

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)

Transparent Protection Systems, Inc. 25 Wann Circle Road Pisgah, AL 35765

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: Clear Polycarbonate Storm Panel Shutter

APPROVAL DOCUMENT: Drawing No. 20-30221, titled "Clearguard Polycarbonate Storm Panels", sheets 1 through 5 of 5, prepared by Engineering Express, dated December 12, 2011, last revision dated October 19, 2020, signed and sealed by Frank L. Bennardo, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, 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 #14-0826.03 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, & E-4 as well as approval document mentioned above.

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

MIAMI-DADE COUNTY
APPROVED

Hel A. Mehr 05/20/2021 NOA No. 21-0112.02 Expiration Date: 01/21/2026 Approval Date: 05/20/2021

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 00-0524.14

A. **DRAWINGS**

Drawing No. 00-246, titled "Clear Polycarbonate Storm Panel", prepared by Knezevich & Associates, Inc., dated December 14, 2000, last revision #1 dated June 7, 2001, sheets 1 through 3 of 3, signed and sealed by V. J. Knezevich, P.E.

B. **TESTS**

- Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform 1. Static Air Pressure Test of Clear Polycarbonate Storm Panels, prepared by Construction Testing Corporation, Report No. 00-045 dated October 31, 2000, signed and sealed by Yamil G. Kuri, P.E.
- Report on panel thickness of Clear Polycarbonate Storm Panel, prepared by 2. Construction Testing Corporation, dated April 9, 2001, signed by George Dotzler.
- 3. Test report on Self Ignition Temperature, Rate of Burn, and Smoke Density Tests of Clear Polycarbonate Storm Panels, prepared by ETC Laboratories, Inc., Report No. ETC-01-753-10724.0 dated June 13, 2001, signed and sealed by Joseph L. Doldan, P.E.
- Draft Test Report on 900 hours of the 4500 hours exposure of the Accelerated 4. weathering of Clear Polycarbonate Storm Panels, prepared by PRI Asphalt Technologies, Notification No. PRI01041, dated June 13, 2001, by Don Portfolio.

C. **CALCULATIONS**

Anchor analysis and shutter calculation, dated December 14, 2000, Pages 1 through 38, prepared by Knezevich and Associates Inc., signed and sealed by V.J. Knezevich, P.E.

D. **MATERIAL CERTIFICATION**

Letter from GE Plastics, signed by Mr. Doug Hamilton, dated April 30, 2001, with comparable data between Lexan Sheet 9034 and Lexan resin 103.

2. **EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #04-0413.03**

A. **DRAWINGS**

Drawing No. 04-342, titled "Clear Polycarbonate Storm Panel", sheets 1 through 3 of 3, prepared by Knezevich & Associates, Inc., dated June 30, 2004, last revision #1 dated July 26, 2004, signed and sealed by V. J. Knezevich, P.E.

TESTS B.

1. None.

> Helmy A. Makar, P.E., M.S. **Product Control Section Supervisor**

> > NOA No. 21-0112.02 Expiration Date: 01/21/2026

Approval Date: 05/20/2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Anchor calculations dated June 30, 2004, 20 pages, prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 09-0423.04

A. DRAWINGS

1. Drawing No. 09-123, titled "Clear Polycarbonate Storm Panel", sheets 1 through 4 of 4, prepared by Knezevich Associates Consulting Engineers, dated April 14, 2009, signed and sealed by V. J. Knezevich, P.E.

B. TESTS

- 1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of Clear Polycarbonate Storm Panels, prepared by Hurricane Test Laboratory, LLC, Report # 0239-0312-06 dated January 02, 2007, signed and sealed by Vinu J. Abraham, P.E.
- 2. Test report on Self Ignition Temperature, Rate of Burn, and Smoke Density and Mechanical Property Tests of BAYER Makrolon 3103-UV stabilized Polycarbonate/ETC 06026, prepared by ETC Laboratories, Inc., Report No. ETC-06-753-18071.0 dated June 22, 2007, signed and sealed by Joseph L. Doldan, P.E.
- 3. Letter from Engineering Express, dated August 02, 2006, signed and sealed by Frank L. Bennardo, P.E., regarding Alternative Polycarbonate Material for Clear Guard Storm Panels: CALIBRE 302V-6 Polycarbonate (Manufactured by Dow Chemical Co.).

C. CALCULATIONS

1. Anchor calculations dated April 17, 2009, 41 pages, prepared by Knezevich Associates Consulting Engineers, signed and sealed by V.J. Knezevich, P.E.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATION

1. Technical data sheet for CALIBRE 302V-6 polycarbonate resin by Dow, 3 pages.

Helmy A. Makar, P.E., M.S.

