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s:\projects\downey glass\fbce-23-0528-2 - fbc submittal - aluminum impact storefront & entrance door\dwgs\dg-300 ww\dwg011.dwg

DOWNEY GLASS

DG-300 SERIES WINDOW WALL

(HVHZ)(IMPACT)

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 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.
4. FOR INSTALLATION INTO WOOD FRAMING USE 5/16" DEWALT/ELCO ULTRA CON SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2" INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
5. FOR INSTALLATION INTO METAL STUD USE 5/16" DEWALT/ELCO DRIL-FLEX SCREWS THROUGH THE FRAME OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.
6. FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 5/16 INCH DIAMETER DEWALT/ELCO ULTRA CONS OF SUFFICIENT LENGTH TO ACHIEVE 1-3/4" INCH MINIMUM EMBEDMENT
7. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
8. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
9. 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.
- 10.INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

B. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.

C. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

D. GROUT FILLED MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, MIN. F'M = 2000 PSI.

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:

AAMA 501-15

TAS 201-94

TAS 202-94

TAS 203-94
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING 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. 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. 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 IN NON-HVHZ AREAS. IN HVHZ AREAS, ONE TIME PRODUCT APPROVAL TO BE OBTAINED FROM MIAMI-DADE RER.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. WINDOW FRAME MATERIAL: 6063-T6 ALUMINUM
7. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:

X: OPERABLE PANEL

O: FIXED PANEL
8. GLAZING MEETS ASTM E1300 LOAD RESISTANCE REQUIREMENTS.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	INSTALLATION & GENERAL NOTES
2	ANCHOR LAYOUT & ANCHOR SCHEDULE
3	ANCHOR LAYOUT FOR SUPPORTED JAMB
4	VERTICAL & HORIZONTAL SECTIONS
5	MULLION LOAD CAPACITY
6	END MULLION LOAD CAPACITY
7	BILL OF MATERIALS & GLAZING DETAIL

DESIGN PRESSURE	MISSILE IMPACT RATING
+75 / -80 PSF	LARGE AND SMALL MISSILE IMPACT RATED



1010 NW 15TH AVE.
POMPANO BEACH, FL 33069

TITLE:
DG-300 SERIES WINDOW WALL
(HVHZ)(IMPACT)

INSTALLATION & GENERAL NOTES

PREPARED BY:

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

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Reason: I am approving this document
Date: 2023.06.13 15:41:25 -04'00'



FL #:

FL42120

DATE: 3.17.2022

DWG. BY: CA
CHK. BY: HFN

SCALE: NTS

DWG. #: DWG011

SHEET:

1

ANCHOR LAYOUT & ANCHOR SCHEDULE

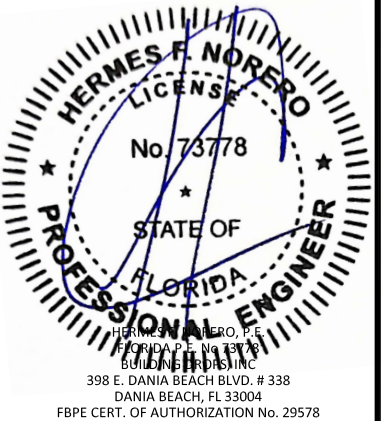
BUILDING DROPS, INC.

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2

OF 7

6" FROM ENDS 24" OC. MAX.

6" FROM ENDS 24" OC. MAX.

5'-0"

5'-0" MAX

UNLIMITED WINDOW WALL WIDTH

10'-0" MAX FRAME SIZE

14" MAX O.C.

2" FROM MULLION BAL. 5" OC. TYP.

2 1/4"

