

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION MIAMI-DADE COUNTY PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599 www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Rubb, Inc. 1 Rubb Lane Sanford, Maine 04073

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Ferrari Precontraint 1202 Tensioned Arch. Textile Fabric Membrane

APPROVAL DOCUMENT: Drawing No. 47847, titled "Fabric Testing, Test Sheets", one sheet, dated July 08, 2010, last revision #G dated August 18, 2022, and Drawing No. 47881, titled "Fabric Testing, Pocket Tubes", one sheet, dated July 21, 2010, last revision #D dated October 26, 2016, both drawings signed and sealed by Brian E. Lewis, P.E., on September 19, 2022, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each structure shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises & renews NOA #16-1026.01** and consists of this page 1, evidence submitted pages E-1, E-2 & E-3 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.



He GA. Mahr 04/20/2023

NOA No. 21-0916.03 Expiration Date: 10/27/2026 Approval Date: 04/20/2023 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 11-0518.05 A. DRAWINGS

1. Drawing No. 47847, titled "Fabric Testing, Test Sheets", one sheet, dated July 08, 2010, last revision #D dated February 21, 2011, and Drawing No. 47881, titled "Fabric Testing, Pocket Tubes", one sheet, dated July 21, 2010, last revision #A dated February 21, 2010, both drawings signed and sealed by Gary E. Sutryn, P.E., on October 12, 2011.

B. TESTS

- 1. Test report on Large Missile Impact per TAS 201 and Cyclic Wind Pressure per TAS 203 on Tension Membrane Roof, prepared by Hurricane Engineering & Testing, Inc., Report # HETI-10-3107, dated October 04, 2010, signed and sealed by Candido Font, P.E.
- 2. Test report on Large Missile Impact per TAS 201 and Cyclic Wind Pressure per TAS 203 on Tension Membrane Roof, prepared by Hurricane Engineering & Testing, Inc., Report # HETI-10-3110, dated October 04, 2010, signed & sealed by Candido Font, P.E.
- 3. Test report on Accelerated Weathering Testing of Coating 4500 hours per ASTM G 155-05a, prepared by Hurricane Engineering & Testing, Inc., Report # HETI-10-A114, dated October 15, 2010, signed and sealed by Candido Font, P.E.
- 4. Test report on Accelerated Weathering Testing of Coating 4500 hours per ASTM G 155-05a, prepared by Hurricane Engineering & Testing, Inc., Report # HETI-10-A117, dated December 06, 2010, signed and sealed by Candido Font, P.E.
- 5. Test report on Uniform Static Pressure per TAS 202 on Tension Membrane Roof prepared by Hurricane Engineering & Testing, Inc., Report # HETI-10-3109, dated October 04, 2010, signed and sealed by Candido Font, P.E.
- 6. Test report on Uniform Static Pressure per TAS 202 on Tension Membrane Roof prepared by Hurricane Engineering & Testing, Inc., Report # HETI-10-3105, dated October 04, 2010, signed and sealed by Candido Font, P.E.

C. CALCULATIONS

1. Calculations titled "Calculations for Membrane Tension" prepared by Gary E. Sutryn, P.E., dated February 21, 2011, 5 sheets, signed and sealed by Gary E. Sutryn, P.E.

D. QUALITY ASSURANCE

1. By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs.

E. MATERIAL CERTIFICATIONS

1. Tension Test for Grommet Bearing Strength, prepared by Hurricane Engineering & Testing, Inc., report # HETI-10-T131, dated October 04, 2010, signed and sealed by Candido Font, P.E.

 Heimy A. Makar, P.E., M.S.
Product Control Section supervisor NOA No. 21-0916.03
Expiration Date: 10/27/2026
Approval Date: 04/20/2023

Rubb, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 2. Tensile Test for Seam Tensile Strength, prepared by Hurricane Engineering & Testing, Inc., report # HETI-10-T132, dated October 04, 2010, signed and sealed by Candido Font, P.E.
- 3. Tensile Test, prepared by Hurricane Engineering & Testing, Inc., report # HETI-10-T133, dates October 04, 2010, signed and sealed by Candido Font, P.E.
- 4. Tension Test for Welded Pocket Tensile Strength, prepared by Hurricane Engineering & Testing, Inc., report # HETI-10-T134, dated October 04, 2010, signed and sealed by Candido Font, P.E.
- 5. Self-Ignition Temperature per ASTM D 1929, Rate and Extent of Burn per ASTM D 635, and Smoke Density Test per ASTM D 2843 of White Ferrari Material, prepared by Hurricane Engineering & Testing, Inc., report # HETI-10-F504, dated October 04, 2010, signed and sealed by Candido Font, P.E.

