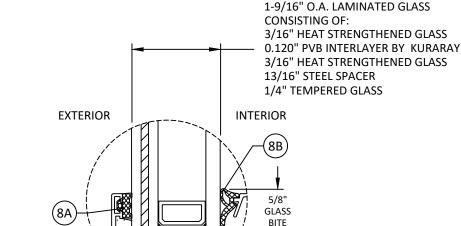
DRUTEX S.A.

MB-79N SI DUAL TILT & TURN WINDOW (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 AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/I.S.2/A440-17
 - ASTM E1886-19
 - ASTM E1996-20
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING, AND METAL 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.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±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
- 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.
- APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: ALUMINUM 6063-T5
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAIL.
- CUSTOM SIZES AVAILABLE UPON REQUEST. CUSTOM DESIGN PRESSURE WILL BE ASSIGNED EQUAL TO NEXT LARGER STANDARD SIZE.



GLAZING DETAIL 1

DOWSIL 993

STRUCTURAL SILICONE

- GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS. PER THE FBC TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
- SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
- 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 SHOWN HEREIN.

	TABLE OF CONTENTS			
SHEET	SHEET DESCRIPTION			
1	GENERAL NOTES & GLAZING DETAIL			
2	ELEVATION & DESIGN PRESSURE TABLES			
3	ANCHOR LAYOUTS			
4	VERTICAL SECTIONS			
5	HORIZONTAL SECTIONS			
6	INSTALLATION NOTES & ANCHOR DETAILS			
7	COMPONENTS & BILL OF MATERIALS			

CONFIGURATION	WIDTH (IN.)	HEIGHT (IN.)	DESIGN PRESSURE	MISSILE IMPACT RATING
xx	SEE T	SEE TABLES ON SHEET 2		LARGE & SMALL MISSILE IMPACT



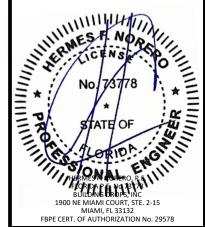
LEBORSKA 31, 77-100 BYTOW, POLAND PH: +48-59-822-9101 FX: +48-59-822-9103

TLE: MB-79N SI DUAL TITL AND TURN WII (HVHZ) (IMPACT)

UILDING DROPS,

REMARKS BY DATE

ND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIF ITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIA FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC



FL #: FL46726

03.19.24 DATE: DWG. BY: CHK. BY:

FB HFN NTS SCALE:

DRU037 DWG. #:

SHEET:

– MAX. FRAME WIDTH – - MAX. SASH WIDTH - ____ MAX. D.L.O. ____ WIDTH MAX. FRAME HEIGHT MAX. | SASH | HEIGHT MAX. |I | D.L.O. | HEIGP

ELEVATIONS

SASH HEIGHT = FRAME HEIGHT - 3.00" SASH WIDTH = $\frac{FRAME \ WIDTH}{2}$ - 2.12" D.L.O. HEIGHT = FRAME HEIGHT - 8.96" D.L.O. WIDTH = $\frac{\text{FRAME WIDTH}}{2}$ - 8.00"

	SIGN PRESSURE TA	DLL (1 31)	
FRAME WIDTH	FRAME HEIGHT	POS. (+)	NEG.
(IN.)	(IN.)		
36		70.0	70.0
48		70.0	70.0
60		70.0	70.0
72		70.0	70.0
84		70.0	70.0
96	36	70.0	70.0
108] 30 [70.0	70.0
120		70.0	70.0
132		70.0	70.0
144		70.0	70.0
156		70.0	70.0
168		70.0	70.0
36] [70.0	70.0
48		70.0	70.0
60		70.0	70.0
72		70.0	70.0
84	42	70.0	70.0
96	'-	70.0	70.0
108		70.0	70.0
120		70.0	70.0
132		70.0	70.0
144		70.0	70.0
36		70.0	70.0
48		70.0	70.0
60		70.0	70.0
72		70.0	70.0
84	48	70.0	70.0
96		70.0	70.0
108	-	70.0	70.0
120		70.0	70.0
132		70.0	70.0
36	-	70.0	70.0
48	-	70.0	70.0
60	_,	70.0	70.0
72	54	70.0	70.0
84	-	70.0	70.0
96	-	70.0	70.0
108		70.0	70.0
36	-	70.0	70.0
48	}	70.0	70.0
60	60	70.0	70.0
72		70.0	70.0
84		70.0	70.0
96		70.0	70.0
36		70.0	70.0
48		70.0	70.0
60	64.96	70.0	70.0
72		70.0	70.0
84	. L	70.0	70.0



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D BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478

IITLE: MB-79N SI DUAL TITL AND TURN WINDOW (HVHZ) (IMPACT) ELEVATIONS & DESIGN PRESSURE TABLES

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.