Product Control Section Supervisor

NOA No. 21-0112.02

Expiration Date: 01/21/2026 Approval Date: 05/20/2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-0605.11

A. DRAWINGS

1. Drawing No. 09-123, titled "Clear Polycarbonate Storm Panel", sheets 1 through 4 of 4, prepared by Knezevich Associates Consulting Engineers, dated April 14, 2009, last revision #1 dated May 22, 2012, signed and sealed by V. J. Knezevich, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATION

1. None.

F. STATEMENTS

1. Letter of compliance with FBC 2010, prepared by Knezevich Associates Consulting Engineers, dated March 30, 2012, signed and sealed by V. J. Knezevich, P.E.

5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 14-0826.03

A. DRAWINGS

1. Drawing No. 14-1626, titled "Clearguard Polycarbonate Storm Panels", sheets 1 through 5 of 5, prepared by Engineering Express, dated December 12, 2011, last revision dated August 04, 2014, signed and sealed by Frank L. Bennardo, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor analysis and shutter calculation, dated 08/04/14, Pages 1 through 48, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATION

1. None.

Helmy A. Makar, P.E., M.S.

Product Control Section Supervisor NOA No. 21-0112.02

Expiration Date: 01/21/2026 Approval Date: 05/20/2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

6. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. 20-30221, titled "Clearguard Polycarbonate Storm Panels", sheets 1 through 5 of 5, prepared by Engineering Express, dated December 12, 2011, last revision dated October 19, 2020, signed and sealed by Frank L. Bennardo, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATION

1. None.

F. STATEMENTS

1. Florida Building Code, 2020 Edition, Compliance Letter, dated October 19, 2020, signed and sealed by Frank L. Bennardo, P.E., on October 20, 2020.

Helmy A. Makar, P.E., M.S. Product Control Section Supervisor

NOA No. 21-0112.02 Expiration Date: 01/21/2026

Approval Date: 05/20/2021

POLYCARBONATE STORM PANELS (HVHZ)



1) THIS SYSTEM HAS BEEN TESTED AND EVALUATED AS A LARGE MISSILE IMPACT PROTECTIVE SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) PER TAS 201, 202, & 203 TEST PROTOCOLS. PANELS ARE APPROVED FOR USE THROUGHOUT THE STATE OF FLORIDA, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) COMPRISED OF MIAMI-DADE & BROWARD COUNTIES.

2) NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT.

3) POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE. SITE-SPECIFIC PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7 AND CHAPTER 1609 OF THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.

4) DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.

5) THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. IF SITE CONDITIONS DEVIATE FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS TO BE USED IN CONJUNCTION WITH THIS DOCUMENT.

6) THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS IS OUTSIDE THE SCOPE OF THIS CERTIFICATION AND SHALL BE VERIFIED BY OTHERS.

7) CLEAR POLYCARBONATE STORM PANELS (FULL, HALF, & DOUBLE-WIDE) MAY VARY IN "COVERAGE" WIDTH UP TO THE RESPECTIVE MAXIMA SHOWN HEREIN, PROVIDED THAT THE PANEL PROFILE HEIGHT BE MAINTAINED. PANELS SHALL BE MOUNTED WITH FASTENERS OR STUDS AT MAXIMUM SPACING SHOWN FOR

8) ALL POLYCARBONATE PANELS SHALL BE MANUFACTURED BY TRANSPARENT PROTECTION SYSTEMS, Inc.

9) THIS PRODUCT APPROVAL IS FOR THE USE OF CLEAR POLYCARBONATE PANELS ONLY. ALL POLYCARBONATE PANELS SHALL BE EXTRUDED WITH THICKNESS t=0.100" (±0.010") AND SHALL BE MANUFACTURED FROM 100% SYNTHETIC THERMOPLASTIC POLYMER RESIN (UV STABILIZED). ANY PLASTIC MATERIAL TO BE USED IN THE HVHZ MUST DEMONSTRATE COMPLIANCE WITH SECTION 2612 OF THE BUILDING CODE SPECIFIED ABOVE. TYPICAL TENSILE STRENGTH Fy=8.908 KSI, FLEXURAL STRENGTH Fby=12.90 KSI, & FLEXURAL MODULUS IS 328.7 KSI.

10) ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, U.N.O.

11) PANELS SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER PANEL CONTAINING THE FOLLOWING:

TRANSPARENT PROTECTION SYSTEMS, INC. WEST PALM BEACH, FLORIDA MIAMI-DADE COUNTY PRODUCT APPROVED

12) STORM PANELS HAVE BEEN DESIGNED AND TESTED TO THE MAXIMUM SPANS AND CORRESPONDING LOADS SHOWN HEREIN. REFERENCE CONSTRUCTION TESTING CORPORATION (CTC OF MIAMI, FL) TEST REPORTS #04-009-FE-FBC & #04-009-LE-FBC, AS WELL AS HURRICANE TEST LAB (HTL OF RIVIERA BEACH, FL) TEST REPORTS #0239-0107-05, #0239-1013-07, & #0239-0312-06.

