

SERIES 375 'ESTATE' ALUMINUM HORIZONTAL ROLLER WINDOW
LARGE & SMALL MISSILE

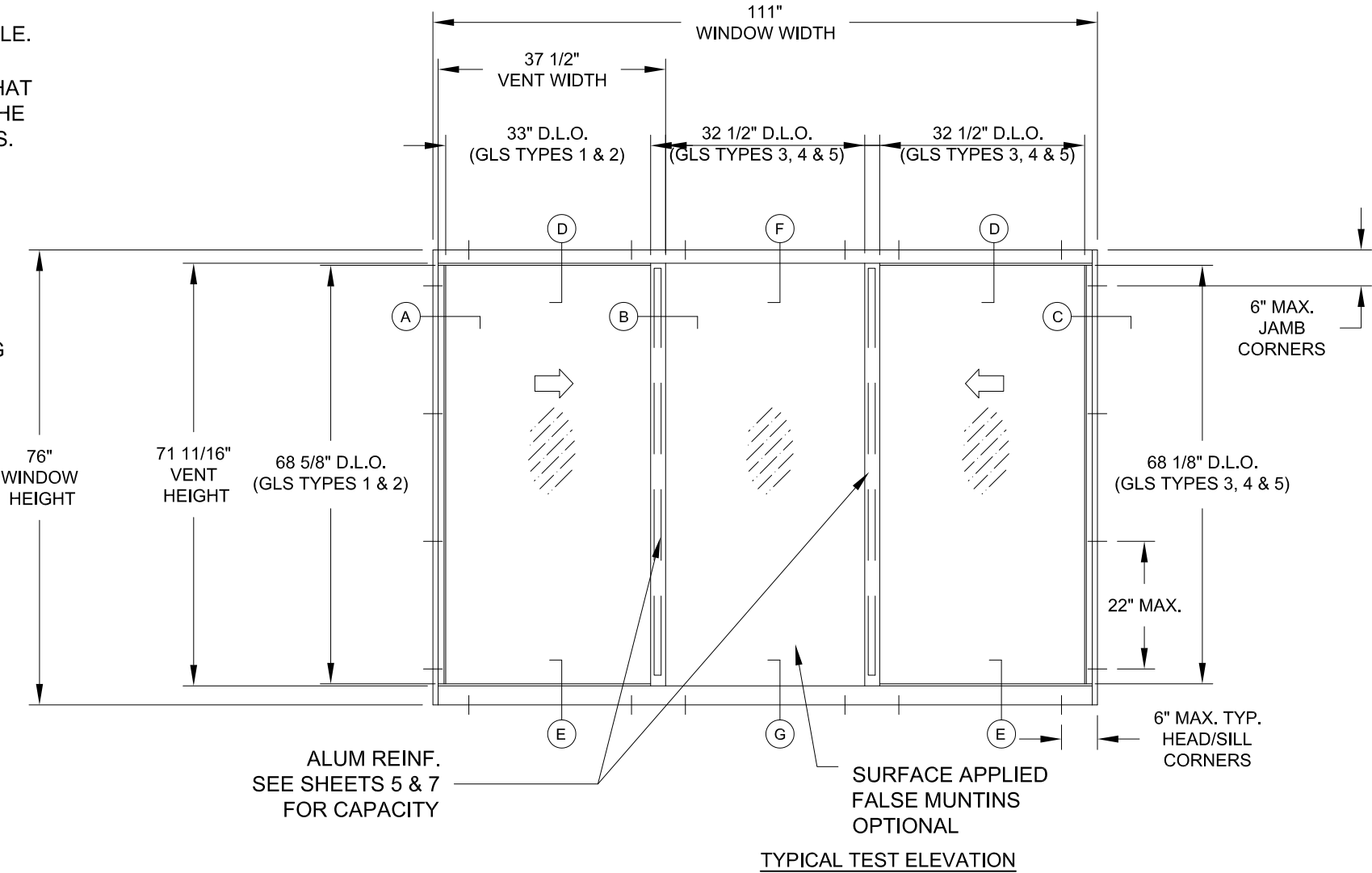
- 1). THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2). 1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.
- 3). 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. ALL ANCHOR HEAD TYPES ARE ACCEPTABLE.
- 4). A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
- 5). ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

- 6). MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE & ADOPTED STANDARDS.
- 7). 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. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.
- 8). FRAME FLANGES MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL-LEG FRAME. THE EXPOSED ALUMINUM EDGE MUST BE PAINTED TO PROTECT AGAINST CORROSION.

INSTRUCTIONS FOR USING CAPACITY CHARTS:

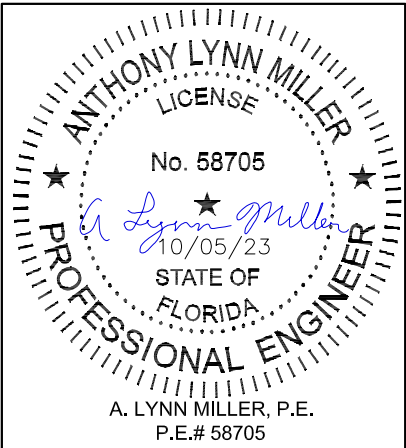
- STEP 1** DETERMINE THE REQUIRED DESIGN PRESSURES FOR A GIVEN WINDOW OPENING.
- STEP 2** DETERMINE THE CAPACITY OF THE WINDOW SIZE/CONFIGURATION/GLASS TYPE FROM CHARTS ON SHEETS 5 AND 8.
FOR INSTALLATION ANCHOR TYPES SEE SHEETS 6 & 9.
EXTRA ANCHORS AT HEAD & SILL ARE SHOWN ON SHEETS 6, 7, 9 & 10.
- STEP 3** IF ALUMINUM BUCKS ARE USED, VERIFY THE BUCK INSTALLATION CAPACITY FROM SHEETS 16 & 17.
- STEP 4** FOR UNCLIPPED MULLED WINDOWS DETERMINE MULLION CAPACITY FOR 1X4 TUBE FROM CHARTS ON SHEET 14.
- STEP 5** FOR MULLION ANCHOR CAPACITY SEE CHART ON SHEET 15.