F. OTHERS

1. Letter from Gary E. Sutryn, P.E., dated February 21, 2011, signed and sealed by Gary E. Sutryn, P.E., stating that he is the Engineer of Record on this product, he is still practicing engineering in Florida, and this product in compliance with the current Florida Building Code.

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 16-1026.01

A. DRAWINGS

1. Drawing No. 47847, titled "Fabric Testing, Test Sheets", one sheet, dated July 08, 2010, last revision #F dated October 26, 2016, and Drawing No. 47881, titled "Fabric Testing, Pocket Tubes", one sheet, dated July 21, 2010, last revision #C dated October 26, 2016, both drawings signed and sealed by N. Dennis Eryou, P.E., on February 01, 2017.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE 1. By Miami-Dade County Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

F. OTHERS

1. Letter signed and sealed by N. Dennis Eryou, P.E., dated October 27, 2016, certified this product in compliance with the Florida Building Code, 2014 Edition.

Helmy A. Makar, P.E., M.S. Product Control Section supervisor NOA No. 21-0916.03 Expiration Date: 10/27/2026 Approval Date: 04/20/2023

Rubb, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. 47847, titled "Fabric Testing, Test Sheets", one sheet, dated July 08, 2010, last revision #G dated August 18, 2022, and Drawing No. 47881, titled "Fabric Testing, Pocket Tubes", one sheet, dated July 21, 2010, last revision #D dated October 26, 2016, both drawings signed and sealed by Brian E. Lewis, P.E., on September 19, 2022.

B. TESTS

1. None.

C. CALCULATIONS

1. Calculations titled "Calculations for Membrane Tension" prepared by Brian E. Lewis, P.E., dated September 19, 2022, 5 sheets, signed and sealed by Brian E. Lewis, P.E.

D. QUALITY ASSURANCE

1. By Miami-Dade County Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

F. OTHERS

1. Letter signed and sealed by Brian E. Lewis, P.E., dated September 20, 2022, certified this product in compliance with the Florida Building Code, 2020 Edition.

 Helmy A. Makar, P.E., M.S.
Product Control Section supervisor NOA No. 21-0916.03
Expiration Date: 10/27/2026
Approval Date: 04/20/2023

