Hip Roo	fs			
В	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
С	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
D	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	54 ft	30 ft	
				Zo	one 3 for Ga	ble Roofs					
В	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
С	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	52 ft	31 ft	18 ft	
D	60		60 ft	60 ft	60 ft	60 ft	41 ft	21 ft	NA	NA	
Notes: 1) E on an effective assessment 4) mean roof hei dimensions an $V_{ult}\sqrt{0.6}$ per 160	wind a Applica of discult	area o able fo greate	of 10ft <sup>2</sup> or less or Enclosed B er than 60 f	uildings witho	raphic factors out overhangs aluated by a	s such as es 5) NA = "No licensed de	carpments o ot Allowed" 6) sign professi	r hills are no $K_d = 0.85$ 7) onal 9) See	t included in $K_e = 1.0 8$ ) P page 15 for	the above rojects with details fo	



System 1D	): Dire	ect-t	o-Deck f	or Como	Panel					
Slope:		Sha	all be in acc	ordance with	the FBC.					
Roof Deck:		and 19/3	Solid or closely fitted min. 15/32-inch, 32/16 span rated, 4-ply, CDX plywood sheathing for new and existing construction at max. 24-inch span; In the HVHZ, new construction shall be mir 19/32-inch, 40/20 span rated, CDX plywood at max. 24-inch span; Designed by others i accordance with FBC requirements.							
Underlaymen	t:	be v HVI	wrapped ov HZ, the vall	ordance wit rer the eave ey pan shall of a <i>pprove</i> e	and down be sealed t	the fascia p	prior to insta	alling the dri	p edge me	al. In the
Attachment:		Hi-L 1/4' add the	∟o threaded '-14 x 7/8-ir litional scre	A for fasten screws atta nch SteelZIF ws placed a nimum 3/8- 506.6.	ached at a i P SCAMP st t the head la	ate of " <b>10</b> s itch screws ap in the de	screws per , (3) screws signated loc	p <b>anel</b> "; Pa placed at e cations; Fas	anel laps sti each side la teners shall	tched with p and (4) penetrate
Maximum De Pressures:	sign		<b>.5 psf</b> ssure calcula	ted using 2:1	margin of sat	ety per 1504.	9			
					<b>num Mean</b> Slopes 2:12	Roof Heigh - 12:12	its			
_					Basic \	Vind Speed	(mph)			
Exposure	≤12	20	130	140	150	160	170	180	190	200
	1			Zon	e 1 for Gab	e/Hip Roofs	;	1		
В	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	58 ft
С	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	35 ft	20 ft	NA
D	60	ft	60 ft	60 ft	60 ft	51 ft	25 ft	NA	NA	NA
			Zone	2 for Gable	Roofs and 2	Zones 2 & 3	for Hip Roc	ofs		
В	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	45 ft	30 ft	20 ft
С	60	ft	60 ft	60 ft	54 ft	28 ft	15 ft	NA	NA	NA
D	60	ft	60 ft	48 ft	21 ft	NA	NA	NA	NA	NA
				Z	one 3 for Ga	able Roofs				
В	60	ft	60 ft	60 ft	60 ft	39 ft	24 ft	16 ft	NA	NA
С	60		58 ft	28 ft	NA	NA	NA	NA	NA	NA
D	59		23 ft	NA	NA	NA	NA	NA	NA	NA
Notes: 1) E on an effective assessment 4) mean roof hei dimensions an V <sub>ult</sub> √0.6 per 160	wind a Applica ghts of locale	area c able fo great	of 10ft <sup>2</sup> or lead or Enclosed E er than 60 f	Buildings without shall be ev	raphic factor out overhangs aluated by a	s such as es s 5) NA = "No licensed de	carpments o ot Allowed" 6) sign professi	r hills are no ) <i>K<sub>d</sub></i> = 0.85 7) ional 9) See	t included in $K_e = 1.0 8$ ) F page 15 for	the above rojects with details for