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

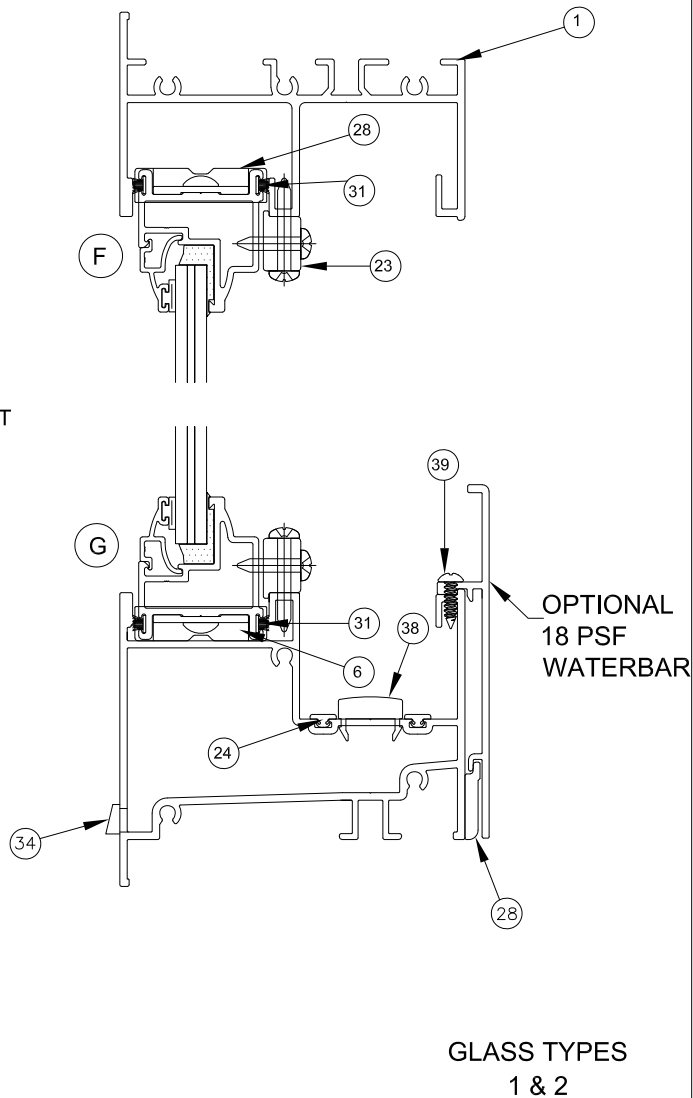
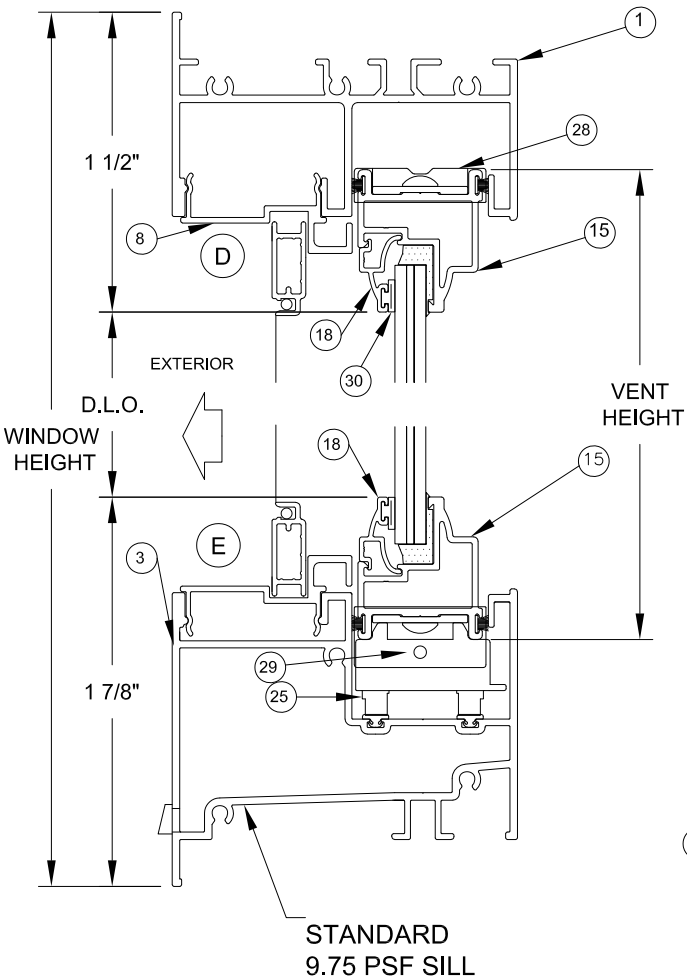
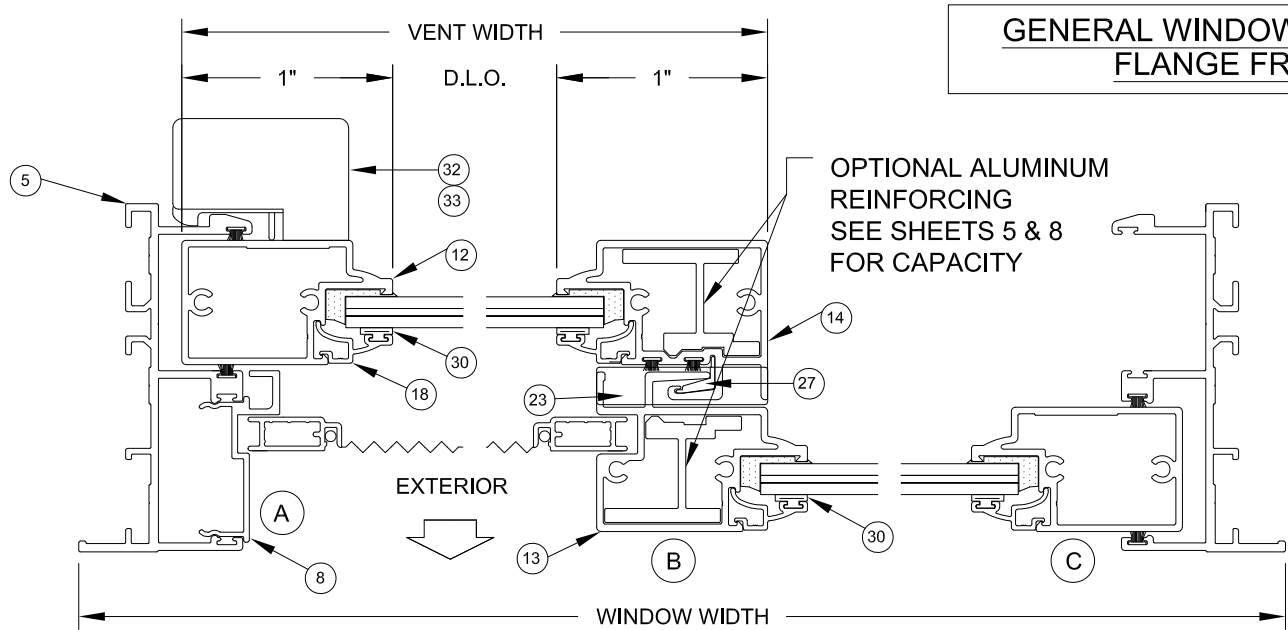


THESE WINDOWS ARE RATED FOR LARGE MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

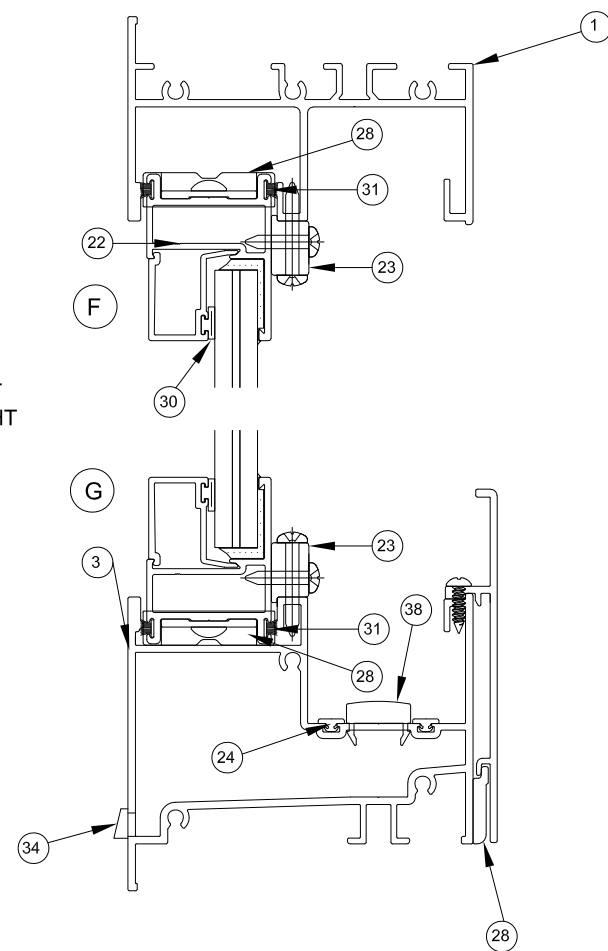
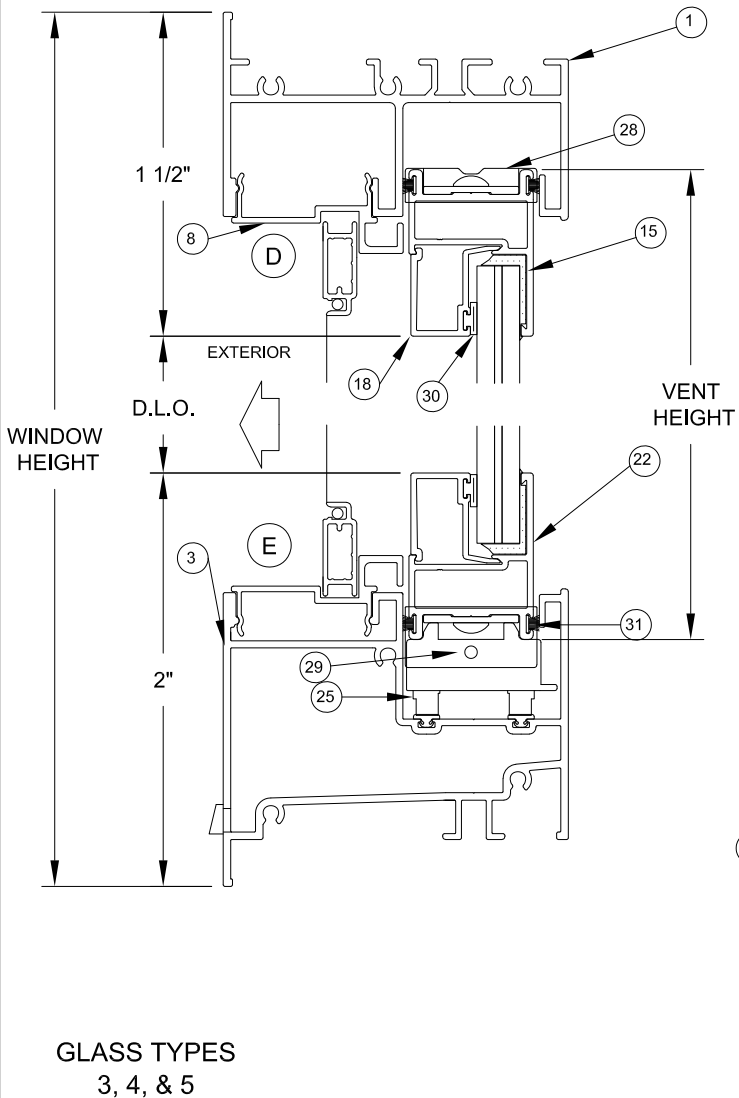
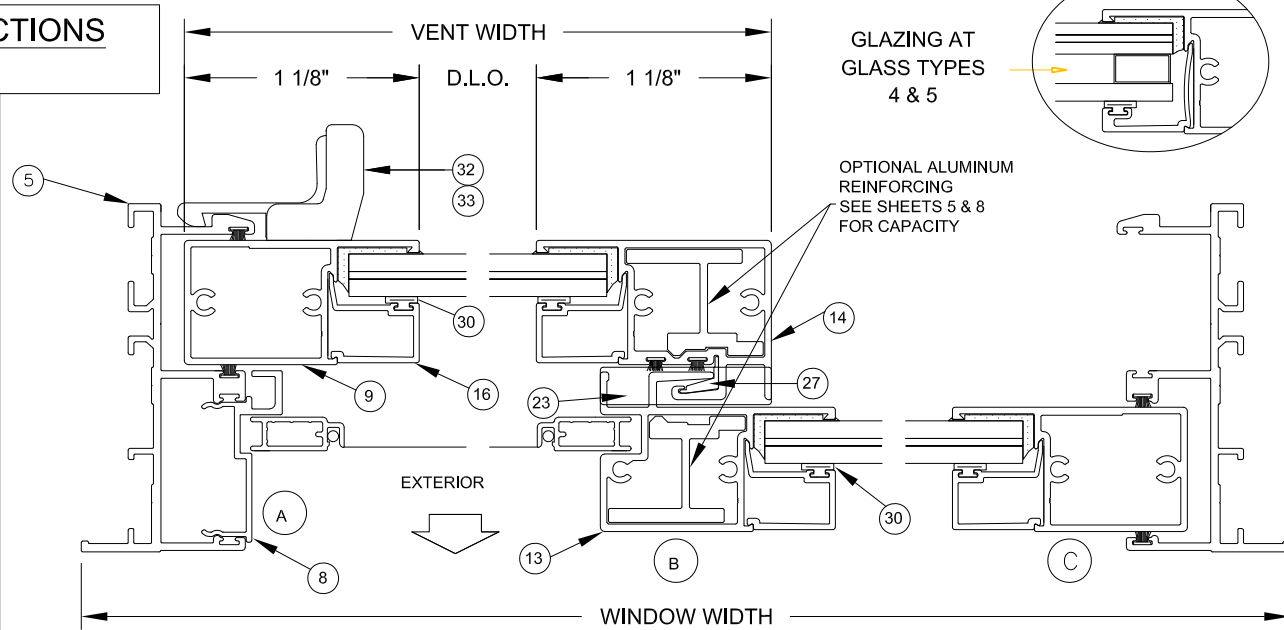
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296 COPYRIGHT © 2023 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.		1/18/23	
WINDOOR [®] INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		SERIES "375" ALUM. HORIZONTAL ROLLER WDW (LMI)		A. MORLESIN	
ELEVATION & GENERAL NOTES		By		HR375LMI-FPA	
1 OF 21		DWG		No.	
HR375		Sheet		Title	