13) TOP & BOTTOM MOUNTING SECTIONS MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED VERTICALLY OR HORIZONTALLY AS APPLICABLE.

14) USE OF KEYHOLE WASHERS IS OPTIONAL IN CONJUNCTION WITH ANY MOUNTING CONDITION. HOLES MAY BE FIELD DRILLED IN PANELS AT Ø3/8" (OR Ø5/8" WITH KEYHOLE WASHER) WITH ANY FASTENER TYPE. WASHERED WINGNUTS SHALL HAVE 0.865" MINIMUM WASHER DIAMETER.

15) ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60

*NOTE: FOR ALTERNATE ARCH TOP INSTALLATIONS, THE TOP TRACK OR U-HEADER SHALL BE CUT INTO 6" MINIMUM ADJACENT SEGMENTS. EACH SEGMENT SHALL HAVE ANCHORS SPACED PER THE ANCHOR SCHEDULE, WITH A MINIMUM OF (2) ANCHORS PER SEGMENT. ANCHORS SHALL BE 1-1/2" MIN FROM ENDS OF EACH SEGMENT AND SPACED 3" MINIMUM FROM ADJACENT ANCHORS, FOR STUDDED TRACKS ONLY, THERE SHALL BE A MINIMUM OF (1) STUD PER SEGMENT FASTENED TO THE STORM PANEL. STUDS SHALL BE LOCATED 2" MINIMUM FROM ENDS OF EACH SEGMENT

VISIT ECALC.IO/30221

FOR SITE SPECIFIC DEVIATIONS & MORE INFORMATION ABOUT THIS DOCUMENT OR SCAN THIS QR CODE

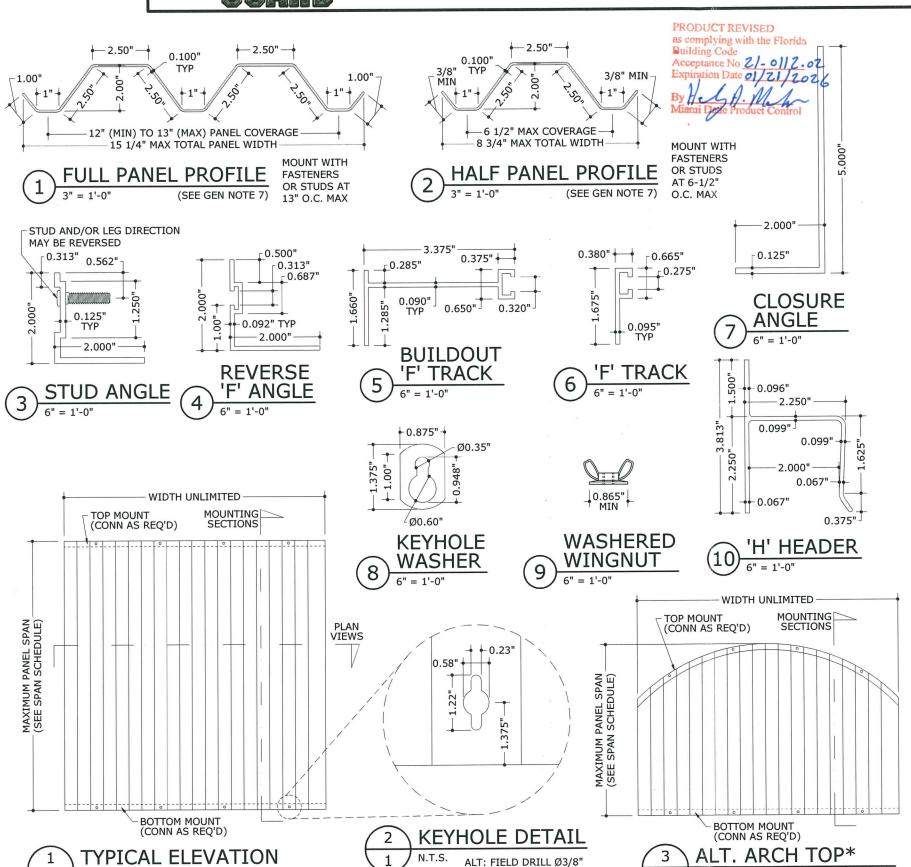
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160 SW DEERFIE (954) TEAM®

