



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

PGT Industries, Inc.
1070 Technology Drive
North Venice, FL 34275

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 Florida Building Code, including the High Velocity Hurricane Zone.-

DESCRIPTION: Series "PW-220" Aluminum Fixed Window – N.I.

APPROVAL DOCUMENT: Drawing No. **MD-PW220-01** titled "Fixed Window Installation Guidelines", sheets 1 through 8 of 8, dated 04/01/11, with revision **C** dated 04/22/16, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, 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: None.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and 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 **NOA# 15-0609.08** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



MP
6/10/16

NOA No. 16-0505.03
Expiration Date: August 18, 2021
Approval Date: June 16, 2016
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 11-0509.02)
2. Drawing No. **MD-PW220-01** titled "Fixed Window Installation Guidelines", sheets 1 through 8 of 8, dated 04/01/11, with revision **C** dated 04/22/16, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6482**, dated 03/24/11, signed and sealed by Marlin D. Brinson, P.E.
(Submitted under NOA No. 11-0509.02)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014)**, dated 05/29/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under previous NOA No. 15-0609.08)
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 16-0505.03

Expiration Date: August 18, 2021
Approval Date: June 16, 2016

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, dated May 2, 2016, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest, dated May 2, 2016, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
3. Laboratory compliance letter for Test Report No. **FTL-6482**, issued by Fenestration Testing Laboratory, Inc., dated 03/24/11, signed and sealed by Marlin D. Brinson, P.E. *(Submitted under NOA No. 11-0509.02)*

G. OTHERS

1. Notice of Acceptance No. **15-0609.08**, issued to PGT Industries, Inc. for their Series "PW-220" Aluminum Fixed Window - N.I., approved on 08/13/15 and expiring on 08/18/16.


Manuel Perez, P.E.
Product Control Examiner

NOA No. 16-0505.03

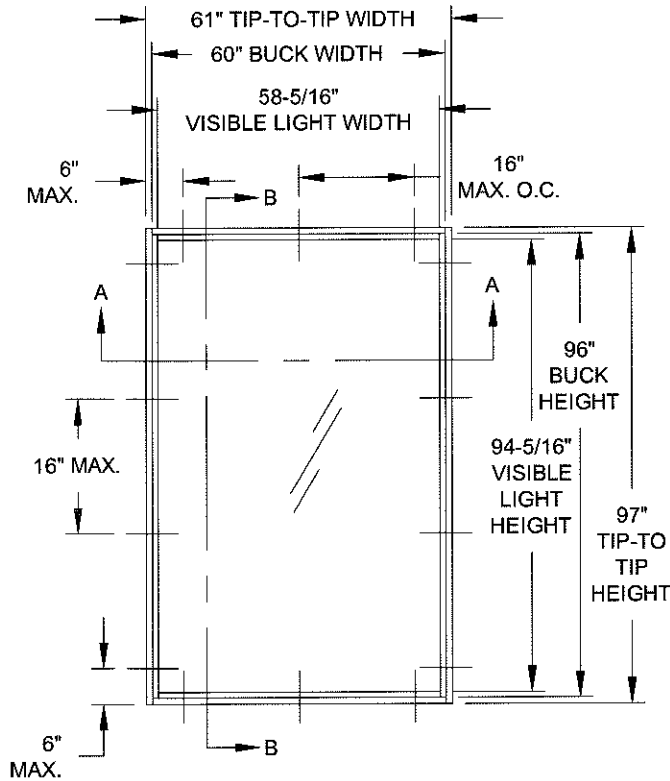
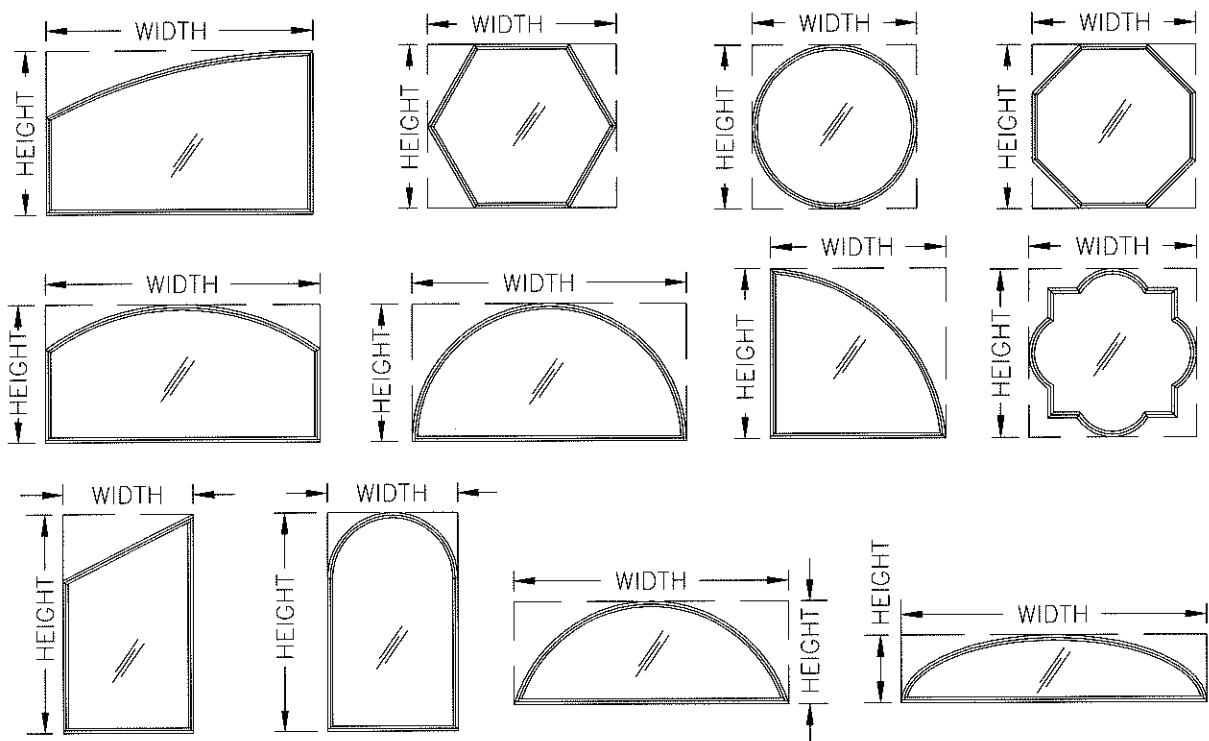
Expiration Date: August 18, 2021

Approval Date: June 16, 2016

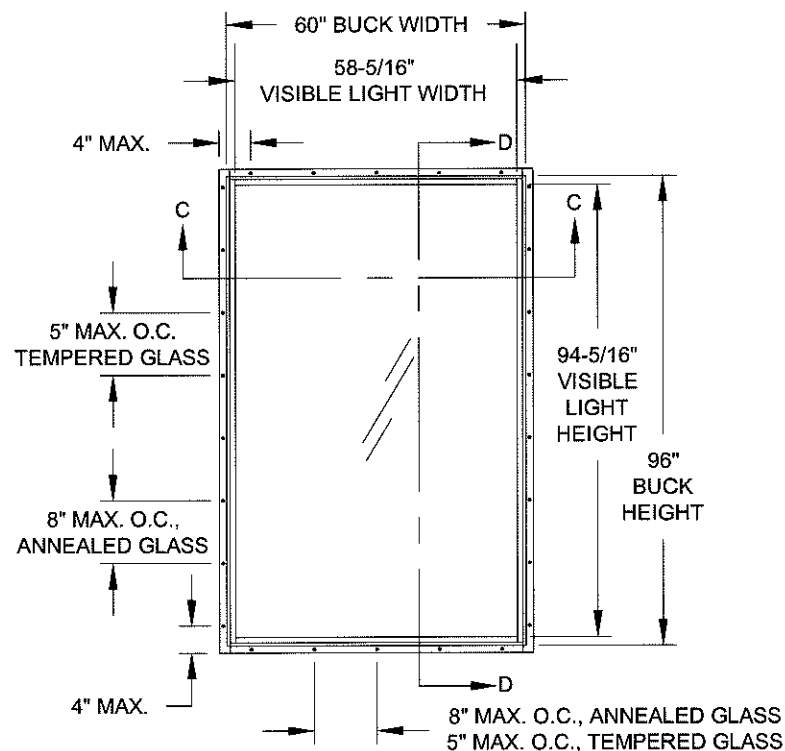
GENERAL NOTES: SERIES 220 NON-IMPACT FIXED WINDOW

- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED MASONRY ANCHORS. MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE, SEE TABLE 3, SHEET 3.
- 4) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 1, SHEET 6. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
- 5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH AS SPECIFIED ON TABLE 3 & 4, SHEET 3 & 4. NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME. INSTALLATION ANCHORS SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 6) SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.
- 7) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
- 8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.
- 9) REFERENCES: TEST REPORTS FTL-6482; ULTRACON NOA; ELCO CRETEFLEX NOA; ANSI/AF&PA NDS FOR WOOD CONSTRUCTION AND ADM ALUMINUM DESIGN MANUAL.
- 10) THE 220 SERIES FIXED WINDOW WAS FORMERLY KNOWN AS THE 6000 SERIES (FLANGE FRAME) OR 6001 SERIES (FIN FRAME).

SHAPES AS SHOWN BELOW OR SIMILAR, MAY BE USED BY INSCRIBING THE SHAPE IN A BLOCK AND OBTAINING DESIGN PRESSURES FOR THAT BLOCK SIZE FROM THE TABLES ON SHEET 2.