A
3

D
3

B
3

C
3

E
3

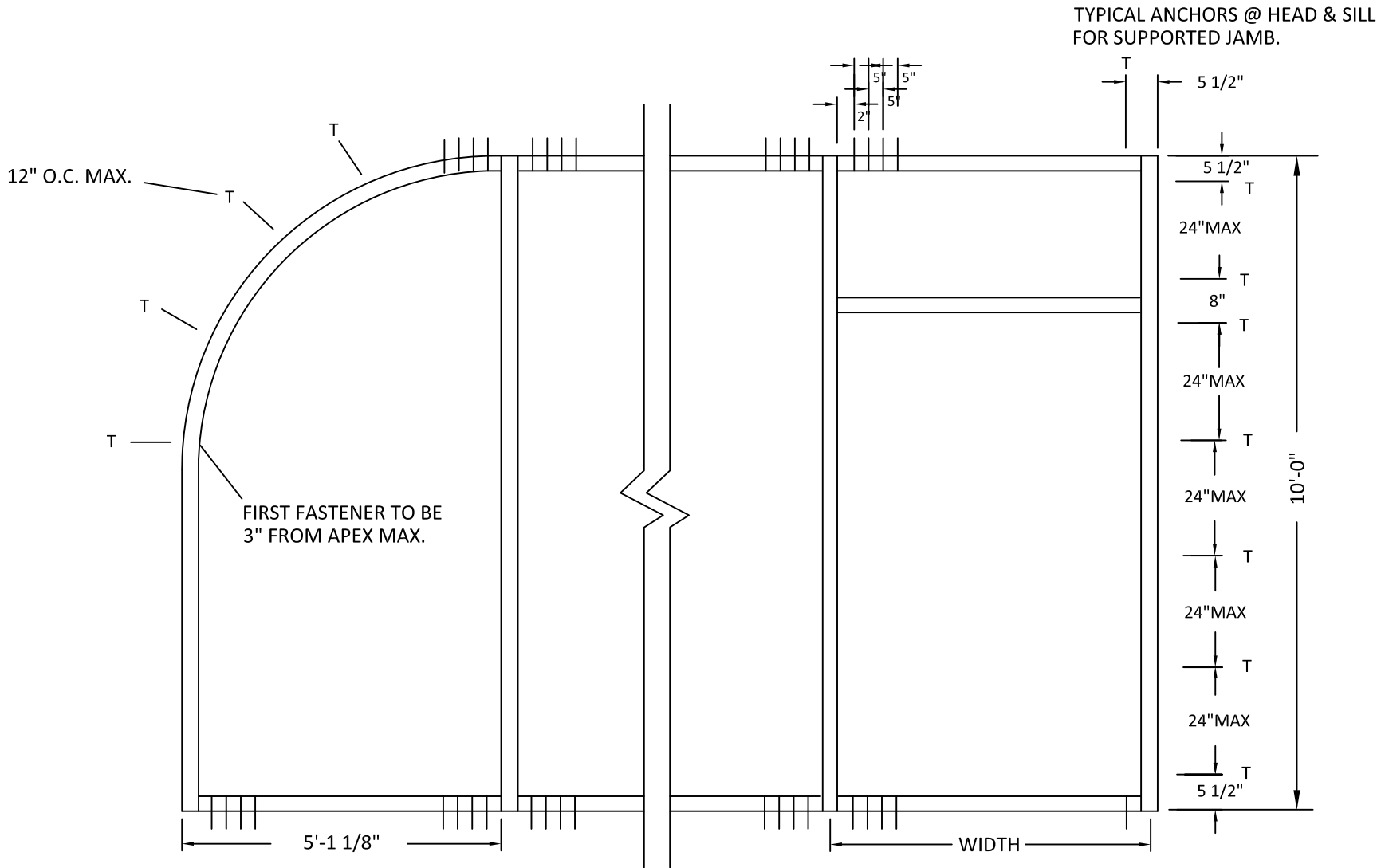
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ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	MIN. S.G. = 0.55 WOOD	5/16" DEWALT/ELCO ULTRACON SCREWS	1.5"	0.75"
	18 GAUGE STEEL, MIN fy = 33 ksi	5/16" DEWALT/ELCO DRIL-FLEX SCREWS	3 THREADS PENETRATION BEYOND METAL	0.75"
	CONCRETE, MIN. fc = 3000 psi	5/16" DEWALT/ELCO ULTRACON SCREWS	1 3/4"	2.5"
	GROUT FILLED CMU, (MIN. F'm = 2000 PSI)		1 3/4"	2.5"

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TYPICAL ELEVATION:
ANCHOR LAYOUT FOR SUPPORTED JAMBS



NOTE: JAMB ANCHOR SPACING FOR
CONCRETE / METAL IS 24" O.C.
FOR WOOD FRAMING USE 16" O.C. AT
JAMB MAXIMUM.

ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	MIN. S.G. = 0.55 WOOD	5/16" DEWALT/ELCO ULTRACON SCREWS	1.5"	0.75"
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TITLE:
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(HVHZ)/(IMPACT)

ANCHOR LAYOUT FOR
SUPPORTED JAMBS

PREPARED BY:
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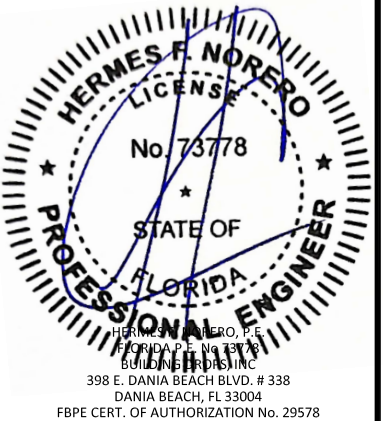
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VERTICAL SECTIONS



