



Product Approval
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[Product Approval Menu](#) > **Application Detail**

OFFICE OF THE
SECRETARY

FL #	FL42307								
Application Type	New								
Code Version	2023								
Application Status	Approved								
Comments									
Archived	☐								
Product Manufacturer	Panoramic Doors LLC								
Address/Phone/Email	15050 Frye Rd Fort Worth, TX 76155 (760) 616-5018 mrees@panoramicdoors.com								
Authorized Signature	Michael Rees mrees@panoramicdoors.com								
Technical Representative									
Address/Phone/Email									
Quality Assurance Representative									
Address/Phone/Email									
Category	Exterior Doors								
Subcategory	Swinging Exterior Door Assemblies								
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received								
Florida Engineer or Architect Name who developed the Evaluation Report	Hermes F. Norero, P.E.								
Florida License	PE-73778								
Quality Assurance Entity	Keystone Certifications, Inc.								
Quality Assurance Contract Expiration Date	10/29/2029								
Validated By	Zachary R. Priest, P.E. ☒ Validation Checklist - Hardcopy Received								
Certificate of Independence	FL42307_R0_COI_COI Panoramic Doors SS 2023-08-14.pdf								
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>TAS 201</td> <td>1994</td> </tr> <tr> <td>TAS 202</td> <td>1994</td> </tr> <tr> <td>TAS 203</td> <td>1994</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	TAS 201	1994	TAS 202	1994	TAS 203	1994
<u>Standard</u>	<u>Year</u>								
TAS 201	1994								
TAS 202	1994								
TAS 203	1994								
Equivalence of Product Standards Certified By									
Sections from the Code									

Product Approval Method

Method 1 Option D

Date Submitted 08/15/2023
 Date Validated 08/16/2023
 Date Pending FBC Approval 08/23/2023
 Date Approved 10/17/2023

Summary of Products

FL #	Model, Number or Name	Description
42307.1	Coastal Storm Door (HVHZ)(Impact)	Coastal Storm Door (HVHZ)(Impact)
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See Installation Instructions and Product Evaluation Report for allowable design pressures, sizes, configurations, installation requirements and limits of use.		Installation Instructions FL42307_R0_II_PAD010 SS 2023-08-14.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL42307_R0_AE_PER8709 SS 2023-08-14.pdf Created by Independent Third Party: Yes
42307.2	Coastal Storm Door (Non-HVHZ) (Non-Impact)	Coastal Storm Door (Non-HVHZ)(Non-Impact)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: See Installation Instructions and Product Evaluation Report for allowable design pressures, sizes, configurations, installation requirements and limits of use.		Installation Instructions FL42307_R0_II_PAD006 SS 2023-08-14.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL42307_R0_AE_PER8705 SS 2023-08-14.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:



PANORAMIC DOORS

COASTAL STORM DOOR

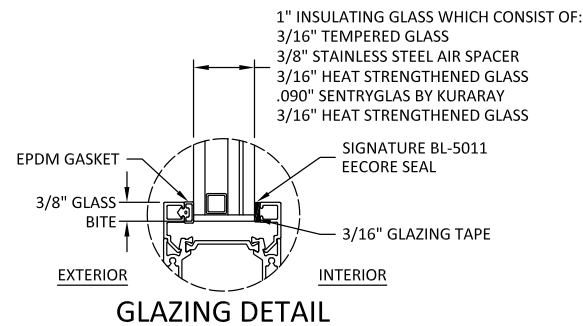
(HVHZ) (IMPACT)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC) **INCLUDING** HVHZ. ALL PRODUCTS UNDER THE SCOPE OF THIS DOCUMENT HAVE BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/4$ INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
5. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
6. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
7. FRAME MATERIAL: ALUMINUM 6063-T6.
8. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES AND GLAZING DETAILS
2	TYPICAL ELEVATIONS
3	ANCHOR LAYOUT, QUALIFIED CONFIGURATIONS, AND DESIGN PRESSURE TABLE
4	VERTICAL SECTIONS
5	HORIZONTAL SECTIONS
6	INSTALLATION NOTES AND DETAILS

DESIGN PRESSURE RATING		
PANEL SIZE	DESIGN PRESSURE	MISSILE RATING
SEE SHEET 3		LARGE MISSILE IMPACT



GLAZING NOTES:

1. GLASS TYPE & THICKNESS COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
4. D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN SHEETS 1 & 2.



