SERIES `360' ALUMINUM SINGLE HUNG WINDOW - L.M.I

1)- APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF SINGLE HUNG/SINGLE HUNG OR SINGLE HUNG WITH OTHER FLORIDA PRODUCT APPROVED WINDOWS USING FLORIDA PRODUCT APPROVED MULLIONS IN BETWEEN.

2)- LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO THE ENTIRE SYSTEM.

3)- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

4)- 1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE

5)- ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

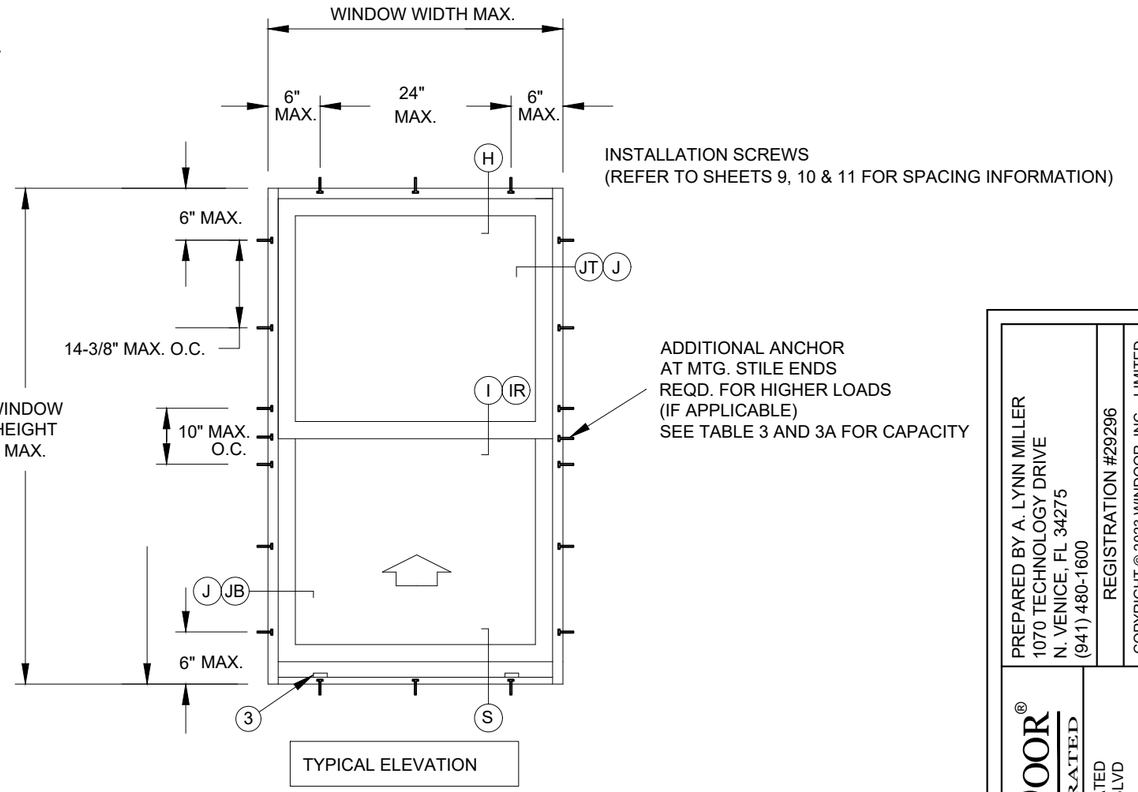
6)- A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

7)- ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

8)- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE & ADOPTED STANDARDS.

9)- THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

10)- CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL



TYPICAL ELEVATION

INSTRUCTIONS FOR USING CAPACITY CHARTS:

STEP 1 DETERMINE THE REQUIRED DESIGN PRESSURES FOR A GIVEN WINDOW OPENING.

STEP 2 DETERMINE THE CAPACITY OF THE WINDOW SIZE/CONFIGURATION/GLASS TYPE FROM TABLES 1, 2, 3, & 4 ON SHEET 4-7.

STEP 3 DETERMINE THE ANCHOR CAPACITY FROM SHEET 8 FOR SINGLE OPENINGS, APPLICABLE TO ANCHORS TYPE A, B OR C SHOWN ON SHEETS 8 AND 9.

STEP 4 IF ALUMINUM BUCKS ARE USED, VERIFY THE BUCK INSTALLATION CAPACITY FROM TABLE 8, SHEET 12.

STEP 5 FOR UNCLIPPED MULLED WINDOWS DETERMINE MULLION/MULLION ANCHORS CAPACITY FOR 1X4 TUBE MULLION FROM TABLE 7 ON SHEET 11.

STEP 6 IF ALUMINUM BUCKS ARE USED DETERMINE BUCK ANCHORING REQUIREMENTS FROM TABLE 9 ON SHEET 13.

THE LOWEST SELECTED VALUE APPLY TO THE INSTALLATION AND MUST EQUAL OR EXCEED THE REQUIRED DESIGN PRESSURES OBTAINED FROM STEP 1.

THESE WINDOWS ARE RATED FOR LARGE AND SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

Rev.# | Date | By | Description

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

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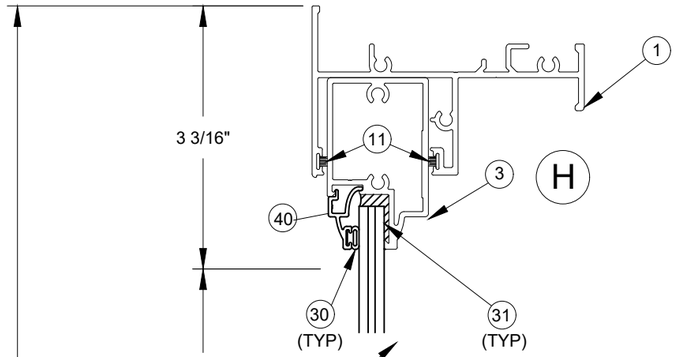
WINDOOR® INCORPORATED
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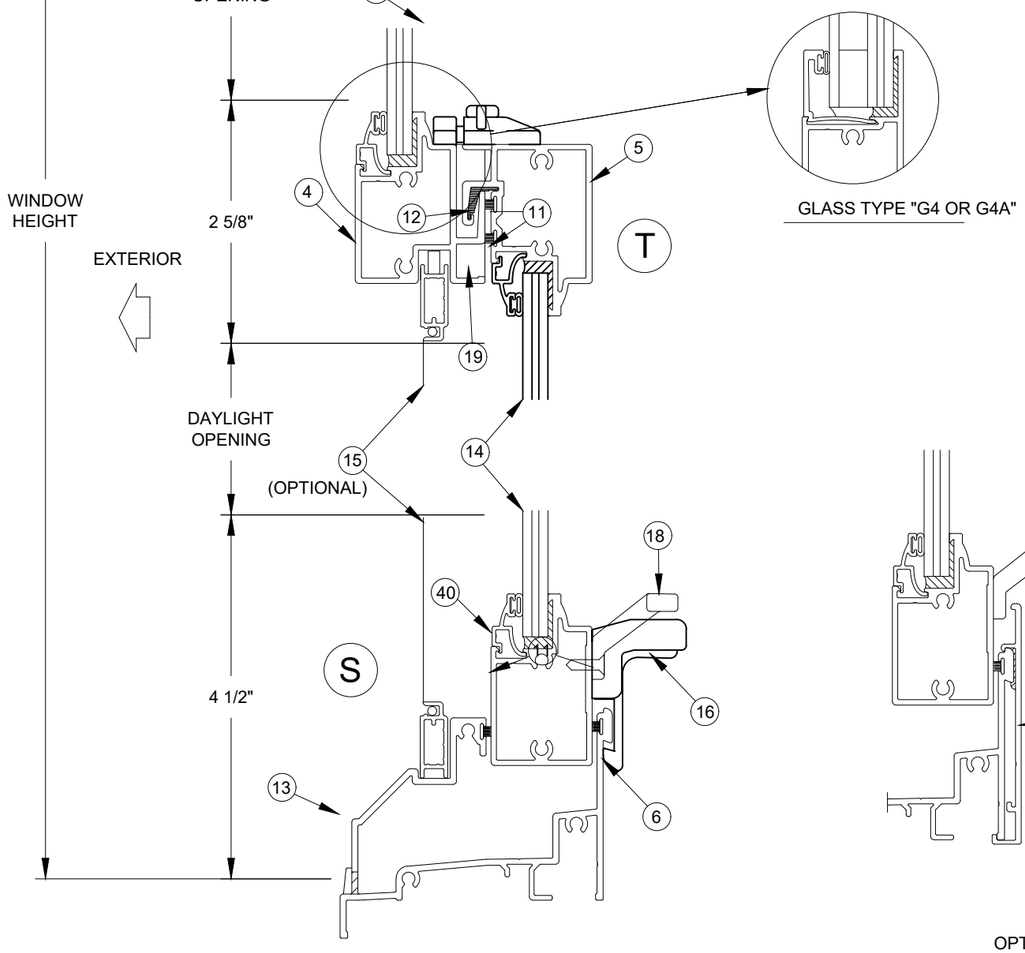
Title	Desc.	Series
SERIES "360" ALUM SINGLE HUNG WDW (LMI)	ELEVATION & GENERAL NOTES	SH360

Date	Drawn By	DWG No.	Sheet
1/5/23	A. MORLESIN	SH360LMI-FPA	1 OF 13

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
2/10/23

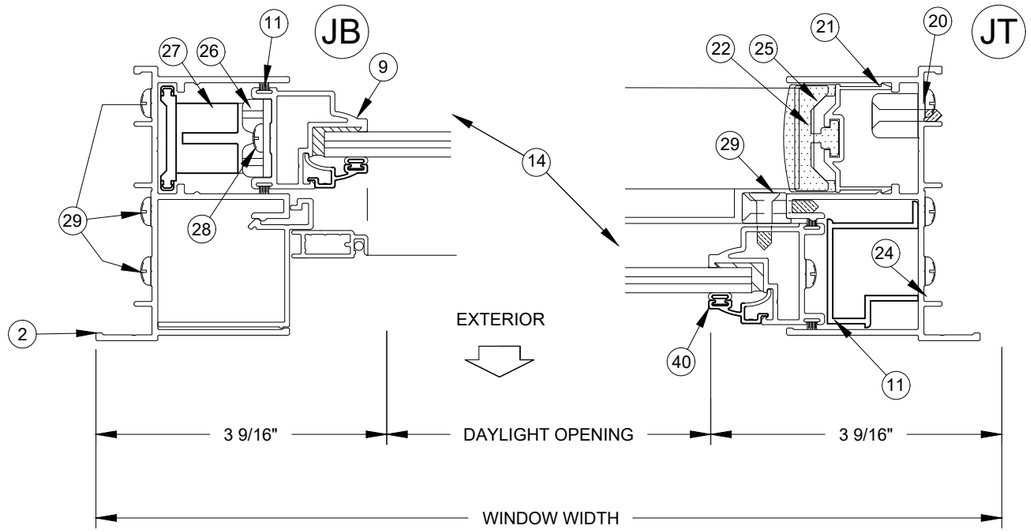
A. LYNN MILLER, P.E.
P.E.# 58705

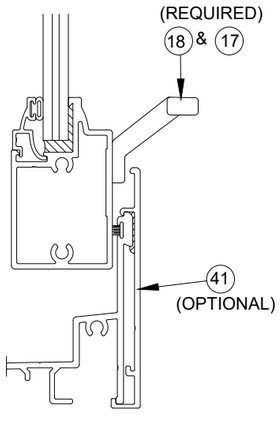




STANDARD 12 PSF SILL

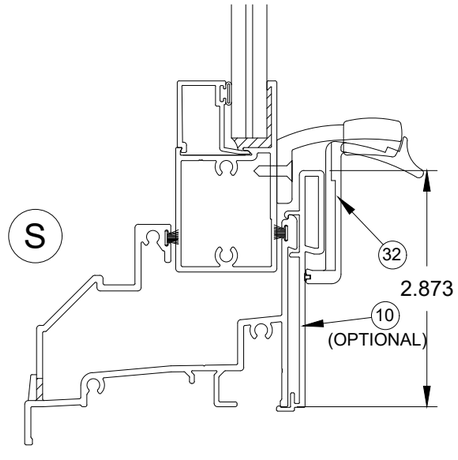
GLASS TYPE "G4 OR G4A"





OPTIONAL 15 PSF WATER BAR ADAPTOR

CAN NOT BE USED WITH LOCK TYPE 6



FRAME AND VENT DETAILS FOR GLASS TYPES "G1" & "G2"
SEE SHEETS 5 & 7 FOR CAPACITIES.