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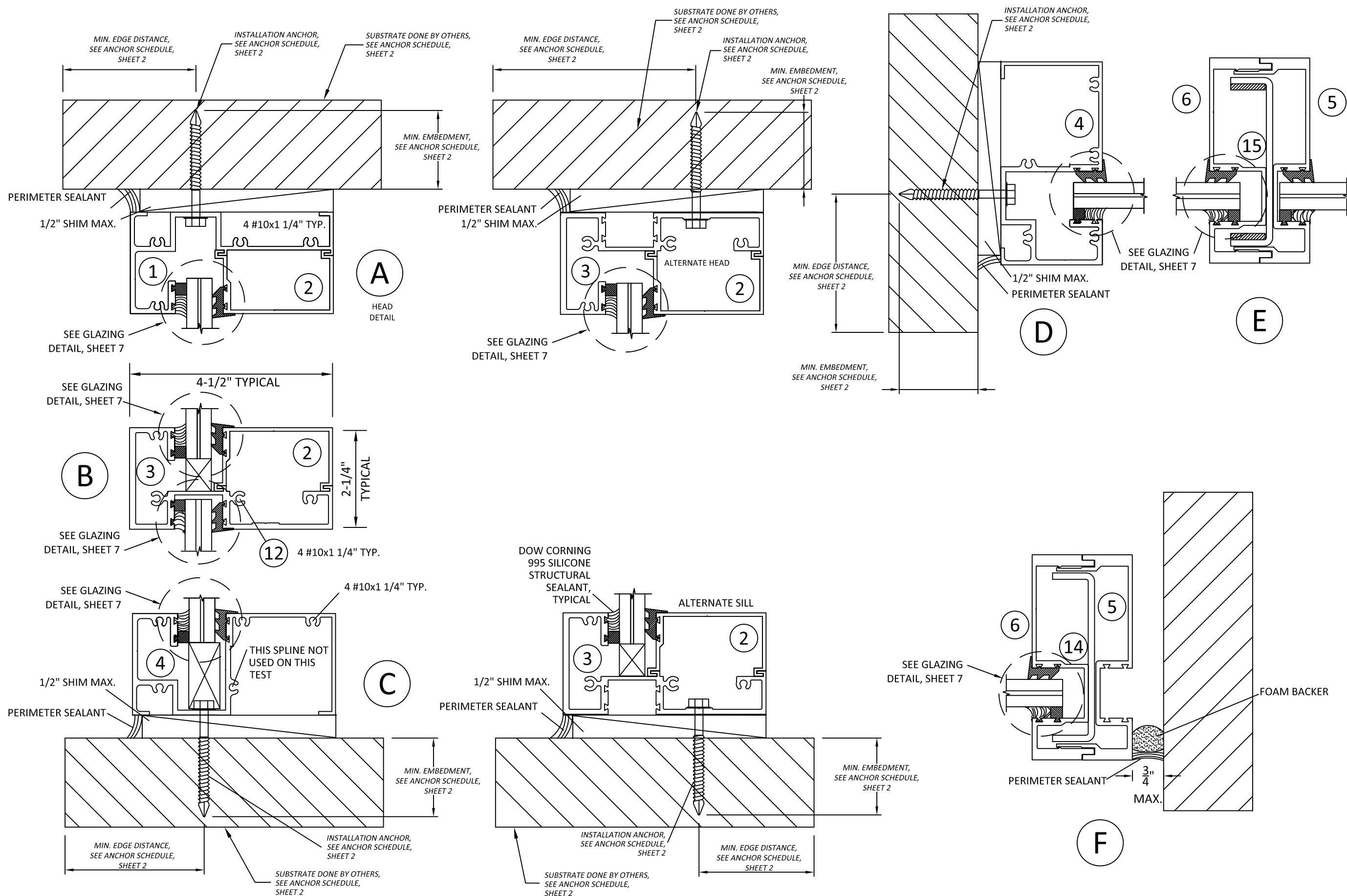
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CHK. BY:	HFN
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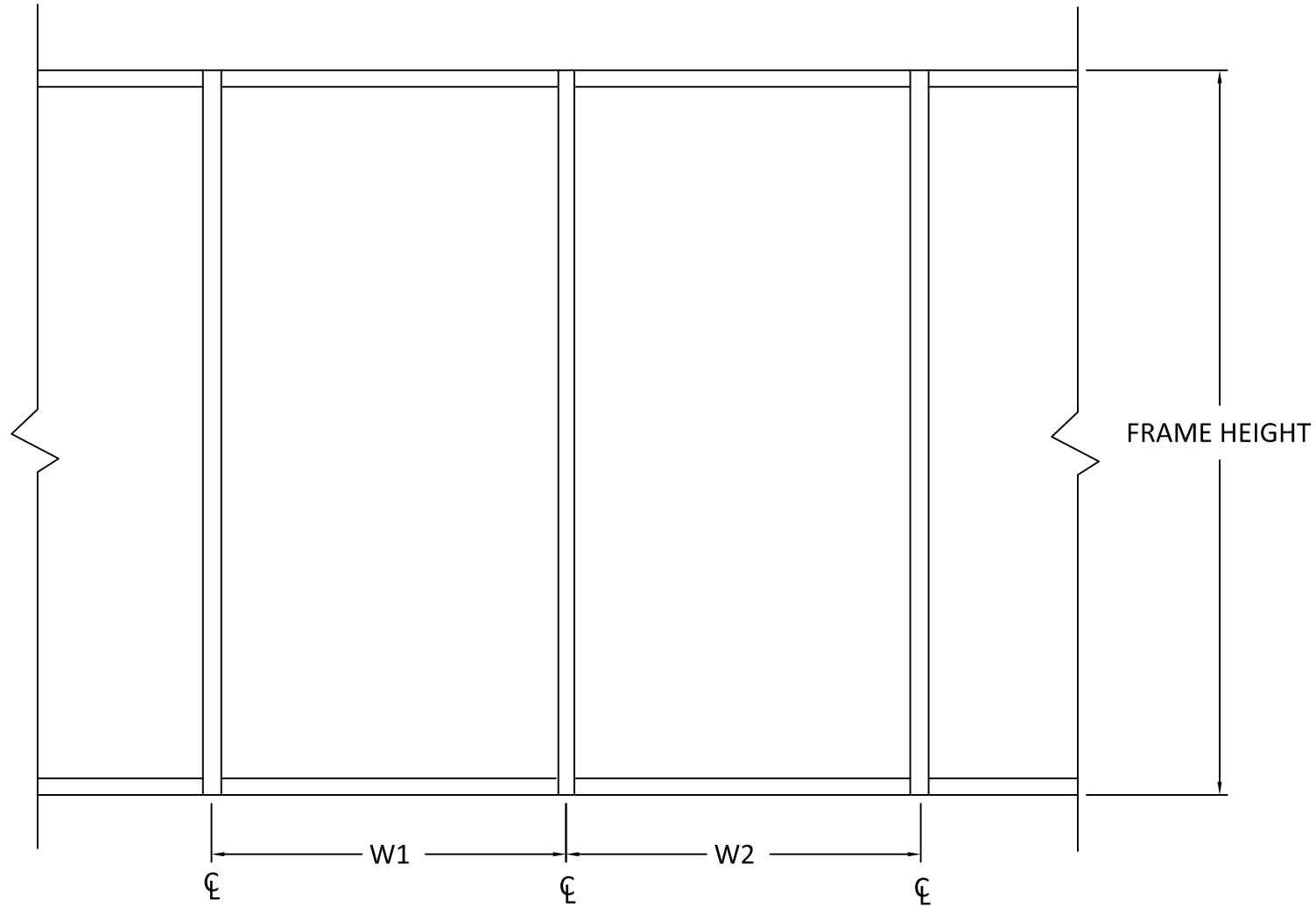
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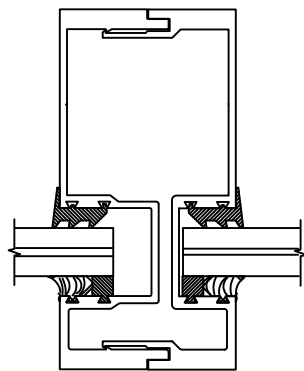
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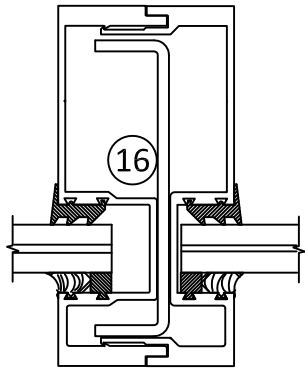