System 1E	: Dire	ect-t	o-Deck fo	or Como I	Panel						
Slope:		Sha	II be in acco	ordance with	the FBC.						
Roof Deck:		and 19/3	Solid or closely fitted min. 15/32-inch, 32/16 span rated, 4-ply, CDX plywood sheathing for new and existing construction at max. 24-inch span; In the HVHZ, new construction shall be mir 19/32-inch, 40/20 span rated, CDX plywood at max. 24-inch span; Designed by others i accordance with FBC requirements.								
Underlaymen	t:	be v HVI	wrapped ov HZ, the valle	ordance wit er the eave ey pan shall of a <i>pprove</i> d	and down be sealed t	the fascia p	orior to insta	Illing the dri	p edge met	al. In the	
Attachment:		Hi-L 1/4' add the	o threaded -14 x 7/8-ir itional screv	A for fasten screws atta nch SteelZIF ws placed at nimum 3/8- 506.6.	ached at a r SCAMP st t the head la	ate of " <b>20</b> s itch screws, ap in the de	screws per , (3) screws signated loc	panel"; Pa placed at e cations; Fas	anel laps sti each side la teners shall	tched with p and (4) penetrate	
Maximum De Pressures:	sign		6 psf ssure calcula	ted using 2:1	margin of saf	etv ner 1504	q				
Tiessules.		1100		<u> </u>		Roof Heigh					
					Slopes 2:12		15				
_					Basic \	Vind Speed	(mph)				
Exposure	≤12	20	130	140	150	160	170	180	190	200	
	I			Zon	e 1 for Gabl	e/Hip Roofs					
В	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
С	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
D	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	51 ft	
			Zone	2 for Gable	Roofs and 2	Zones 2 & 3	for Hip Roc	ofs			
В	60		60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
С	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	47 ft	28 ft	
D	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	34 ft	18 ft	NA	
				Zo	one 3 for Ga	ble Roofs					
В	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	57 ft	39 ft	
С	60		60 ft	60 ft	60 ft	60 ft	37 ft	21 ft	NA	NA	
D	60		60 ft	60 ft	59 ft	28 ft	NA	NA	NA	NA	
Notes: 1) Exposure category for the structure location shall be as defined in the Florida Building Code 2) Limitations are based on an effective wind area of $10ft^2$ or less 3) Topographic factors such as escarpments or hills are not included in the above assessment 4) Applicable for Enclosed Buildings without overhangs 5) NA = "Not Allowed" 6) $K_d = 0.85$ 7) $K_e = 1.0$ 8) Projects with mean roof heights of greater than 60 ft shall be evaluated by a licensed design professional 9) See page 15 for details for dimensions and locales of Zone 1, 2, and 3 10) $V_{ult}$ is shown in the tables above. Design wind loads are calculated using $V_{asd} = V_{ult}\sqrt{0.6}$ per 1609.3.1.											



System 1F	: Dire	ect-t	o-Deck fo	or Como I	Panel						
Slope:		Sha	III be in acco	ordance with	the FBC.						
Roof Deck:		and	Solid or closely fitted min. 19/32-inch, 40/20 span rated, 4-ply, CDX plywood sheathing for new and existing construction at max. 24-inch span; Designed by others in accordance with FBC requirements.								
Underlaymen	t:	be HVI	Installed in accordance with the FBC. In the HVHZ, at the rake and eave, underlayment be wrapped over the eave and down the fascia prior to installing the drip edge metal. HVHZ, the valley pan shall be sealed to the underlayment on each edge with a continuous inch wide bead of a <i>pproved</i> sealant.								
Attachment:	See Appendix A for fastening patterns; #12 x min. 1.5-inch WoodZip SCAMP CHWH 304SS, Hi-Lo threaded screws attached at a rate of <b>"10 screws per panel"</b> ; Panel laps stitched with 1/4"-14 x 7/8-inch SteelZIP SCAMP stitch screws (3) screws placed at each side lap. and (4)									tched with p and (4) penetrate	
Maximum De	sign		3.5 psf				-				
Pressures:		Pres	ssure calcula	ted using 2:1	<u> </u>						
					num Mean Slopes 2:12	Roof Heigh - 12:12	its				
					Basic \	Vind Speed	(mph)				
Exposure	≤12	20	130	140	150	160	170	180	190	200	
				Zon	e 1 for Gabl	e/Hip Roofs	;				
В	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
С	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	49 ft	
D	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	35 ft	19 ft	
			Zone	2 for Gable	Roofs and 2	Zones 2 & 3	for Hip Roo	ofs			
В	60		60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	57 ft	
С	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	35 ft	20 ft	NA	
D	60	ft	60 ft	60 ft	60 ft	51 ft	25 ft	NA	NA	NA	
				Zo	one 3 for Ga	ble Roofs					
В	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	46 ft	30 ft	20 ft	
С	60	ft	60 ft	60 ft	55 ft	29 ft	16 ft	NA	NA	NA	
D	60		60 ft	50 ft	22 ft	NA	NA	NA	NA	NA	
Notes: 1) E on an effective assessment 4) mean roof hei dimensions and V <sub>ult</sub> √0.6 per 160	wind a Applica ghts of locale	area d able fo great	of 10ft <sup>2</sup> or less or Enclosed B er than 60 ft	uildings without shall be ev	raphic factors out overhangs aluated by a	s such as es 5) NA = "No licensed de	carpments o ot Allowed" 6) sign professi	r hills are no $K_d = 0.85$ 7) onal 9) See	t included in $K_e = 1.0.8$ ) P page 15 for	the above rojects with details for	