Rev.#	Date

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N. VENICE, FL 34275
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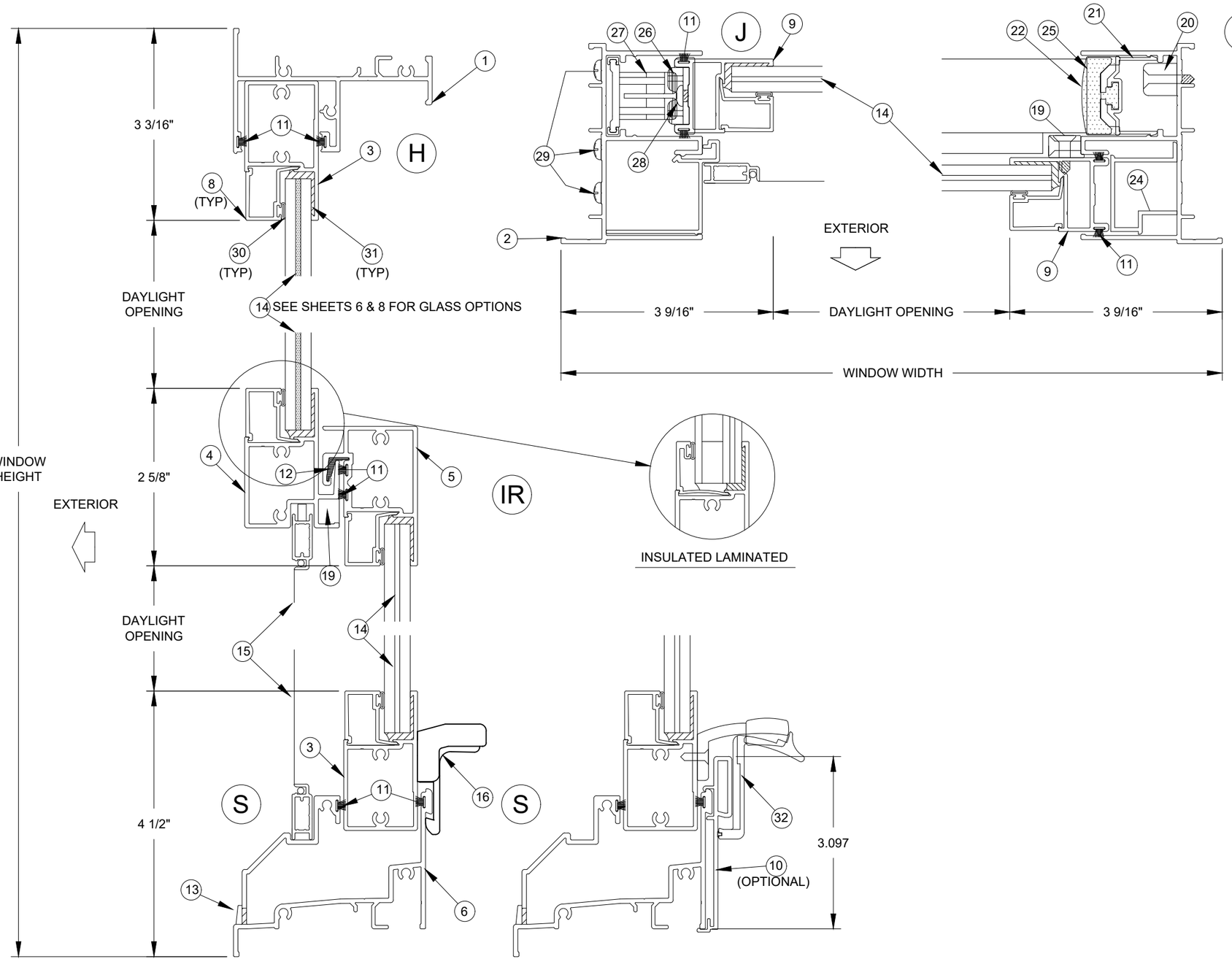
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Title	SERIES "360" ALUM SINGLE HUNG WDW (LMI)
Desc.	SECTION DETAILS
Series	SH360
Sheet	2 OF 13
DWG No.	SH360LMI-FPA
Drawn By	A. MORLESIN
Date	1/5/23

ANTHONY LYNN MILLER
LICENSE
No. 58705
A. Lynn Miller
2/10/23
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705



Standard 12 Psf Sill

Optional 15 PSF Water Bar Adaptor

Can not be used with lock type 6 ◯

FRAME AND VENT DETAILS FOR GLASS TYPES 'G3','G3A', 'G4' & 'G4A'
SEE SHEETS 6 & 8 FOR CAPACITIES.
OPTIONAL TOP RAIL SWEEP LOCK NOT AVAILABLE WITH THESE GLASS TYPES.

Rev.# | Date | Rev.

PREPARED BY A. LYNN MILLER
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Title	Date
SERIES "360" ALUM SINGLE HUNG WDW (LMI)	1/5/23

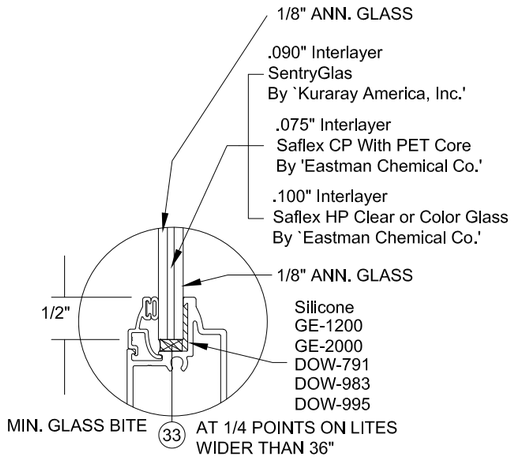
Desc.	Drawn By
SECTION DETAILS	A. MORLESIN

Series	DWG No.
SH360	SH360LMI-FPA

Sheet
3 OF 13

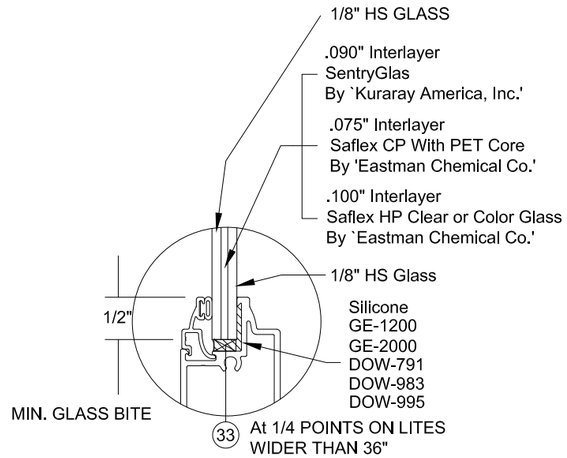
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A. Lynn Miller
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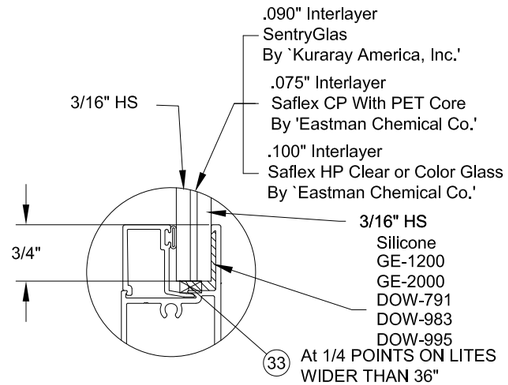
GLASS TYPE 'G1'

5/16" NOM. GLASS
ANNEALED/ANNEALED

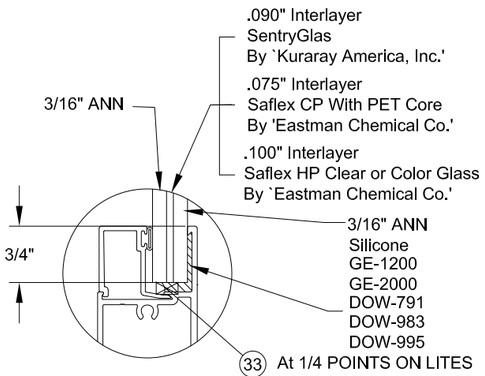


GLASS TYPE'G2'

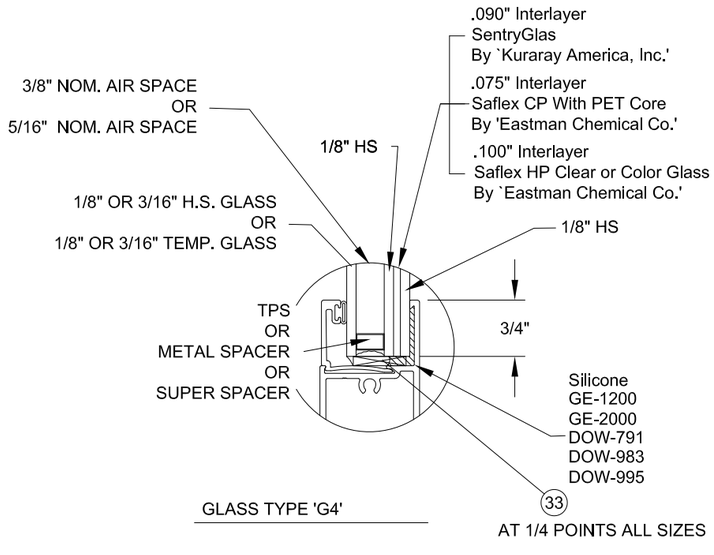
5/16" NOM. GLASS
HS/HS



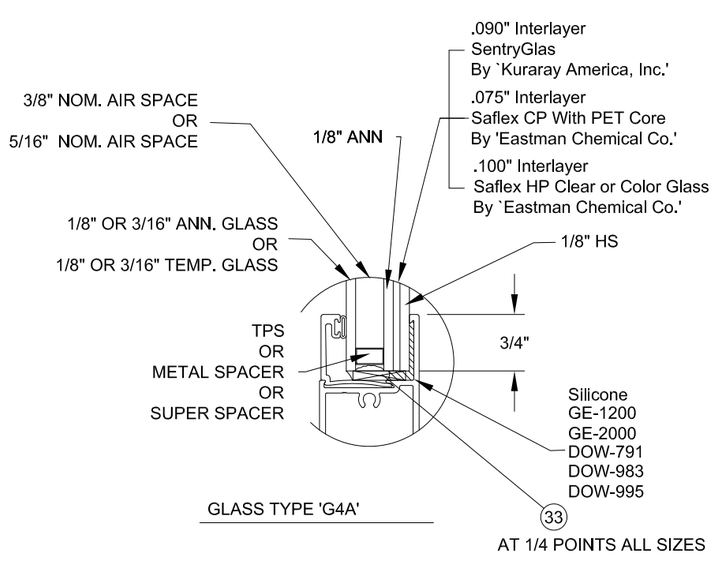
GLASS TYPE 'G3'



GLASS TYPE 'G3A'



GLASS TYPE 'G4'



GLASS TYPE 'G4A'

NOTE:
FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, OR SAFETY GLAZING APPLICATIONS PER FBC, THE OUTBOARD LITE (CAP) MUST BE TEMPERED.

Rev.# | Date | Rev.