NO 73778

PERMEN INC.

1900 NE MIAMI COURT, STE. 2-15

MIAMI, FL 33132

FBPE CERT. OF AUTHORIZATION No. 29578

FL46726

DATE: 03.19.24

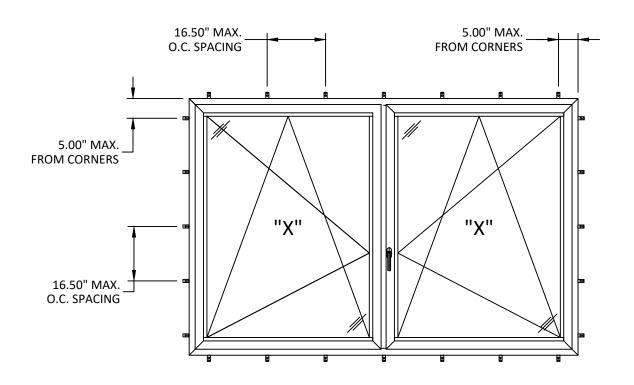
DWG. BY:

CHK. BY: NTS SCALE:

DRU037 DWG. #:

SHEET:

11.00" MAX. 5.00" MAX. O.C. SPACING FROM CORNERS 5.00" MAX. FROM CORNERS "X" "X"



ANCHOR LAYOUT THROUGH FRAME INSTALLATION

ANCHOR LAYOUT STRAP INSTALLATION

NOTE: TWO (2) ANCHORS PER STRAP



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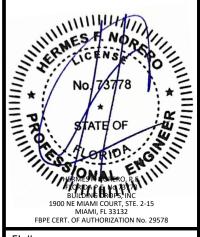
PREPARED BY:

BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)339-8478 ITLE: MB-79N SI DUAL TITL AND TURN WINDOW (HVHZ) (IMPACT)

ANCHOR LAYOUT

BY DATE REMARKS

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FL #: FL46726

03.19.24 DATE: CHK. BY:

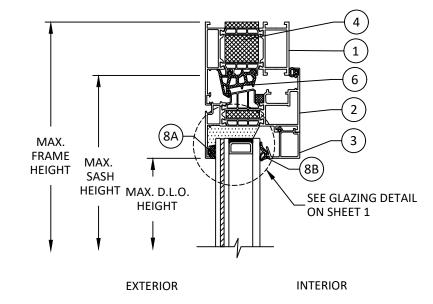
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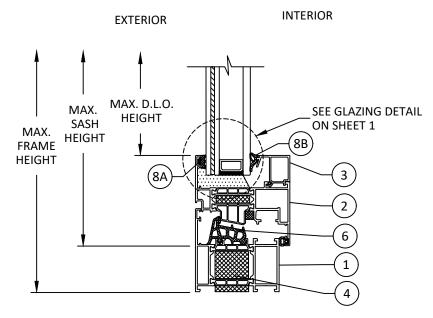
SHEET:

OF 7

16.50" MAX. _ O.C. SPACING











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ITLE: MB-79N SI DUAL TITL AND TURN WINDOW (HVHZ) (IMPACT)

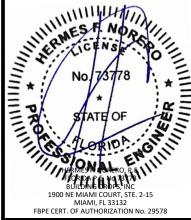
VERTICAL SECTIONS

PREPARED BY:

BUILDING DROPS, IN BY DATE

REMARKS

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.