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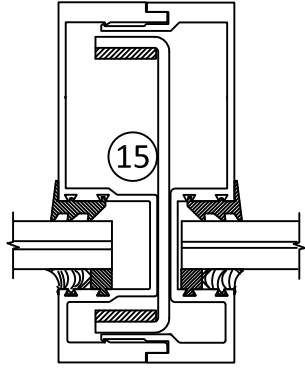
TYPICAL ELEVATION
MULLION LOAD CAPACITY



MULLION
TYPE #1

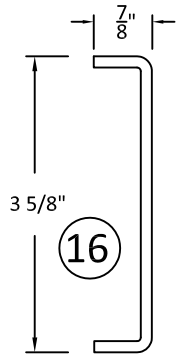
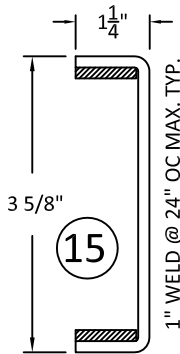


MULLION
TYPE #2



MULLION
TYPE #3

3/16 STEEL A36



MULLION LOAD CAPACITY (PSF)				
FRAME WIDTH	FRAME HEIGHT	MULLION TYPE #1	MULLION TYPE #2	MULLION TYPE #3
30	84"	+75 -80	+75 -80	+75 -80
36		+75 -80	+75 -80	+75 -80
42		+75 -80	+75 -80	+75 -80
48		+75 -80	+75 -80	+75 -80
54		+75 -80	+75 -80	+75 -80
60		+75 -80	+75 -80	+75 -80
30	98 1/4"	+75 -80	+75 -80	+75 -80
36		+75 -80	+75 -80	+75 -80
42		+75 -80	+75 -80	+75 -80
48		+75 -80	+75 -80	+75 -80
54			+75 -80	+75 -80
60				+75 -80
30	108"		+75 -80	+75 -80
36			+75 -80	+75 -80
42			+75 -80	+75 -80
48			+75 -80	+75 -80
54				+75 -80
60				+75 -80
30	120"		+75 -80	+75 -80
36			+75 -80	+75 -80
42			+75 -80	+75 -80
48			+75 -80	+75 -80
54				+75 -80
60				+75 -80