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
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Date 1/5/23
Drawn By A. MORLESIN
DWG No. SH360LMI-FPA
Sheet 4 OF 13

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Title: SERIES "360" ALUM SINGLE HUNG WDW (LMI)
Desc.: GLASS TYPES
Series: SH360

ANTHONY LYNN MILLER
LICENSE
No. 58705
A. Lynn Miller
2/10/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

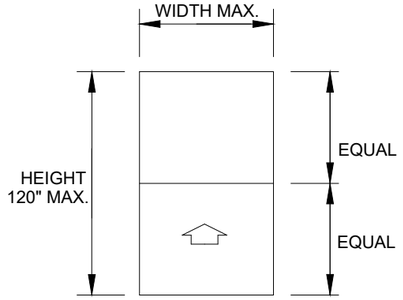
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)

ALL VALUES SHOWN ARE DESIGN PSF (POUNDS PER SQUARE FOOT)

VALUES FOR EXTERIOR LOADS(+) SHOWN ARE
FOR SILL WITH WATERBAR ADAPTER
FOR WINDOWS WITHOUT WATERBAR ADAPTER
LIMIT EXTERIOR(+) LOADS TO 80.0 PSF

TABLE: 2A

EQUAL LITES WINDOWS									
DESIGN LOAD CAPACITY - PSF									
WINDOW DIMS.		GLASS TYPE 'G3'		GLASS TYPE 'G3A'		GLASS TYPE 'G4'		GLASS TYPE 'G4A'	
WIDTH	HEIGHT	POS.(+)	NEG.(-)	POS.(+)	NEG.(-)	POS.(+)	NEG.(-)	POS.(+)	NEG.(-)
24"	48"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	209.0
30"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	209.0
32"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	209.0
36"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	203.0
42"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	171.0
48"		100.0	200.0	100.0	200.0	100.0	200.0	100.0	148.0
54"		100.0	171.4	100.0	171.4	100.0	171.4	100.0	131.0
24"	60"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	209.0
30"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	200.0
32"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	188.0
36"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	156.0
42"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	135.0
48"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	117.0
54"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	101.0
24"	72"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	205.0
30"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	155.0
32"		100.0	210.0	100.0	191.2	100.0	210.0	100.0	147.0
36"		100.0	210.0	100.0	198.4	100.0	210.0	100.0	137.0
42"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	119.0
48"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	102.0
54"		100.0	120.0	100.0	120.0	100.0	120.0	88.5	88.5
24"	84"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	180.0
30"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	136.0
32"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	129.0
36"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	117.0
42"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	105.0
48"		100.0	120.0	100.0	120.0	100.0	120.0	92.7	92.7
54"		100.0	120.0	100.0	120.0	100.0	120.0	80.4	80.4
24"	96"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	157.0
30"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	117.0
32"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	109.0
36"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	102.0
42"		100.0	120.0	100.0	120.0	100.0	120.0	90.8	90.6
48"		100.0	120.0	100.0	120.0	100.0	120.0	80.9	83.7
54"		100.0	120.0	100.0	112.6	100.0	120.0	73.2	74.5
24"	108"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	140.0
30"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	103.0
32"		100.0	120.0	100.0	120.0	100.0	120.0	97.6	97.6
36"		100.0	120.0	100.0	120.0	100.0	120.0	88.9	88.9
42"		100.0	120.0	100.0	120.0	100.0	120.0	79.4	79.4
48"		100.0	120.0	100.0	112.2	100.0	120.0	72.8	72.8
24"	120"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	129.0
30"		100.0	120.0	100.0	120.0	100.0	120.0	94.7	94.7
32"		100.0	120.0	100.0	120.0	100.0	120.0	88.9	88.9
36"		100.0	120.0	100.0	120.0	100.0	120.0	80.2	80.2
42"		100.0	120.0	100.0	114.1	100.0	120.0	70.3	70.3



EQUAL LITE WINDOW

TABLE: 2B

EQUAL LITES WINDOWS									
DESIGN LOAD CAPACITY - PSF									
WINDOW DIMS.		GLASS TYPE '3'		GLASS TYPE '3A'		GLASS TYPE '4'		GLASS TYPE '4A'	
WIDTH	HEIGHT	POS.(+)	NEG.(-)	POS.(+)	NEG.(-)	POS.(+)	NEG.(-)	POS.(+)	NEG.(-)
19-1/8"	26"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	210.0
26-1/2"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	210.0
37"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	210.0
53-1/8"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	210.0
19-1/8"	38-3/8"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	210.0
26-1/2"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	210.0
37"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	210.0
53-1/8"		100.0	206.9	100.0	206.9	100.0	206.9	100.0	180.0
19-1/8"	50-5/8"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	210.0
26-1/2"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	210.0
37"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	183.0
53-1/8"		100.0	168.7	100.0	168.7	100.0	168.7	100.0	123.0
19-1/8"	63"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	210.0
26-1/2"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	210.0
37"		100.0	210.0	100.0	191.9	100.0	210.0	100.0	145.0
53-1/8"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	99.0
19-1/8"	72"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	210.0
26-1/2"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	184.0
37"		100.0	210.0	100.0	196.5	100.0	210.0	100.0	134.0
53-1/8"		100.0	120.0	100.0	120.0	100.0	120.0	94.6	90.0
19-1/8"	76"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	210.0
26-1/2"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	169.0
37"		100.0	210.0	100.0	194.8	100.0	210.0	100.0	124.0
53-1/8"		100.0	120.0	100.0	120.0	100.0	120.0	88.3	85.0

TABLE: 1A

EQUAL LITES WINDOWS					
DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPE 'G1'		GLASS TYPE 'G2'	
WIDTH	HEIGHT	POS.(+)	NEG.(-)	POS.(+)	NEG.(-)
24"	48"	100.0	210.0	100.0	210.0
30"		100.0	210.0	100.0	210.0
32"		100.0	210.0	100.0	210.0
36"		100.0	180.0	100.0	210.0
42"		100.0	144.0	100.0	210.0
48"		100.0	120.0	100.0	200.0
54"		100.0	102.9	100.0	171.4
24"	60"	100.0	210.0	100.0	210.0
30"		100.0	199.7	100.0	210.0
32"		100.0	190.3	100.0	210.0
36"		100.0	164.3	100.0	210.0
42"		100.0	128.0	100.0	210.0
48"		100.0	104.7	100.0	120.0
54"		88.6	88.6	100.0	120.0
24"	72"	100.0	201.1	100.0	210.0
30"		100.0	162.1	100.0	210.0
32"		100.0	167.6	100.0	210.0
36"		100.0	150.7	100.0	210.0
42"		100.0	120.0	100.0	120.0
48"		96.0	96.0	100.0	120.0
54"		80.0	80.0	100.0	120.0
24"	84"	100.0	179.1	100.0	210.0
30"		100.0	143.4	100.0	210.0
32"		100.0	135.3	100.0	210.0
36"		100.0	120.0	100.0	120.0
42"		100.0	106.1	100.0	120.0
48"		85.6	85.6	100.0	120.0
54"		74.8	74.8	100.0	120.0
24"	96"	100.0	161.9	100.0	210.0
30"		100.0	118.8	100.0	120.0
32"		100.0	111.9	100.0	120.0
36"		100.0	101.5	100.0	120.0
42"		85.4	85.4	100.0	120.0
48"		76.2	76.2	100.0	120.0
54"		68.9	68.9	100.0	120.0
24"	108"	100.0	142.4	100.0	210.0
30"		100.0	102.2	100.0	120.0
32"		94.9	94.9	100.0	120.0
36"		85.9	85.9	100.0	120.0
42"		75.3	75.3	100.0	120.0
48"		68.6	68.6	100.0	120.0
24"	120"	100.0	120.0	100.0	120.0
30"		90.7	90.7	100.0	120.0
32"		83.6	83.6	100.0	120.0
36"		75.9	75.9	100.0	120.0
42"		66.4	66.4	100.0	120.0

TABLE: 1C

EQUAL LITES WINDOWS					
DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPE 'G1'		GLASS TYPE 'G2'	
WIDTH	HEIGHT	POS.(+)	NEG.(-)	POS.(+)	NEG.(-)
19-1/8"	26"	100.0	210.0	100.0	210.0
26-1/2"		100.0	210.0	100.0	210.0
37"		100.0	210.0	100.0	210.0
53-1/8"		100.0	171.1	100.0	210.0
19-1/8"	38-3/8"	100.0	210.0	100.0	210.0
26-1/2"		100.0	210.0	100.0	210.0
37"		100.0	197.2	100.0	210.0
53-1/8"		100.0	124.1	100.0	206.9
19-1/8"	50-5/8"	100.0	210.0	100.0	210.0
26-1/2"		100.0	210.0	100.0	210.0
37"		100.0	168.3	100.0	210.0
53-1/8"		100.0	101.2	100.0	168.7
19-1/8"	63"	100.0	210.0	100.0	210.0
26-1/2"		100.0	207.5	100.0	210.0
37"		100.0	154.9	100.0	210.0
53-1/8"		88.1	88.1	100.0	120.0
19-1/8"	72"	100.0	210.0	100.0	210.0
26-1/2"		100.0	181.5	100.0	210.0
37"		100.0	146.8	100.0	210.0
53-1/8"		82.0	82.0	100.0	120.0
19-1/8"	76"	100.0	210.0	100.0	210.0
26-1/2"		100.0	171.4	100.0	210.0
37"		100.0	136.6	100.0	210.0
53-1/8"		80.0	80.0	100.0	120.0

Rev.#
Date
Rev.

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Date 1/5/23
Drawn By A. MORLESIN
DWG No. SH360LMI-FPA
Title SERIES "360" ALUM SINGLE HUNG WDW (LMI)
Desc. DESIGN LOAD TABLES
Series SH360
Sheet 5 OF 13

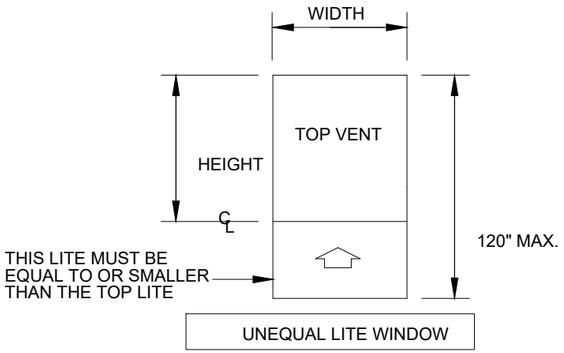
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PROFESSIONAL ENGINEER
2/10/23
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P.E.# 58705

TABLE: 3B

UNEQUAL LITES WINDOWS (ORIEL)						
DESIGN LOAD CAPACITY - PSF						
WINDOW DIMS.		TOP VENT HEIGHT	GLASS TYPE '1'		GLASS TYPE '2'	
WIDTH	HEIGHT		POS.(+)	NEG.(-)	POS.(+)	NEG.(-)
19-1/8"	96" (MAX.)	48"	100.0	210.0	100.0	210.0
26-1/2"			100.0	138.5	100.0	210.0
37"			99.3	99.3	100.0	120.0
53-1/8"			69.8	69.8	100.0	120.0
19-1/8"	108" (MAX.)	54"	100.0	210.0	100.0	210.0
26-1/2"			100.0	120.0	100.0	120.0
37"			83.6	83.6	100.0	120.0
19-1/8"	120" (MAX.)	60"	100.0	210.0	100.0	210.0
26-1/2"			100.0	108.6	100.0	120.0
37"			73.7	73.7	100.0	120.0
19-1/8"	120" (MAX.)	66"	100.0	210.0	100.0	210.0
26-1/2"			99.5	99.5	100.0	120.0
37"			65.7	65.7	100.0	120.0
19-1/8"	120" (MAX.)	72"	100.0	210.0	100.0	210.0
26-1/2"			93.9	93.9	100.0	120.0
19-1/8"	120" (MAX.)	78"	100.0	120.0	100.0	120.0
26-1/2"			88.0	88.0	100.0	120.0
19-1/8"	120" (MAX.)	84"	100.0	120.0	100.0	120.0
26-1/2"			79.8	79.8	100.0	120.0
24"	96" (MAX.)	48"	100.0	161.9	100.0	210.0
30"			100.0	118.8	100.0	120.0
32"			100.0	111.9	100.0	120.0
36"			100.0	101.5	100.0	120.0
42"			85.4	85.4	100.0	120.0
48"			76.2	76.2	100.0	120.0
54"			68.9	68.9	100.0	120.0
24"	108" (MAX.)	54"	100.0	142.4	100.0	210.0
30"			100.0	102.2	100.0	120.0
32"			94.9	94.9	100.0	120.0
36"			85.9	85.9	100.0	120.0
42"			75.3	75.3	100.0	120.0
48"			68.6	68.6	100.0	120.0
24"	120" (MAX.)	60"	100.0	120.0	100.0	120.0
30"			90.7	90.7	100.0	120.0
32"			83.6	83.6	100.0	120.0
36"			75.9	75.9	100.0	120.0
42"			66.4	66.4	100.0	120.0
24"	120" (MAX.)	66"	100.0	120.0	100.0	120.0
30"			81.7	81.7	100.0	120.0
32"			77.7	77.7	100.0	120.0
36"			67.4	67.4	100.0	120.0
24"	120" (MAX.)	72"	100.0	113.6	100.0	120.0
30"			77.1	77.1	100.0	120.0
32"			70.1	70.1	100.0	120.0
36"			60.3	60.3	100.0	120.0
24"	120" (MAX.)	78"	100.0	120.0	100.0	120.0
30"			71.2	71.2	100.0	120.0
32"			63.8	63.8	100.0	120.0
24"	120" (MAX.)	84"	100.0	120.0	100.0	120.0
30"			66.6	66.6	100.0	120.0