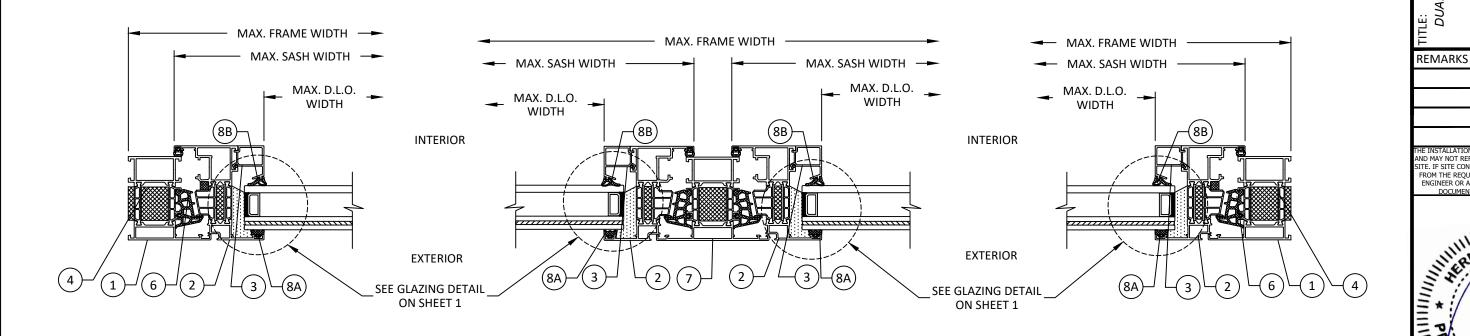
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03.19.24 DATE:

DWG. BY: CHK. BY: NTS SCALE:

DRU037 DWG. #:

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\HORIZONTAL SECTION TYP. JAMB DETAIL



\widehat{C}	HORIZONTAL SECTION
5/	TYP. JAMB DETAIL



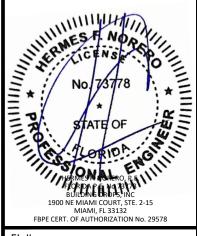
LEBORSKA 31, 77-100 BYTOW, POLAND PH: +48-59-822-9101 FX: +48-59-822-9103

3UILDING DROPS, IN 1900 NE MIAMI COURT, STE. 2-1 MIAMI, FL 33132 PH: (954)399-8478 HORIZONTAL SECTIONS

ITLE: MB-79N SI DUAL TITL AND TURN WINDOW (HVHZ) (IMPACT)

M BY DATE

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03.19.24 DATE: CHK. BY: HFN

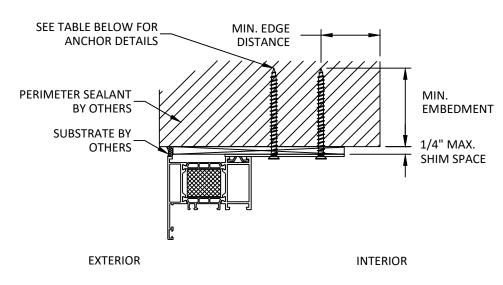
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NTS SCALE: **DRU037** DWG. #:

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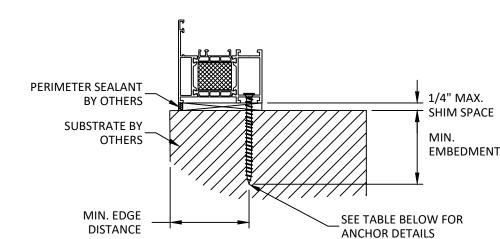
5

EXTERIOR INTERIOR





NOTE: SILL & JAMB SIMILAR



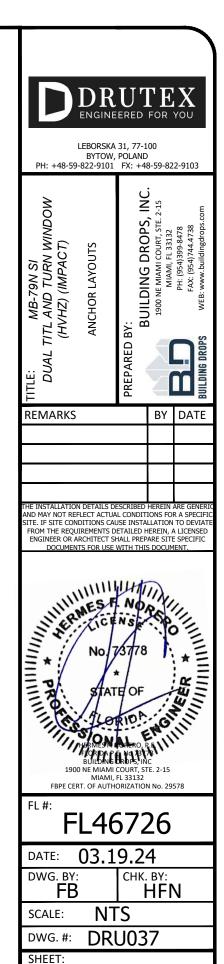


NOTE: HEAD & JAMB SIMILAR

INSTALLATION NOTES:

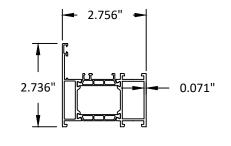
- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED ON SHEET 3.
- 2. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES 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.
- 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 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.
- 7. 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.