20-30221

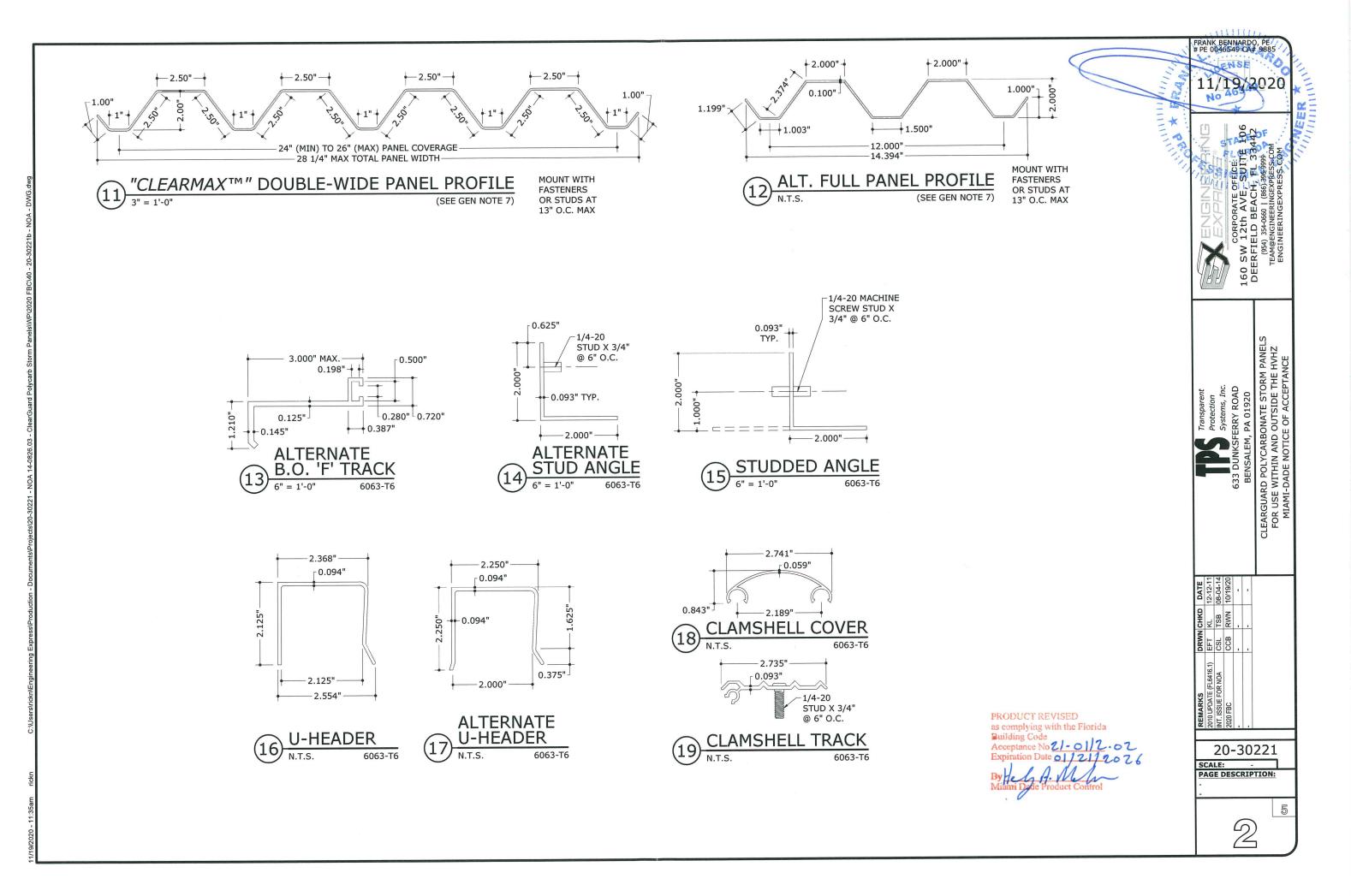
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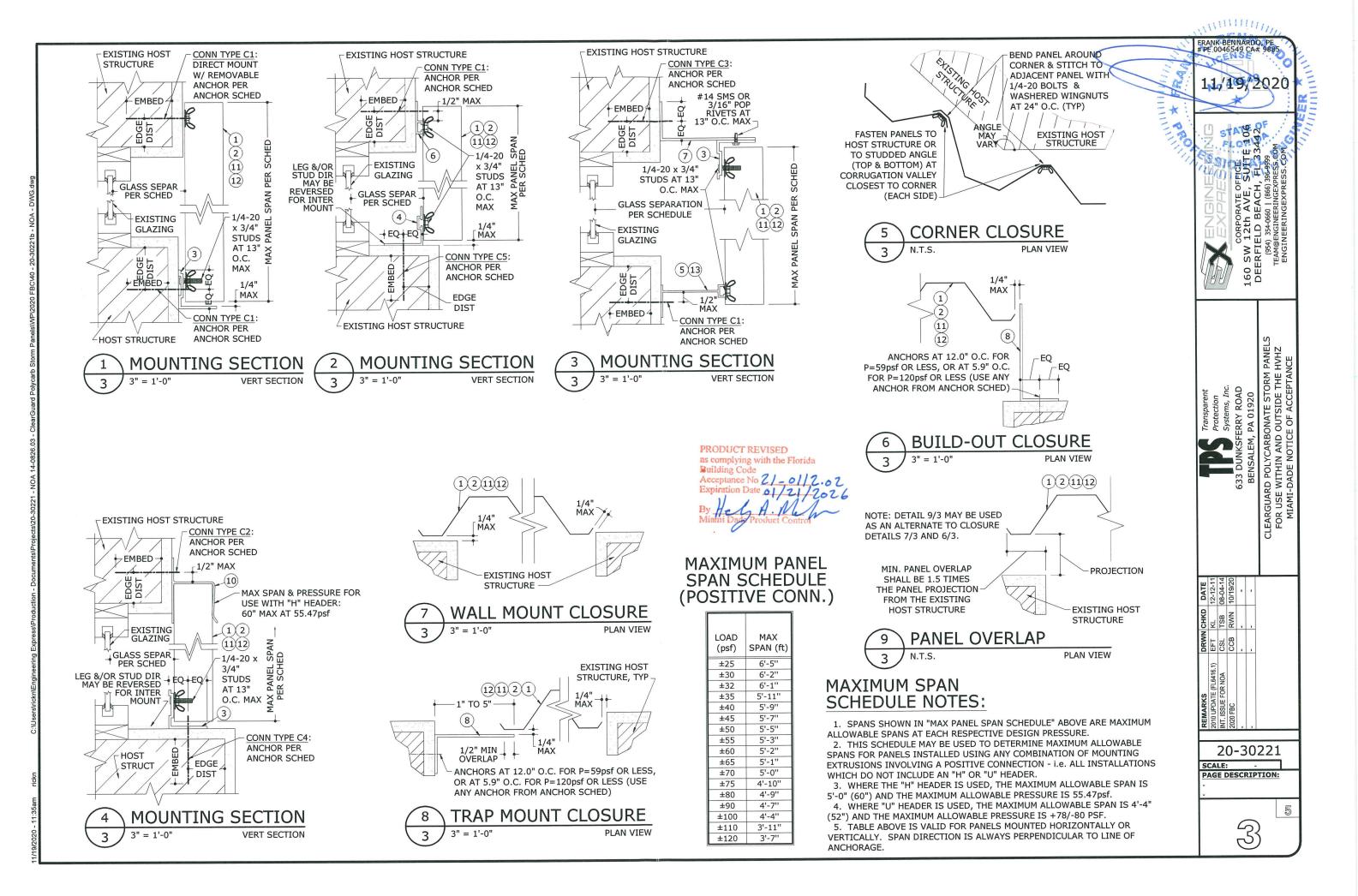