TABLE: 4B

UNEQUAL LITES WINDOWS (ORIEL)									
DESIGN LOAD CAPACITY - PSF									
WINDOW DIMS.		TOP VENT HEIGHT	GLASS TYPE '3'		GLASS TYPE '3A'		GLASS TYPE '4'		GLASS TYPE '4A'	
WIDTH	HEIGHT		POS.(+)	NEG.(-)	POS.(+)	NEG.(-)	POS.(+)	NEG.(-)	POS.(+)	NEG.(-)
19-1/8"	96" (MAX.)	48"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	209.0
26-1/2"			100.0	210.0	100.0	210.0	100.0	210.0	100.0	136.0
37"			100.0	120.0	100.0	120.0	100.0	120.0	97.8	97.8
53-1/8"			100.0	120.0	100.0	114.4	100.0	120.0	75.4	75.4
19-1/8"	108" (MAX.)	54"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	204.0
26-1/2"			100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0
37"			100.0	120.0	100.0	120.0	100.0	120.0	85.4	85.4
19-1/8"	120" (MAX.)	60"	100.0	210.0	100.0	204.2	100.0	210.0	100.0	205.0
26-1/2"			100.0	120.0	100.0	120.0	100.0	120.0	100.0	107.0
37"			100.0	120.0	100.0	120.0	100.0	120.0	77.1	77.1
19-1/8"	120" (MAX.)	66"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	207.0
26-1/2"			100.0	120.0	100.0	120.0	100.0	120.0	99.7	99.7
37"			100.0	120.0	100.0	120.0	100.0	120.0	68.4	68.4
19-1/8"	120" (MAX.)	72"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	199.0
26-1/2"			100.0	120.0	100.0	120.0	100.0	120.0	94.5	94.5
19-1/8"	120" (MAX.)	78"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	192.0
26-1/2"			100.0	120.0	100.0	120.0	100.0	120.0	91.3	91.3
19-1/8"	120" (MAX.)	84"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	181.0
26-1/2"			100.0	120.0	100.0	120.0	100.0	120.0	89.2	89.2
24"	96" (MAX.)	48"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	154.0
30"			100.0	120.0	100.0	120.0	100.0	120.0	100.0	114.0
32"			100.0	120.0	100.0	120.0	100.0	120.0	100.0	114.0
36"			100.0	120.0	100.0	120.0	100.0	120.0	99.9	99.9
42"			100.0	120.0	100.0	120.0	100.0	120.0	88.8	88.8
48"			100.0	120.0	100.0	120.0	100.0	120.0	82.3	82.3
54"			100.0	120.0	100.0	112.6	100.0	120.0	73.7	73.7
24"	108" (MAX.)	54"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	138.0
30"			100.0	120.0	100.0	120.0	100.0	120.0	100.0	101.0
32"			100.0	120.0	100.0	120.0	100.0	120.0	100.0	101.0
36"			100.0	120.0	100.0	120.0	100.0	120.0	87.4	87.4
42"			100.0	120.0	100.0	120.0	100.0	120.0	78.2	78.2
48"			100.0	120.0	100.0	112.2	100.0	120.0	71.5	71.5
24"	120" (MAX.)	60"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	127.0
30"			100.0	120.0	100.0	120.0	100.0	120.0	93.4	93.4
32"			100.0	120.0	100.0	120.0	100.0	120.0	93.4	93.4
36"			100.0	120.0	100.0	120.0	100.0	120.0	79.0	79.0
42"			100.0	120.0	100.0	114.1	100.0	120.0	69.1	69.1
24"	120" (MAX.)	66"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0
30"			100.0	120.0	100.0	120.0	100.0	120.0	83.7	83.7
32"			100.0	120.0	100.0	120.0	100.0	120.0	83.7	83.7
36"			100.0	120.0	100.0	120.0	100.0	120.0	70.0	70.0
24"	120" (MAX.)	72"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	117.0
30"			100.0	120.0	100.0	120.0	100.0	120.0	76.2	76.2
32"			100.0	120.0	100.0	120.0	100.0	120.0	76.2	76.2
36"			100.0	120.0	100.0	120.0	100.0	115.2	61.9	61.9
24"	120" (MAX.)	78"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0
30"			100.0	120.0	100.0	120.0	100.0	120.0	72.2	72.2
32"			100.0	120.0	100.0	120.0	100.0	120.0	72.2	72.2
24"	120" (MAX.)	84"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	118.0
30"			100.0	120.0	100.0	120.0	100.0	120.0	68.9	68.9



NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS)

NOTE:
TO QUALIFY FOR SMALL MISSILE IMPACT RATING THE EXTERIOR PANE FOR GLASS TYPES "4" AND "4A" MUST BE TEMPERED.
(INSTALLATIONS ABOVE 30 FT. OF GRADE)

VALUES FOR EXTERIOR LOADS(+) SHOWN ARE FOR SILL WITH WATERBAR ADAPTER
FOR WINDOWS WITHOUT WATERBAR ADAPTER LIMIT EXTERIOR(+) LOADS TO 80.0 PSF

Rev.#
Date
Rev.

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

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DWG No. SH360LMI-FPA
Sheet 6 OF 13

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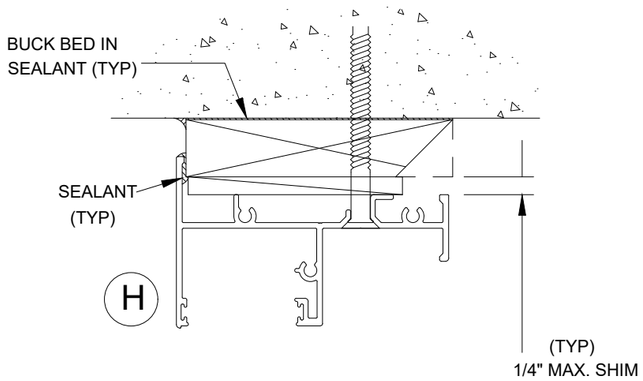
Title SERIES "360" ALUM SINGLE HUNG WDW (LMI)
Desc. DESIGN LOAD TABLES / GLASS
Series SH360

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LICENSE
No. 58705
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PROFESSIONAL ENGINEER
2/10/23

A. LYNN MILLER, P.E.
P.E.# 58705

INSTALLATION TYPE "A"

W/ 1 x 4 BEVELED P.T. WOOD BUCK

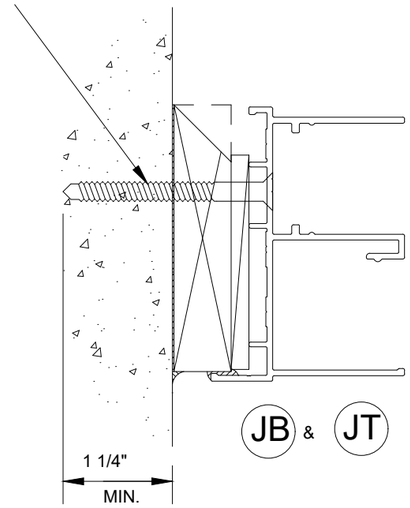


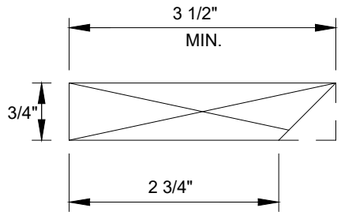
SEE ANCHOR TABLE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TABLE: 5

Anchor Type	Substrate	Frame Members	Min. Edge Distance	Min. Enbedment or Metal Thickness
1/4" DIA. Ultracon + 1/4" DIA. Hilti Kwik-con II	Southern Pine (SG = 0.55)	All	1"	1-1/2"
	Thru 1BY Buck into Concrete	All	2-1/2"	1-1/4"
	Hollow or Grout-filled CMU (ASTM C90)	All	2-1/2"	1-3/4"
	Concrete (min. 3.0 ksi)	All	2-1/2"	1-3/4"
1/4" DIA. TEKS or Self Drilling Screws	A36 Steel	All	3/4"	(3) Threads min. to extended beyond metal thickness
	Steel Stud, Gr 33	All	3/4"	(3) Threads min. to extended beyond metal thickness
	Aluminum 1/8" Thk Min. (6063-T5)	All	3/4"	(3) Threads min. to extended beyond metal thickness
#14 SMS	Aluminum 1/8" Thk Min. (6063-T5) (no Shim)	All	3/4"	(3) Threads min. to extended beyond metal thickness
	Steel Stud, Gr 33	All	3/4"	(3) Threads min. to extended beyond metal thickness





1 x 4 BEVELED P.T.
WOOD BUCK (TYP)

VALUES FOR INSTALLATION TYPE "A" APPLY TO THE FOLLOWING INSTALLATION TYPES WITH MAXIMUM SHIM SPACE 1/4":

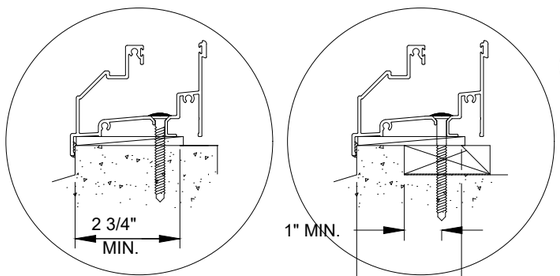
1)- USING 1BY P.T. WOOD BUCKS, MIN. 3/4" THICK,

2)- DIRECTLY INTO MASONRY, WITHOUT THE USE OF WOOD BUCKS.

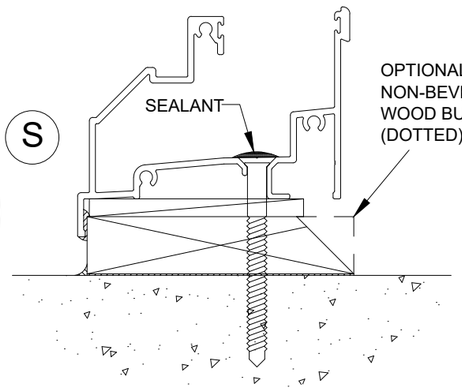
3)- DIRECTLY INTO STEEL OR ALUMINUM STRUCTURE
MIN.. 1/8" THICK AND USING #14 TEKS OR SELF DRILLING SCREWS.
STRUCTURE MUST BE DESIGN BY OTHERS TO SUSTAIN THE LOADS IMPOSED BY THE WINDOW

IMPORTANT NOTE:

WOOD BUCKS MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM INTO THE BUILDING STRUCTURE.