15050 FRYE ROAD
 FORT WORTH, TX 76155
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TITLE: COASTAL STORM DOOR (HVHZ) (IMPACT)

GENERAL NOTES & GLAZING DETAILS

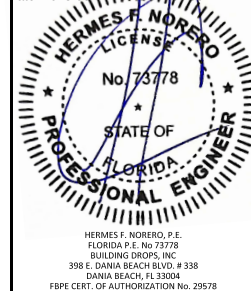
PREPARED BY: BUILDING DROPS, INC.
 398 E. DANIA BEACH BLVD., STE. 338
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 FAX: (954) 344-4738
 WEB: www.buildingdrops.com

BUILDING DROPS

REMARKS	BY	DATE

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Digitally signed by Hermes F. Norero, P.E.
 Reason: I am approving this document
 Date: 2023.08.14 11:13:27 -04'



FL #: **FL42307**

DATE: **08.14.2023**

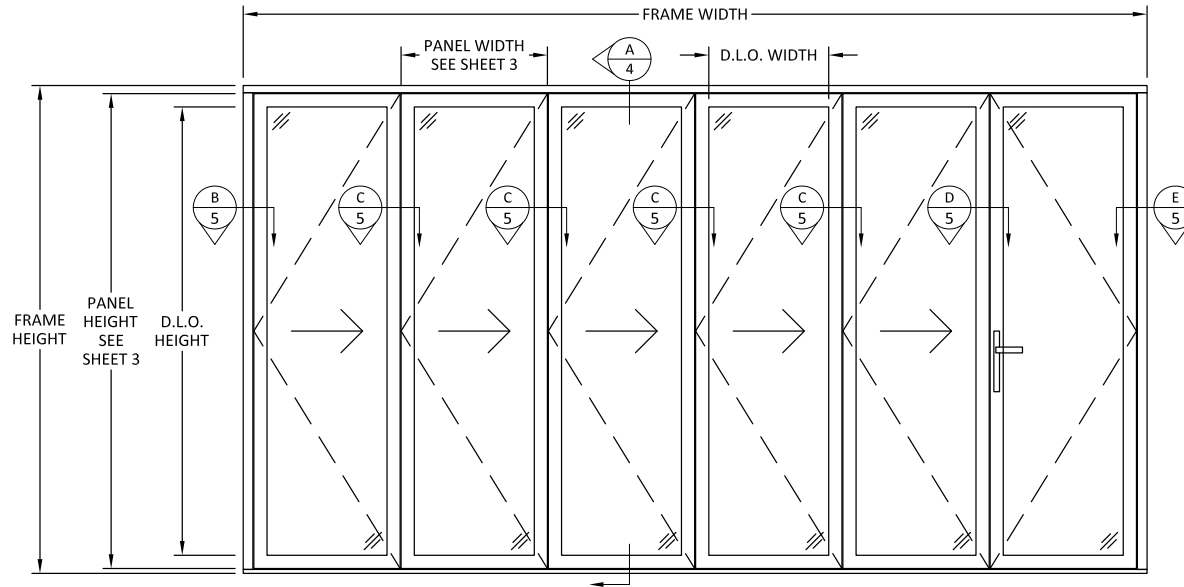
DWG. BY: **MS** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **PAD010**