System 10	: Dire	ect-t	o-Deck f	or Como	Panel						
Slope:		Sha	Il be in acco	ordance with	the FBC.						
Roof Deck:		and	Solid or closely fitted min. 19/32-inch, 40/20 span rated, 4-ply, CDX plywood sheathing for new and existing construction at max. 24-inch span; Designed by others in accordance with FBC equirements.								
Underlaymen	t:	be v HVH	Installed in accordance with the FBC. In the HVHZ, at the rake and eave, underlayment s be wrapped over the eave and down the fascia prior to installing the drip edge metal. In HVHZ, the valley pan shall be sealed to the underlayment on each edge with a continuous a inch wide bead of a <i>pproved</i> sealant.								
Attachment:	tachment: See Appendix A for fastening patterns; #12 x min. 1.5-inch WoodZip SCAMP CHWH 304SS, Hi-Lo threaded screws attached at a rate of " <b>20 screws per panel</b> "; Panel laps stitched with 1/4"-14 x 7/8-inch SteelZIP SCAMP stitch screws, (3) screws placed at each side lap and (4) additional screws placed at the head lap in the designated locations; Fasteners shall penetrate the deck a minimum 3/8-inch and shall be corrosion resistant in accordance with section 1507.4.4 and 1506.6.									tched with p and (4) penetrate	
Maximum Des Pressures:	sign		1 psf	ted using 2:1	margin of saf	oty por 1504	0				
Tressures.		1100		-	-	Roof Heigh					
					Slopes 2:12						
_					Basic \	Vind Speed	(mph)				
Exposure	≤12	20	130	140	150	160	170	180	190	200	
				Zon	e 1 for Gabl	e/Hip Roofs	;				
В	60		60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
С	60		60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
D	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
			Zone	2 for Gable	Roofs and 2	Zones 2 & 3	for Hip Roo	fs			
В	60	-	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
С	60		60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
D	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	48 ft	
	-				one 3 for Ga		r		1	r	
В	60		60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	
С	60		60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	46 ft	28 ft	
D	60		60 ft	60 ft	60 ft	60 ft	60 ft	34 ft	18 ft	NA	
Notes: 1) Exposure category for the structure location shall be as defined in the Florida Building Code 2) Limitations are based on an effective wind area of $10\text{ft}^2$ or less 3) Topographic factors such as escarpments or hills are not included in the above assessment 4) Applicable for Enclosed Buildings without overhangs 5) NA = "Not Allowed" 6) $K_d = 0.85$ 7) $K_e = 1.0$ 8) Projects with mean roof heights of greater than 60 ft shall be evaluated by a licensed design professional 9) See page 15 for details for dimensions and locales of Zone 1, 2, and 3 10) $V_{ult}$ is shown in the tables above. Design wind loads are calculated using $V_{asd} = V_{ult}\sqrt{0.6}$ per 1609.3.1.											



System 2A	: Bat	ten/	Counter I	Batten fo	r Supre, I	Dura, Ulta	a and Eur	a Panels				
Slope:		Sha	all be in acco	ordance with	the FBC.							
Roof Deck:		and 19/3	Solid or closely fitted min. 15/32-inch, 32/16 span rated, 4-ply, CDX plywood sheathing for new and existing construction at max. 24-inch span; In the HVHZ, new construction shall be mir 19/32-inch, 40/20 span rated, CDX plywood at max. 24-inch span; Designed by others in accordance with FBC requirements.									
Underlaymen	t:		nstalled in accordance with the FBC. In the HVHZ, at the rake and eave, underlayment sh we wrapped over the eave and down the fascia prior to installing the drip edge metal.									
Counter Batte	en:		No. 2 SYP		d maximum	24-inch o.d	c. over the	olywood de	ck trusses/r	afters and		
Batten:		3.5	No. 2 SYP inch x #10 ough plywoo	stainless st	eel deck sc	rews installe	ed at each l					
Attachment: Maximum De	sian	was scr 14n min sec	Appendix / shers attach ews per pa nm O.D. sea imum 3/8-ir tion 1506.6. 6.25 psf	ed at a rate <b>nel</b> " for <u>Eu</u> aling washe nch and sha	e of " <b>5 scr</b> o r <u>a Panel;</u> Pa rs at the pr	ews per pa anel laps sti eformed loc	i <b>nel"</b> for <u>Su</u> tched with 4 ations. Fast	pre, Dura a .8mm x 19r eners shall	nd Ulta Pa nm HWH so penetrate t	<u>nels</u> or " <b>6</b> crews with he deck a		
Pressures:	Sigir		ssure calculat	ed using 2:1	margin of saf	ety per 1504.	9					
				Maxir	num Mean	Roof Heigh	nts					
					Slopes 2:12	2 - 12:12						
					Basic \	Nind Speed	(mph)					
Exposure	≤12	20	130	140	150	160	170	180	190	200		
				Zon	e 1 for Gab	e/Hip Roofs	S					
В	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft		
С	60		60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	36 ft		
D	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	46 ft	25 ft	NA		
	-		Zone	2 for Gable	Roofs and 2	Zones 2 & 3	for Hip Roc	fs				
В	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	46 ft		
С	60		60 ft	60 ft	60 ft	60 ft	45 ft	26 ft	15 ft	NA		
D	60	ft	60 ft	60 ft	60 ft	36 ft	18 ft	NA	NA	NA		
				Z	one 3 for Ga	ble Roofs						
В	60	ft	60 ft	60 ft	60 ft	60 ft	56 ft	36 ft	24 ft	16 ft		
С	60		60 ft	60 ft	41 ft	21 ft	NA	NA	NA	NA		
D	60		60 ft	35 ft	16 ft	NA	NA	NA	NA	NA		
Notes: 1) E on an effective assessment 4) mean roof heig dimensions and $V_{\rm ex}\sqrt{0.6}$ per 160	wind a Applica of locales	area d able fo great	or Enclosed B er than 60 ft	s 3) Topog uildings witho shall be ev	raphic factors out overhangs aluated by a	s such as es s 5) NA = "No licensed de	scarpments o ot Allowed" 6) sign professi	r hills are no $K_d = 0.85$ 7) onal 9) See	$K_e = 1.0 8$ P page 15 for	the above rojects with details fo		

V<sub>ult</sub>√0.6 per 1609.3.1.