OPTIONAL PRE-CAST SILL



Rev.#	Date	Drawn By	DWG No.
	1/5/23	A. MORLESIN	SH360LMI-FPA

PREPARED BY A. LYNN MILLER
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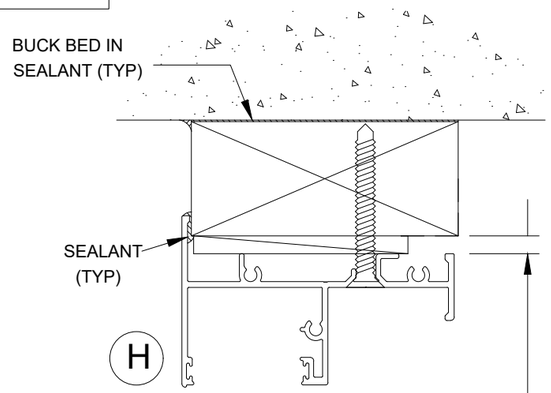
Title	Desc.	Series	Sheet
SERIES "360" ALUM SINGLE HUNG WDW (LMI)	ANCHORS	SH360	7 OF 13

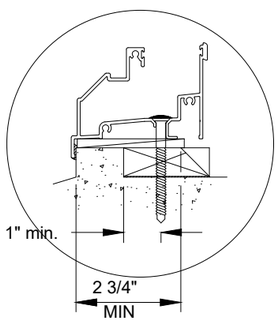
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No. 58705
A. Lynn Miller
2/10/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

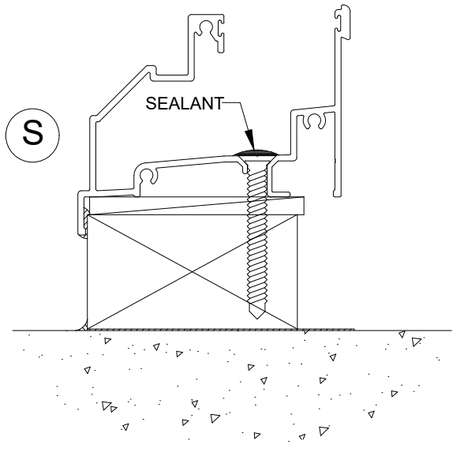
INSTALLATION TYPE "B"

W/ 2X4 BEVELED P.T. WOOD BUCK



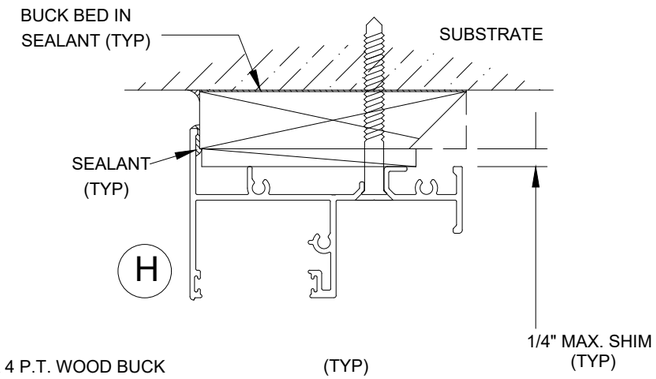


OPTIONAL PRE-CAST SILL



INSTALLATION TYPE "C"

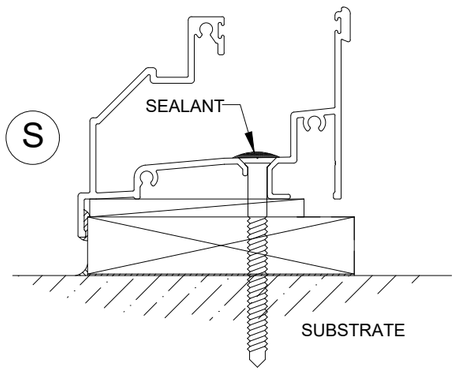
BASED ON WOOD PENETRATION ONLY
USING 1 x 4 or 2 x 4 WOOD BUCKS



SEE INSTALLATION
Types "A" & "B"
for 1 x 4 & 2 x 4
P.T. Wood Buck Styles

IMPORTANT NOTE:

Wood Bucks must sustain loads imposed by glazing system and transfer them to the building structure.



Rev.#	Date	Drawn By	DWG No.
	1/5/23	A. MORLESIN	SH360LMI-FPA

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
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Title	Desc.	Series	Sheet
SERIES "360" ALUM SINGLE HUNG WDW (LMI)	ANCHORS	SH360	8 OF 13

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
2/10/23

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE: 6A

ANCHORS				
DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS.		NO. OF ANCHORS AT JAMB	STD. HOLE PATTERN W/O ADDL. ANCHOR	STD. HOLE PATTERN WITH ADDL. ANCHOR
WIDTH	HEIGHT		POS.(+) & NEG.(-)	POS.(+) & NEG.(-)
24"	48"	4	210.0	210.0
30"			210.0	210.0
32"			210.0	210.0
36"			196.0	210.0
42"			174.2	210.0
48"			151.7	196.0
54"			127.1	178.2
24"	60"	6	210.0	210.0
30"			210.0	210.0
32"			210.0	210.0
36"			210.0	210.0
42"			171.1	210.0
48"			134.4	201.6
54"			110.7	166.0
24"	72"	8	210.0	210.0
30"			210.0	210.0
32"			210.0	210.0
36"			210.0	210.0
42"			165.1	210.0
48"			125.4	188.2
54"			101.2	151.7
24"	84"	8	210.0	210.0
30"			210.0	210.0
32"			207.5	210.0
36"			190.1	210.0
42"			164.9	192.0
48"			122.2	175.3
54"			96.0	144.0
24"	96"	8	210.0	210.0
30"			185.8	209.1
32"			176.4	198.5
36"			160.8	180.9
42"			143.4	161.3
48"			122.1	147.0
54"			94.1	135.7
24"	108"	10	210.0	210.0
30"			202.3	210.0
32"			191.7	210.0
36"			174.2	191.6
42"			154.5	169.9
48"			122.1	154.0
24"	120"	10	210.0	210.0
30"			179.2	197.1
32"			169.6	186.6
36"			153.7	169.1
42"			135.8	149.3

TABLE: 6B

ANCHORS				
DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS.		NO. OF ANCHORS AT JAMB	STD. HOLE PATTERN W/O ADDL. ANCHOR	STD. HOLE PATTERN WITH ADDL. ANCHOR
WIDTH	HEIGHT		POS.(+) & NEG.(-)	POS.(+) & NEG.(-)
19-1/8"	26"	4	210.0	210.0
26-1/2"			210.0	210.0
37"			210.0	210.0
53-1/8"			208.6	210.0
19-1/8"	38-3/8"	4	210.0	210.0
26-1/2"			210.0	210.0
37"			210.0	210.0
53-1/8"			152.7	210.0
19-1/8"	50-5/8"	4	210.0	210.0
26-1/2"			210.0	210.0
37"			179.6	210.0
53-1/8"			125.7	169.5
19-1/8"	63"	6	210.0	210.0
26-1/2"			210.0	210.0
37"			203.8	210.0
53-1/8"			110.7	166.1
19-1/8"	72"	8	210.0	210.0
26-1/2"			210.0	210.0
37"			210.0	210.0
53-1/8"			104.1	156.1
19-1/8"	76"	8	210.0	210.0
26-1/2"			210.0	210.0
37"			210.0	210.0
53-1/8"			102.1	153.1

LOADS APPLY TO INSTALLATION TYPES A, B & C AND INTO ALUMINUM BUCKS FOR ALUMINUM BUCK INSTALLATION SEE SHEETS 8 AND 9.

REFER TO SHEETS 4 & 5 FOR DESCRIPTIONS OF INSTALLATION TYPES A - B - C

Rev.# | Date | Rev.

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Date 1/5/23
Drawn By A. MORLESIN
DWG No. SH360LMI-FPA
Sheet 9 OF 13
Series SH360
Desc. DESIGN LOAD TABLES
Title SERIES "360" ALUM SINGLE HUNG WDW (LMI)

WINDOOR® INCORPORATED
WINDOOR INCORPORATED
104 TRIPLE DIAMOND BLVD
N VENICE, FL 34275
(833) 554-5432

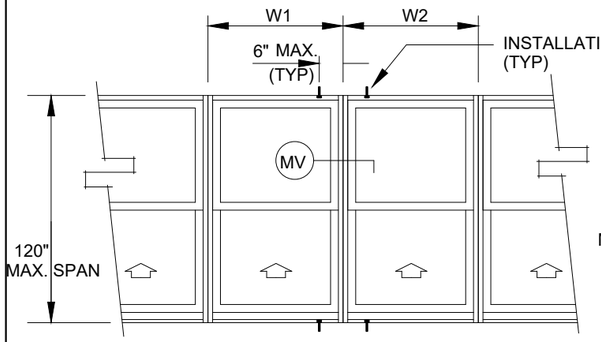
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
2/10/23

A. LYNN MILLER, P.E.
P.E.# 58705

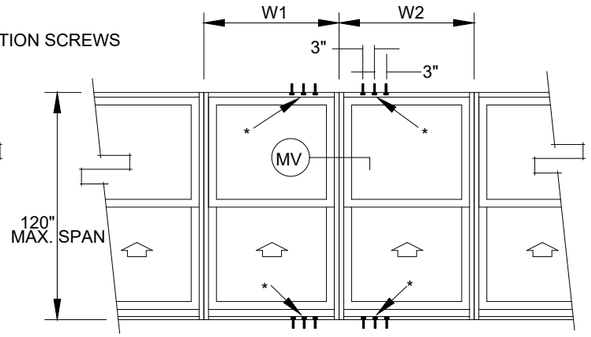
VERTICAL MULLION PERFORMANCE

$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

FOR WINDOW PERFORMANCE, REFER TO SHEETS 3



MULTIPLE OPENING
(2 OR MORE WINDOWS)
W/ 1 SCREW ON EACH SIDE OF MULLION
STANDARD INSTALLATION

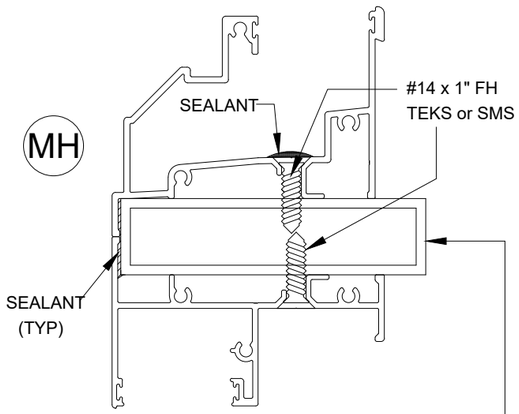


MULTIPLE OPENING
(2 OR MORE WINDOWS)
W/ 2 or 3 SCREWS ON EACH SIDE OF MULLION
HIGH LOAD INSTALLATION

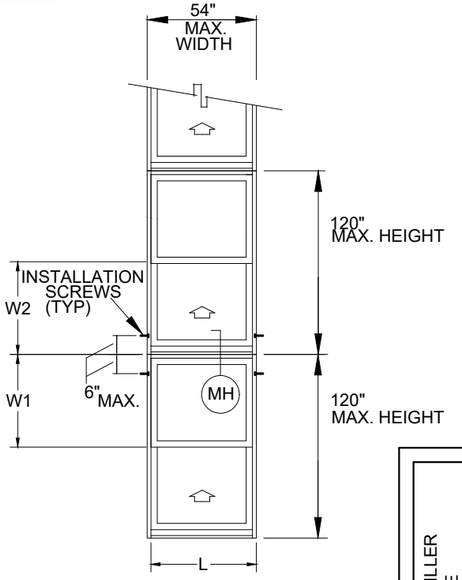
(* = ADDITIONAL HOLES TO BE DRILLED BY INSTALLER)

HORIZONTAL MULLION PERFORMANCE

FOR WINDOW PERFORMANCE, REFER TO SHEET 3



1" x 4" x 1/8" THK. ALUMINUM
TUBE MULLION (UNCLIPPED AT ENDS)
(MULL LENGTH = WDW. WIDTH - 1")