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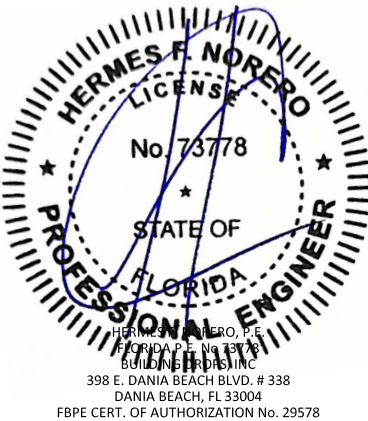
MULLION CAPACITY

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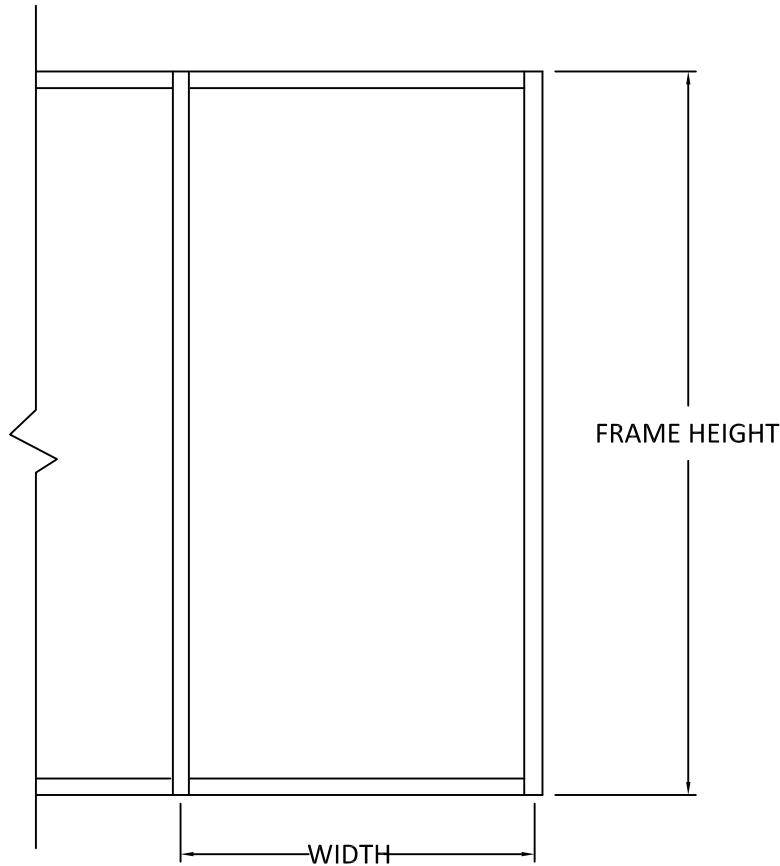
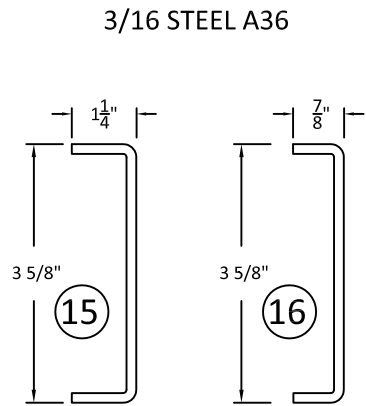
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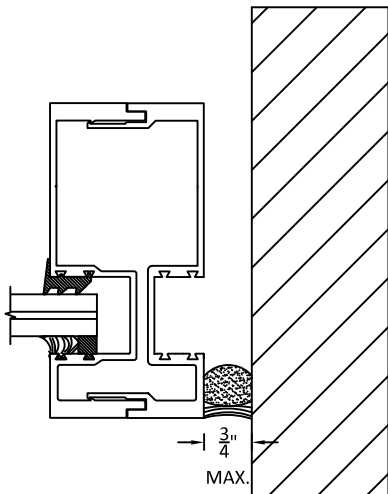
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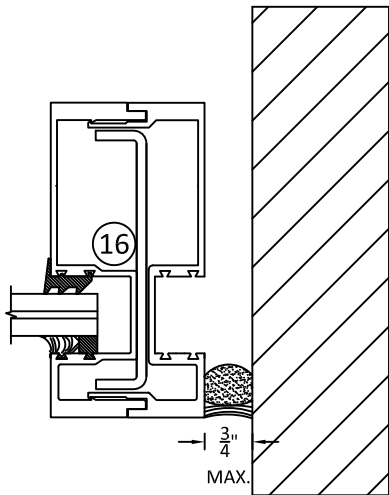
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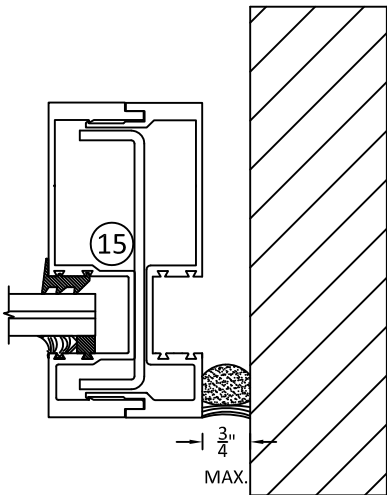
TYPICAL ELEVATION
END MULLION (UNSUPPORTED JAMB) CAPACITY