Rev.	A
Date	10/05/23
ADD NOTES, ANCHOR HEAD TYPES, & FRAME FLANGES MAY BE TRIMMED, S.B.	

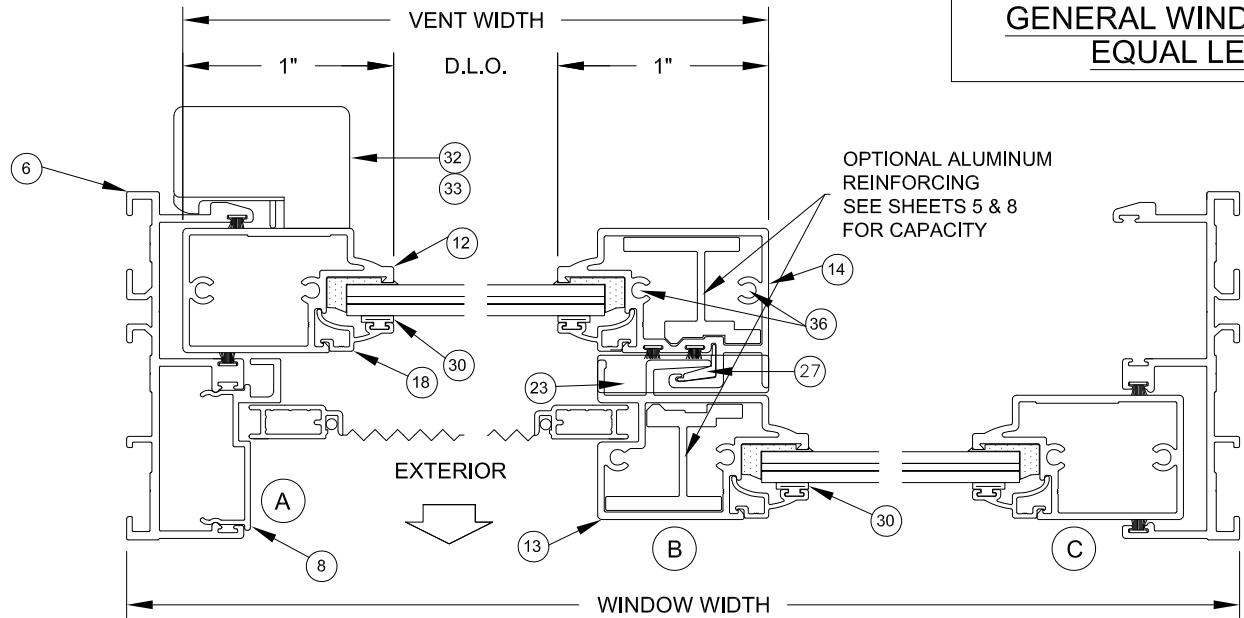


GENERAL WINDOW SECTIONS
FLANGE FRAME

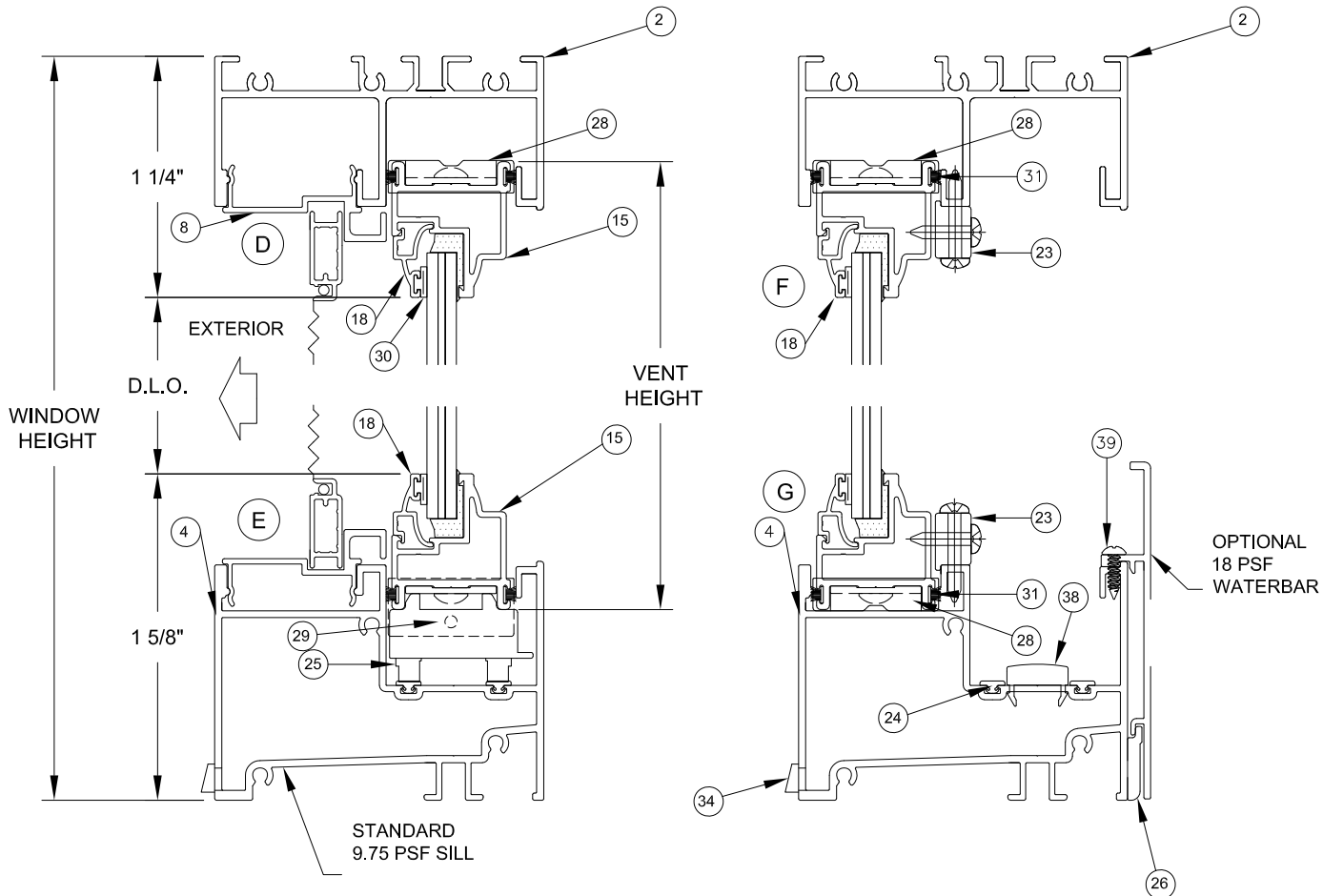
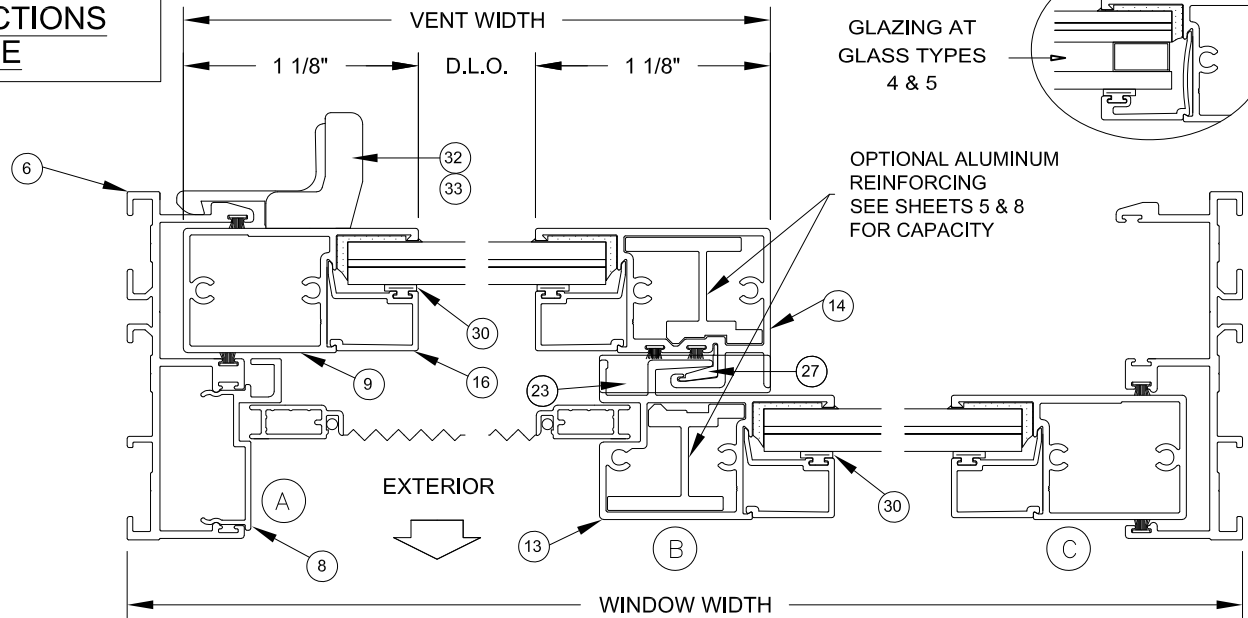