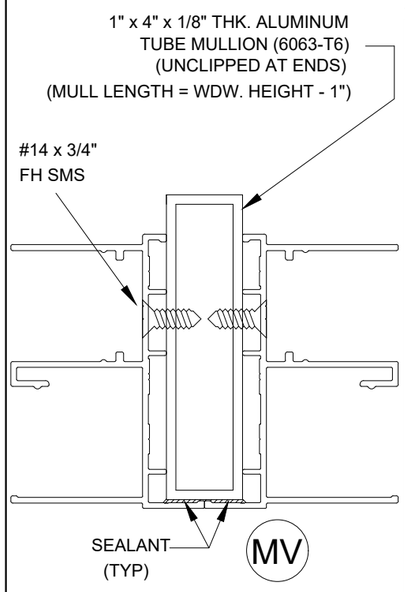


TABLE: 7A

MULLION DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS.		ONE ANCHOR EACH SIDE	TWO ANCHORS EACH SIDE	THREE ANCHORS EACH SIDE
WIDTH	HEIGHT	POS.(+) & NEG.(-)	POS.(+) & NEG.(-)	POS.(+) & NEG.(-)
24"	48"	150.0	210.0	210.0
30"		130.9	210.0	210.0
32"		126.6	210.0	210.0
36"		120.0	210.0	210.0
42"		114.5	210.0	210.0
48"		112.5	210.0	210.0
54"		112.5	210.0	210.0
24"	60"	112.5	210.0	210.0
30"		96.0	192.0	210.0
32"		92.0	184.1	210.0
36"		85.7	171.4	210.0
42"		79.1	158.2	210.0
48"		75.0	150.0	210.0
54"		72.7	145.5	210.0
24"	72"	90.0	180.0	210.0
30"		75.8	151.6	210.0
32"		72.3	144.6	210.0
36"		66.7	133.3	197.9
42"		60.5	121.0	175.4
48"		56.3	112.5	159.8
54"		53.3	106.7	149.0
24"	84"	75.0	150.0	202.2
30"		62.6	125.2	164.2
32"		59.6	119.1	154.8
36"		54.5	109.1	139.5
42"		49.0	98.0	122.4
48"		45.0	90.0	110.0
54"		42.1	84.2	101.2

TABLE: 7B

MULLION DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS.		ONE ANCHOR EACH SIDE	TWO ANCHORS EACH SIDE	THREE ANCHORS EACH SIDE
WIDTH	HEIGHT	POS.(+) & NEG.(-)	POS.(+) & NEG.(-)	POS.(+) & NEG.(-)
24"	96"	64.3	128.6	142.1
30"		53.3	106.7	115.3
32"		50.6	101.2	108.7
36"		46.2	92.3	97.8
42"		41.1	82.3	85.6
48"		37.5	75.0	76.8
54"		34.8	69.6	70.3
24"	108"	56.3	99.3	99.3
30"		46.5	80.3	80.3
32"		44.0	75.6	75.6
36"		40.0	67.8	67.8
42"		35.5	59.1	59.1
48"		32.1	52.8	52.8
24"	120"	50.0	72.1	72.1
30"		41.1	58.2	58.2
32"		38.9	54.7	54.7
36"		35.3	49.0	49.0
42"		31.2	42.6	42.6

TABLE: 7C

MULLION DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS.		ONE ANCHOR EACH SIDE	TWO ANCHORS EACH SIDE	THREE ANCHORS EACH SIDE
WIDTH	HEIGHT	POS.(+) & NEG.(-)	POS.(+) & NEG.(-)	POS.(+) & NEG.(-)
53-1/8"	26"	210.0	210.0	210.0
19-1/8"	38-3/8"	210.0	210.0	210.0
26-1/2"		194.6	210.0	210.0
37"		176.2	210.0	210.0
53-1/8"		176.0	210.0	210.0
19-1/8"	50-5/8"	165.0	210.0	210.0
26-1/2"		130.9	210.0	210.0
37"		109.0	210.0	210.0
53-1/8"		101.1	202.3	210.0
19-1/8"	63"	126.8	210.0	210.0
26-1/2"		98.3	196.6	210.0
37"		78.7	157.4	210.0
53-1/8"		67.0	133.9	200.9
19-1/8"	72"	108.5	210.0	210.0
26-1/2"		83.2	166.5	210.0
37"		65.5	130.9	193.5
53-1/8"		53.7	107.4	150.3
19-1/8"	76"	102.0	204.0	210.0
26-1/2"		77.9	155.9	210.0
37"		60.9	121.8	170.9
53-1/8"		49.3	98.7	131.1

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Rev.#	Date	By	DWG No.	Sheet
	1/5/23	A. MORLESIN	SH360LMI-FPA	10 OF 13

Title: SERIES "360" ALUM SINGLE HUNG WDW (LMI)
Desc.: DESIGN LOAD TABLE/MULLIONS
Series: SH360

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
2/10/23

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE: 8A

PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS POS.(+) & NEG.(-)

WINDOW DIMS.		ANCHOR SPACING INTO CONC.		ANCHOR SPACING INTO HOLLOW BLOCK		ANCHOR SPACING INTO WOOD	
WIDTH	HEIGHT	16" O.C.	8" O.C.	16" O.C.	8" O.C.	16" O.C.	8" O.C.
24"	48"	210.0	210.0	178.7	210.0	210.0	210.0
30"		210.0	210.0	155.9	210.0	210.0	210.0
32"		210.0	210.0	150.8	210.0	210.0	210.0
36"		210.0	210.0	142.9	210.0	210.0	210.0
42"		205.7	210.0	131.3	204.2	176.3	210.0
48"		205.7	210.0	131.3	201.0	180.0	210.0
54"		168.0	210.0	107.2	187.6	144.0	210.0
24"	60"	210.0	210.0	134.0	210.0	210.0	210.0
30"		179.2	210.0	114.3	200.1	210.0	210.0
32"		171.8	210.0	109.6	191.9	210.0	210.0
36"		160.0	210.0	102.1	178.7	210.0	210.0
42"		147.7	210.0	94.2	164.9	176.3	210.0
48"		140.0	210.0	89.3	156.3	180.0	210.0
54"		135.8	210.0	86.6	151.6	142.2	210.0
24"	72"	210.0	210.0	134.0	210.0	210.0	210.0
30"		176.8	210.0	112.8	203.1	210.0	210.0
32"		168.8	210.0	107.7	193.8	210.0	210.0
36"		155.6	210.0	99.3	178.7	210.0	210.0
42"		141.2	210.0	90.1	162.2	176.3	210.0
48"		131.3	210.0	83.8	150.8	180.0	210.0
54"		124.4	210.0	79.4	142.9	142.2	210.0
24"	84"	210.0	210.0	134.0	210.0	210.0	210.0
30"		175.3	210.0	111.9	186.4	210.0	210.0
32"		166.8	210.0	106.4	177.4	210.0	210.0
36"		152.7	210.0	97.5	162.4	210.0	210.0
42"		137.1	210.0	87.5	145.9	176.3	210.0
48"		126.0	210.0	80.4	134.0	180.0	210.0
54"		117.9	196.5	75.2	125.4	142.2	210.0
24"	96"	210.0	210.0	134.0	210.0	210.0	210.0
30"		174.2	210.0	111.2	190.6	210.0	210.0
32"		165.4	210.0	105.5	180.9	210.0	210.0
36"		150.8	210.0	96.2	164.9	210.0	210.0
42"		134.4	210.0	85.8	147.0	176.3	210.0
48"		122.5	210.0	78.2	134.0	180.0	210.0
54"		113.6	194.8	72.5	124.3	142.2	210.0
24"	108"	183.8	210.0	117.3	210.0	210.0	210.0
30"		151.7	210.0	96.8	179.8	210.0	210.0
32"		143.8	210.0	91.8	170.4	210.0	210.0
36"		130.7	210.0	83.4	154.8	210.0	210.0
42"		115.9	210.0	73.9	137.3	176.3	210.0
48"		105.0	195.0	67.0	124.4	180.0	210.0
24"	120"	186.7	210.0	119.1	210.0	210.0	210.0
30"		153.6	210.0	98.0	183.8	210.0	210.0
32"		145.4	210.0	92.8	173.9	210.0	210.0
36"		131.8	210.0	84.1	157.6	210.0	210.0
42"		116.4	210.0	74.3	139.2	176.3	210.0

TABLE: 8B

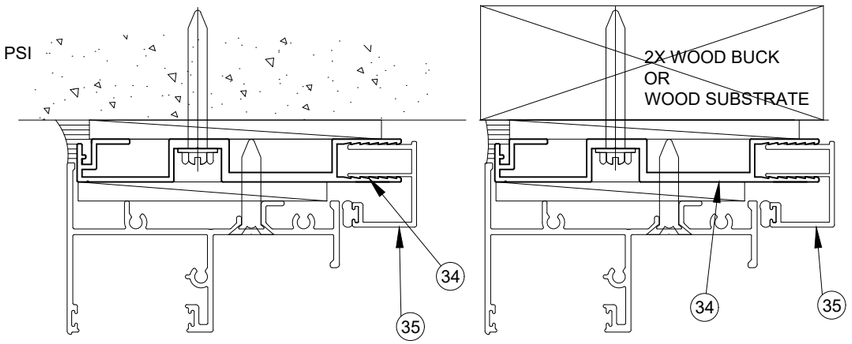
PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS POS.(+) & NEG.(-)

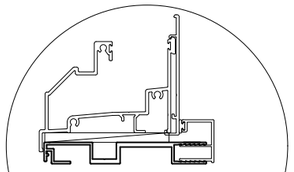
WINDOW DIMS.		ANCHOR SPACING INTO CONC.		ANCHOR SPACING INTO HOLLOW BLOCK		ANCHOR SPACING INTO WOOD	
WIDTH	HEIGHT	16" O.C.	8" O.C.	16" O.C.	8" O.C.	16" O.C.	8" O.C.
19-1/8"	26"	210.0	210.0	210.0	210.0	210.0	210.0
26-1/2"		210.0	210.0	210.0	210.0	210.0	210.0
37"		210.0	210.0	185.5	210.0	210.0	210.0
53-1/8"		210.0	210.0	148.0	210.0	198.8	210.0
19-1/8"	38-3/8"	210.0	210.0	210.0	210.0	210.0	210.0
26-1/2"		210.0	210.0	173.9	210.0	210.0	210.0
37"		210.0	210.0	157.4	210.0	210.0	210.0
53-1/8"		185.8	210.0	118.5	207.4	159.2	210.0
19-1/8"	50-5/8"	210.0	210.0	196.6	210.0	210.0	210.0
26-1/2"		210.0	210.0	155.9	210.0	210.0	210.0
37"		203.5	210.0	129.9	194.8	210.0	210.0
53-1/8"		171.8	210.0	109.6	180.7	147.3	210.0
19-1/8"	63"	210.0	210.0	188.8	210.0	210.0	210.0
26-1/2"		210.0	210.0	146.4	210.0	210.0	210.0
37"		183.7	210.0	117.2	187.5	210.0	210.0
53-1/8"		156.2	210.0	99.7	159.5	146.9	210.0
19-1/8"	72"	210.0	210.0	161.6	210.0	210.0	210.0
26-1/2"		194.2	210.0	123.9	210.0	210.0	210.0
37"		152.8	210.0	97.5	175.5	210.0	210.0
53-1/8"		125.3	210.0	79.9	143.9	146.9	210.0
19-1/8"	76"	210.0	210.0	151.9	210.0	210.0	210.0
26-1/2"		181.9	210.0	116.0	208.9	210.0	210.0
37"		142.1	210.0	90.7	163.3	210.0	210.0
53-1/8"		115.1	207.3	73.5	132.2	146.9	210.0