TYP. FLANGED FRAME ELEVATION
(TESTED UNIT)



TYP. INTEGRAL FIN FRAME ELEVATION
(TESTED UNIT)

GUIDE TO TABLES:

WINDOW SHAPE	GLASS TYPE	DP TABLE	O.C. TABLE
SQUARE OR RECTANGULAR	ANNEALED	1	5
SQUARE OR RECTANGULAR	TEMPERED	2	6
ARCHITECTURAL SHAPE	ANNEALED	1	7
ARCHITECTURAL SHAPE	TEMPERED	2	8

STANDARDS USED:

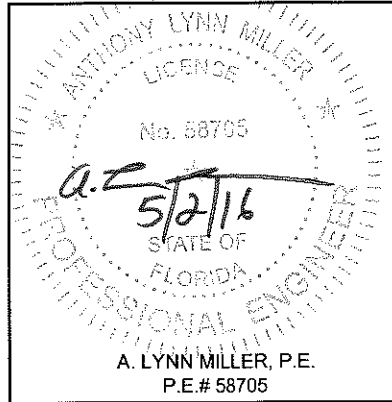
- 2014 FLORIDA BUILDING CODE (FBC), 5TH EDITION
- ASTM E1300-09
- ANSI/AF&PA NDS-2012 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2010
- AISI-S100-07/S2-2010

DESIGN PRESSURE RATING	IMPACT RATING
VARIES, SEE SHEET 2	NOT RATED FOR IMPACT RESISTANCE

GUIDE TO SHEETS:

GENERAL NOTES.....	1
ELEVATIONS.....	1
GLAZING DETAILS.....	2
DESIGN PRESSURES.....	2
INSTALLATION, FLANGE.....	3
INSTALLATION, INTEGRAL FIN..	4
ANCHOR SPACING, AN.....	5
ANCHOR SPACING, TEMP.....	6
ANCHOR SPACING, SHAPES.....	7
CORNER ASSEMBLY.....	8
EXTRUSION PROFILES.....	8
PARTS LIST.....	8

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 16-0505.03 Expiration Date Aug. 18, 2021 By Manuel Perez Miami Dade Product Control



PGT

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

CERT. OF AUTH. #29296

Revised By: JR	Date: 04/22/16	Revision: ADDED IG SPACERS
Revised By:	Date:	Revision:
Description: GENERAL NOTES & ELEVATION		Drawn By: J ROSOWSKI
Title: FIXED WINDOW INSTALLATION GUIDELINES		Date: 4/01/11
Series/Model: PW-220	Scale: NTS	Sheet: 1 OF 8
Drawing No. MD-PW220-01		Rev: C

TABLE 1:

Design Pressure (psf) for all Frame Types				Glass : 3/16" or 1/4" Annealed Glass, Monolithic or Insulated										Frame: All Frame Shapes					
Long Side (in) ⇨	53.665	55	57	60	62	65	68	72	75	80	84	90	96	102	110	120	130	144	145
Short Side (in)	19	+/- 74.2	+/- 73.8	+/- 73.3	+/- 72.6	+/- 72.1	+/- 71.5	+/- 71.0	+/- 70.4	+/- 69.9	+/- 69.3	+/- 68.9	+/- 68.3	+/- 67.8	+/- 67.4	+/- 66.9	+/- 66.3	+/- 65.9	+/- 65.4
	20	+/- 71.3	+/- 70.9	+/- 70.4	+/- 69.6	+/- 69.2	+/- 68.6	+/- 68.0	+/- 67.4	+/- 67.0	+/- 66.3	+/- 65.9	+/- 65.3	+/- 64.8	+/- 64.3	+/- 63.8	+/- 63.3	+/- 62.9	+/- 62.4
	22	+/- 66.4	+/- 65.9	+/- 65.4	+/- 64.6	+/- 64.1	+/- 63.5	+/- 62.9	+/- 62.3	+/- 61.8	+/- 61.2	+/- 60.7	+/- 60.1	+/- 59.6	+/- 59.1	+/- 58.6	+/- 58.1	+/- 57.6	
	24	+/- 62.3	+/- 61.9	+/- 61.3	+/- 60.5	+/- 60.0	+/- 59.3	+/- 58.7	+/- 58.0	+/- 57.6	+/- 56.9	+/- 56.4	+/- 55.8	+/- 55.3	+/- 54.8	+/- 54.1	+/- 52.7		
	26	+/- 58.9	+/- 58.5	+/- 57.8	+/- 57.0	+/- 56.5	+/- 55.8	+/- 55.2	+/- 54.4	+/- 53.4	+/- 52.5	+/- 50.9	+/- 49.9	+/- 48.4	+/- 47.5	+/- 46.7	+/- 45.6		
	28	+/- 56.1	+/- 55.6	+/- 54.9	+/- 54.1	+/- 53.5	+/- 51.5	+/- 49.5	+/- 47.6	+/- 46.6	+/- 44.4	+/- 43.2	+/- 41.5	+/- 40.6	+/- 39.9				
	30	+/- 53.7	+/- 53.2	+/- 52.5	+/- 51.6	+/- 50.6	+/- 47.8	+/- 45.5	+/- 42.7	+/- 41.6	+/- 39.9	+/- 38.8	+/- 37.1	+/- 35.9					
	32	+/- 51.7	+/- 51.2	+/- 50.4	+/- 49.5	+/- 48.7	+/- 45.9	+/- 42.8	+/- 40.4	+/- 39.2	+/- 37.0	+/- 35.4	+/- 33.2						
	34	+/- 50.0	+/- 49.4	+/- 48.6	+/- 47.6	+/- 47.0	+/- 44.6	+/- 41.6	+/- 39.3	+/- 37.7	+/- 34.9	+/- 32.9							
	36	+/- 48.5	+/- 47.9	+/- 47.1	+/- 46.1	+/- 45.4	+/- 44.2	+/- 41.2	+/- 38.8	+/- 37.0	+/- 33.7								
	38	+/- 47.3	+/- 46.7	+/- 45.8	+/- 44.7	+/- 44.0	+/- 43.2	+/- 41.0	+/- 38.4	+/- 36.6									
	40	+/- 46.3	+/- 45.6	+/- 44.7	+/- 43.5	+/- 42.8	+/- 41.9	+/- 40.8	+/- 38.3										
	42	+/- 45.4	+/- 44.7	+/- 43.8	+/- 42.5	+/- 41.8	+/- 40.8	+/- 40.0											
	44	+/- 44.7	+/- 44.0	+/- 43.0	+/- 41.6	+/- 40.9	+/- 39.9												
	46	+/- 44.2	+/- 43.4	+/- 42.3	+/- 40.9	+/- 40.1													
	48	+/- 43.7	+/- 42.9	+/- 41.8	+/- 40.3														
	50	+/- 43.5	+/- 42.6	+/- 41.3															
	52	+/- 43.3	+/- 42.3																
	53.665	+/- 43.3																	

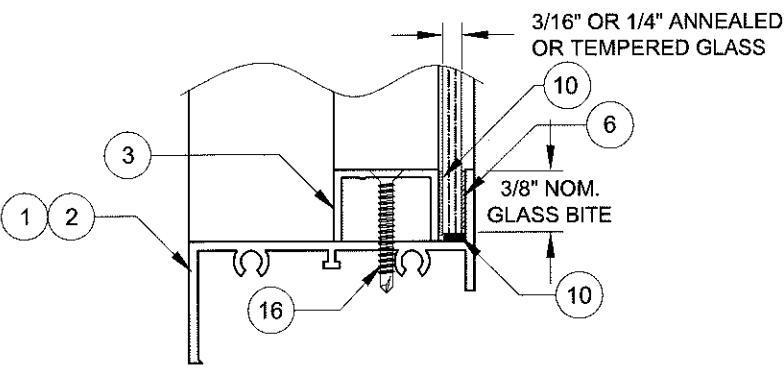
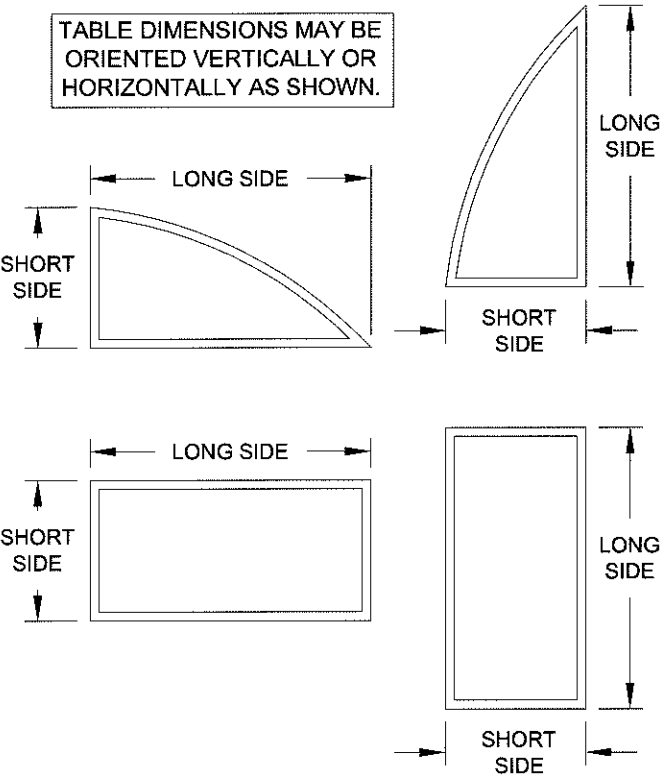
TABLE 2:

Design Pressure (psf) for all Frame Types					Glass : 3/16" or 1/4" Tempered Glass, Monolithic or Insulated											Frame: All Frame Shapes					
Long Side (in) ⇐		75.894	77	80	82	84	87	90	92	96	99	102	106	110	115	120	125	130	137	144	145
Short Side (in)	39	+/- 85.4	+/- 85.0	+/- 83.9	+/- 83.3	+/- 82.6	+/- 81.8	+/- 81.0	+/- 80.5	+/- 79.6	+/- 79.0	+/- 78.5	+/- 77.8	+/- 77.1	+/- 76.4	+/- 75.8	+/- 75.2	+/- 74.7	+/- 74.0	+/- 73.4	+/- 73.3
	40	+/- 84.0	+/- 83.6	+/- 82.5	+/- 81.8	+/- 81.2	+/- 80.3	+/- 79.5	+/- 79.1	+/- 78.2	+/- 77.5	+/- 77.0	+/- 76.3	+/- 75.6	+/- 74.9	+/- 74.2	+/- 73.7	+/- 73.1	+/- 72.4	+/- 71.8	
	42	+/- 81.5	+/- 81.0	+/- 79.9	+/- 79.2	+/- 78.6	+/- 77.7	+/- 76.9	+/- 76.4	+/- 75.4	+/- 74.8	+/- 74.2	+/- 73.5	+/- 72.8	+/- 72.1	+/- 71.4	+/- 70.8	+/- 70.3	+/- 69.6		
	44	+/- 79.2	+/- 78.7	+/- 77.6	+/- 76.9	+/- 76.2	+/- 75.3	+/- 74.4	+/- 73.9	+/- 73.0	+/- 72.3	+/- 71.7	+/- 71.0	+/- 70.3	+/- 69.6	+/- 68.9	+/- 68.3	+/- 67.7			
	46	+/- 77.2	+/- 76.7	+/- 75.5	+/- 74.8	+/- 74.1	+/- 73.1	+/- 72.3	+/- 71.7	+/- 70.8	+/- 70.1	+/- 69.5	+/- 68.7	+/- 68.0	+/- 67.2	+/- 66.6	+/- 65.9				
	48	+/- 75.4	+/- 74.9	+/- 73.7	+/- 72.9	+/- 72.2	+/- 71.2	+/- 70.3	+/- 69.8	+/- 68.7	+/- 68.1	+/- 67.4	+/- 66.6	+/- 65.9	+/- 65.2	+/- 64.4					
	50	+/- 73.8	+/- 73.3	+/- 72.0	+/- 71.2	+/- 70.5	+/- 69.5	+/- 68.5	+/- 68.0	+/- 66.9	+/- 66.2	+/- 65.6	+/- 64.8	+/- 64.1	+/- 63.2						
	52	+/- 72.4	+/- 71.9	+/- 70.5	+/- 69.7	+/- 68.9	+/- 67.9	+/- 66.9	+/- 66.3	+/- 65.3	+/- 64.5	+/- 63.9	+/- 63.1	+/- 62.3							
	54	+/- 71.1	+/- 70.6	+/- 69.2	+/- 68.3	+/- 67.5	+/- 66.5	+/- 65.5	+/- 64.9	+/- 63.8	+/- 63.0	+/- 62.3	+/- 61.5								
	56	+/- 70.0	+/- 69.4	+/- 68.0	+/- 67.1	+/- 66.3	+/- 65.2	+/- 64.2	+/- 63.5	+/- 62.4	+/- 61.6	+/- 60.9									
	58	+/- 69.1	+/- 68.4	+/- 66.9	+/- 66.0	+/- 65.2	+/- 64.0	+/- 63.0	+/- 62.3	+/- 61.1	+/- 60.3										
	60	+/- 68.2	+/- 67.6	+/- 66.0	+/- 65.0	+/- 64.2	+/- 63.0	+/- 61.9	+/- 61.2	+/- 60.0											
	62	+/- 67.5	+/- 66.8	+/- 65.2	+/- 64.2	+/- 63.3	+/- 62.0	+/- 60.9	+/- 60.2												
	64	+/- 66.9	+/- 66.2	+/- 64.4	+/- 63.4	+/- 62.5	+/- 61.2	+/- 60.0													
	66	+/- 66.3	+/- 65.6	+/- 63.8	+/- 62.7	+/- 61.8	+/- 60.4														
	68	+/- 65.9	+/- 65.2	+/- 63.3	+/- 62.2	+/- 61.1															
	70	+/- 65.6	+/- 64.8	+/- 62.9	+/- 61.7																
	72	+/- 65.4	+/- 64.6	+/- 65.5																	
	74	+/- 65.3	+/- 64.4																		
	75.894	+/- 65.2																			

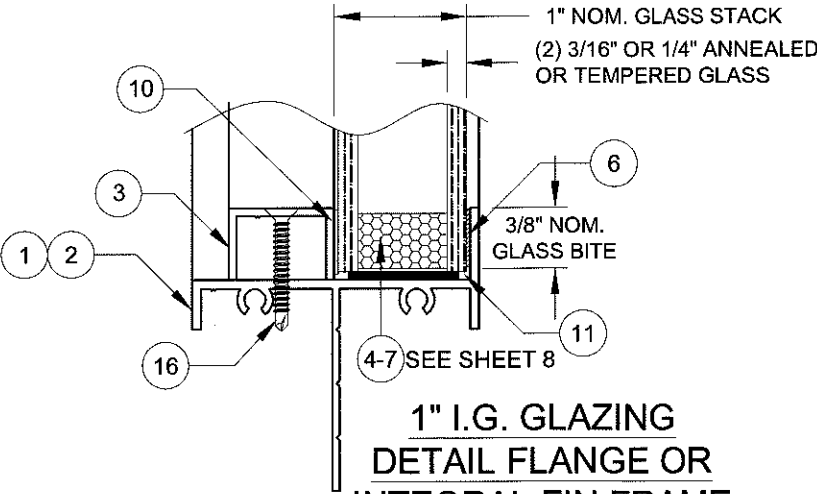
NOTE

1) TIP-TO-TIP DIMENSIONS FOR FLANGE WINDOWS SHOWN. FOR FIN WINDOWS OR BUCK DIMENSIONS, SUBTRACT 1".

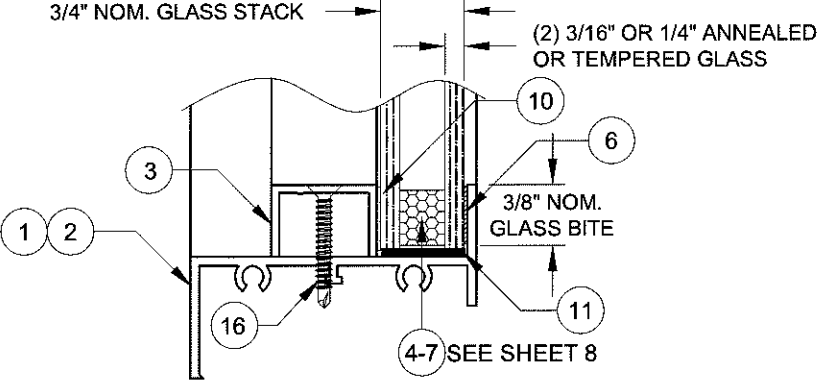
TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.



MONOLITHIC GLAZING DETAIL
FLANGE OR INTEGRAL FIN FRAME
(FLANGE FRAME SHOWN)



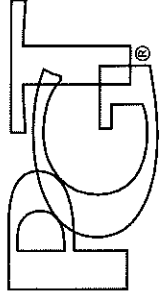
1" I.G. GLAZING
DETAIL FLANGE OR
INTEGRAL FIN FRAME
(INTEGRAL FIN FRAME SHOWN)



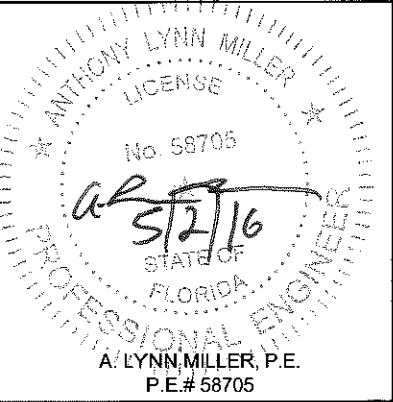
3/4" I.G. GLAZING DETAIL
FLANGE OR INTEGRAL FIN FRAME
(FLANGE FRAME SHOWN)

PRODUCT REVISED
as complying with the Florida
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By *Manuel Perez*
Miami Dade Product Control

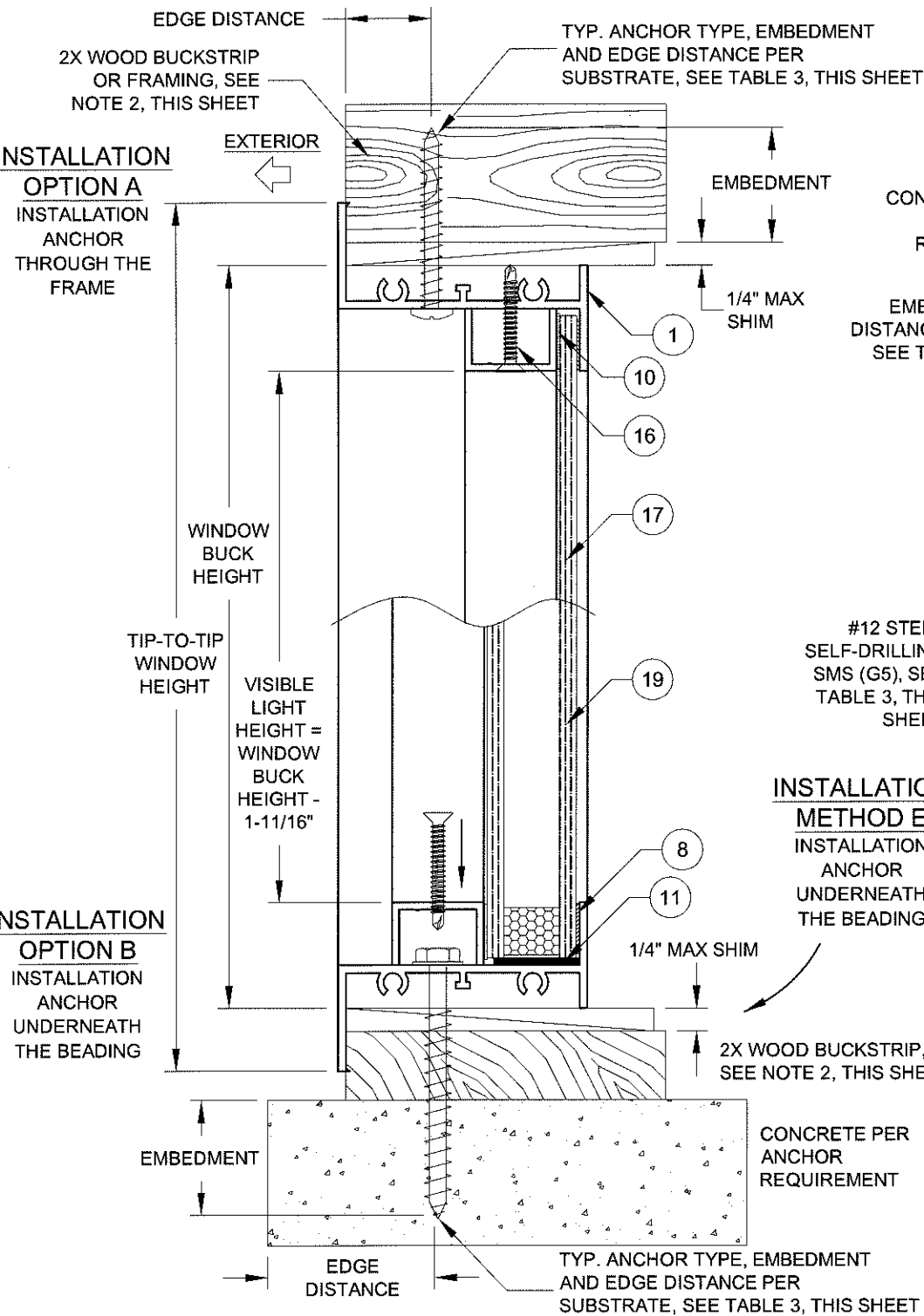
Drawn By: J ROSOWSKI	Drawn Date: 4/01/11
Revised By: JR	Revised Date: 04/22/16
Description: DESIGN PRESSURE & GLASS TYPES	
Title: FIXED WINDOW INSTALLATION GUIDELINES	
Sheet: 2 OF 8	Drawing No. MD-PW220-01
Scale: NTS	Series/Model: PW-220
Rev: C	