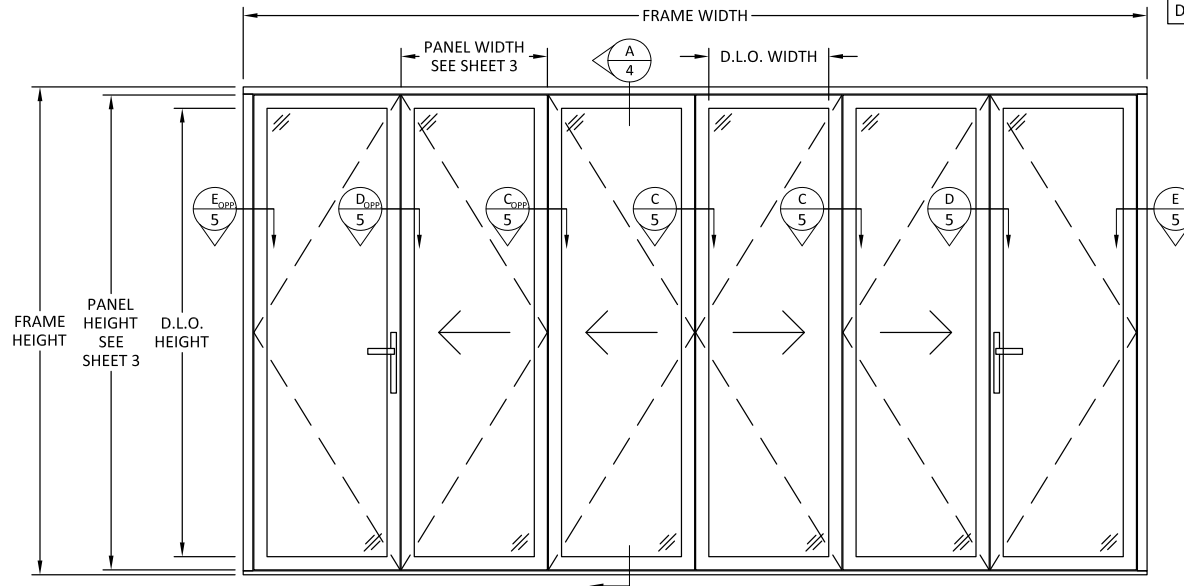
SHEET:

1



TYPICAL ELEVATION

FRAME WIDTH = (PANEL QTY.)*(PANEL WIDTH + 0.225") + 6.025"
 FRAME HEIGHT = PANEL HEIGHT + 3.25"
 D.L.O. WIDTH = PANEL WIDTH - 6.5"
 D.L.O. HEIGHT = PANEL HEIGHT - 6.5"



TYPICAL ELEVATION



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 (HVHZ) (IMPACT)

TYPICAL ELEVATIONS

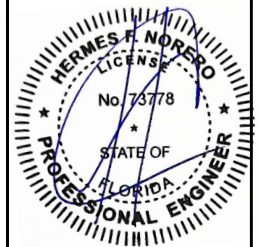
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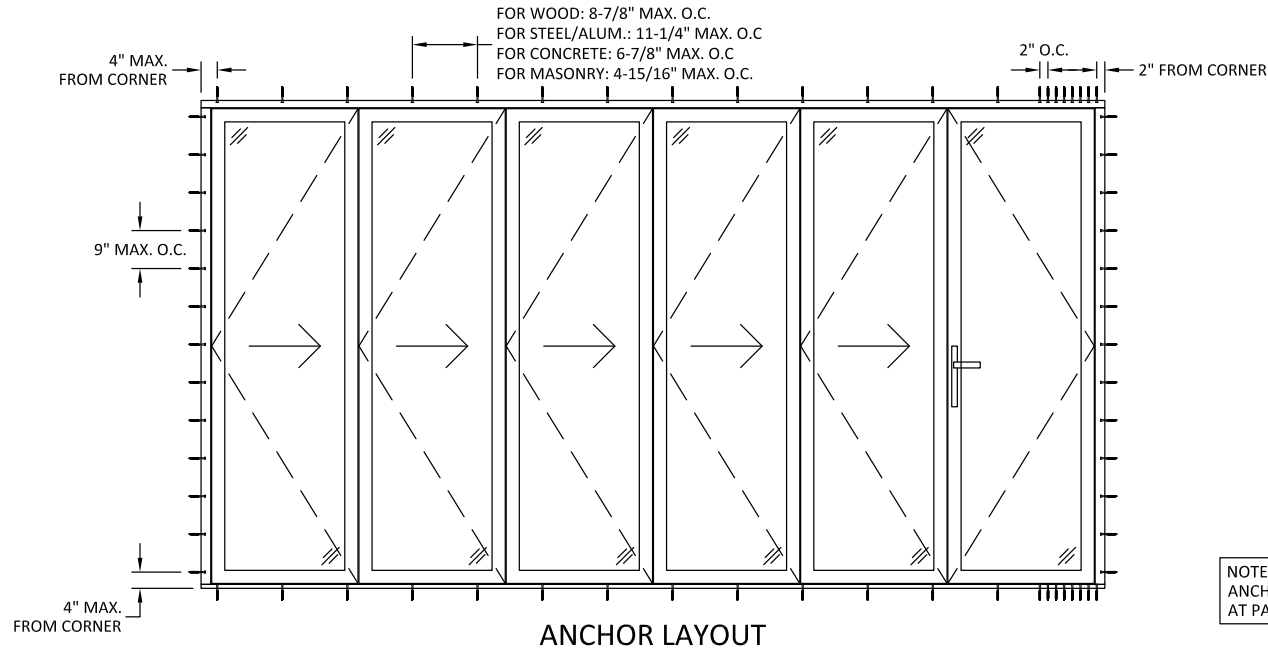
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 FSP CERT. OF AUTHORIZATION No. 29578