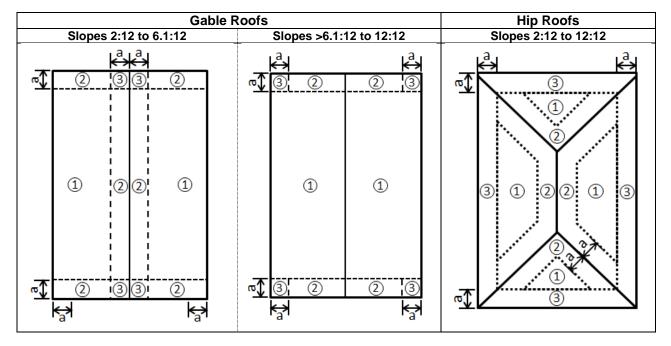
System 2E	B: Ba	tten	/Counter	Batten fo	or Supre,	Dura, Ulta	a and Eu	ra Panels	;			
Slope:	Shall be in accordance with the FBC.											
Roof Deck:		Solid or closely fitted min. 15/32-inch, 32/16 span rated, 4-ply, CDX plywood sheathing for new and existing construction at max. 24-inch span; In the HVHZ, new construction shall be min. 19/32-inch, 40/20 span rated, CDX plywood at max. 24-inch span; Designed by others in accordance with FBC requirements.										
Underlayment:		Installed in accordance with the FBC. In the HVHZ, at the rake and eave, underlayment shall be wrapped over the eave and down the fascia prior to installing the drip edge metal.										
Counter Batten:		1x4 No. 2 SYP lumber laid maximum 24-inch o.c. over the plywood deck trusses/rafters and perpendicular to the eave										
Batten:		2x4 No. 2 SYP lumber installed 14-inch o.c. and perpendicular to the counter batten. Two (2) 3.5-inch x #10 stainless steel deck screws installed at each batten/counter batten intersection through plywood deck into the wood trusses/rafters.										
Attachment:		See Appendix A for fastening patterns; 4.8mm x 35mm HWH screws with 14 mm O.D. sealing washers attached at a rate of " <b>10 screws per panel</b> " for <u>Supre, Dura and Ulta Panels</u> or " <b>12 screws per panel</b> " for <u>Eura Panel</u> ; Panel laps stitched with 4.8mm x 19mm HWH screws with 14mm O.D. sealing washers at the preformed locations. Fasteners shall penetrate the deck a minimum 3/8-inch and shall be corrosion resistant in accordance with section 1507.4.4 and Section 1506.6.										
Maximum Design		-157.5 psf Pressure calculated using 2:1 margin of safety per 1504.9										
Pressures:		Field		Maxir	num Mean	Roof Heigh						
		Slopes 2:12 – 12:12 Basic Wind Speed (mph)										
Exposure	≤12	20	130	140	150	160	170	180	190	200		
					e 1 for Gabl							
В	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft		
C	60		60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft		
D	60		60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft		
			Zone	2 for Gable	Roofs and 2	Zones 2 & 3	for Hip Roc	ofs	•			
В	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft		
С	60 ft		60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	41 ft		
D	60 ft		60 ft	60 ft	60 ft	60 ft	60 ft	53 ft	28 ft	16 ft		
				Z	one 3 for Ga	ble Roofs						
В	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	51 ft		
С	60	ft	60 ft	60 ft	60 ft	60 ft	53 ft	30 ft	18 ft	NA		
D	60		60 ft	60 ft	60 ft	43 ft	21 ft	NA	NA	NA		
C D	60 60 xposure wind a Applica	ft ft e categ area c able fo	60 ft 60 ft gory for the s of 10ft <sup>2</sup> or les or Enclosed B	60 ft 60 ft 60 ft tructure locat ss 3) Topog uildings witho	60 ft 60 ft 60 ft ion shall be a raphic factors out overhangs	60 ft 60 ft 43 ft s defined in t s such as es 5) NA = "No	53 ft 21 ft he Florida Bu carpments o ot Allowed" 6)	30  ft NA ilding Code 2 r hills are no K <sub>d</sub> = 0.85 7)	18 ft NA 2) Limitations t included in $K_e = 1.0 8$ ) P	NA NA s are ba the ab rojects		

assessment 4) Applicable for Enclosed Buildings without overnangs 5) NA = Not Allowed 6)  $K_d = 0.857$   $K_e = 1.0.8$ ) Projects with mean roof heights of greater than 60 ft shall be evaluated by a licensed design professional 9) See page 15 for details for dimensions and locales of Zone 1, 2, and 3 10)  $V_{ult}$  is shown in the tables above. Design wind loads are calculated using  $V_{asd} = V_{ult}\sqrt{0.6}$  per 1609.3.1.