HOLE (OR Ø5/8" HOLE

W/ KEYHOLE WASHER

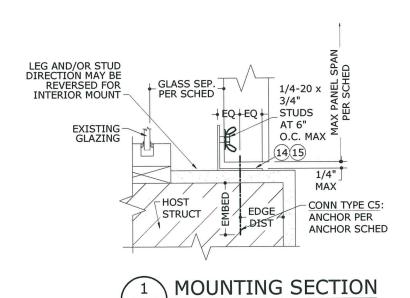
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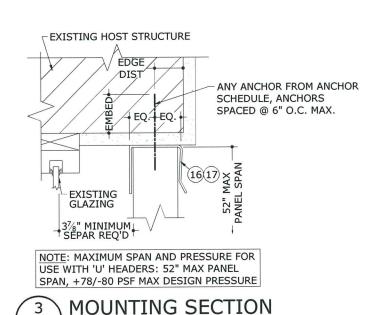






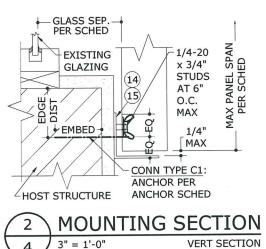


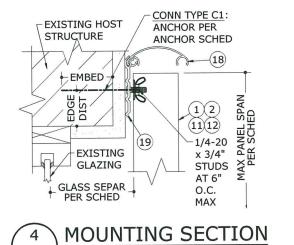




VERT SECTION

VERT SECTION





VERT SECTION

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 21-01/2.07
Expiration Date 01/21/102.

By Hell H. M.
Miami Date Product Control

| REMARKS | DRWN | CHKD | DATE | 2010 UPDATE (FL6416.1) | EFT | KL | 12-12-11 | INT. ISSUE FOR NOA | CSL | TSB | 08-04-14 | 2020 FBC | CCB | RWN | 10/19/20 | CCB | RWN | 10/19/20 | CCB | CCB | RWN | CCB |

FRANK BENNARDO, PE # PE 0046549 CA# 9885

11/19/2020

20-30221

SCALE: PAGE DESCRIPTION:

4

5

ANCHOR SCHEDULE

			2" MIN EDGE DISTANCE														
1. 5	~ 1			Spans Up To 4'-0" Spans Up To 6'-0"							Spans Up To 7'-6"						
LS S		LOAD	CONN TYPE					CONN TYPE					CONN TYPE				
유당		(psf)	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
	1/4" DEWALT ULTRACON OR	42	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"			13.0"		13.0"	13.0"	ATT-100-00-0	
	ITW ATT TAPCON WITH 1-3/4"	47	13.0"	13.0"	13.0"	13.0"		13.0"		13.0"							
	EMBED (3000 PSI MIN CONC)	53	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	9.6"	7.5"	13.0"	13.0"
	F nunununun	65	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	9.8"	7.6"	13.0"	13.0"	13.0"	7.8"	6.1"	13.0"	8.4"
	H managaman	120	13.0"	7.9"	6.2"	13.0"	8.5"	5.4"	5.3"	4.1"	5.1"	5.7"	4.3"	4.2"	3.3"	4.1"	4.5"
	1/4" DEWALT PANELMATE WITH	42	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"		13.0"	13.0"	13.0"	13.0"	13.0"		13.0"	
	1-3/4" MIN EMBED (3350 PSI	47	13.0"	13.0"	13.0"	13.0"		13.0"		13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"
	MIN CONC)	53	13.0"	13.0"		13.0"		13.0"		13.0"	13.0"	13.0"	13.0"	12.2"	9.6"	13.0"	
l H	*	65	13.0"	13.0"	13.0"			13.0"		9.7"	13.0"	13.0"	13.0"	10.0"	7.8"	13.0"	10.6"
H. H.		120	13.0"	10.1"	7.9"	13.0"	10.8"	6.9"	6.8"	5.3"	6.5"	7.2"	5.5"	5.4"	4.2"	5.2"	5.8"
CONCRETE	1/4-20 ALL POINTS SOLID- SET	42	13.0"	13.0"	13.0"	13.0"		13.0"		13.0"	13.0"		13.0"	13.0"		13.0"	13.0"
8	WITH 7/8" MIN EMBED (3000	47	13.0"	13.0"	13.0"	13.0"		13.0"		13.0"			13.0"	10.9"	13.0"	13.0"	13.0"
1	PSI MIN CONC)	53	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"			13.0"	77.00.00	13.0"	9.6"	7.5"	13.0"	13.0"
	* 1	65	13.0"	13.0"	13.0"	13.0"	13.0"		9.8"	7.7"	13.0"	13.0"	13.0"	7.9"	6.1"	13.0"	9.8"
	*	120	13.0"	8.0"	6.2"	13.0"	9.9"	5.4"	5.3"	4.1"	5.9"	6.6"	4.3"	4.3"	3.3"	4.7"	5.3"
	1/4-20 DEWALT CALK-IN WITH 7/8" MIN EMBED (3000 PSI MIN	42	13.0"	13.0"		13.0"	13.0"		13.0"	13.0"			13.0"	13.0"	13.0"	13.0"	13.0"
		47	13.0"	13.0"	13.0"			13.0"		_			13.0"	6.9"	13.0"	11.8"	
	CONC)	53	13.0"		13.0"			13.0"		13.0"	13.0"		13.0"	6.1"	4.7"	10.4"	10.4"
	*	65	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	6.2"	4.8"		10.6"		5.0"	3.9"	8.5"	4.9"
		120	13.0"	5.0"	3.9"	8.6"	5.0"	3.4"	3.4"	N/A	N/A	3.3"	N/A	N/A	N/A	N/A	N/A

			2" MIN EDGE DISTANCE															
1 5	ANCHOR			Spans Up To 4'-0" Spans Up To 6'-0"									Spans Up To 7'-6"					
ls ≥		LOAD	CONN TYPE					CONN TYPE					CONN TYPE					
HOST STRUCT.		(psf)	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	
	1/4" DEWALT ULTRACON WITH	42	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	10.7"	10.7"	10.7"	11.2"	11.2"	
	1-1/4" EMBED	47	13.0"	13.0"	13.0"	13.0"	13.0"	11.9"	11.9"	11.9"	12.5"	12.5"	9.5"	3.6"	9.5"	10.0"	10.0"	
MIN)	Zi	53	13.0"	13.0"	13.0"	13.0"	13.0"	10.6"	10.6"	10.6"	11.1"	11.1"	8.5"	3.2"	N/A	8.9"	8.9"	
90 N		65	12.9"	12.9"	12.9"	13.0"	13.0"	8.6"	3.2"	N/A	9.0"	9.0"	6.9"	N/A	N/A	7.2"	3.3"	
6-5		120	7.0"	N/A	N/A	7.3"	3.3"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1/4" DEWALT PANELMATE WITH	42	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	
(ASTM	1-1/4" MIN EMBED	47	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	7.2"	13.0"	13.0"		
₹	d	53	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	6.3"	4.9"	13.0"		
l 공	* * * * * * * * * * * * * * * * * * * *	65	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	6.5"	5.0"	13.0"	13.0"	13.0"	5.2"	4.0"	12.4"	6.1"	
BLOCK		120	13.0"	5.3"	4.1"	12.6"	6.2"	3.6"	3.5"	N/A	3.7"	4.1"	N/A	N/A	N/A	N/A	3.3"	
	1/4-20 ALL POINTS SOLID- SET	42	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	
8	WITH 7/8" MIN EMBED	47	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	7.3"	13.0"	13.0"	13.0"	
HOLLOW		53	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	6.4"	5.0"	12.0"	12.0"	
¥	* 1	65	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	6.6"	5.1"	12.3"	12.3"	13.0"	5.2"	4.1"	9.8"	5.4"	
		120	13.0"	5.3"	4.2"	10.0"	5.5"	3.6"	3.6"	N/A	3.3"	3.7"	N/A	N/A	N/A	N/A	N/A	