FL #:	FL42307
DATE:	08.14.2023
DWG. BY:	MS
CHK. BY:	HN
SCALE:	NTS
DWG. #:	PAD010
SHEET:	2



NOTE:
ANCHOR CLUSTER SHOWN IS REQUIRED
AT PANEL STACKING LOCATION.

COASTAL STORM DOOR CONFIGURATION TABLE										
PANEL QUANTITY	QUALIFIED CONFIGURATIONS									
	2	1L1R	2L	2R	-	-	-	-	-	-
	3	1L2R	2L1R	3L	3R	-	-	-	-	-
	4	1L3R	2L2R	3L1R	4L	4R	-	-	-	-
	5	1L4R	2L3R	3L2R	4L1R	5L	5R	-	-	-
	6	1L5R	2L4R	3L3R	4L2R	5L1R	6L	6R	-	-
	7	1L6R	2L5R	3L4R	4L3R	5L2R	6L1R	7L	7R	-
	8	1L7R	2L6R	3L5R	4L4R	5L3R	6L2R	7L1R	8L	8R
	9	1L8R	2L7R	3L6R	4L5R	5L4R	6L3R	7L2R	8L1R	-
	10	2L8R	3L7R	4L6R	5L5R	6L4R	7L3R	8L2R	-	-
	11	3L8R	4L7R	5L6R	6L5R	7L4R	8L3R	-	-	-
	12	4L8R	5L7R	6L6R	7L5R	8L4R	-	-	-	-
	13	5L8R	6L7R	7L6R	8L5R	-	-	-	-	-
	14	6L8R	7L7R	8L6R	-	-	-	-	-	-
	15	7L8R	8L7R	-	-	-	-	-	-	-
	16	8L8R	-	-	-	-	-	-	-	-

COASTAL STORM DOOR DESIGN PRESSURE TABLE (+/- PSF)											
DOOR PANEL HEIGHT (IN.)	DOOR PANEL WIDTH (IN.)										
		24	27	30	33	36	39	42	45	48	51
	78	70.00	70.00	70.00	70.00	70.00	63.54	58.17	53.64	49.76	46.40
	84	70.00	70.00	70.00	70.00	70.00	63.54	58.17	53.64	49.76	-
	90	70.00	70.00	70.00	70.00	70.00	63.54	58.17	53.64	-	-
	96	70.00	70.00	70.00	70.00	70.00	63.54	58.17	-	-	-
	102	70.00	70.00	70.00	70.00	70.00	63.54	-	-	-	-
	108	70.00	70.00	70.00	70.00	70.00	-	-	-	-	-
	114	70.00	70.00	70.00	70.00	70.00	-	-	-	-	-
	116.75	70.00	70.00	70.00	70.00	70.00	-	-	-	-	-

NOTE:
DOOR OVERALL FRAME AREA SHALL NOT
EXCEED 279.2 FT².