System 3: Batten for Como (non-HVHZ only)												
Slope:		Shall be in accordance with the FBC.										
Roof Deck:		Solid or closely fitted min. 7/16-inch span rated OSB sheathing for new and existing construction at max. 24 in. span; Designed by others in accordance with FBC requirements.										
Existing Roof:		OPTIONAL single layer of existing asphalt shingles; Shall comply with FBC Section 1511										
Underlayment:		Installed in accordance with FBC Section 1507.1.1 and FBC requirements.										
Batten:		1x4 No. 2 SYP lumber laid maximum 13 3/4-inch o.c. parallel to the eave, starting at the eave, and secured with one (1) min. 0.113-inch x 2 3/8-inch ring shank nail spaced 12-inch o.c. staggered										
Attachment:		#12 x min. 2.5-inch WoodZip SCAMP CHWH 304SS, Hi-Lo threaded screws attached at a rate of <b>"10 screws per panel"</b> ; Panel laps stitched with 1/4"-14 x 7/8-inch SteelZIP SCAMP stitch screws, (3) screws placed at each side lap and (4) additional screws placed at the head lap in the designated locations; Fasteners shall penetrate the deck a minimum 3/8-inch and shall be corrosion resistant in accordance with section 1507.4.4 and 1506.6.										
Maximum De	mum Design -86 psf											
Pressures: Pressure calculated using 2:1 margin of safety per 1504.9												
					<b>num Mean</b> Slopes 2:12	Roof Heigh 2 – 12:12	its					
Exposure		Basic Wind Speed (mph)										
Liposule	≤12	20	130	140	150	160	170	180	190	200		
				Zon	e 1 for Gab	le/Hip Roofs	5					
В	60	ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	42 ft		
С	60	ft	60 ft	60 ft	60 ft	60 ft	41 ft	23 ft	NA	NA		
D	60	ft	60 ft	60 ft	60 ft	32 ft	15 ft	NA	NA	NA		
			Zone	2 for Gable	Roofs and 2	Zones 2 & 3	for Hip Roo	fs				
В	60	ft	60 ft	60 ft	60 ft	60 ft	50 ft	32 ft	21 ft	15 ft		
С	60	ft	60 ft	60 ft	35 ft	19 ft	NA	NA	NA	NA		
D	60	ft	60 ft	30 ft	NA	NA	NA	NA	NA	NA		
				Zo	one 3 for Ga	able Roofs						
В	60 ft		60 ft	60 ft	46 ft	28 ft	18 ft	NA	NA	NA		
С	60	ft	38 ft	18 ft	NA	NA	NA	NA	NA	NA		
D	37 ft		15 ft	NA	NA	NA	NA	NA	NA	NA		
Notes: 1) E on an effective assessment 4) mean roof heig dimensions and V <sub>utt</sub> √0.6 per 160	wind a Applica of locale	area c able fo great	of 10ft <sup>2</sup> or lease fer Enclosed E er than 60 f	Buildings without shall be even	raphic factor out overhangs aluated by a	s such as es s 5) NA = "No a licensed de	carpments o ot Allowed" 6) sign professi	r hills are no $K_d = 0.85$ 7) onal 9) See	t included in $K_e = 1.0 8$ ) F page 15 for	the above rojects with details for		





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.

#### LIMITATIONS

- 1. Fire classification is not within the scope of this evaluation.
- 2. The roof deck and the roof deck attachment shall be designed by others to meet the minimum design loads established for components and cladding and in accordance with FBC requirements.
- Reroofing shall be in accordance with FBC Section 1511 outside the HVHZ and Section 1521 inside the HVHZ.
- 4. Installation of the evaluated products shall comply with this report, the FBC and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
- 5. All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

WHI16001.5

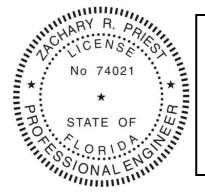
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## **COMPLIANCE STATEMENT**

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



This item has been digitally signed and sealed by Zachary R. Priest, PE, on 10/12/2023.

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.