Windoors INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296 COPYRIGHT © 2023 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	
SERIES "375" ALUM. HORIZONTAL ROLLER WDW (LMI)		1/18/23	
SECTION DETAILS FLANGE FRAME		A. MORLESIN	
HR375	2 OF 21	No.	HR375LMI-FPA

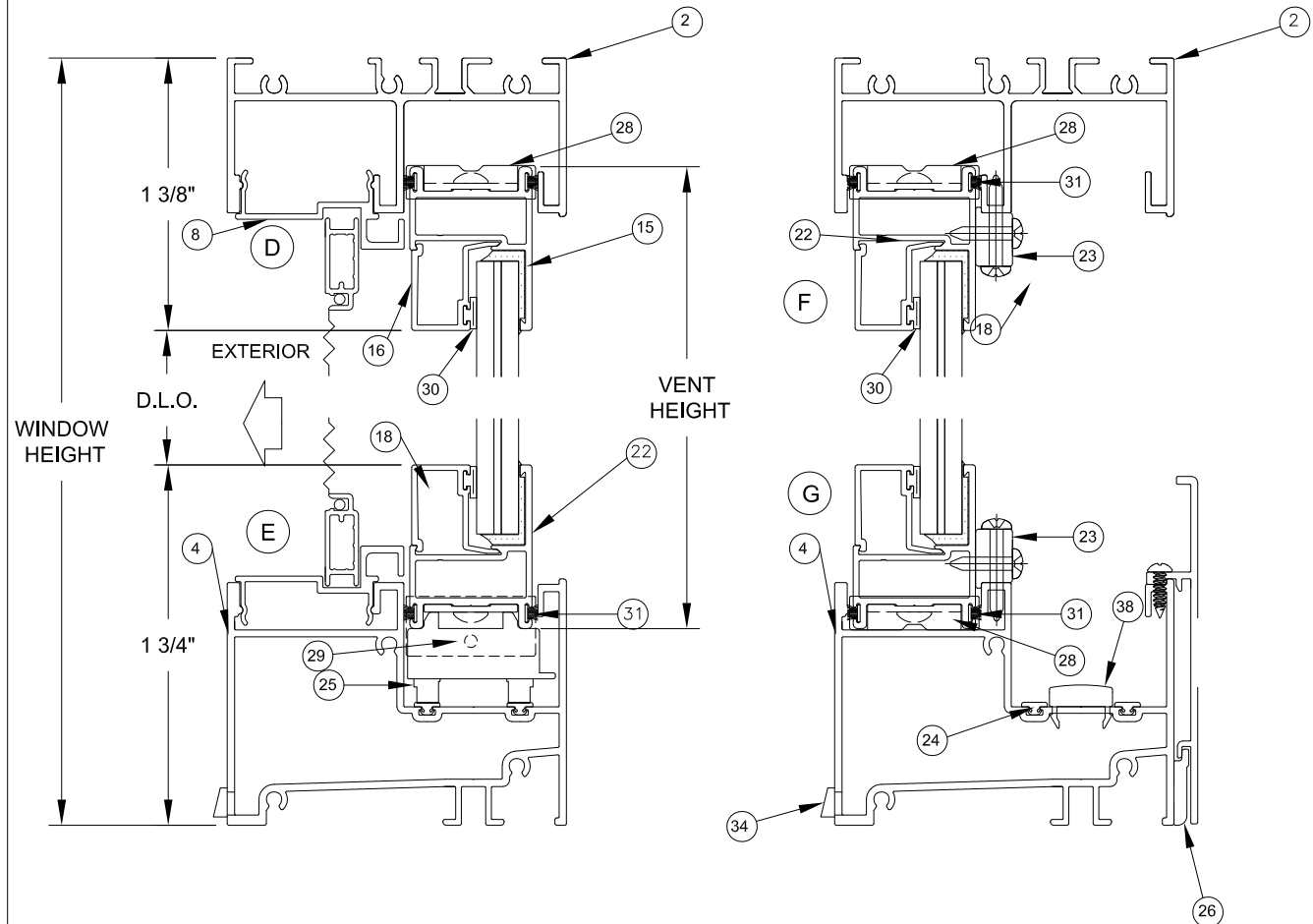
ANTHONY LYNN MILLER
LICENSE
No. 58705
10/05/23
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