		FORMULA	8
Spécifications techniques	Technical specifications	Prócontraint* 1202 Formulo S	Normos Norms TERSUISSE
Fu	Yarn	PES HT 1100/1670 Dtex	G
Masse totale	Total mass	1050 g/sqm 31 oz/sqyd	NF EN ISO 2286-2
Largeur	Width	180 cm	(·1ava/+1mm)
Resistance traction (chaine/trame)	Tensilo strength (warp/weit)	560/560 deN/5 cm 580/580 Lbs	NF EN ISO 1421 FTMS 191 A Meurod 5102
Resistance déchirure (chaine/trame)	Tear strength (warp/welt)	80/65 daN 100/60 Lbs	DIN 53.363 ASTM D 5733-95 Trapezoid
Adherence	Adhesion	12 daN/5 cm	NF EN ISO 2411
Reaction au leu	Finme retordancy	B1/DIN 4102 - NFPA 701 - SIS 650082 - SN 198898 BS 7837 - CSFM NFP 92.503 M2 sur demando speciale a 1250 g/sqm	
Traitement de surface	Surface Treatment	FORMULE S : Allago PVDF C	CALIBRE / CALIBRATED PVDF alloy
		erance de +/• 5%. / The technical data here	above are average values with a \$7.5% tolerance.
Informations complémentaires	Additionnal informations	270 microns	
en crete des lils	at the top of the yorns		
Epaisseur totale	Total thickness	0,78 mm	NFP 38-511
Passage tumineux "Metrode attus/attus" proche de la perceptiari de l'écel humain.	Light transmission "Derusefatione" method, dese to human eye perception.	1070	
Indice de blanc	White index	82 %	CIE: Commission Internationado da s'E d'airago
Valeurs thermiques	Thermal values	T. 70	ASHRAE standard 74-1988
Transmission solaire Reliexion solaire	Transmission Reliexion Abscrption	Ts 7% Rs 77% As 16%	ASIANC Standard 14-1500
Absorption solaire Facteur solaire	Shading coefficient	Fs 13 %	
Transmission UV Conductance thermique globale	Transmission UV	T-UV 0%	Epptey Solar & Sky U-V radiometer
Position verticale Position horizontale Les dennées II sont des valeurs extenses The V date are obtained by calculation the Indice d'affaibilissement.	Vertical position Horizontal position per cakul lers de simulations des condition reugh simulations of the average conditions Acoustical weakening	U= 5,6W/sqm/°C U= 6,4W/sqm/°C so mayrennes d'utilitation et somt dermetes o of une, these values maast be comidered at Rw: 15 dBA	emme entre de grandeux e appresimation. ISO 717
acoustique	index tees ponctuellement par la memb	Toterance +/- 1 dBA	- 30°C/+ 70°C
Maximum temporary temperatu	res sustained by the installed m	embrane	
Management de la quatité selor	Quality management accor	rding to	150 9001
	FERRARI PRE-CON		
This is to confir - High Tenacity strength to - Plasticized Pl UV resistance - Surface trea various formu The surface to und allows ef - Typicall 7 micro weldable - The FL microns This tr process	m that Ferrari composi y Polyester base cloth the fabric VC coating both sides f e, fungicide treatment, f tments, top and back si ulations of acrylic and f freatment provides some ficient cleaning over tim by the S and S2 surface ons thick and ore made up to p frequency ma UOTOP T2 surface tre- thick and is made with eatment is not weldable s of the edge prior to	te materials are made a which provides the mec for waterproofness. Tome retardency treatm de, which can be made VVDF based varnishes. resistance to dirt built ne. e treatment are approx of a calibrated PVDF/ tachines. atment is approximately a higher concentration as such and needs an high frequency welding.	hanical of imately 5 to ACRYLIC alloy, 12 to 15 of PVDF. abrasion
This is to confir - High Tenacity strength to 1 - Plasticized PV UV resistance - Surface trea vorious form The surface t and ollows ef - Typical 7 micro weldable - The FL microns This tri- process A given type of PRECONTRAINT characteristics s oudited under IS mechanical char	m that Ferrari composi y Polyester base cloth the fabric VC coating both sides f e, fungicide treatment, f tments, top and back si ulations of acrylic and F reatment provides some ficient cleaning over tim by the S and S2 surface ons thick and are made by high frequency ma UOTOP T2 surface tre- thick and is made with eatment is not weldable s of the edge prior to material, identified und 1202 complies with all th stated in the correspon- racteristics nor the flam SUMMARY OF	te materials are made a which provides the mec for waterproofness, ilome retardency treatm de, which can be made 2VDF based varnishes. resistance to dirt build ne. e treatment are approx of a calibrated PVDF/ achines. a higher concentration as such and needs an a high frequency welding er a product code such he mechanical ding data sheet which in treatment does not inte me retardency rating. RESULTS	hanical of d up imately 5 to ACRYLIC alloy, 12 to 15 of PVDF. abrasion in as s rfere with the
This is to confir - High Tenacity strength to i - Plasticized PV UV resistance - Surface trea vorious form The surface t and allows ef - Typical 7 micro weldable - The FL microns This tru- process A given type of PRECONTRAINT characteristics s audited under IS mechanical char	m that Ferrari composi y Polyester base cloth the fabric VC coating both sides f e, fungicide treatment, f tments, top and back si ulations of acrylic and F freatment provides some ficient cleaning over tim y the S and S2 surface ons thick and are made e by high frequency ma UOTOP T2 surface tre- thick and is made with eatment is not weldable s of the edge prior to material, identified und 1202 complies with all t tated in the correspon- cacteristics nor the flom SUMMARY OF	te materials are made a which provides the mea for waterproofness, l'ame retardency treatm de, which can be made PVDF based vornishes. resistance to dirt buik ne. e treatment are approx of a colibrated PVDF/ tachines. atment is approximately a higher concentration as such and needs an a high frequency welding er a product code such he mechanical ding data sheet which is treatment does not inte me retardency rating. RESULTS DARDS TEST RESULT	hanical of d up imately 5 to ACRYLIC alloy, 12 to 15 of PVDF, abrasion n as rfere with the MIAMI-DADE COUNTY CRITERIA
This is to confir - High Tenacity strength to 1 - Plasticized PV UV resistance - Surface trea various form The surface t and ollows ef - Typical 7 micro weldable - The FL microns This tri- process A given type of PRECONTRAINT characteristics s oudited under IS mechanical char	m that Ferrari composi y Polyester base cloth the fabric VC coating both sides f e, fungicide treatment, f tments, top and back si ulations of acrylic and F freatment provides some ficient cleaning over tim y the S and S2 surface ons thick and are made e by high frequency ma UOTOP T2 surface tre- thick and is made with eatment is not weldable s of the edge prior to material, identified und 1202 complies with all t tated in the correspon- cacteristics nor the flom SUMMARY OF	te materials are made a which provides the mec for waterproofness, lome retardency treatm de, which can be made 2VDF based varnishes. resistance to dirt buik ne. e treatment are approx of a calibrated PVDF/ a higher concentration as such and needs an high frequency welding er a product code such he mechanical ding data sheet which is treatment does not inte me retardency rating. <u>RESULTS</u> <u>DARDS TEST RESULT1</u> <u>929</u> <u>8305</u> <u></u>	hanical of d up imately 5 to ACRYLIC alloy, 12 to 15 of PVDF. abrasion in as s rfere with the