			3/4" MIN EDGE DISTANCE														
l r	ANCHOR			Snanc	Up To	۷' <u>-</u> 0''		3/4				VCL		Spans	Up To	7'-6"	
HOST STRUCT.		LOAD						Spans Up To 6'-0"									
OS		(psf)	-			NN TYPE		CONN TYP						CONN TYPE			C5
I S			C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2 13.0"	13.0"	C4 9.3"	9.3"
	1/4" TAPCON (DEWALT OR ITW)	42		Decree of the second	13.0"		13.0"	13.0"	13.0"	13.0"	11.6"	11.6"	13.0"				
	OR #14 WOOD SCREW W/	47	13.0"		13.0"	100000000000000000000000000000000000000	100000000000000000000000000000000000000	13.0"	13.0"		10.4"	10.4"	13.0"	7.7"	13.0"	8.3"	8.3"
	1-1/2" EMBED	53	13.0"		13.0"			13.0"	13.0"	13.0"	9.2"	9.2"	13.0"	6.8"	5.3"	7.4"	7.4"
		65	13.0"	0.000	13.0"			13.0"	6.9"	5.4"	7.5"	7.5"	13.0"	5.5"	4.3"	6.0"	4.1"
	H managanan	120	13.0"	5.6"	4.4"	6.1"	4.2"	3.8"	3.8"	2.9"	2.6"	2.8"	3.1"	3.0"	2.3"	2.1"	2.2"
	1/4" DEWALT PANELMATE (FEMALE, MALE, OR PLUS) W/ 1-7/8" MIN EMBED ***********************************	42			13.0"			13.0"		13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"
15		47	13.0"		13.0"	13.0"		13.0"			13.0"		13.0"	13.0"	13.0"	13.0"	13.0"
ĮΞ		53	13.0"	13.0"	13.0"				_		13.0"		13.0"	13.0"	11.6"	13.0"	13.0"
		65	13.0"		13.0"	13.0"		13.0"	13.0"		13.0"		13.0"	12.1"	9.4"	13.0"	9.4"
0		120	13.0"	12.3"	9.6"	13.0"	9.6"	8.3"	8.2"	6.4"	5.9"	6.4"	6.7"	6.5"	5.1"	4.7"	5.1"
(G=0.55	7/16" WOOD BUSHING W/ 7/8"	42	13.0"	13.0"	13.0"	13.0"		13.0"			13.0"		13.0"	13.0"	13.0"	13.0"	13.0"
	MIN EMBED & 1/4-20 S.S. MACHINE SCREW * Haddition	47	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	5.9"	13.0"	13.0"	13.0"
Ιğ		53	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	5.2"	4.1"	13.0"	13.0"
I §	1/4" LAG SCREW WITH 2-3/32" MIN THREAD PENETR	65	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	5.3"	4.1"	13.0"	13.0"	11.4"	4.2"	3.3"	11.4"	5.3"
		120	11.6"	4.3"	3.4"	11.6"	5.4"	2.9"	2.9"	2.2"	3.2"	3.6"	2.3"	2.3"	N/A	2.5"	2.9"
		42	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	12.1"	12.1"	13.0"	13.0"	13.0"	9.7"	9.7"
		47	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	10.8"	10.8"	13.0"	9.9"	13.0"	8.6"	8.6"
	THREAD PENETR	53	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	9.6"	9.6"	13.0"	8.8"	6.9"	7.7"	7.7"
		65	13.0"	13.0"	13.0"	11.7"	11.7"	13.0"	9.0"	7.0"	7.8"	7.8"	13.0"	7.2"	5.6"	6.3"	4.5"
	* =====================================	120	13.0"	7.3"	5.7"	6.4"	4.6"	5.0"	4.9"	3.8"	2.9"	3.1"	4.0"	3.9"	3.0"	2.3"	2.5"