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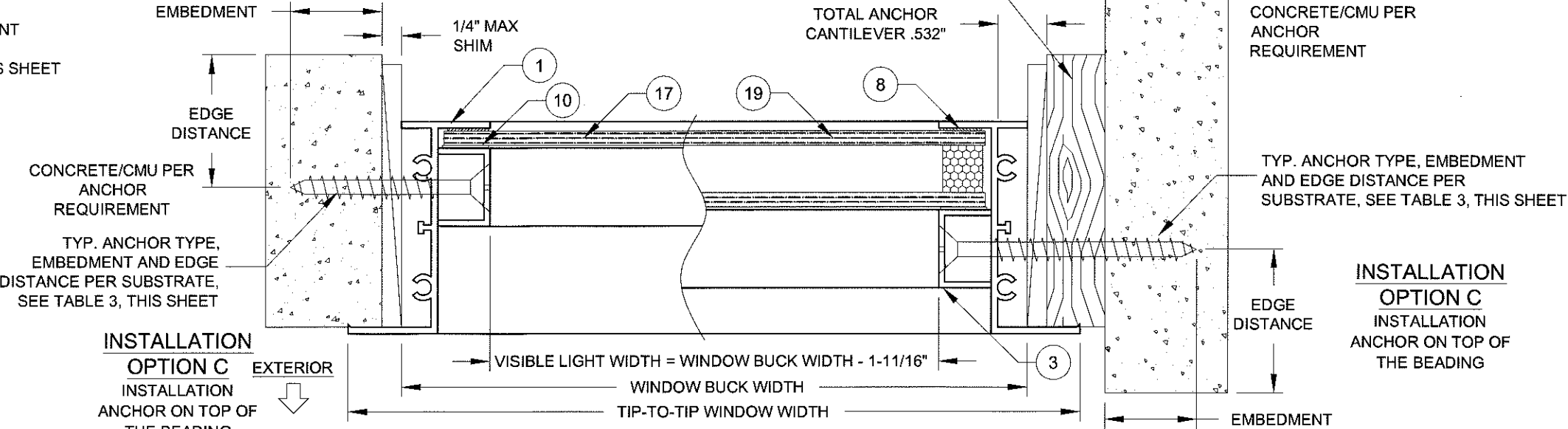
INSTALLATION DETAILS FOR FLANGE FRAMES



VERTICAL SECTION B-B

NOTES

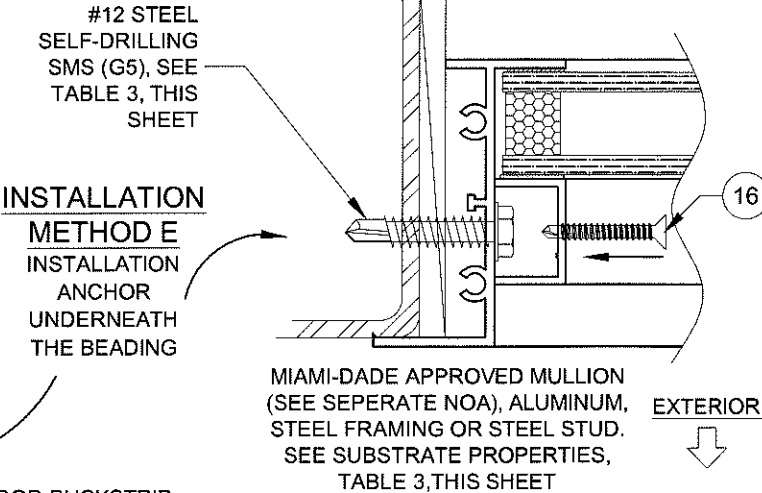
- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 3 OF THIS SHEET. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 3, THIS SHEET. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
- 3) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.



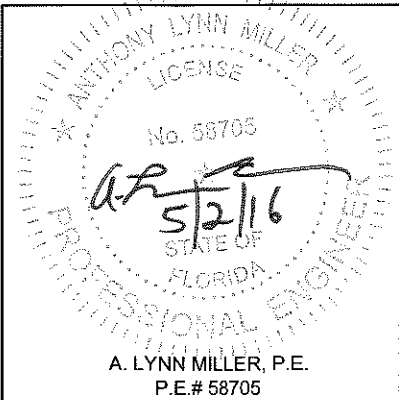
HORIZONTAL SECTION A-A

TABLE 3:

Anchor Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment
A	1/4" 410 SS CreteFlex	Concrete (min. 3.35 ksi)	1-3/4"	1"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
B	1/4" Steel Ultracon #12 Steel Screw (G5)	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
		P.T. Southern Pine (SG = .55)	9/16"	1-3/8"
		Aluminum, 6063-T5 min.	3/8"	1/8"
		Steel Stud, Gr. 33 min.	3/8"	0.0346" (20 Ga)
C	1/4" 410 SS CreteFlex 1/4" Steel Ultracon	A36 Steel	3/8"	1/8"
		P.T. Southern Pine (SG = .55)	1"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
		P.T. Southern Pine (SG = .55)	1"	1-3/8"
		Concrete (min. 2.7 ksi)	1"	1-3/8"



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0505.03
Expiration Date Aug. 18, 2021
By: *Manuel Rosowski*
Miami-Dade Product Control



1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
JR	04/22/16	NO CHANGE THIS SHEET
Revised By:	Date:	Revision:

Description:		Drawn By:	
FLANGE FRAME INSTALLATION DETAILS		J ROSOWSKI	
Title:		Date:	
FIXED WINDOW INSTALLATION GUIDELINES		4/01/11	
Series/Model:	Scale:	Sheet:	Drawing No.
PW-220	NTS	3 OF 8	MD-PW220-01
		Rev:	C