GENERAL WINDOW SECTIONS EQUAL LEG FRAME



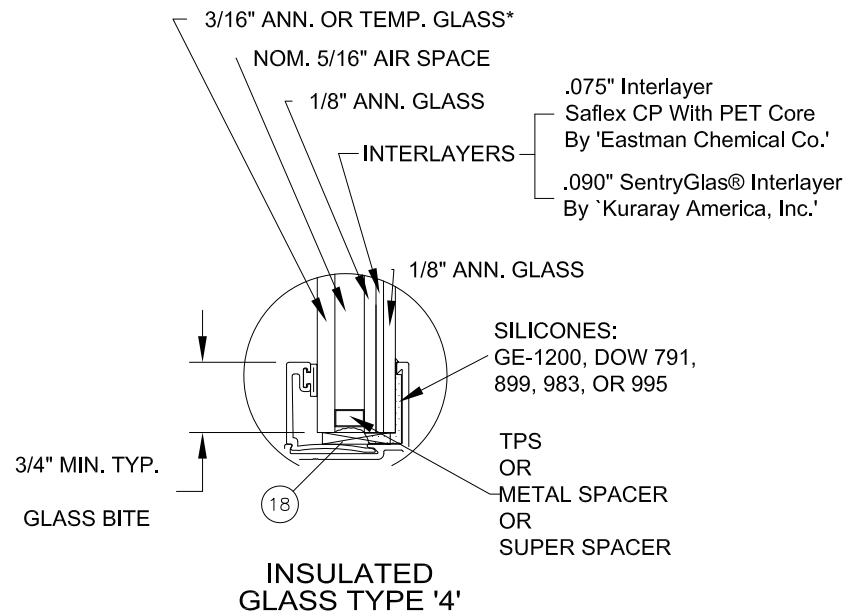
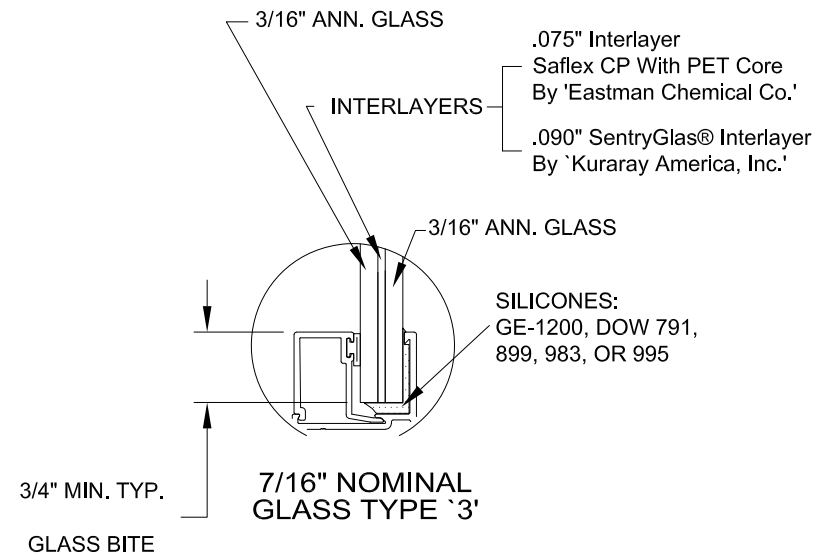
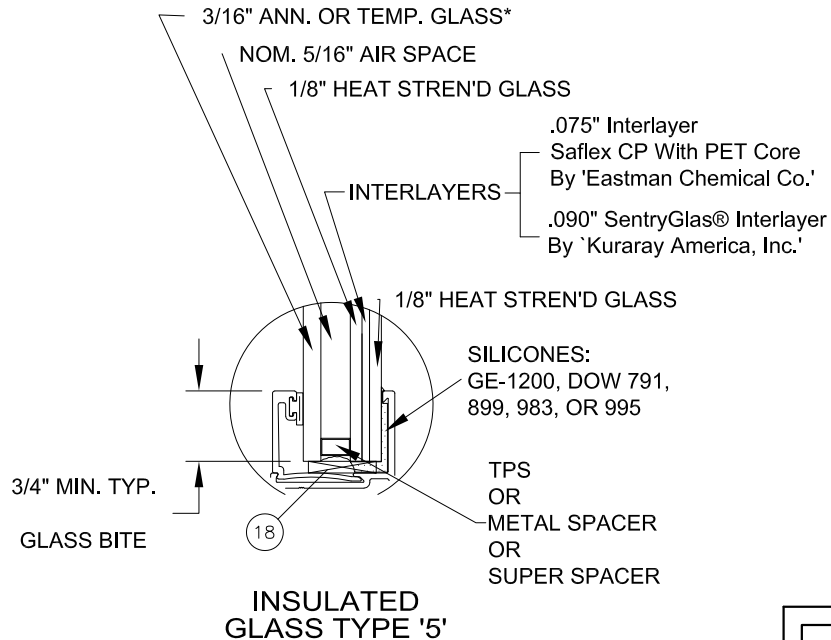
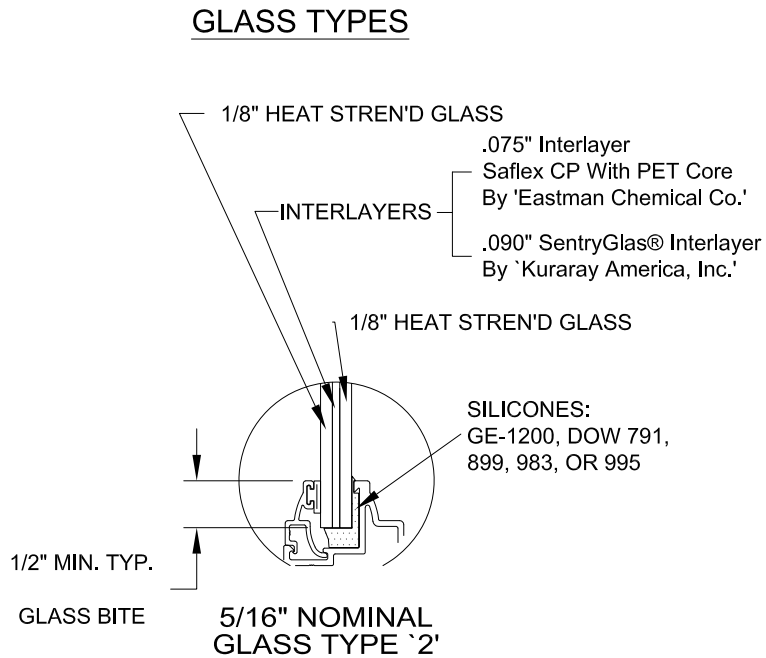
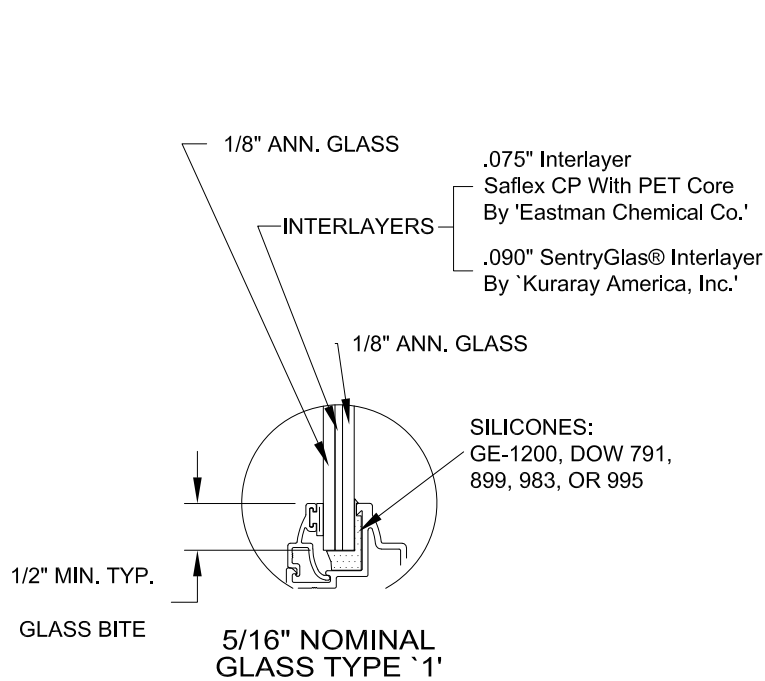
GLASS TYPES
1 & 2



GLASS TYPES
3, 4, & 5

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SECTION DETAILS EQUAL LEG FRAME		A. MORLESIN		HR375LMI-FPA
HR375		3 OF 21		DATE

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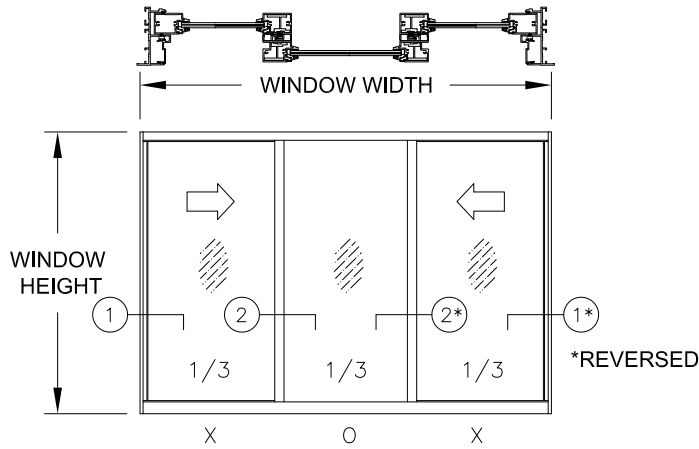
* FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, OR FOR SAFETY GLAZING APPLICATIONS PER THE FBC, THE OUTBOARD LITE (CAP) MUST BE TEMPERED.

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GLASS TYPES		HR375		4 OF 21	
HR375		HR375LMI-FPA		NO CHANGES, THIS SHEET. S.B.	