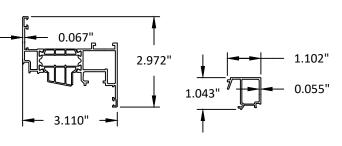
		ANCHOR SCHEDU	JLE	
METHOD	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
STRAP	WOOD: MIN. SG = 0.55	#8 WOOD SCREW	1.50"	0.75"
	METAL: 18 GA. STEEL MIN. Fy = 33 KSI ALUMINUM 1/8" MIN., 6063-T5	#8 SELF-DRILLING SCREW	3 THREADS MIN. PENETRATION BEYOND STRUCTURE	0.50"
	CONCRETE: f'c = 3000 PSI	3/16" ITW TAPCON	1.25"	2.00"
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI	3/16" ITW TAPCON	1.00"	2.00"
THROUGH FRAME	WOOD: MIN. SG = 0.55	#12 WOOD SCREW	1.50"	0.75"
	METAL: 18 GA. STEEL MIN. Fy = 33 KSI ALUMINUM 1/8" MIN., 6063-T5	#12 SELF-DRILLING SCREW	3 THREADS MIN. PENETRATION BEYOND STRUCTURE	0.50"
	CONCRETE: f'c = 3000 PSI	3/16" ITW TAPCON	1.25"	2.00"
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI	3/16" ITW TAPCON	1.00"	2.00"

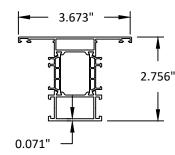


b

BILL OF MATERIALS ITEM					
1 K520012 FRAME 6063-T5 2 K520112 SASH 6063-T5 3 K431624 GLAZING BEAD 6063-T5 4 - THERMAL MATERIAL POLYETHYLEN 5 - GASKET EPDM 6 8G000020 CENTRAL GASKET EPDM 7 - MULLION 6063-T5 8A 120518 GASKET EPDM 8B 120540 GASKET EPDM	BILL OF MATERIALS				
2 K520112 SASH 6063-T5 3 K431624 GLAZING BEAD 6063-T5 4 - THERMAL MATERIAL POLYETHYLEN 5 - GASKET EPDM 6 8G000020 CENTRAL GASKET EPDM 7 - MULLION 6063-T5 8A 120518 GASKET EPDM 8B 120540 GASKET EPDM	ITEM	PART NO.	DESCRIPTION	MATERIAL	
3 K431624 GLAZING BEAD 6063-T5 4 - THERMAL MATERIAL POLYETHYLEN 5 - GASKET EPDM 6 8G000020 CENTRAL GASKET EPDM 7 - MULLION 6063-T5 8A 120518 GASKET EPDM 8B 120540 GASKET EPDM	1	K520012	FRAME	6063-T5	
4 - THERMAL MATERIAL POLYETHYLEN 5 - GASKET EPDM 6 8G000020 CENTRAL GASKET EPDM 7 - MULLION 6063-T5 8A 120518 GASKET EPDM 8B 120540 GASKET EPDM	2	K520112	SASH	6063-T5	
5 - GASKET EPDM 6 8G000020 CENTRAL GASKET EPDM 7 - MULLION 6063-T5 8A 120518 GASKET EPDM 8B 120540 GASKET EPDM	3	K431624	GLAZING BEAD	6063-T5	
6 8G000020 CENTRAL GASKET EPDM 7 • MULLION 6063-T5 8A 120518 GASKET EPDM 8B 120540 GASKET EPDM	4	-	THERMAL MATERIAL	POLYETHYLEN	
7 - MULLION 6063-T5 8A 120518 GASKET EPDM 8B 120540 GASKET EPDM	5	-	GASKET	EPDM	
8A 120518 GASKET EPDM 8B 120540 GASKET EPDM	6	8G000020	CENTRAL GASKET	EPDM	
8B 120540 GASKET EPDM	7	-	MULLION	6063-T5	
	8A	120518	GASKET	EPDM	
9 803011040 STRAP STEEL	8B	120540	GASKET	EPDM	
	9	803011040	STRAP	STEEL	







9

SASH 2 6063-T5

GLAZING BEAD 3 6063-T5

MULLION 6063-T5



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PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15

MIAMI, Ft. 33132

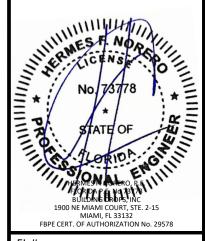
PH: (954)744,4738

FAX. (954)744,4738

IITLE: MB-79N SI DUAL TITL AND TURN WINDOW (HVHZ) (IMPACT) COMPONENTS & BILL OF MATERIALS

REMARKS BY DATE

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FL #: FL46726

03.19.24 DATE:

DWG. BY: CHK. BY:

NTS SCALE:

DRU037 DWG. #: SHEET:

OF 7

1		AME 63-T5	
<u></u>	0.07	' 9"	
	_	VARIES	
(a		STRAP	

STEEL A36