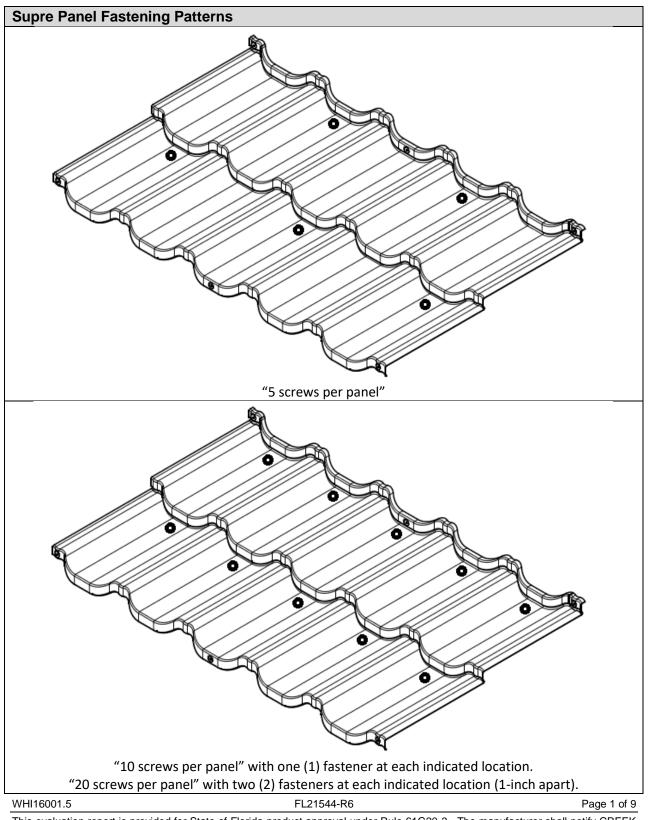
#### **APPENDICES**

APPENDIX A – Fastening Patterns (9 pages)



APPENDIX A

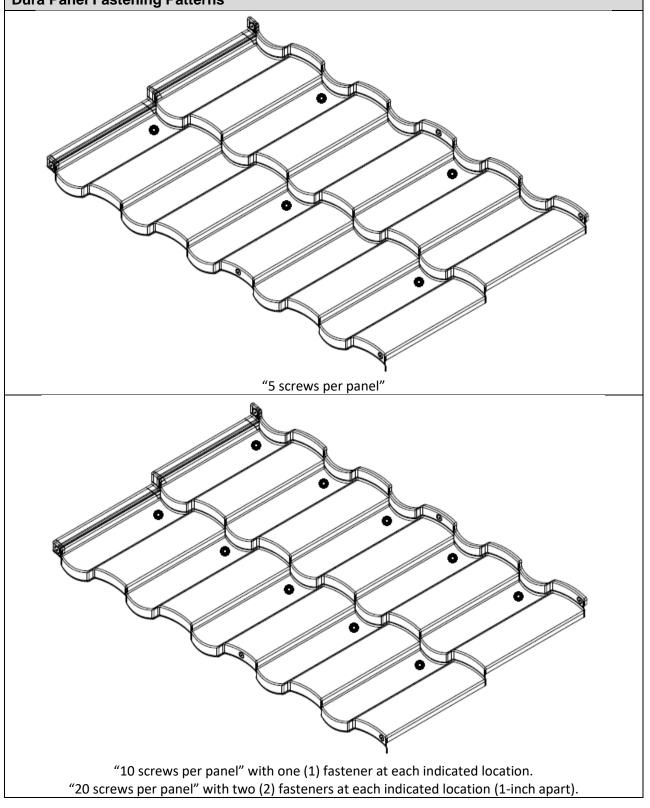
# Systems 1A-G – Direct to Deck Fastening





APPENDIX A

# **Dura Panel Fastening Patterns**



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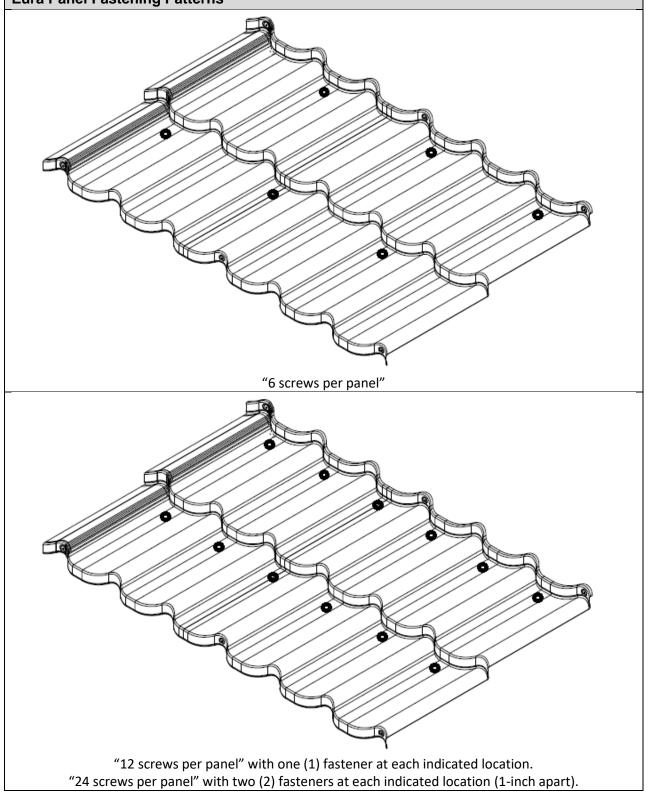
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APPENDIX A