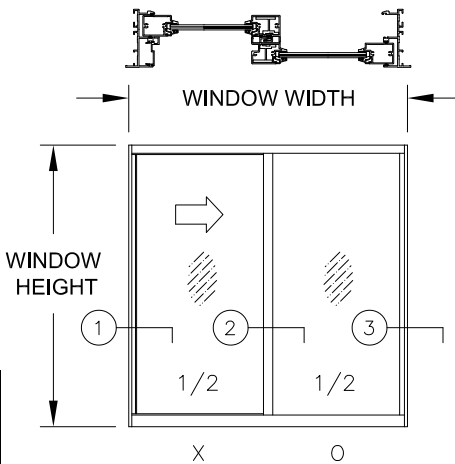
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STATE OF
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A. LYNN MILLER, P.E.
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Rev.	#	10/05/23	Date	10/05/23	Rev.
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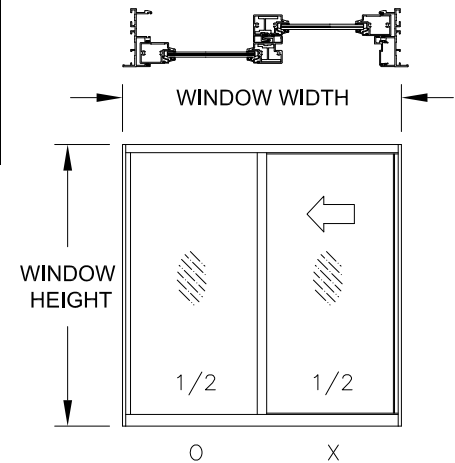
Glass Type: 1 No Interlock Reinforcement		Design Load Capacity (lbs/ft ²)																													
		Window Buck Width (in)																													
3 Panel Width→		39 3/4		54		55 1/2		63		72		79 11/16		81		90		99		108		111		117		119 1/4		126		159 3/8	
2 Panel Width→		26 1/2		36		37		42		48		53 1/8		54		60		66		72		74		78		79 1/2		84		106 1/4	
Window Buck Height (in)	36	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-145.2	+120	-131.8	+120	-130.6	+118.3	-118.3	+118.3	-118.3	+80.7	-80.7
	38 3/8	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-131.8	+120	-131.8	+120	-131.8	+120	-131.8	+120	-131.8	+120	-120.2	+83.9	+83.9	+83.9	-83.9	+80.7	-80.7
	48	+120	-150	+120	-150	+120	-150	+120	-135.1	+120	-123.1	+114.2	-114.2	+114.2	-114.2	+107.4	-107.4	+102.3	-102.3	+98.5	-98.5	+85	-85	+85	-85	+83.9	-83.9	+83.9	-83.9	+66	-66
	50 5/8	+120	-150	+120	-139	+120	-139	+120	-135.1	+107.2	-107.2	+107.2	-107.2	+97.3	-97.3	+90.9	-90.9	+86	-86	+82.1	-82.1	+85	-85	+83.2	-83.2	+83.2	-83.2	+74.6	-74.6	+66	-66
	54	+120	-150	+120	-131.3	+120	-139	+116.4	-116.4	+105.5	-105.5	+97.3	-97.3	+97.3	-97.3	+90.9	-90.9	+86	-86	+82.1	-82.1	+78.6	-78.6	+78.6	-78.6	+74.6	-74.6	+74.6	-74.6		
	60	+120	-150	+115.9	-115.9	+120	-139	+102.3	-102.3	+92.3	-92.3	+84.7	-84.7	+84.7	-84.7	+78.8	-78.8	+74.1	-74.1	+70.4	-70.4	+67.3	-67.3	+67.3	-67.3	+64.9	-64.9	+64.9	-64.9		
	63	+120	-142.4	+115.9	-115.9	+107	-107	+102.3	-102.3	+92.3	-92.3	+80.5	-80.5	+75	-75	+69.5	-69.5	+65.1	-65.1	+61.6	-64.6	+64.6	-64.6	+62.1	-62.1	+62.1	-62.1	+56.3	-56.3		
	66	+120	-142.4	+103.7	-103.7	+107	-107	+91.3	-91.3	+82.1	-82.1	+80.5	-80.5	+75	-75	+69.5	-69.5	+65.1	-65.1	+61.6	-61.6	+58.7	-58.7	+58.7	-58.7	+56.3	-56.3	+56.3	-56.3		
	72	+120	-122.8	+93.8	-93.8	+91.6	-91.6	+82.4	-82.4	+73.9	-73.9	+68.2	-68.2	+67.3	-67.3	+62.2	-62.2	+58.1	-58.1	+54.7	-54.7	+53.7	-53.7	+52	-52						
76	+115.7	-115.7	+88.2	-88.2	+86.1	-86.1	+77.3	-77.3	+69.3	-69.3	+63.9	-63.9	+63	-63	+58.1	-58.1	+54.2	-54.2	+50.8	-50.8	+50	-50									



Glass Type: 4 No Interlock Reinforcement		Design Load Capacity (lbs/ft ²)																													
		Window Buck Width (in)																													
3 Panel Width→		39 3/4		54		55 1/2		63		72		79 11/16		81		90		99		108		111		117		119 1/4		126		159 3/8	
2 Panel Width →		26 1/2		36		37		42		48		53 1/8		54		60		66		72		74		78		79 1/2		84		106 1/4	
Window Buck Height (in)	36	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-145	+120	-145.7	+120	-134.1	+120	-131.9	+85	-85
	38 3/8	+120	-150	+120	-150	+120	-150	+120	-135.1	+120	-123.1	+120	-150	+120	-144.7	+120	-144.7	+120	-144.7	+120	-144.7	+120	-144.7	+120	-134.1	+120	+134.1	+85	-85	+85	-85
	48	+120	-150	+120	-150	+120	-150	+120	-135.1	+120	-123.1	+114.2	-114.2	+114.2	-114.2	+107.4	-107.4	+102.3	-102.3	+98.5	-98.5	+85	-85	+85	-85	+120	-134.1	+85	-85	+73.6	-73.6
	50 5/8	+120	-150	+120	-139	+120	-139	+116.4	-116.4	+107.2	-107.2	+107.2	-107.2	+97.3	-97.3	+90.9	-90.9	+86	-86	+85	-85	+85	-85	+85	-85	+85	-85	+76.7	-76.7	+73.6	-73.6
	54	+120	-142.4	+120	-131.3	+116.4	-116.4	+116.4	-116.4	+105.5	-105.5	+97.3	-97.3	+97.3	-97.3	+90.9	-90.9	+86	-86	+82.1	-82.1	+79.1	-79.1	+79.1	-79.1	+76.7	-76.7	+76.7	-76.7		
	60	+120	-142.4	+115.9	-115.9	+107	-107	+102.3	-102.3	+92.3	-92.3	+84.7	-84.7	+84.7	-84.7	+78.8	-78.8	+74.1	-74.1	+70.4	-70.4	+67.3	-67.3	+67.3	-67.3	+64.9	-64.9	+64.9	-64.9		
	63	+120	-142.4	+107	-107	+107	-107	+91.3	-91.3	+82.1	-82.1	+80.5	-80.5	+75	-75	+69.5	-69.5	+65.1	-65.1	+64.6	-64.6	+64.6	-64.6	+62.1	-62.1	+62.1	-62.1	+56.3	-56.3		
	66	+120	-122.8	+103.7	-103.7	+91.6	-91.6	+91.3	-91.3	+82.1	-82.1	+75	-75	+75	-75	+69.5	-69.5	+65.1	-65.1	+61.6	-61.6	+58.7	-58.7	+58.7	-58.7	+56.3	-56.3	+56.3	-56.3		
	72	+120	-122.8	+93.8	-93.8	+91.6	-91.6	+82.4	-82.4	+73.9	-73.9	+68.2	-68.2	+67.3	-67.3	+62.2	-62.2	+58.1	-58.1	+54.7	-54.7	+53.7	-53.7	+52	-52						
76	+115.7	-115.7	+88.2	-88.2	+86.1	-63.9	+77.3	-77.3	+69.3	-69.3	+63.9	-50	+63	-63	+58.1	-58.1	+54.2	-54.2	+50.9	-50.9	+50	-50									



Glass Types: 2, 3, & 5 No Interlock Reinforcement		Design Load Capacity (lbs/ft ²)																													
		Window Buck Width (in)																													
		3 Panel Width→		54		55 1/2		63		72		79 11/16		81		90		99		108		111		117		119 1/4		126		159 3/8	
2 Panel Width →		26 1/2		36		37		42		48		53 1/8		54		60		66		72		74		78		79 1/2		84		106 1/4	
Window Buck Height (in)	36	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150
	38 3/8	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	+150	+100	-100	+100	-100
	48	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-147.7	+120	-147.7	+100	-100	+120	-150	+100	-100	+100	-100
	50 5/8	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-145.9	+120	-136.4	+120	-128.9	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100
	54	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-145.9	+120	-145.9	+120	-136.4	+120	-128.9	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100		
	60	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-138.5	+120	-138.5	+120	-127.1	+118.2	-118.2	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100	+97.4	-97.4
	63	+120	-150	+120	-150	+120	-150	+120	-150	+120	-136.9	+120	-123.1	+120	-120.8	+112.6	-112.6	+100	-100	+97.7	-97.7	+96.9	-96.9	+96.9	-96.9	+93.1	-93.1	+93.1	-93.1	+84.4	-84.4
	66	+120	-150	+120	-150	+120	-137.5	+120	-136.9	+120	-123.1	+112.6	-112.6	+112.6	-112.6	+100	-100	+97.7	-97.7	+92.3	-92.3	+88	-88	+88	-88	+84.4	-84.4	+84.4	-84.4		
	72	+120	-150	+120	-140.7	+120	-137.5	+120	-123.5	+110.8	-110.8	+100	-100	+100	-100	+93.3	-93.3	+87.1	-87.1	+82.1	-82.1	+80.6	-80.6	+77.9	-77.9						
76	+120	-150	+120	-132.3	+120	-129.2	+116	-116	+100	-100	+95.8	-95.8	+94.6	-94.6	+87.2	-87.2	+81.3	-81.3	+76.4	-76.4	+75	-75									