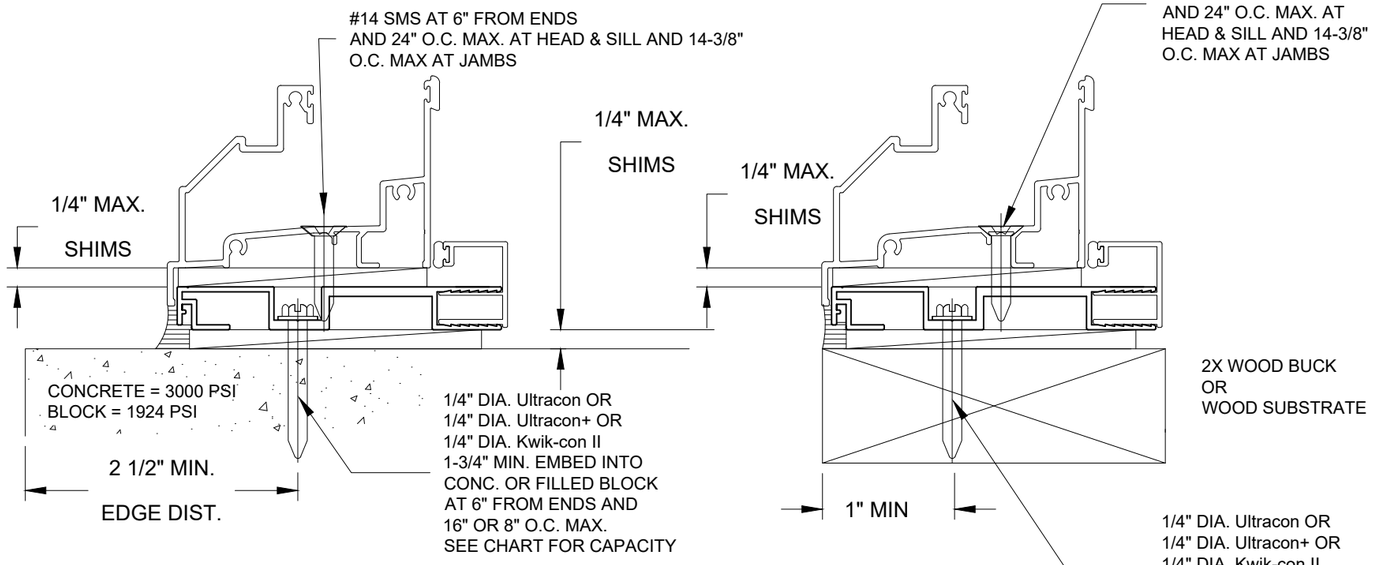
ALUMINUM BUCK FRAMING DETAILS

REFER TO SHEETS 3 THRU 9 FOR WINDOW CAPACITIES
USE LOWER APPLICABLE VALUES.

CONCRETE = 3000 PSI
BLOCK = 1924 PSI







TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING ALUMINUM BUCK SYSTEM

Rev.#
Date
Rev.

PREPARED BY A. LYNN MILLER
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DWG No. SH360LMI-FPA
Sheet 11 OF 13
Series SH360
Desc. ALUMINUM BUCK
Title SERIES "360" ALUM SINGLE HUNG WDW (LMI)

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WINDOOR INCORPORATED
104 TRIPLE DIAMOND BLVD
N VENICE, FL 34275
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ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. Lynn Miller 2/10/23

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE: 9A

PERFORMANCE VALUES
OF ALUMINUM BUCK
INSTALLATION ANCHORS
POS.(+) & NEG.(-)

WINDOW DIMS.		ANCHORS INTO HOLLOW BLOCK				ANCHORS INTO CONC.				ANCHORS INTO WOOD			
WIDTH	HEIGHT	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 8	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 8	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 8
24"	48"	89.3	178.7	210.0	210.0	140.0	210.0	210.0	210.0	120.0	210.0	210.0	210.0
30"		78.0	155.9	210.0	210.0	122.2	210.0	210.0	210.0	104.7	209.5	210.0	210.0
32"		75.4	150.8	210.0	210.0	118.1	210.0	210.0	210.0	101.3	202.5	210.0	210.0
36"		71.5	142.9	210.0	210.0	112.0	210.0	210.0	210.0	96.0	192.0	210.0	210.0
42"		68.1	136.1	204.2	210.0	106.7	210.0	210.0	210.0	91.4	182.9	210.0	210.0
48"		67.0	134.0	201.0	210.0	105.0	210.0	210.0	210.0	90.0	180.0	210.0	210.0
54"		67.0	134.0	201.0	210.0	105.0	210.0	210.0	210.0	90.0	180.0	210.0	210.0
24"	60"	67.0	134.0	201.0	210.0	105.0	210.0	210.0	210.0	90.0	180.0	210.0	210.0
30"		57.2	114.3	171.5	210.0	89.6	179.2	210.0	210.0	76.8	153.6	210.0	210.0
32"		54.8	109.6	164.5	210.0	85.9	171.8	210.0	210.0	73.6	147.3	210.0	210.0
36"		51.0	102.1	153.1	204.2	80.0	160.0	210.0	210.0	68.6	137.1	205.7	210.0
42"		47.1	94.2	141.4	188.5	73.8	147.7	210.0	210.0	63.3	126.6	189.9	210.0
48"		44.7	89.3	134.0	178.7	70.0	140.0	210.0	210.0	60.0	120.0	180.0	210.0
54"		43.3	86.6	129.9	173.3	67.9	135.8	203.6	210.0	58.2	116.4	174.5	210.0
24"	72"	53.6	107.2	160.8	210.0	84.0	168.0	210.0	210.0	72.0	144.0	210.0	210.0
30"		45.1	90.3	135.4	180.5	70.7	141.5	210.0	210.0	60.6	121.3	181.9	210.0
32"		43.1	86.1	129.2	172.3	67.5	135.0	202.5	210.0	57.9	115.7	173.6	210.0
36"		39.7	79.4	119.1	158.8	62.2	124.4	186.7	210.0	53.3	106.7	160.0	210.0
42"		36.0	72.1	108.1	144.1	56.5	112.9	169.4	210.0	48.4	96.8	145.2	193.6
48"		33.5	67.0	100.5	134.0	52.5	105.0	157.5	210.0	45.0	90.0	135.0	180.0
54"		31.8	63.5	95.3	127.1	49.8	99.6	149.3	199.1	42.7	85.3	128.0	170.7
24"	84"	44.7	89.3	134.0	178.7	70.0	140.0	210.0	210.0	60.0	120.0	180.0	210.0
30"		37.3	74.6	111.9	149.1	58.4	116.9	175.3	210.0	50.1	100.2	150.3	200.3
32"		35.5	70.9	106.4	141.9	55.6	111.2	166.8	210.0	47.6	95.3	142.9	190.6
36"		32.5	65.0	97.5	129.9	50.9	101.8	152.7	203.6	43.6	87.3	130.9	174.5
42"		29.2	58.3	87.5	116.7	45.7	91.4	137.1	182.9	39.2	78.4	117.6	156.7
48"		26.8	53.6	80.4	107.2	42.0	84.0	126.0	168.0	36.0	72.0	108.0	144.0
54"		25.1	50.2	75.2	100.3	39.3	78.6	117.9	157.2	33.7	67.4	101.1	134.7
24"	96"	38.3	76.6	114.9	153.1	60.0	120.0	180.0	210.0	51.4	102.9	154.3	205.7
30"		31.8	63.5	95.3	127.1	49.8	99.6	149.3	199.1	42.7	85.3	128.0	170.7
32"		30.1	60.3	90.4	120.6	47.2	94.5	141.7	189.0	40.5	81.0	121.5	162.0
36"		27.5	55.0	82.5	109.9	43.1	86.2	129.2	172.3	36.9	73.8	110.8	147.7
42"		24.5	49.0	73.5	98.0	38.4	76.8	115.2	153.6	32.9	65.8	98.7	131.7
48"		22.3	44.7	67.0	89.3	35.0	70.0	105.0	140.0	30.0	60.0	90.0	120.0
54"		20.7	41.4	62.1	82.9	32.5	64.9	97.4	129.9	27.8	55.7	83.5	111.3
24"	108"	33.5	67.0	100.5	134.0	52.5	105.0	157.5	210.0	45.0	90.0	135.0	180.0
30"		27.7	55.3	83.0	110.7	43.4	86.7	130.1	173.4	37.2	74.3	111.5	148.6
32"		26.2	52.4	78.7	104.9	41.1	82.2	123.3	164.3	35.2	70.4	105.7	140.9
36"		23.8	47.6	71.5	95.3	37.3	74.7	112.0	149.3	32.0	64.0	96.0	128.0
42"		21.1	42.2	63.4	84.5	33.1	66.2	99.3	132.4	28.4	56.7	85.1	113.5
48"		19.1	38.3	57.4	76.6	30.0	60.0	90.0	120.0	25.7	51.4	77.1	102.9
24"	120"	29.8	59.6	89.3	119.1	46.7	93.3	140.0	186.7	40.0	80.0	120.0	160.0
30"		24.5	49.0	73.5	98.0	38.4	76.8	115.2	153.6	32.9	65.8	98.7	131.7
32"		23.2	46.4	69.6	92.8	36.3	72.7	109.0	145.4	31.2	62.3	93.5	124.6
36"		21.0	42.0	63.1	84.1	32.9	65.9	98.8	131.8	28.2	56.5	84.7	112.9
42"		18.6	37.1	55.7	74.3	29.1	58.2	87.3	116.4	24.9	49.9	74.8	99.7

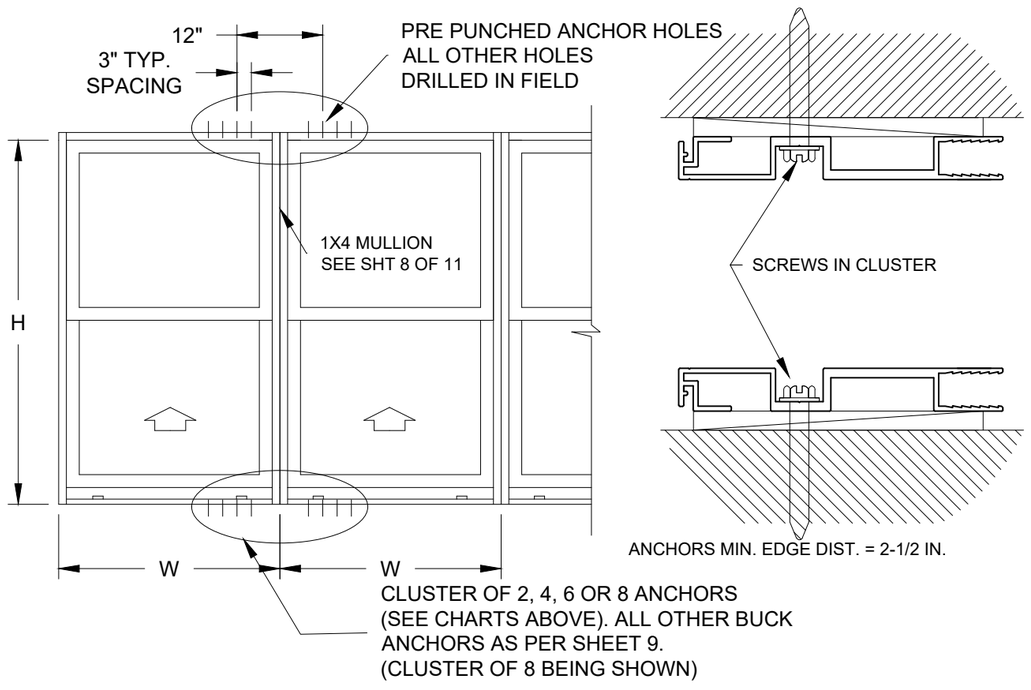
TABLE: 9B

PERFORMANCE VALUES
OF ALUMINUM BUCK
INSTALLATION ANCHORS
POS.(+) & NEG.(-)