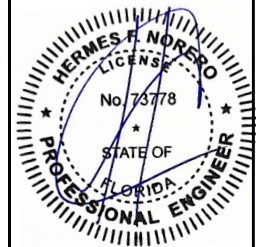
15050 FRYE ROAD
FORT WORTH, TX 76155
PH: (817) 952-3500

TITLE: COASTAL STORM DOOR
(HVHZ) (IMPACT)
ANCHOR LAYOUT, QUALIFIED
CONFIGURATIONS, & DP TABLE
PREPARED BY:
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REMARKS	BY	DATE

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DANIA BEACH, FL 33004
FSPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL42307**

DATE: **08.14.2023**

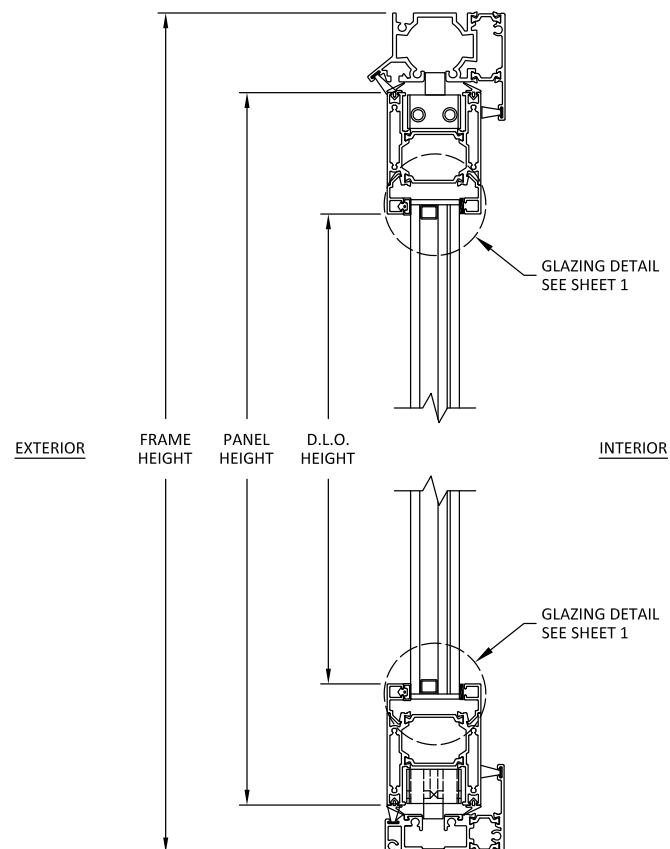
DWG. BY: **MS** CHK. BY: **HN**

SCALE: **NTS**

DWG. #: **PAD010**

SHEET:
3

8/14/2023 5:45 PM
a:\projects\panoramic doors\1702-22-012- Rte submittal - aluminum door window & connection\dwg\pad010.dwg



A
4 VERTICAL SECTION
COASTAL STORM DOOR



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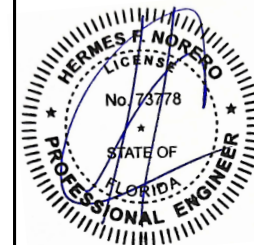
TITLE:
COASTAL STORM DOOR
(HVHZ) (IMPACT)
VERTICAL SECTIONS