INSTALLATION DETAILS FOR FIN FRAMES

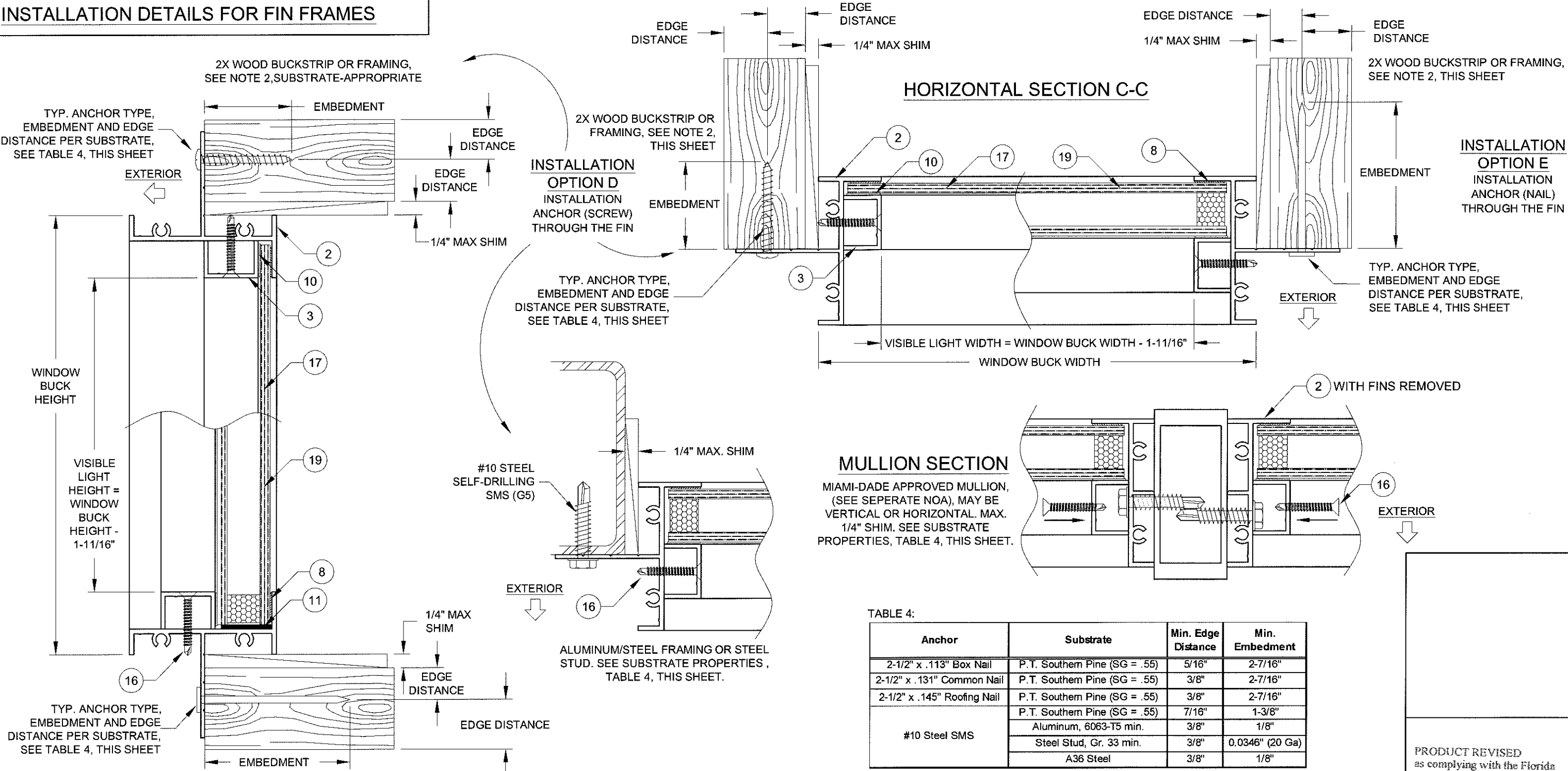


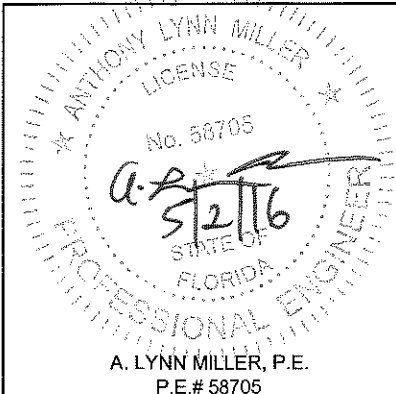
TABLE 4:

Anchor	Substrate	Min. Edge Distance	Min. Embedment
2-1/2" x .113" Box Nail	P.T. Southern Pine (SG = .55)	5/16"	2-7/16"
2-1/2" x .131" Common Nail	P.T. Southern Pine (SG = .55)	3/8"	2-7/16"
2-1/2" x .145" Roofing Nail	P.T. Southern Pine (SG = .55)	3/8"	2-7/16"
#10 Steel SMS	P.T. Southern Pine (SG = .55)	7/16"	1-3/8"
	Aluminum, 6063-T5 min.	3/8"	1/8"
	Steel Stud, Gr. 33 min.	3/8"	0.0346" (20 Ga)
	A36 Steel	3/8"	1/8"

INSTALLATION
OPTION E
INSTALLATION
ANCHOR (NAIL)
THROUGH THE FIN

VERTICAL SECTION D-D

- NOTES
- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 4 OF THIS SHEET. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
 - 2) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.



1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
JR	04/22/16	NO CHANGE THIS SHEET
Revised By:	Date:	Revision:

Description:
FIN FRAME INSTALLATION DETAILS

Title:
FIXED WINDOW INSTALLATION GUIDELINES

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
PW-220	NTS	4 OF 8	MD-PW220-01	C

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 16-050503
Expiration Date Aug 18, 2021
By Manuel Perez
Miami Dade Product Control

Drawn By:
J ROSOWSKI

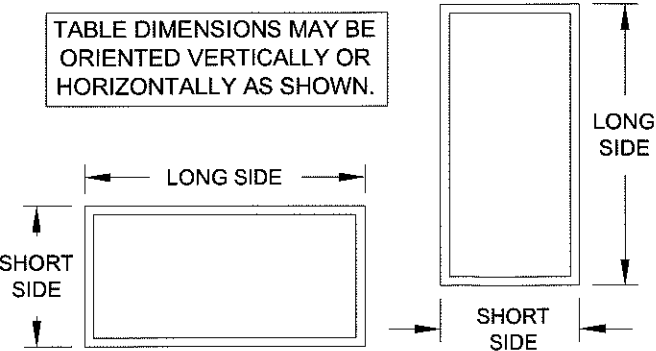
Date:
4/01/11

TABLE 5:

Maximum Anchor Spacing Allowed, (in)				Glass: 3/16" or 1/4" Annealed Glass, Monolithic or Insulated												Frame: Square or Rectangular									
Long Side (in) ⇒			53.67		55		57		60		62	65	68	72	75	80	84	90	96	102	110	120	130	144	145
Anchor Group ⇒			A	B & C	A	B & C	A	B & C	A	B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C
Short Side (in)	19	Short Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Long Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	20	Short Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Long Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	22	Short Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Long Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	24	Short Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Long Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	26	Short Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Long Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	28	Short Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Long Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	30	Short Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Long Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	32	Short Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Long Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	34	Short Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Long Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	36	Short Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Long Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	38	Short Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Long Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	40	Short Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Long Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	42	Short Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Long Side	15.9	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	44	Short Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Long Side	15.4	16	15.6	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	46	Short Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Long Side	14.9	16	15.2	16	15.5	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	48	Short Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Long Side	14.4	16	14.7	16	15.1	16	15.6	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	50	Short Side	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Long Side	13.9	16	14.2	16	14.6	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	52	Short Side	15.8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Long Side	13.4	16	13.7	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	53.7	Short Side	15.2	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Long Side	15.2	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16

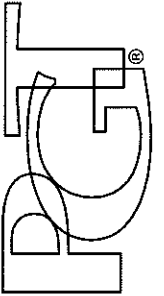
NOTES

- 1) USE THIS TABLE FOR ALL SQUARE OR RECTANGULAR WINDOWS THAT ARE GLAZED WITH ANNEALED GLASS.
- 2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
- 3) FOR ARCHITECTURAL SHAPE WINDOWS, USE THE TABLES ON SHEET 7.
- 4) THE WINDOW WIDTH AND HEIGHT MAY BE REVERSED TO OBTAIN A MORE ACCURATE RESULT FROM THE TABLE (SEE FIGURE, THIS SHEET).
- 5) TIP-TO-TIP DIMENSIONS FOR FLANGE WINDOWS SHOWN. FOR FIN WINDOWS OR BUCK DIMENSIONS, SUBTRACT 1".



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0505.03
Expiration Date Aug 18, 2021
By *Manuel Paez*
Miami Dade Product Control

Revised By: JR
Date: 04/22/16
Revision: NO CHANGE THIS SHEET
Drawn By: J ROSOWSKI
Drawn Date: 4/01/11
Description: ANCHOR SPACING, ANN. GLASS
Title: FIXED WINDOW INSTALLATION GUIDELINES
Series/Model: PW-220
Scale: NTS
Sheet: 5 OF 8
Drawing No. MD-PW220-01
Rev: C



1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

CERT. OF AUTH. #29296



TABLE 6:

Maximum Anchor Spacing Allowed, (in)										Glass : 3/16" or 1/4" Tempered Glass, Monolithic or Insulated																		Frame: Square or Rectangular								
Long Side (in) ⇨			75.894			77			80			82			84			87			90			92			96			99						
Anchor Group ⇨			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C							
Short Side (in)	39	Short Side	10.5	16.0	16.0	10.6	16.0	16.0	10.7	16.0	16.0	10.8	16.0	16.0	10.9	16.0	16.0	11.0	16.0	16.0	11.2	16.0	16.0	11.3	16.0	16.0	11.4	16.0	16.0	11.5	16.0	16.0				
		Long Side	9.1	13.8	16.0	9.1	13.9	16.0	9.2	14.1	16.0	9.3	14.2	16.0	9.4	14.3	16.0	9.5	14.4	16.0	9.6	14.6	16.0	9.6	14.7	16.0	9.7	14.8	16.0	9.8	14.9	16.0				
	40	Short Side	10.3	16.0	16.0	10.4	16.0	16.0	10.6	16.0	16.0	10.7	16.0	16.0	10.8	16.0	16.0	10.9	16.0	16.0	11.0	16.0	16.0	11.1	16.0	16.0	11.3	16.0	16.0	11.4	16.0	16.0				
		Long Side	9.0	13.7	16.0	9.0	13.8	16.0	9.2	13.9	16.0	9.2	14.1	16.0	9.3	14.2	16.0	9.4	14.3	16.0	9.5	14.5	16.0	9.6	14.6	16.0	9.7	14.7	16.0	9.8	14.8	16.0				
	42	Short Side	10.0	16.0	16.0	10.1	16.0	16.0	10.3	16.0	16.0	10.4	16.0	16.0	10.5	16.0	16.0	10.6	16.0	16.0	10.7	16.0	16.0	10.8	16.0	16.0	11.0	16.0	16.0	11.1	16.0	16.0				
		Long Side	8.8	13.5	16.0	8.9	13.5	16.0	9.0	13.7	16.0	9.1	13.8	16.0	9.2	13.9	16.0	9.3	14.1	16.0	9.4	14.3	16.0	9.4	14.4	16.0	9.5	14.5	16.0	9.6	14.7	16.0				
	44	Short Side	9.8	16.0	16.0	9.8	16.0	16.0	10.0	16.0	16.0	10.1	16.0	16.0	10.2	16.0	16.0	10.3	16.0	16.0	10.5	16.0	16.0	10.6	16.0	16.0	10.7	16.0	16.0	10.8	16.0	16.0				
		Long Side	8.7	13.2	16.0	8.7	13.3	16.0	8.9	13.5	16.0	8.9	13.6	16.0	9.0	13.7	16.0	9.1	13.9	16.0	9.2	14.1	16.0	9.3	14.1	16.0	9.4	14.3	16.0	9.5	14.5	16.0				
	46	Short Side	9.5	15.6	16.0	9.6	15.7	16.0	9.7	16.0	16.0	9.8	16.0	16.0	9.9	16.0	16.0	10.1	16.0	16.0	10.2	16.0	16.0	10.3	16.0	16.0	10.5	16.0	16.0	10.6	16.0	16.0				
		Long Side	8.5	13.0	16.0	8.6	13.0	16.0	8.7	13.3	16.0	8.8	13.4	16.0	8.9	13.5	16.0	9.0	13.7	16.0	9.1	13.8	16.0	9.2	13.9	16.0	9.3	14.1	16.0	9.4	14.3	16.0				
	48	Short Side	9.2	15.1	16.0	9.3	15.2	16.0	9.5	15.5	16.0	9.6	15.7	16.0	9.7	15.9	16.0	9.9	16.0	16.0	10.0	16.0	16.0	10.1	16.0	16.0	10.3	16.0	16.0	10.4	16.0	16.0				
		Long Side	8.4	12.7	16.0	8.4	12.8	16.0	8.6	13.0	16.0	8.6	13.2	16.0	8.7	13.3	16.0	8.8	13.5	16.0	9.0	13.6	16.0	9.0	13.7	16.0	9.2	13.9	16.0	9.3	14.1	16.0				
	50	Short Side	9.0	14.6	16.0	9.1	14.7	16.0	9.3	15.1	16.0	9.4	15.3	16.0	9.5	15.4	16.0	9.6	15.7	16.0	9.8	16.0	16.0	9.9	16.0	16.0	10.0	16.0	16.0	10.2	16.0	16.0				
		Long Side	8.2	12.5	16.0	8.3	12.6	16.0	8.4	12.8	16.0	8.5	12.9	16.0	8.6	13.1	16.0	8.7	13.3	16.0	8.8	13.4	16.0	8.9	13.5	16.0	9.0	13.8	16.0	9.1	13.9	16.0				
	52	Short Side	8.8	14.2	16.0	8.8	14.3	16.0	9.0	14.6	16.0	9.1	14.8	16.0	9.3	15.0	16.0	9.4	15.3	16.0	9.6	15.5	16.0	9.7	15.7	16.0	9.8	16.0	16.0	10.0	16.0	16.0				
		Long Side	8.0	12.2	16.0	8.1	12.3	16.0	8.2	12.6	16.0	8.3	12.7	16.0	8.4	12.8	16.0	8.6	13.0	16.0	8.7	13.2	16.0	8.8	13.3	16.0	8.9	13.6	16.0	9.0	13.7	16.0				
	54	Short Side	8.5	13.7	16.0	8.6	13.9	16.0	8.8	14.2	16.0	8.9	14.4	16.0	9.0	14.6	16.0	9.2	14.9	16.0	9.4	15.1	16.0	9.5	15.3	16.0	9.6	15.6	16.0	9.8	15.9	16.0				
		Long Side	7.9	12.0	16.0	7.9	12.1	16.0	8.1	12.3	16.0	8.2	12.5	16.0	8.3	12.6	16.0	8.4	12.8	16.0	8.6	13.0	16.0	8.6	13.1	16.0	8.8	13.4	16.0	8.9	13.5	16.0				
	56	Short Side	8.3	13.3	16.0	8.4	13.4	16.0	8.6	13.8	16.0	8.7	14.0	16.0	8.8	14.2	16.0	9.0	14.5	16.0	9.2	14.8	16.0	9.3	14.9	16.0	9.5	15.2	16.0	9.6	15.5	16.0				
		Long Side	7.7	11.7	16.0	7.8	11.8	16.0	7.9	12.1	16.0	8.0	12.2	16.0	8.1	12.4	16.0	8.3	12.6	16.0	8.4	12.8	16.0	8.5	12.9	16.0	8.7	13.2	16.0	8.8	13.3	16.0				
	58	Short Side	8.1	12.9	16.0	8.2	13.1	16.0	8.4	13.4	16.0	8.5	13.6	16.0	8.6	13.8	16.0	8.8	14.1	16.0	9.0	14.4	16.0	9.1	14.6	16.0	9.3	14.9	16.0	9.4	15.1	16.0				
		Long Side	7.6	11.5	15.7	7.6	11.6	15.8	7.8	11.9	16.0	7.9	12.0	16.0	8.0	12.2	16.0	8.1	12.4	16.0	8.3	12.6	16.0	8.4	12.7	16.0	8.5	13.0	16.0	8.6	13.1	16.0				
	60	Short Side	7.9	12.6	16.0	8.0	12.7	16.0	8.2	13.0	16.0	8.3	13.3	16.0	8.5	13.5	16.0	8.6	13.8	16.0	8.8	14.0	16.0	8.9	14.2	16.0	9.1	14.5	16.0							
		Long Side	7.4	11.2	15.3	7.5	11.4	15.5	7.6	11.6	15.8	7.7	11.8	16.0	7.9	12.0	16.0	8.0	12.2	16.0	8.1	12.4	16.0	8.2	12.5	16.0	8.4	12.8	16.0							
	62	Short Side	7.7	12.2	16.0	7.8	12.3	16.0	8.0	12.7	16.0	8.1	12.9	16.0	8.3	13.1	16.0	8.4	13.4	16.0	8.6	13.7	16.0	8.7	13.9	16.0										
		Long Side	7.2	11.0	15.0	7.3	11.1	15.1	7.5	11.4	15.5	7.6	11.6	15.8	7.7	11.7	16.0	7.9	12.0	16.0	8.0	12.2	16.0	8.1	12.3	16.0										
	64	Short Side	7.5	11.9	16.0	7.6	12.0	16.0	7.8	12.3	16.0	7.9	12.6	16.0	8.1	12.8	16.0	8.3	13.1	16.0	8.4	13.4	16.0	8.6	13.7	16.0	8.8	14.0	16.0							
		Long Side	7.1	10.8	14.7	7.1	10.9	14.8	7.3	11.2	15.2	7.5	11.3	15.4	7.6	11.5	15.7	7.7	11.8	16.0	7.9	12.0	16.0													
	66	Short Side	7.3	11.5	16.0	7.4	11.7	16.0	7.6	12.0	16.0	7.8	12.2	16.0	7.9	12.5	16.0	8.1	12.8	16.0																
		Long Side	6.9	10.5	14.3	7.0	10.6	14.5	7.2	10.9	14.9	7.3	11.1	15.1	7.4	11.3	15.4	7.6	11.5	15.7																
68	Short Side	7.1	11.2	15.8	7.2	11.3	16.0	7.4	11.7	16.0	7.6	11.9	16.0	7.7	12.2	16.0																				
	Long Side	6.7	10.3	14.0	6.8	10.4	14.1	7.0	10.7	14.6	7.2	10.9	14.8	7.3	11.1	15.1																				
70	Short Side	6.9	10.9	15.3	7.0	11.0	15.5	7.2	11.4	16.0	7.4	11.6	16.0																							
	Long Side	6.6	10.0	13.7	6.7	10.1	13.8	6.9	10.5	14.3	7.0	10.7	14.5																							
72	Short Side	6.7	10.5	14.8	6.8	10.7	15.1	6.7	10.5	14.8																										
	Long Side	6.4	9.8	13.3	6.5	9.9	13.5	6.4	9.8	13.3																										
74	Short Side	6.6	10.2	14.4	6.6	10.4	14.6																													
	Long Side	6.3	9.5	13.0	6.3	9.7	13.2																													
75.894	Short Side	6.4	10.0	13.9																																
	Long Side	6.4	10.0	13.9																																

TABLE 6, CONT.:

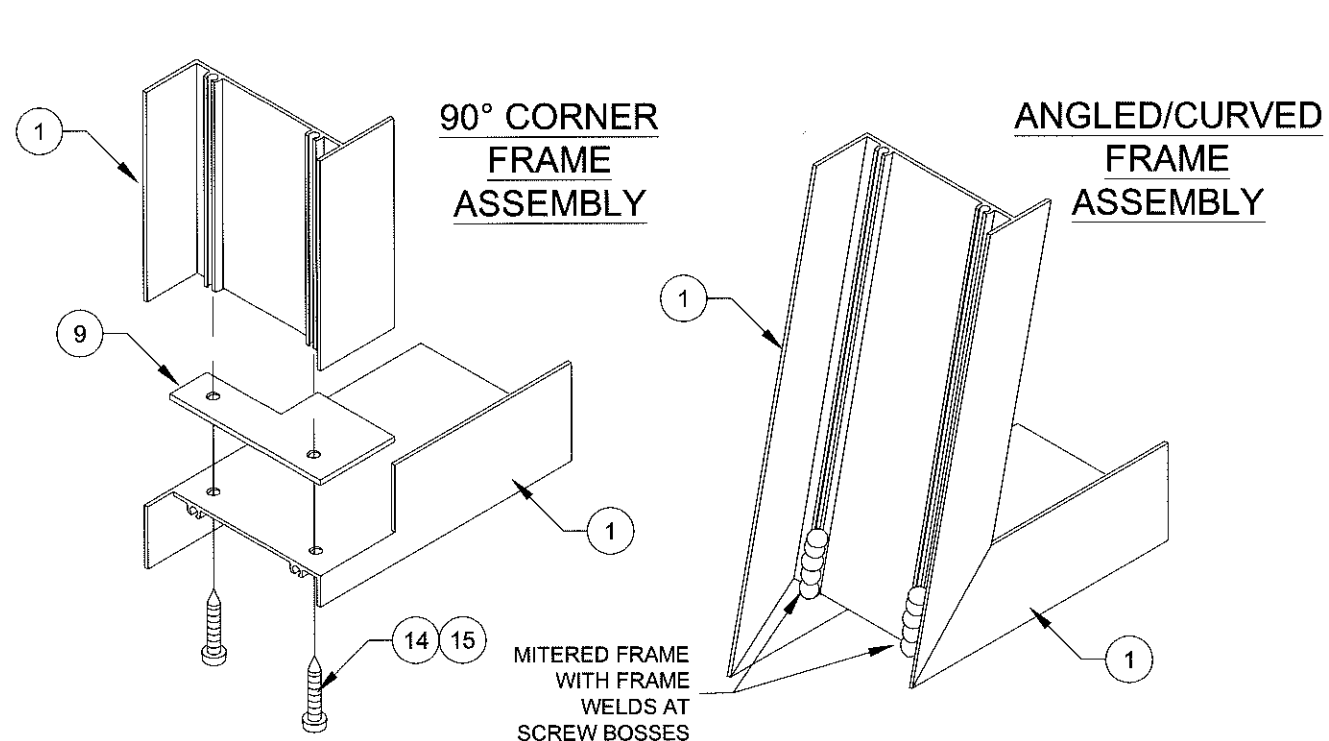
Maximum Anchor Spacing Allowed, (in)					Glass : 3/16" or 1/4" Tempered Glass, Monolithic or Insulated																		Frame: Square or Rectangular										
Long Side (in) ⇨			102			106			110			115			120			125			130			137			144			145			
Anchor Group ⇨			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C				
Short Side (in)	39	Short Side	11.6	16.0	16.0	11.7	16.0	16.0	11.9	16.0	16.0	12.0	16.0	16.0	12.1	16.0	16.0	12.2	16.0	16.0	12.3	16.0	16.0	12.5	16.0	16.0	12.6	16.0	16.0	12.6	16.0	16.0	
		Long Side	9.9	15.0	16.0	10.0	15.2	16.0	10.1	15.3	16.0	10.1	15.4	16.0	10.2	15.6	16.0	10.3	15.7	16.0	10.4	15.8	16.0	10.5	15.9	16.0	10.6	16.0	16.0	10.6	16.0	16.0	
	40	Short Side	11.5	16.0	16.0	11.6	16.0	16.0	11.7	16.0	16.0	11.8	16.0	16.0	12.0	16.0	16.0	12.1	16.0	16.0	12.2	16.0	16.0	12.3	16.0	16.0	12.5	16.0	16.0				
		Long Side	9.8	15.0	16.0	9.9	15.1	16.0	10.0	15.2	16.0	10.1	15.4	16.0	10.2	15.5	16.0	10.3	15.6	16.0	10.3	15.7	16.0	10.4	15.9	16.0	10.5	16.0	16.0				
	42	Short Side	11.2	16.0	16.0	11.3	16.0	16.0	11.4	16.0	16.0	11.6	16.0	16.0	11.7	16.0	16.0	11.8	16.0	16.0	11.9	16.0	16.0	12.1	16.0	16.0							
		Long Side	9.7	14.8	16.0	9.8	14.9	16.0	9.9	15.0	16.0	10.0	15.2	16.0	10.1	15.3	16.0	10.2	15.5	16.0	10.2	15.6	16.0	10.3	15.7	16.0							
	44	Short Side	10.9	16.0	16.0	11.1	16.0	16.0	11.2	16.0	16.0	11.3	16.0	16.0	11.5	16.0	16.0	11.6	16.0	16.0													
		Long Side	9.6	14.6	16.0	9.7	14.7	16.0	9.8	14.9	16.0	9.9	15.0	16.0	10.0	15.2	16.0	10.1	15.3	16.0	10.2	15.4	16.0										
	46	Short Side	10.7	16.0	16.0	10.8	16.0	16.0	11.0	16.0	16.0	11.1	16.0	16.0	11.3	16.0	16.0	11.4	16.0	16.0													
		Long Side	9.5	14.4	16.0	9.6	14.6	16.0	9.7	14.7	16.0	9.8	14.9	16.0	9.9	15.0	16.0	10.0	15.2	16.0													
	48	Short Side	10.5	16.0	16.0	10.6	16.0	16.0	10.8	16.0	16.0	10.9	16.0	16.0	11.0	16.0	16.0																
		Long Side	9.3	14.2	16.0	9.5	14.4	16.0	9.6	14.5	16.0	9.7	14.7	16.0	9.8	14.9	16.0																
	50	Short Side	10.3	16.0	16.0	10.4	16.0	16.0	10.6	16.0	16.0	10.7	16.0	16.0																			
		Long Side	9.2	14.0	16.0	9.3	14.2	16.0	9.4	14.4	16.0	9.6	14.6	16.0																			
	52	Short Side	10.1	16.0	16.0	10.2	16.0	16.0	10.4	16.0	16.0																						
		Long Side	9.1	13.9	16.0	9.2	14.0	16.0	9.3	14.2	16.0																						
54	Short Side	9.9	16.0	16.0	10.0	16.0	16.0																										
	Long Side	9.0	13.7	16.0	9.1	13.9	16.0																										
56	Short Side	9.7	15.7	16.0																													
	Long Side	8.9	13.5	16.0																													

TABLE 7:

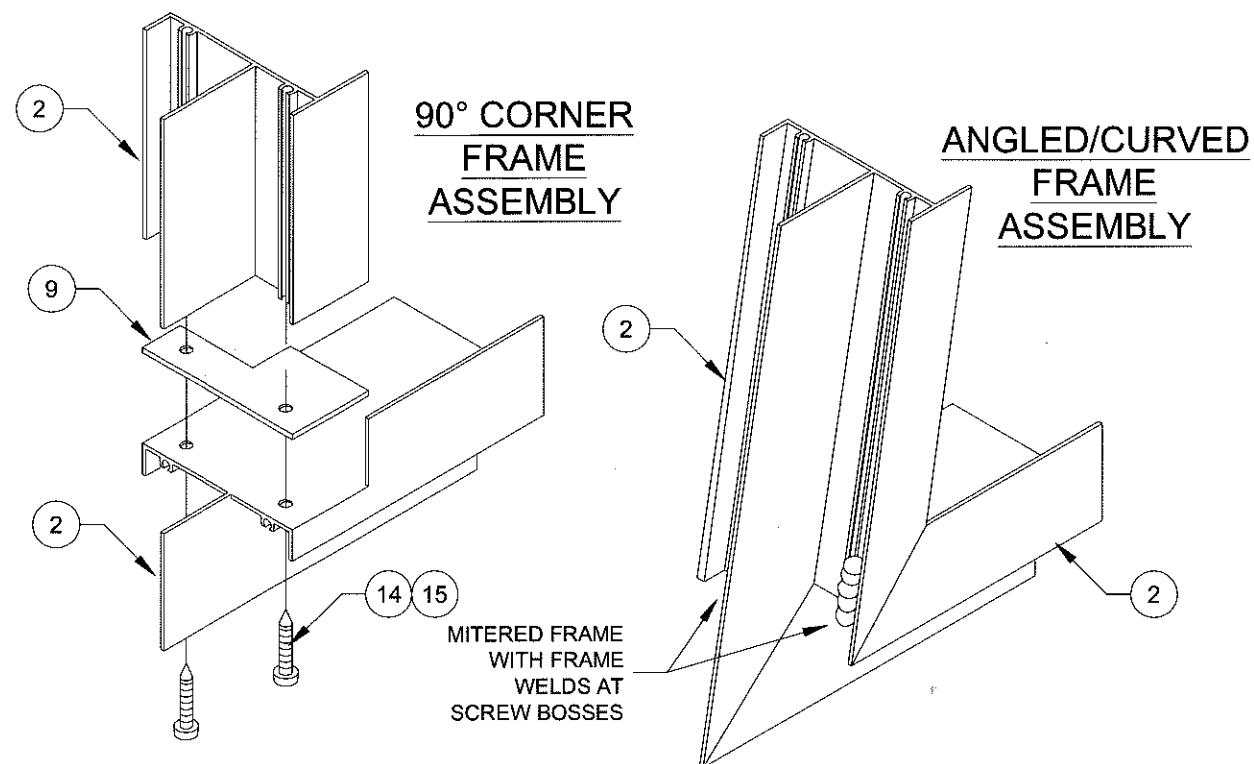
Maximum Anchor Spacing Allowed for all Frame Types, (in)										Glass: 3/16" or 1/4" Annealed Glass, Monolithic or Insulated										Frame: Architectural Shapes																			
Long Side (in) ⇨		53.665		55		57		60		62		65		68		72		75		80		84		90		96		102		110		120		130		144		145	
Anchor Group ⇨		A	B & C	A	B & C	A	B & C	A	B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C	A, B & C			
Short Side (in)	19	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16		
	20	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16		
	22	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16		
	24	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16		
	26	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16		
	28	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16		
	30	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16		
	32	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16		
	34	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16		
	36	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16		
	38	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
	40	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
	42	15.9	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
	44	15.4	16	15.6	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
	46	14.9	16	15.2	16	15.5	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
	48	14.4	16	14.7	16	15.1	16	15.6	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
	50	13.9	16	14.2	16	14.6	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
	52	13.4	16	13.7	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
	53.665	15.2	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	

TABLE 8:

Maximum Anchor Spacing Allowed for all Frame Types, (in)										Glass: 3/16" or 1/4" Tempered Glass, Monolithic or Insulated										Frame: Architectural Shapes											
Long Side (in) ⇨		75.894			77			80			82			84			87			90			92			96			99		
Anchor Group ⇨		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C			
Short Side (in)	39	9.1	13.8	16.0	9.1	13.9	16.0	9.2	14.1	16.0	9.3	14.2	16.0	9.4	14.3	16.0	9.5	14.4	16.0	9.6	14.6	16.0	9.6	14.7	16.0	9.7	14.8	16.0	9.8	14.9	16.0
	40	9.0	13.7	16.0	9.0	13.8	16.0	9.2	13.9	16.0	9.2	14.1	16.0	9.3	14.2	16.0	9.4	14.3	16.0	9.5	14.5	16.0	9.6	14.6	16.0	9.7	14.7	16.0	9.8	14.8	16.0
	42	8.8	13.5	16.0	8.9	13.5	16.0	9.0	13.7	16.0	9.1	13.8	16.0	9.2	13.9	16.0	9.3	14.1	16.0	9.4	14.3	16.0	9.4	14.4	16.0	9.5	14.5	16.0	9.6	14.7	16.0
	44	8.7	13.2	16.0	8.7	13.3	16.0	8.9	13.5	16.0	8.9	13.6	16.0	9.0	13.7	16.0	9.1	13.9	16.0	9.2	14.1	16.0	9.3	14.1	16.0	9.4	14.3	16.0	9.5	14.5	16.0
	46	8.5	13.0	16.0	8.6	13.0	16.0	8.7	13.3	16.0	8.8	13.4	16.0	8.9	13.5	16.0	9.0	13.7	16.0	9.1	13.8	16.0	9.2	13.9	16.0	9.3	14.1	16.0	9.4	14.3	16.0
	48	8.4	12.7	16.0	8.4	12.8	16.0	8.6	13.0	16.0	8.6	13.2	16.0	8.7	13.3	16.0	8.8	13.5	16.0	9.0	13.6	16.0	9.0	13.7	16.0	9.2	13.9	16.0	9.3	14.1	16.0
	50	8.2	12.5	16.0	8.3	12.6	16.0	8.4	12.8	16.0	8.5	12.9	16.0	8.6	13.1	16.0	8.7	13.3	16.0	8.8	13.4	16.0	8.9	13.5	16.0	9.0	13.8	16.0	9.1	13.9	16.0
	52	8.0	12.2	16.0	8.1	12.3	16.0	8.2	12.6	16.0	8.3	12.7	16.0	8.4	12.8	16.0	8.6	13.0	16.0	8.7	13.2	16.0	8.8	13.3	16.0	8.9	13.6	16.0	9.0	13.7	16.0
	54	7.9	12.0	16.0	7.9	12.1	16.0	8.1	12.3	16.0	8.2	12.5	16.0	8.3	12.6	16.0	8.4	12.8	16.0	8.6	13.0	16.0	8.6	13.1	16.0	8.8	13.4	16.0	8.9	13.5	16.0
	56	7.7	11.7	16.0	7.8	11.8	16.0	7.9	12.1	16.0	8.0	12.2	16.0	8.1	12.4	16.0	8.3	12.6	16.0	8.4	12.8	16.0	8.5	12.9	16.0	8.7	13.2	16.0	8.8	13.3	16.0
	58	7.6	11.5	15.7	7.6	11.6	15.8	7.8	11.9	16.0	7.9	12.0	16.0	8.0	12.2	16.0	8.1	12.4	16.0	8.3	12.6	16.0	8.4	12.7	16.0	8.5	13.0	16.0	8.6	13.1	16.0
	60	7.4	11.2	15.3	7.5	11.4	15.5	7.6	11.6	15.8	7.7	11.8	16.0	7.9	12.0	16.0	8.0	12.2	16.0	8.1	12.4	16.0	8.2	12.5	16.0	8.4	12.8	16.0			
	62	7.2	11.0	15.0	7.3	11.1	15.1	7.5	11.4	15.5	7.6	11.6	15.8	7.7	11.7	16.0	7.9	12.0	16.0	8.0	12.2	16.0	8.1	12.3	16.0						
	64	7.1	10.8	14.7	7.1	10.9	14.8	7.3	11.2	15.2	7.5	11.3	15.4	7.6	11.5	15.7	7.7	11.8	16.0	7.9	12.0	16.0									
	66	6.9	10.5	14.3	7.0	10.6	14.5	7.2	10.9	14.9	7.3	11.1	15.1	7.4	11.3	15.4	7.6	11.5	15.7												
	68	6.7	10.3	14.0	6.8	10.4	14.1	7.0	10.7	14.6	7.2	10.9	14.8	7.3	11.1	15.1															
70	6.6	10.0	13.7	6.7	10.1	13.8	6.9	10.5	14.3	7.0	10.7	14.5																			
72	6.4	9.8	13.3	6.5	9.9	13.5	6.4	9.8	13.3																						
74	6.3	9.5	13.0	6.3	9.7	13.2																									
75.894	6.4	10.0	13.9																												



ASSEMBLY DETAILS FOR FLANGE FRAMES



ASSEMBLY DETAILS FOR FIN FRAMES

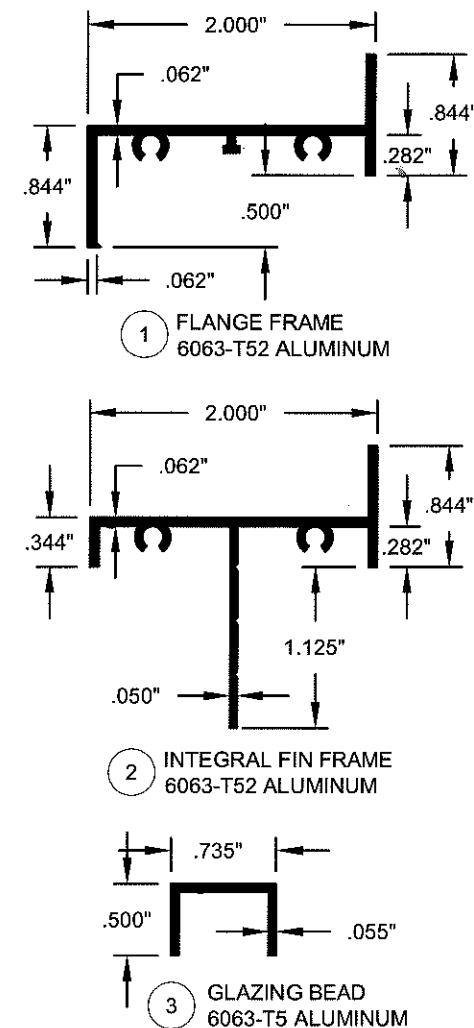
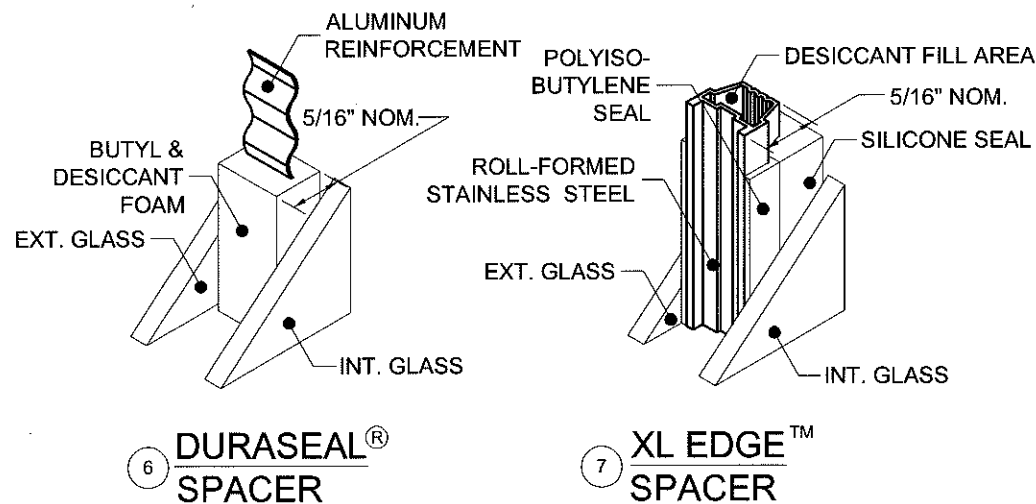
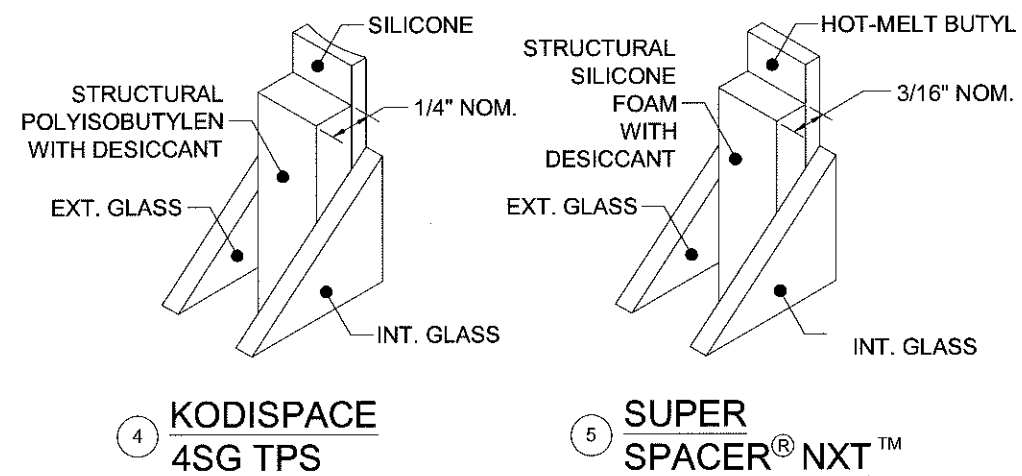
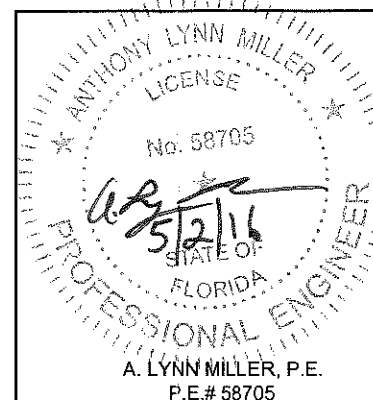


TABLE 9:

Item #	PGT Dwg. #	PGT Part #	Description
1	502	68342	Flange Frame
2	521	69097	Integral Fin Frame
3	503	61168	Glazing Bead
4	See this Sheet for Materials	Kommerling 4SG TPS Spacer System	
5		Quanex Super Spacer nXT with Hot Melt Butyl	
6		Quanex Duraseal	
7		Cardinal XL Edge Spacer	
8		Dow 899 Silicone or Equivalent	
9	589	70589C	Gasket (at 90° corner joints)
10	1208	61308K	Closed Cell Foam Tape
11	1052	71052K	Setting Block 1/16" x 3/4" x 1"
12	1265	712651K	Setting Block 1/16" x 3/16" x 1-1/2"
14	1181	7834AA	#8 X 3/4" PH PN SMS
15		781PSTX	#8 X 3/4" PH PN SMS - S.S.
16	1012	7PWSW	#6 X 7/8" PH FH SMS @ 10-1/2" O.C. Typ.
17			3/16" or 1/4" Glass
18			3/4" IG Glass (with 3/16" or 1/4")
19			1" IG Glass (with 3/16" or 1/4")



1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

CERT. OF AUTH. #29296

Revised By: JR	Date: 04/22/16	Revision: ADDED IG SPACERS
Revised By:	Date:	Revision:
Description: BOM & CORNER ASSEMBLY DETAILS		Drawn By: J ROSOWSKI
Title: FIXED WINDOW INSTALLATION GUIDELINES		Date: 4/01/11
Series/Model: PW-220	Scale: NTS	Sheet: 8 OF 8
Drawing No. MD-PW220-01		Rev: C

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0505-03
Expiration Date Aug. 18, 2021
By: *Manuel Perez*
Miami/Dade Product Control