MULLION
TYPE #1



MULLION
TYPE #2



MULLION
TYPE #3

END MULLION LOAD CAPACITY (PSF)				
FRAME WIDTH	FRAME HEIGHT	MULLION TYPE #1	MULLION TYPE #2	MULLION TYPE #3
30	84"	+75 -80	+75 -80	+75 -80
36		+75 -80	+75 -80	+75 -80
42		+75 -80	+75 -80	+75 -80
48		+75 -80	+75 -80	+75 -80
54		+75 -80	+75 -80	+75 -80
60		+75 -80	+75 -80	+75 -80
30	98 1/4"	+75 -80	+75 -80	+75 -80
36		+75 -80	+75 -80	+75 -80
42		+75 -80	+75 -80	+75 -80
48		+75 -80	+75 -80	+75 -80
54		+75 -80	+75 -80	+75 -80
60		+75 -80	+75 -80	+75 -80
30	108"		+75 -80	+75 -80
36			+75 -80	+75 -80
42			+75 -80	+75 -80
48			+75 -80	+75 -80
54			+75 -80	+75 -80
60			+75 -80	+75 -80
30	120"		+75 -80	+75 -80
36			+75 -80	+75 -80
42			+75 -80	+75 -80
48			+75 -80	+75 -80
54				+75 -80
60				+75 -80

TREMCO FP-489 EPDM GASKET IS COMPLIANT
ACCORDING TO ASTM C864

FP 489
1/4"x 3/4"

8

1. MIN. DUROMETER (SHORE A HARDNESS) = 73
2. TENSILE STRENGTH = 1534 PSI
3. COMPRESSION SET = 22.5%
4. TEAR STRENGTH = 152 LBF/IN
5. ELONGATION % = 282