PREPARED BY:
BUILDING DROPS, INC.
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DWG. BY: **MS** CHK. BY: **HN**

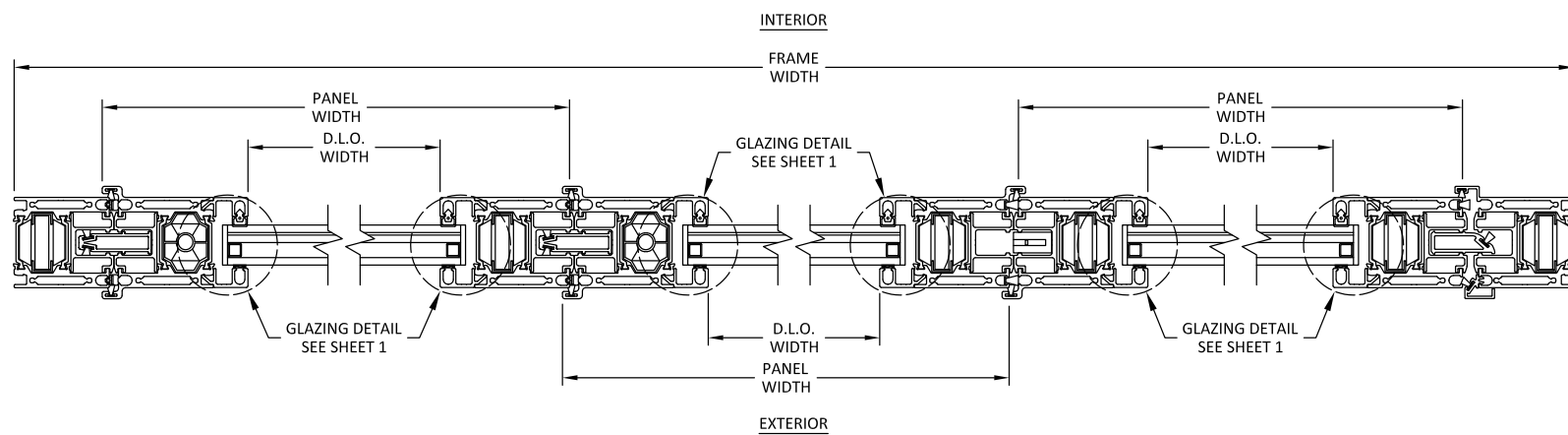
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DWG. #: **PAD010**

SHEET:
4

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3:\projects\panoramic doors\1702-22-012- Rls submital aluminum door window 16 connection\dwg\pad010.dwg



- B** **5** **HORIZONTAL SECTION**
SLIDING JAMB
- C** **5** **HORIZONTAL SECTION**
INTERMEDIATE STILE
- D** **5** **HORIZONTAL SECTION**
MEETING STILE
- E** **5** **HORIZONTAL SECTION**
HINGE JAMB



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TITLE: COASTAL STORM DOOR (HVHZ) (IMPACT)
HORIZONTAL SECTIONS

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HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
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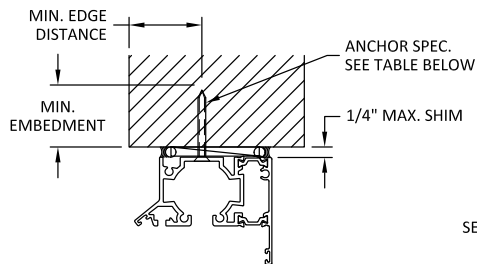
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SCALE: NTS

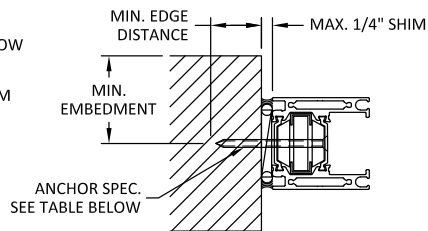
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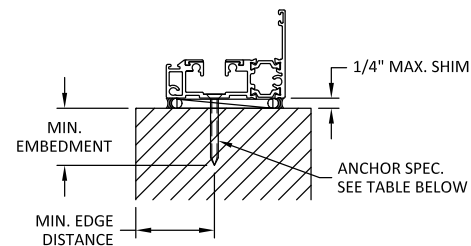
5



F
6 INSTALLATION DETAILS
HEAD



G
6 INSTALLATION DETAILS
JAMB



H
6 INSTALLATION DETAILS
SILL

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/4$ INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR MASONRY OR CONCRETE OPENINGS, A 1X WOOD BUCK MAY BE USED (OPTIONAL) AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.

ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	WOOD: MIN. S.G. = 0.55	#8 FH WOOD SCREW	1.5"	1"
	STEEL: MIN. 16 GA. MIN. Fy = 36 ksi	#8 GRADE 5 FH SELF-DRILLING/ SELF-TAPPING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.5"
	ALUMINUM: MIN. 1/8" THICK MIN. 6063-T5			
	CONCRETE: MIN. f'c = 3000 psi	3/16" FH ITW TAPCON	1.5"	2.125"
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI		1"	2"

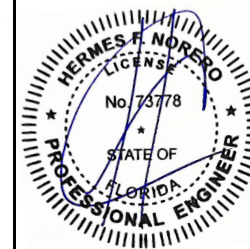


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SCALE: **NTS**

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SHEET:
6



398 E DANIA BEACH BLVD. SUITE 338, DANIA BEACH, FL 33004

Product Evaluation Report

of

**Panoramic Doors
Coastal Storm Door
(HVHZ) (Impact)**

for

Florida Product Approval

FL# FL42307

Report No. 8709

Current Florida Building Code

Method:	1 – D (Engineering Evaluation)
Category:	Exterior Doors
Sub – Category:	Swinging Exterior Door Assemblies
Product:	Coastal Storm Door
Materials:	Aluminum 6063-T6
Product Dimensions:	See Installation Instructions, PAD010

Prepared for:

**Panoramic Doors
15050 Frye Road
Fort Worth, TX 76155**

Prepared by:

Hermes F. Norero, P.E.

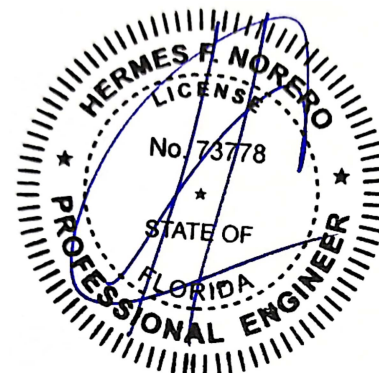
Florida Professional Engineer # 73778

Date: 08/14/2023

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Hermes F. Norero, P.E.
Florida No. 73778

Manufacturer: Panoramic Doors

Product Category: Exterior Doors

Product Sub-Category: Swinging Exterior Door Assemblies

Compliance Method: State Product Approval Method (1)(d)

Product Name: Coastal Storm Door
(HVHZ) (Impact)

Scope: This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **Panoramic Doors** based on Method 1d of the State of Florida Product Approval, Department of Business and Professional Regulation - Florida Building Commission.

Hermes F. Norero, P.E. does not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein.

This product has been evaluated for use in locations adhering to the current Florida Building Code.

See Installation Instructions **PAD010**, signed and sealed by Hermes F. Norero, P.E. (FL # 73778) for specific use parameters.

Limits of Use:

1. This product has been evaluated and is in compliance with the current Florida Building Code, **including** the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment into substrate material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product complies with Chapter 16 of the current Florida Building Code and **does not require** an impact resistant covering.
4. Site conditions that deviate from the details of installation instructions **PAD010** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **PAD010** for size and design pressure limitations.

Quality Assurance: The manufacturer has demonstrated compliance of manufacture of products in accordance with the current Florida Building Code for manufacturing under a quality assurance program audited by an approved quality assurance entity through **Keystone Certifications, Inc.** (FBC Organization # QUA1824)

Performance Standards: The product described herein has been tested per:

- TAS 201-94
- TAS 202-94
- TAS 203-94

Referenced Data:

1. Product Testing performed by **Architectural Testing, Inc. (an Intertek company) - Plano, TX**
(FBC Organization # TST1910)
Report #: Q1572.01-801-18, Report Date: 08/14/23
Report Signed and Sealed by Tyler Westerling, FL PE No. 72012
2. Material Certification
Miami-Dade County Notice of Acceptance
Kuraray America, Inc. (Previously DuPont)
SentryGlas Interlayer

Installation:

Refer to Installation Instructions (**PAD010**) for anchor spacing and more details of the installation requirements.

Design Pressure:

Refer to Installation Instructions (**PAD010**) for design pressures based on size, configuration, and glass types.