# **Eura Panel Fastening Patterns**



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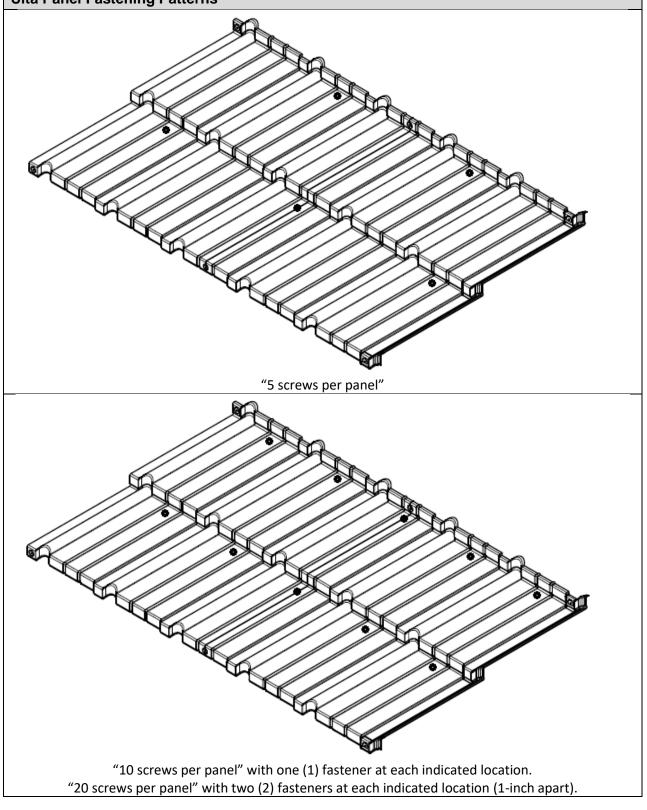
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APPENDIX A

# **Ulta Panel Fastening Patterns**



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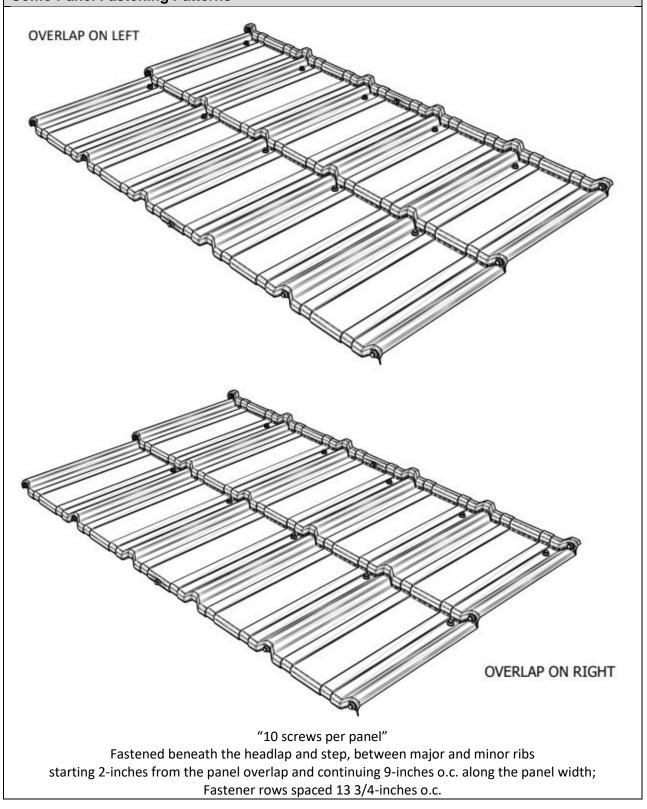


APPENDIX A

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# **Como Panel Fastening Patterns**

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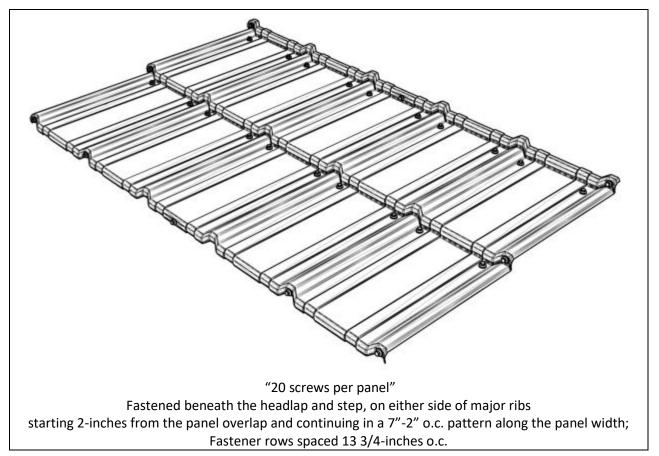


This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express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