MINIMUM GLASS SEPARATION SCHEDULE

POSITIVE LOAD (psf)	SPAN LESS THAN	MINIMUM SEPARATION AT OR BELOW 30' ABOVE GRADE	MINIMUM SEPARATION AT ELEV > 30' ABOVE GRADE
	4'-0''	4.23"	1.37"
32	4'-9''	4.23"	1.73"
	6'-1''	5.35"	3.00"
	4'-0''	4.23"	1.46"
40	4'-9''	4.23"	1.92"
	5'-9''	5.35"	3.00"
	4'-0''	4.23"	1.52"
45	4'-9''	4.23"	2.03"
	5'-7''	5.35"	3.00"
	4'-0''	4.23"	1.58"
50	4'-9''	4.23"	2.14"
	5'-6''	5.35"	3.00"
	4'-0''	4.23"	1.69"
60	4'-9"	4.23"	2.37"
	5'-3"	5.35"	3.00"
	4'-0''	4.23"	1.81"
70	4'-9''	4.23"	2.60"
	5'-0''	5.35"	3.00"
120	3'-8"	4.23"	1.97"

GLASS SEPARATION SCHEDULE NOTES:

- 1. GLASS SEPARATION SCHEDULE PROVIDES MINIMUM SEPARATION DISTANCE REQUIRED BETWEEN EXTERIOR FACE OF GLAZING (OR OTHER PRODUCT BEING PROTECTED) AND INTERIOR FACE OF INSTALLED STORM PANEL.
- 2. SEPARATION DISTANCE PER THIS SCHEDULE IS REQUIRED FOR USE WITH POSITIVE LOADS ONLY.
- 3. SEPARATION FROM GLASS IS REQUIRED ONLY WHEN INSTALLED WITHIN THE HIGH VELOCITY HURRICANE ZONE, ASTM WIND ZONE 4 AND ESSENTIAL FACILITIES.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 21 - 0112.02
Expiration Date 01/21/202
By Land Miami Pade Product Control

ANCHOR NOTES:

- FOR ALL CONCRETE ANCHORS, UTILIZE EITHER 1/4" ITW ATT TAPCONS OR 1/4" DEWALT ULTRACONS AS SPECIFIED IN THE ANCHOR SCHEDULES.
- 2. "DEWALT PANELMATE" ANCHORS MAY BE MALE, FEMALE, OR PANELMATE PLUS, AS ILLUSTRATED HEREIN. HEAD STYLE MAY BE STD 13/32" OR WASHERED 5/8" HEX HEAD.
- 3. ENSURE MINIMUM 2" EDGE DISTANCE FOR ALL ANCHORS TO CONCRETE & TO HOLLOW BLOCK. ENSURE 3/4" EDGE DISTANCE FOR ALL ANCHORS TO WOOD.
- 4. MINIMUM EMBEDMENT SHALL BE AS NOTED IN THE ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, EFIS, BRICK AND OTHER WALL FINISHES. AN ALUMINUM OR GALVANIZED STEEL SPACER SHALL BE USED TO CASE ANCHORS WHEN INSTALLED TO EIFS, ICF OR OTHER MALLEABLE FINISHES. USE OF THE SPACER IS OPTIONAL FOR INSTALLATION TO STUCCO, BRICK OR OTHER RIGID FINISHES. ALL WALL FINISHES ARE BY OTHERS AND SHALL PROVIDE ADEQUATE RESISTANCE TO TRANSFER ALL LOADS TO THE SUPPORTING HOST STRUCTURE.
- 5. CONCRETE ANCHORS NOTED HEREIN SHALL BE EMBEDDED TO UN-CRAKCED CONCRETE ONLY. INSTALL ALL CONCRETE ANCHORS PER MANUFACTURE'S RECOMMENDATIONS
- WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY.
 FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT
 INTO PLYWOOD.
- 7. WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2x4 (MIN) WOOD STUD (i.e. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING). WOOD STUD SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
- ANCHOR SCHEDULE APPLIES FOR ALL PRODUCTS CERTIFIED HEREIN, BUT ONLY PROVIDES MAXIMUM ALLOWABLE ANCHOR SPACING. MAXIMUM ALLOWABLE SPANS AND PRESSURES INDICATED IN SPAN SCHEDULE SHALL APPLY.
- MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD ("SIDEWALK BOLT") U.N.O.
- 10. * DESIGNATES REMOVABLE ANCHORS. PANELS SHALL BE MOUNTED DIRECTLY TO THE HOST STRUCTURE ONLY WITH THESE ANCHORS, LOCATED AT KEYHOLES AND LESS THAN OR EQUAL TO ALLOWABLE SPACING SHOWN IN ANCHOR SCHEDULE.
- 11. "N/A" DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE FOR USE.

11/19/2020

CORPORATE OFFICE: 0

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SO SW 12th AVE, SUITE 10

DERFIELD BEACH, PF 3344

(954) 334-0660 | (866) 396-9999

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