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END MULLION CAPACITY

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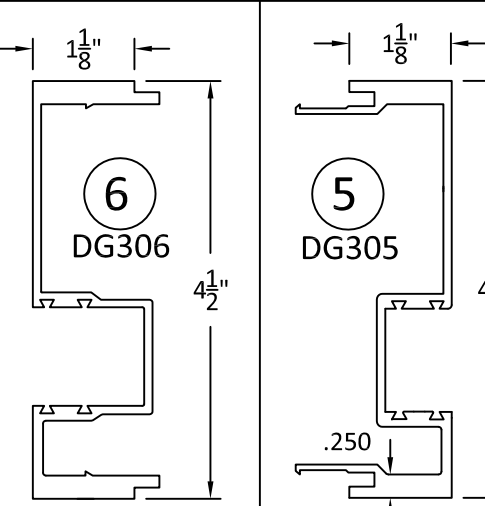
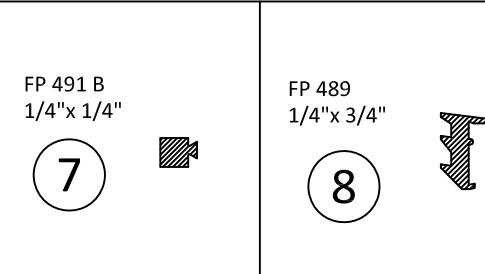
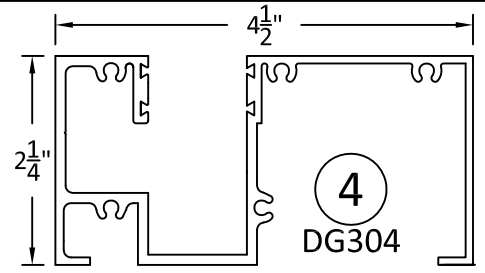
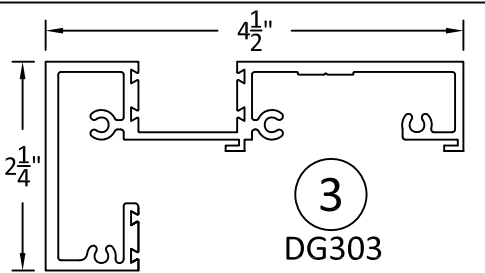
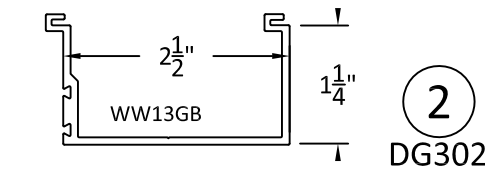
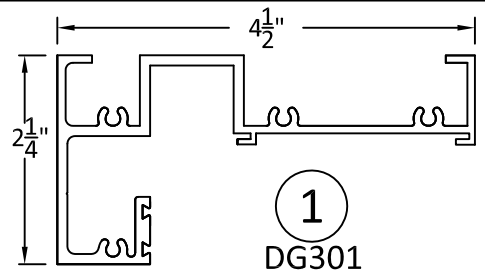
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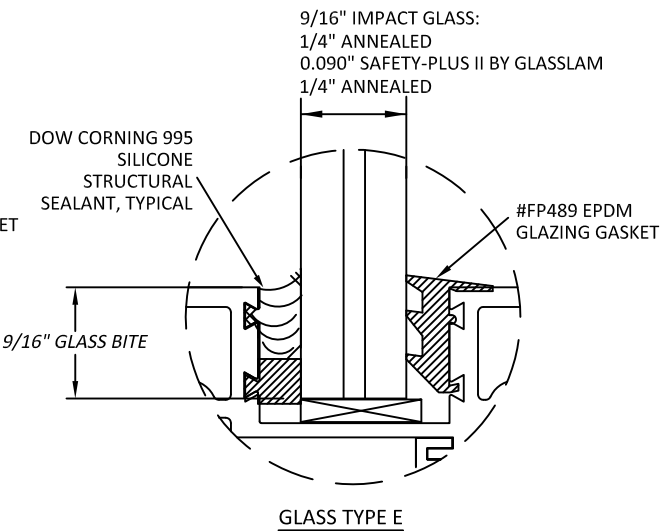
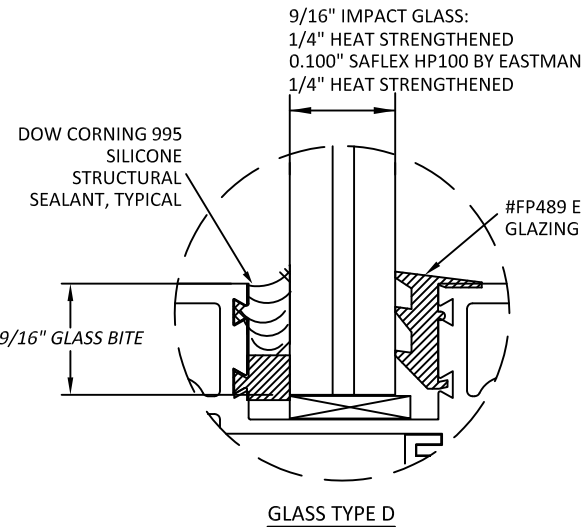
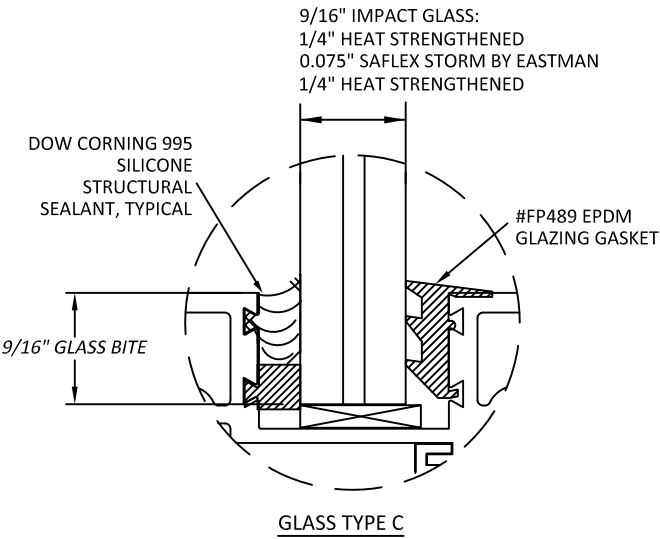
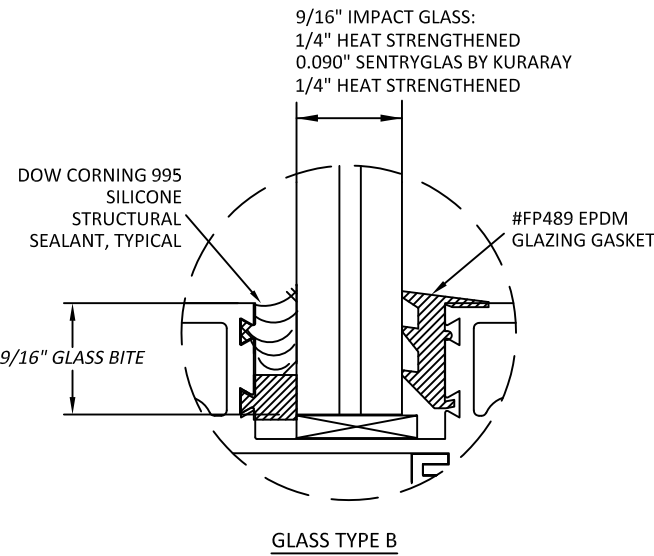
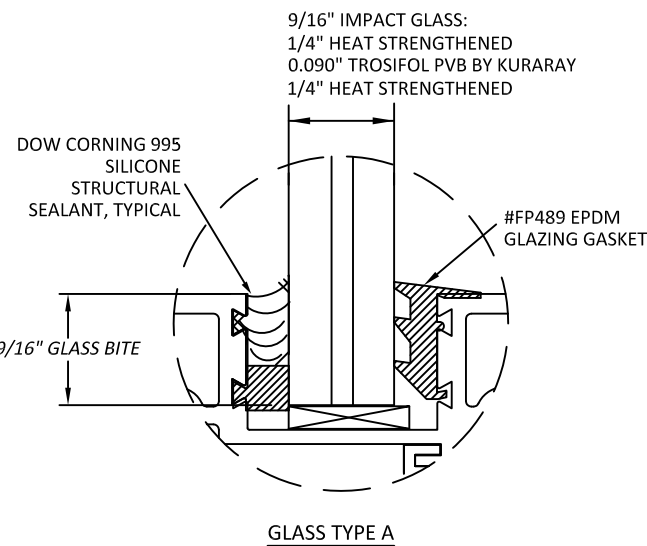
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ITEM #	PART #	DESCRIPTION	MATERIAL	REMARKS
1	DG301	FRAME HEAD	6063-T6	EXTRUSION
2	DG302	GLASS STOP	6063-T6	EXTRUSION
3	DG303	HORIZ/HEAD/SILL	6063-T6	EXTRUSION
4	DG304	SILL / JAMB	6063-T6	EXTRUSION
5	DG305	HALF MULLION	6063-T6	EXTRUSION
6	DG306	HALF MULLION	6063-T6	EXTRUSION
7	FP 491B	1/4X1/4 GASKET	EPDM	TREMCO
8	FP 489	WEDGE GASKET	EPDM	TREMCO
9	995	SILICONE	CAULKING	DOW CORNING 995
10	1A-15LM	POLYURETHANE	CAULKING	SIKAFLEX
11	-	-	-	-
12	SCREW	# 10 x 1 1/4"	STEEL	ZINC
13	SB 400	3/4"x 1 1/2"x4"	EPDM	TREMCO
14	STL 1	1 1/4"3 5/8"1 1/4"	STEEL	3/16"A36
15	STL 2	1 1/4"3 5/8"1 1/4"	STEEL	3/16 A36 + 3/16"x1"
16	STL 3	7/8"3 5/8"1 1/4"	STEEL	3/16 A36