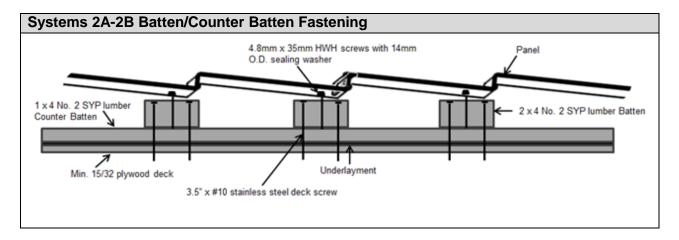
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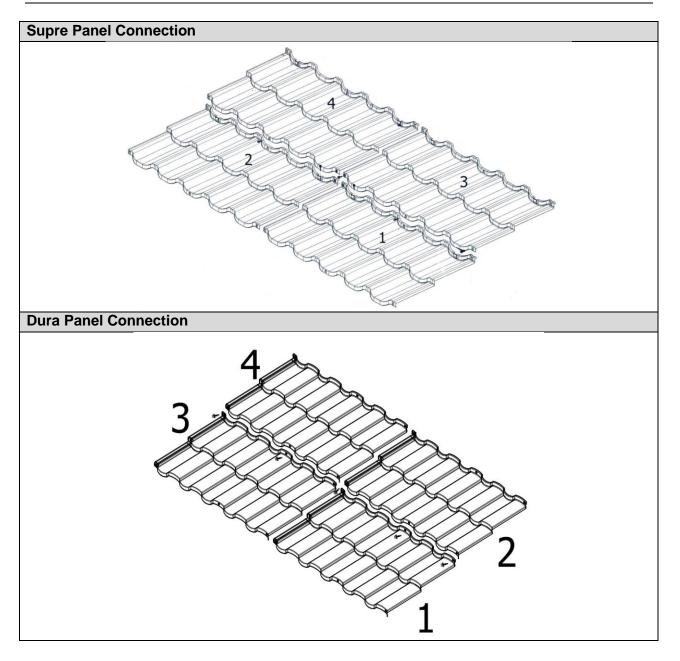


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APPENDIX A

# **Panel Connections**



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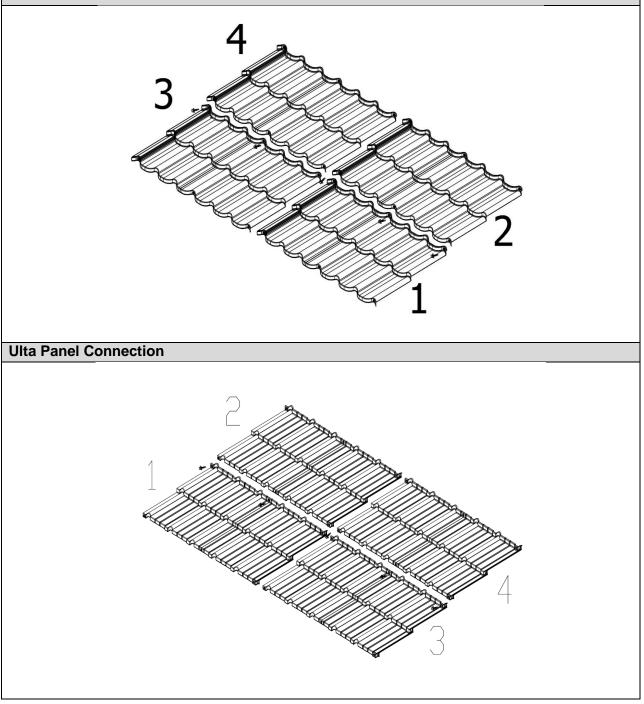
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APPENDIX A



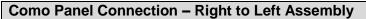


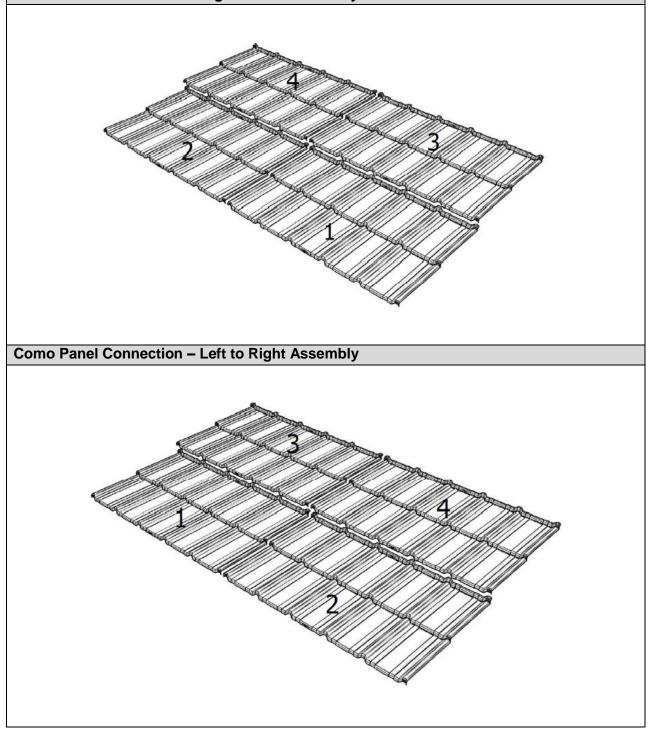
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APPENDIX A





### END OF REPORT

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