GLAZING/REINFORCEMENT
PERFORMANCE VALUES
EQUAL PANELS
NO INTERLOCK REINFORCEMENT

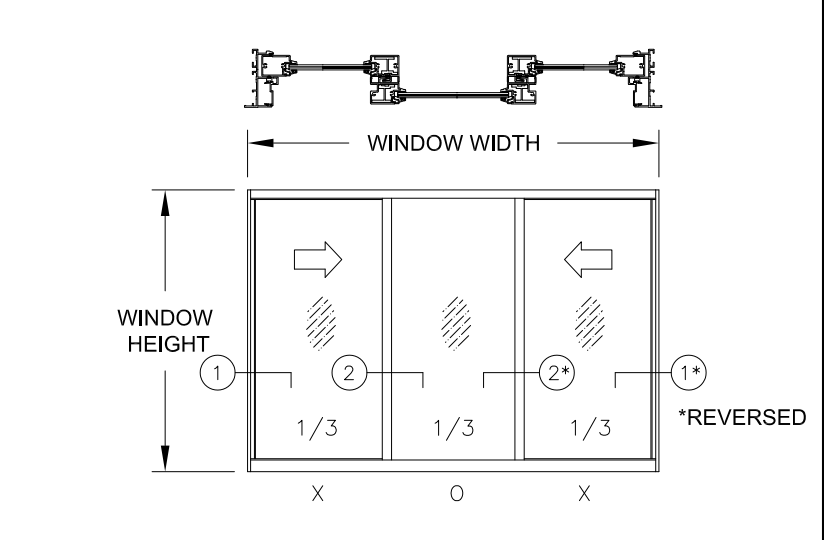
VALUES FOR POS. LOADS(+) SHOWN ARE
FOR SILL WITH WATERBAR ADAPTER
FOR WINDOWS WITHOUT WATERBAR ADAPTER
LIMIT POSITIVE(+) LOADS TO 65.0 PSF

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

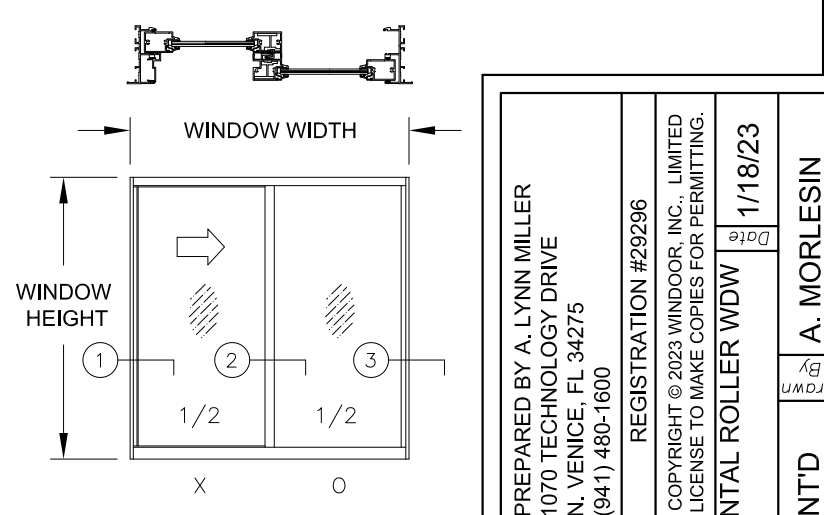
MAXIMUM VENT SIZE IS 18.7 SQ. FT.
AND MAXIMUM VENT HEIGHT IS 71 11/16"

WINDOOR® INCORPORATED		WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
REGISTRATION #29296 COPYRIGHT © 2023 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.		DESIGN PRESSURE 1		A. MORLESIN	
SERIES "375" ALUM. HORIZONTAL ROLLER WDW (LMI)		DATE 1/18/23		DRAWN BY	
Title	Series	Sheet	DWG No.	HR375LMI-FPA	
HR375	5 OF 21				

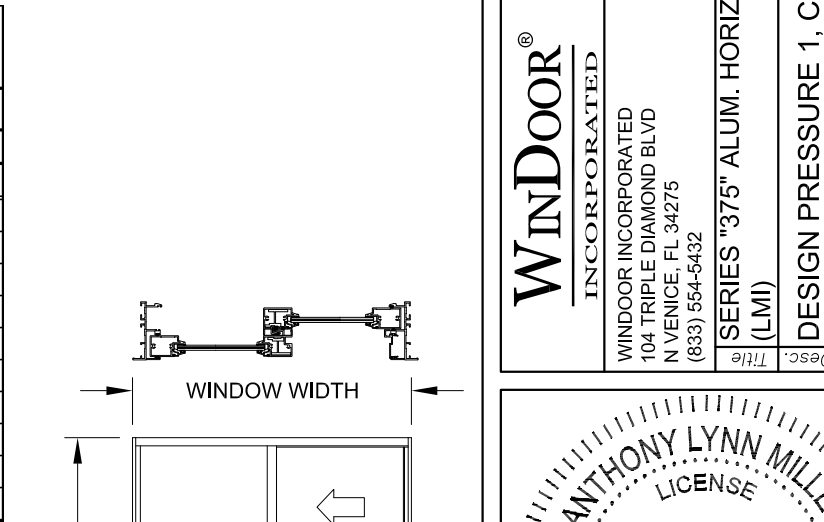
Glass Type 2 With Interlock Reinforcement		Design Load Capacity (lbs/ft ²)																													
		Window Buck Width (in)																													
3 Panel Width→		39 3/4		54		55 1/2		63		72		79 11/16		81		90		99		108		111		117		119 1/4		126			
2 Panel Width →		26 1/2		36		37		42		48		53 1/8		54		60		66		72		74		78		79 1/2		84			
Window Buck Height (in)	36	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150		
	38 3/8	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	+150	+120	-120
	48	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-150	+120	-120		
	50 5/8	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120
	54	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120
	60	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120
	63	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+112.6	-112.6
	66	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+117.3	-117.3	+117.3	-117.3	+112.6	-112.6	+112.6	-112.6
	72	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-147.7	+120	-120	+120	-120	+120	-120	+116.2	-116.2	+109.4	-109.4	+107.5	-107.5	+103.9	-103.9				
76	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+116.3	-116.3	+108.4	-108.4	+101.7	-101.7	+100	-100									



Glass Type 3 With Interlock Reinforcement		Design Load Capacity (lbs/ft²)																														
		Window Buck Width (in)																														
3 Panel Width→		39 3/4		54		55 1/2		63		72		79 11/16		81		90		99		108		111		117		119 1/4		126		159 3/8		
2 Panel Width →		26 1/2		36		37		42		48		53 1/8		54		60		66		72		74		78		79 1/2		84		106 1/4		
Window Buck Height (in)	36	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	
	38 3/8	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	+150	+120	-120	+120	-120	
	48	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-150	+120	-120	+107.6	-107.6	
	50 5/8	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+107.6	-107.6	
	54	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120			
	60	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+118.3	-118.3	+117.7	-117.7	+110.6	-110.6	+110.6	-110.6	
	63	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+118.3	-118.3	+110.4	-110.4	+110.4	-110.4	+100.9	-100.9	
	66	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+116.7	-116.7	+107.3	-107.3	+107.3	-107.3	+100.9	-100.9	+100.9	-100.9	
	72	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-147.7	+120	-120	+120	-120	+120	-120	+116.2	-116.2	+107.5	-107.5	+103.9	-103.9	+98.2	-98.2					
76	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-147.7	+120	-120	+120	-120	+116.3	-116.3	+108.4	-108.4	+101.9	-101.9	+98.8	-98.8								



Glass Type 5 With Interlock Reinforcement		Design Load Capacity (lbs/ft ²)																													
		Window Buck Width (in)																													
3 Panel Width→		39 3/4		54		55 1/2		63		72		79 11/16		81		90		99		108		111		117		119 1/4		126		159 3/8	
2 Panel Width →		26 1/2		36		37		42		48		53 1/8		54		60		66		72		74		78		79 1/2		84		106 1/4	
Window Buck Height (in)	36	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120
	38 3/8	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	+150	+120	-120	+120	-120
	48	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-150	+120	-120	+120	-120
	50 5/8	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120
	54	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120		
	60	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120
	63	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+112.6	-112.6
	66	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+117.3	-117.3	+112.6	-112.6
	72	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-147.7	+120	-120	+120	-120	+120	-120	+116.2	-116.2	+109.4	-109.4	+107.5	-107.5	+103.9	-103.9				
76	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+116.3	-116.3	+108.4	-108.4	+101.9	-101.9	+100	-100							