NOTE:
1) GLASS TYPE A IS LIMITED TO A MAXIMUM DAYLIGHT OPENING OF 57 3/4"X 112 1/2"
2) GLASS TYPE B IS LIMITED TO A MAXIMUM DAYLIGHT OPENING OF 57 3/4"X 112 1/2"
3) GLASS TYPE C IS LIMITED TO A MAXIMUM DAYLIGHT OPENING OF 46"X 94"
4) GLASS TYPE D IS LIMITED TO A MAXIMUM DAYLIGHT OPENING OF 46"X 94"
5) GLASS TYPE E IS LIMITED TO A MAXIMUM DAYLIGHT OPENING OF 46"X 46"

GLAZING NOTES:
1) GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC.
2) GLASS SHALL BE SET WITH THE USE OF SETTING BLOCKS IN ACCORDANCE WITH CHAPTER 24 OF THE CURRENT FLORIDA BUILDING CODE.
3) SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
4) SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.



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TITLE: DG-300 SERIES WINDOW WALL (HVHZ)/(IMPACT)

BILL OF MATERIALS & GLAZING DETAIL

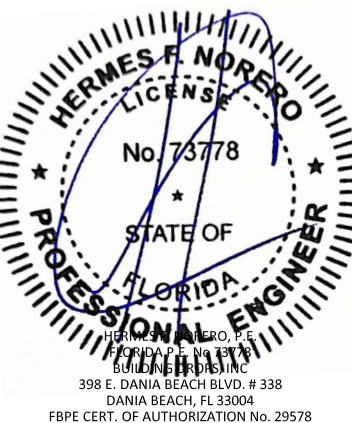
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REMARKS	BY	DATE

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



FL #:	FL42120
DATE:	3.17.2022
DWG. BY:	CA
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	DWG011
SHEET:	7