WINDOW DIMS.		ANCHORS INTO HOLLOW BLOCK				ANCHORS INTO CONC.				ANCHORS INTO WOOD			
WIDTH	HEIGHT	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 8	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 8	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 8
19-1/8"	26"	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
26-1/2"		210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
37"		210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
53-1/8"		210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
19-1/8"	38-3/8"	140.1	210.0	210.0	210.0	210.0	210.0	210.0	210.0	188.2	210.0	210.0	210.0
26-1/2"		115.9	210.0	210.0	210.0	181.7	210.0	210.0	210.0	155.7	210.0	210.0	210.0
37"		105.0	209.9	210.0	210.0	164.5	210.0	210.0	210.0	141.0	210.0	210.0	210.0
53-1/8"		104.8	209.6	210.0	210.0	164.3	210.0	210.0	210.0	140.8	210.0	210.0	210.0
19-1/8"	50-5/8"	98.3	196.6	210.0	210.0	154.0	210.0	210.0	210.0	132.0	210.0	210.0	210.0
26-1/2"		77.9	155.9	210.0	210.0	122.1	210.0	210.0	210.0	104.7	209.4	210.0	210.0
37"		64.9	129.9	194.8	210.0	101.8	203.5	210.0	210.0	87.2	174.5	210.0	210.0
53-1/8"		60.2	120.5	180.7	210.0	94.4	188.8	210.0	210.0	80.9	161.8	210.0	210.0
19-1/8"	63"	75.5	151.0	210.0	210.0	118.4	210.0	210.0	210.0	101.4	202.9	210.0	210.0
26-1/2"		58.5	117.1	175.6	210.0	91.7	183.5	210.0	210.0	78.6	157.3	210.0	210.0
37"		46.9	93.8	140.6	187.5	73.5	146.9	210.0	210.0	63.0	125.9	188.9	210.0
53-1/8"		39.9	79.7	119.6	159.5	62.5	125.0	187.5	210.0	53.6	107.1	160.7	210.0
19-1/8"	72"	64.6	129.3	193.9	210.0	101.3	202.6	210.0	210.0	86.8	173.7	210.0	210.0
26-1/2"		49.6	99.2	148.7	198.3	77.7	155.4	210.0	210.0	66.6	133.2	199.8	210.0
37"		39.0	78.0	117.0	156.0	61.1	122.2	183.3	210.0	52.4	104.8	157.1	209.5
53-1/8"		32.0	64.0	95.9	127.9	50.1	100.2	150.3	200.4	43.0	85.9	128.9	171.8
19-1/8"	76"	60.7	121.5	182.2	210.0	95.2	190.4	210.0	210.0	81.6	163.2	210.0	210.0
26-1/2"		46.4	92.8	139.2	185.7	72.7	145.5	210.0	210.0	62.3	124.7	187.0	210.0
37"		36.3	72.6	108.8	145.1	56.9	113.7	170.6	210.0	48.7	97.5	146.2	194.9
53-1/8"		29.4	58.8	88.2	117.6	46.1	92.1	138.2	184.2	39.5	79.0	118.4	157.9

NOTE:

1)- FOR WINDOW ANCHORING TO ALUMINUM BUCKS USE #14 SCREWS SPACED AS PER SHEETS 7 & 8.
2)- ALUMINUM BUCKS ARE SUPPLIED WIDTH CLUSTERS OF 2 (1 SCREW HOLE PER SIDE) STANDARD.
3)- EXTRA HOLES MUST BE FILED DRILLED IF REQUIRED.



ANCHORS AT
ALUMINUM BUCK FRAMING
(AT MULLION ENDS)

Rev.#	Date	By	Description

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

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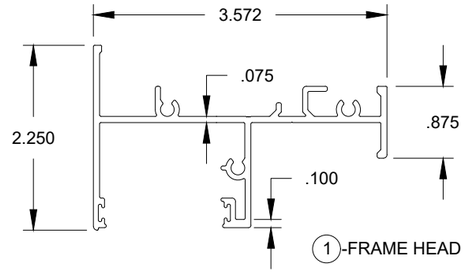
WINDOOR INCORPORATED
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N VENICE, FL 34275
(833) 554-5432

Title	Date	Drawn By	DWG No.	Sheet	Series
SERIES "360" ALUM SINGLE HUNG WDW (LMI)	1/5/23	A. MORLESIN	SH360LMI-FPA	12 OF 13	SH360
ALUMINUM BUCKS					

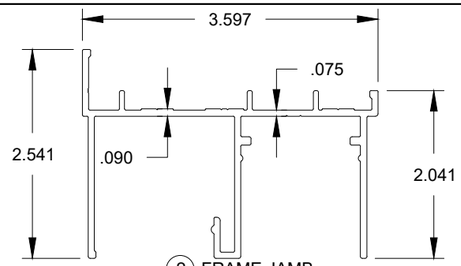
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
2/10/23

A. LYNN MILLER, P.E.
P.E.# 58705

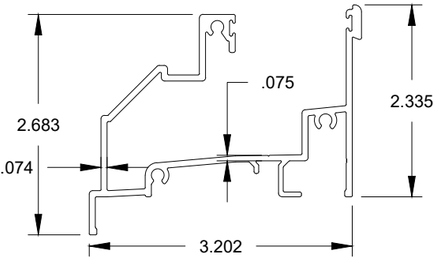
ITEM	PART #	DESCRIPTION	MATERIAL
1	600	FRAME HEAD	6063-T6
2	602	FRAME JAMB	6063-T6
3	625	HORIZONTAL RAIL	6063-T6
4	626	FIXED INTERLOCK	6063-T6
5	627	MOVING INTERLOCK	6063-T6
6	601	FRAME SILL	6063-T6
7	629	GLAZING BEAD	6063-T6
8	630	GLAZING BEAD	6063-T6
9	628	SIDE RAIL	6063-T6
10	631	WATERBAR	6063-T5
11	W23201NG	WOOL PILE WITH CENTER SOFT FIN (GRAY)	PILE
12	CGI-612P	PLASTIC BUMPER GUIDE	PVC
13	#146-4	WEEP HOLE COVER	NYLON
14	N/A	GLAZING	GLASS
15	N/A	COMPLETE SCREEN	ALUM/MESH
16	CGI-615C & 616C	COMBINATION EGRESS LOCK AND LIFT/PULL ATTACHED W//(2) #8 X 5/8" FH SMS	ZINC
17	A30700 & C30705	OPT. SWEEP LOCK & KEEPER (REPLACE ITEM 6) ATTACHED W / (2) #6 X 5/8" FH SMS	ZINC
18	18-11-XX-100	LIFT/PULL	ZINC
19	CGI-614C	TIE DOWN BLOCK	ZINC
20	VARIES	BALANCES (B&T OR SPIRAL)	VARIES
21	CGI-617P	BALANCE COVER @ TOP HALF OF EACH JAMB	PVC
22	CGI-618P	VENT STOP @ TOP OF JAMBS	PVC
24	CGI-613P	FIXED VENT SHIM @ TOP OF FIXED VENT	PVC
25	CGI-619P	TOP GUIDE AT OPERABLE VENT	NYLON
26	CGI-622N	BOTTOM GUIDE/CLIP AT OPERABLE VENT	NYLON
27	CGI-620C & 621N	CARRIER SYSTEM / OPTIONAL - BALANCE ATTACHED TO IT	ZINC
28	N/A	VENT ASSEMBLY SCREWS #10 X 1/4" PH SMS (2 PER CORNER)	S/S
29	N/A	FRAME ASSEMBLY SCREWS #10 X 1/4" PH SMS (2 PER CORNER)	S/S
30	CGI-382V	VINYL BULB	PVC
31	VARIES	STUCTURAL SILICONE (GE-1200 , GE2000 & DOW 995)	SILICONE
32	CGI-632	COMBINATION EGRESS WB LOCK & LIFT/PULL ATTACHED W/(2) #8 X 3/4" FLAT PH TYPE B	SS
33	-	SETTING BLOCKS DOROMETER 85+-5	EPDM
34	-	ALUMINUM BUCK	6063-T6
35	-	OPTIONAL COVER	6063-T6
36	604	HORIZONTAL RAIL	6063-T6
37	605	FIXED INTERLOCK	6063-T6
38	606	MOVING INTERLOCK	6063-T6
39	607	SIDE RAIL	6063-T6
40	609	GLAZING BEAD	6063-T6
41	611	WATERBAR	6063-T5



1-FRAME HEAD

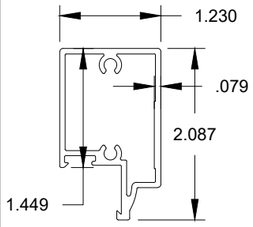


2-FRAME JAMB

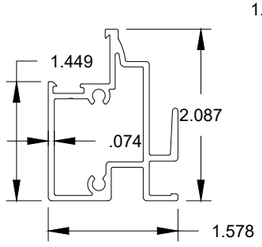


6-FRAME SILL

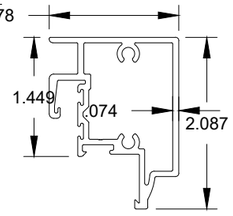
VENT SHAPES FOR GLASS TYPES "G3", "G3A", "G4" & "G4A"



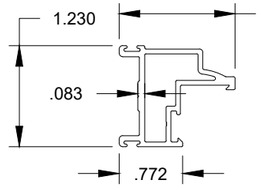
36-HORIZ. RAIL



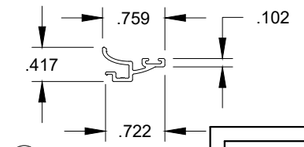
37-FIXED INTLCK.



38-MOVING INTLCK.

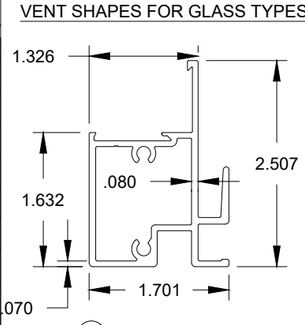


39-SIDE RAIL

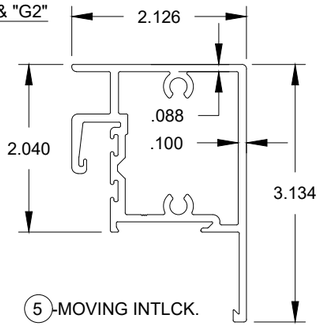


40-GLAZING BEAD

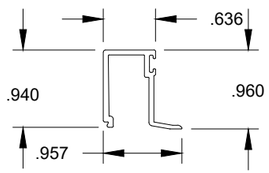
VENT SHAPES FOR GLASS TYPES "G1" & "G2"



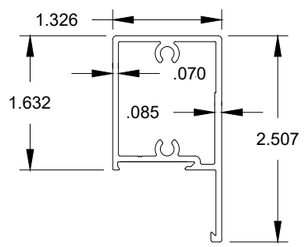
4-FIXED INTLCK.



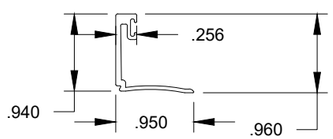
5-MOVING INTLCK.



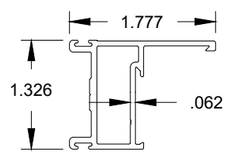
8-GLZG. BEAD
FOR GLASS TYPE "G3" & "G3A"



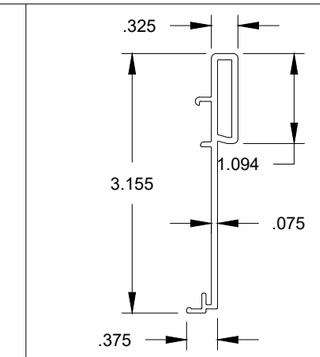
3-HORIZ. RAIL



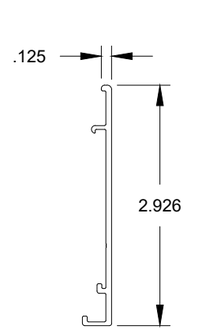
7-GLZG. BEAD
FOR GLASS TYPE "G4" & "G4A"



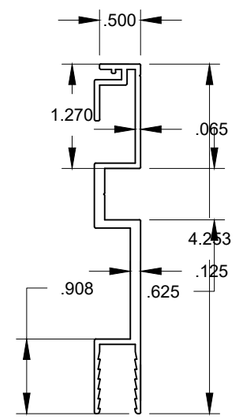
9-SIDE RAIL



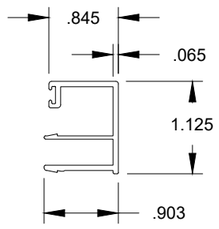
10-WATERBAR



41-WATERBAR



34-ALUMINUM BUCK



35-OPTIONAL COVER

Rev.#	Date	By	Description

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
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Title	Desc.	Series
SERIES "360" ALUM SINGLE HUNG WDW (LMI)	BOM / EXTRUSIONS	SH360

Date	Drawn By	DWG No.	Sheet
1/5/23	A. MORLESIN	SH360LMI-FPA	13 OF 13

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