BUILDING	CODE IN NOTE #3	RH	GES	10-26-16	
TE #3		AR	GES	10-26-16	
ER MIAMI	DADE COMMENTS	MRB	GES	10-12-11	
O SHOW	FINAL CONFIGURATION	LBC	·-	-	
DE	SCRIPTION	DRAWN	APP.	DATE	
World BB STEMS	FABRIC TESTING POCKET TUBES				
-21-10	scale 1:30	This drawing is the property of Rubb, Inc. and may not b			
21-10	10030	reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.			
	J08 NAYE -				
C. SANF 4-2877	ORD MAINE 04073 FAX 207-324-2347	ORAWING NO.	4788	31	

1) BREAK SHARP CORNERS FOR PVC. 2) BILL OF MATERIALS IS FOR TOTAL QUANTITY REQUIRED. 3.) MEETS 2020 FLORIDA BUILDING CODE.



DETAIL "C" PRODUCT REVISED as complying with the Florida **Building** Code Acceptance No 21-0916.03Respiration Date 10/27/2026OUTSIDE INSIDE

-31 1/2--OVERALL SHEET LENGTH-

TYPICAL SECTION "C-C"

NOTES:		
1) MATERIAL TO	BE FERRARI PRECONTRAINT 1202S.	
2.) SEE DRAWING	G 47881 FOR GALVANIZED STEEL POCKET TUBES.	
3.) MEETS 2020	FLORIDA BUILDING CODE.	

G	UPDATED BULDING CODE N NOTE #3		RH	GES	8-18-22
F	ADDED NOTE +3		AR	GES	10-25-16
ε	REVISED PER MANI-DADE COMMENTS		MRB	GES	10-12-11
D	REVISED TO SHOW AS TESTED CONFIGURATION		LBC	AR	2/21/11
С	REVISED TO SHOW FINAL CONFIGURATION		MAG	-	-
8	ADDED DIMENSIONS TO CUTOUTS		MAG	-	
٨	REVISED FOR FABRICATION		HAG	GES	07-21-10
REV.	DE	SCRIPTION	DRAWN	APP.	DATE
	LDNG SYSTEMS	FABRIC TESTING TEST SHEETS			
(R*SN	MAG 07-08-10	SCALE 1:20	This drawn	ng is the	property
N9.	-	10030	This drawing is the property of Rubb, inc. and nay not be reproduced or used for any nanufacturing purpose without the express written consent of Rubb, Inc.		
DATE		34WR 8CL	corsent of	Rubb. 1	s antitien