GLAZING/REINFORCEMENT
PERFORMANCE VALUES
EQUAL PANELS
WITH INTERLOCK REINFORCMENT

VALUES FOR POS. LOADS(+) SHOWN ARE
FOR SILL WITH WATERBAR ADAPTER
FOR WINDOWS WITHOUT WATERBAR ADAPTER
LIMIT POSITIVE(+) LOADS TO 65.0 PSF

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

MAXIMUM VENT SIZE IS 18.7 SQ. FT.
AND MAXIMUM VENT HEIGHT IS 71 11/16"

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

REGISTRATION #29296
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WINDOOR[®]
INCORPORATED
WINDOOR INCORPORATED
104 TRIPLE DIAMOND BLVD
N VENICE, FL 34275
(833) 554-5432

SERIES "375" ALUM. HORIZONTAL ROLLER WDW
(LMI)

1/18/23

By A. MORLESIN

Desc. DESIGN PRESSURE 1, CONT'D

HR375

6 OF 21

HR375LMI-FPA

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/05/23
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

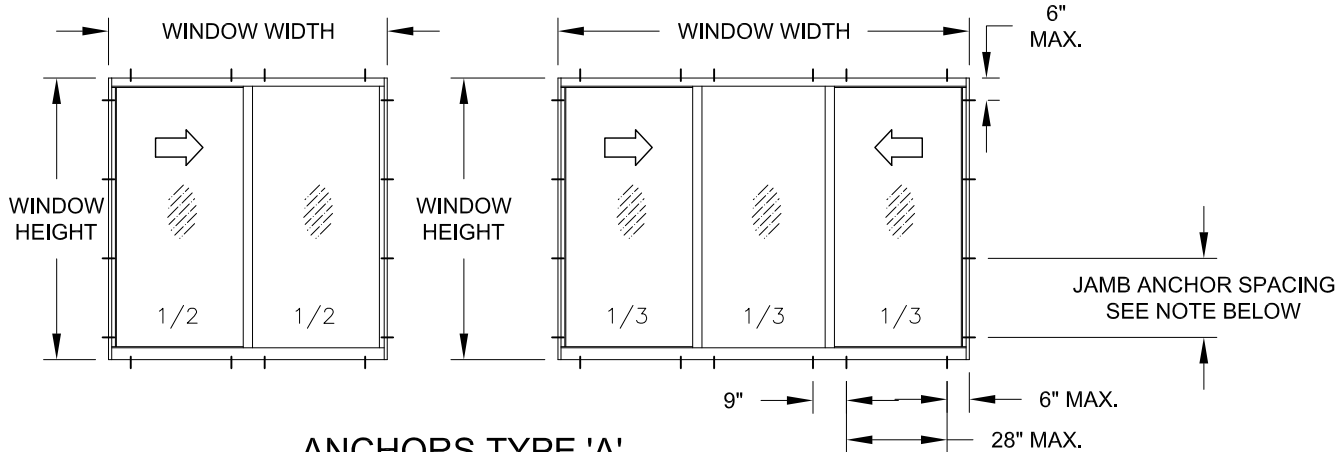
WINDOW DIMS.			1/4" SHIM SPACE			3/8" SHIM SPACE			1/2" SHIM SPACE		
			ANCHORS TYPE:			ANCHORS TYPE:			ANCHORS TYPE:		
			'A'	'B'	'C'	'A'	'B'	'C'	'A'	'B'	'C'
WIDTH		HEIGHT	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)
2 PANEL	3 PANEL										
36"	54"	36"	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
42"	63"		150.0	150.0	150.0	150.0	150.0	150.0	118.9	150.0	150.0
48"	72"		150.0	150.0	150.0	134.0	150.0	150.0	104.0	150.0	150.0
54"	81"		143.4	150.0	150.0	119.1	150.0	150.0	92.4	150.0	150.0
60"	90"		129.1	150.0	150.0	107.2	150.0	150.0	83.2	150.0	150.0
66"	99"		117.3	150.0	150.0	97.5	150.0	150.0	75.6	150.0	150.0
72"	108"		117.3	150.0	150.0	89.3	150.0	150.0	69.3	138.7	150.0
78"	117"		99.3	150.0	150.0	82.5	150.0	150.0	64.0	128.0	150.0
84"	126"		92.2	150.0	150.0	76.6	150.0	150.0	59.4	118.9	148.6
36"	54"	48"	150.0	150.0	150.0	134.0	150.0	150.0	104.0	150.0	150.0
42"	63"		138.3	150.0	150.0	114.9	150.0	150.0	104.0	150.0	150.0
48"	72"		121.0	150.0	150.0	100.5	150.0	150.0	78.0	150.0	150.0
54"	81"		107.6	150.0	150.0	89.3	150.0	150.0	69.3	136.7	150.0
60"	90"		96.8	150.0	150.0	80.4	150.0	150.0	62.4	124.8	150.0
66"	99"		88.0	150.0	150.0	73.1	146.2	150.0	56.7	113.5	141.8
72"	108"		80.7	150.0	150.0	67.0	134.0	150.0	52.0	104.0	130.0
78"	117"		74.5	148.9	150.0	61.8	123.7	150.0	48.0	96.0	120.0
84"	126"		69.1	138.3	150.0	57.4	114.9	143.6	44.6	89.1	111.4
36"	54"	54"	143.4	150.0	150.0	119.1	150.0	150.0	92.4	150.0	150.0
42"	63"		122.9	150.0	150.0	102.1	150.0	150.0	79.2	150.0	150.0
48"	72"		107.6	150.0	150.0	89.3	150.0	150.0	69.3	138.7	150.0
54"	81"		95.6	150.0	150.0	79.4	150.0	150.0	61.6	123.3	150.0
60"	90"		86.0	150.0	150.0	71.5	142.9	150.0	55.5	110.9	135.7
66"	99"		78.2	150.0	150.0	65.0	129.9	150.0	50.4	100.8	126.1
72"	108"		71.7	150.0	150.0	59.6	119.1	148.9	50.4	92.4	115.6
78"	117"		66.2	132.4	150.0	59.6	109.9	137.4	42.7	85.3	106.7
84"	126"		61.5	122.9	150.0	51.0	102.1	127.6	39.6	79.2	99.0
36"	54"	60"	129.1	150.0	150.0	107.2	150.0	150.0	83.2	150.0	150.0
42"	63"		110.6	150.0	150.0	91.9	150.0	150.0	71.3	142.6	150.0
48"	72"		96.8	150.0	150.0	80.4	150.0	150.0	62.4	124.8	150.0
54"	81"		86.0	150.0	150.0	71.5	142.9	150.0	55.5	110.9	138.7
60"	90"		77.4	150.0	150.0	64.3	128.6	150.0	49.9	99.8	124.8
66"	99"		70.4	140.8	150.0	58.5	116.9	146.2	45.4	90.8	113.5
72"	108"		64.5	129.1	150.0	53.6	107.2	134.0	41.6	83.2	104.0
78"	117"		59.6	119.1	148.9	49.5	99.0	123.7	38.4	76.8	96.0
84"	126"		55.3	110.6	138.3	45.9	91.9	114.9	35.7	71.3	89.1
36"	54"	66"	117.3	150.0	150.0	97.5	150.0	150.0	75.6	150.0	150.0
42"	63"		100.6	150.0	150.0	83.5	150.0	150.0	64.8	129.7	150.0
48"	72"		88.0	150.0	150.0	73.1	146.2	150.0	56.7	113.5	141.8
54"	81"		78.2	150.0	150.0	65.0	129.9	150.0	50.4	100.8	126.1
60"	90"		70.4	140.8	150.0	58.5	116.9	146.2	45.4	90.8	113.5
66"	99"		64.0	128.0	150.0	53.2	106.3	132.9	41.3	82.5	103.1
72"	108"		58.7	117.3	146.7	48.7	97.5	121.8	37.8	75.5	94.5
78"	117"		54.2	108.3	135.4	45.0	90.0	112.4	34.9	69.8	87.3
84"	126"		50.3	100.5	125.7	41.8	83.5	104.4	32.4	64.8	81.0
36"	54"	72"	107.6	150.0	150.0	89.3	83.5	150.0	69.3	138.7	150.0
42"	63"		92.2	150.0	150.0	75.6	150.0	150.0	59.4	118.9	148.6
48"	72"		80.7	150.0	150.0	67.0	134.0	150.0	52.0	104.0	130.0
54"	81"		71.7	143.4	150.0	59.6	119.1	148.9	46.2	92.4	115.6
60"	90"		64.5	129.1	150.0	53.6	107.2	134.0	41.6	83.2	104.0
66"	99"		58.7	117.3	146.7	48.7	97.5	121.8	37.8	75.6	94.5
72"	108"		53.8	107.6	134.4	44.7	89.3	111.7	34.7	69.3	86.7
78"	117"		49.6	99.3	124.1	41.2	82.5	103.1	32.0	64.0	80.0
36"	54"	76"	101.9	99.3	150.0	84.6	150.0	150.0	65.7	131.4	150.0
42"	63"		87.3	150.0	150.0	72.5	145.1	150.0	56.3	112.6	140.8
48"	72"		76.4	150.0	150.0	63.5	126.9	150.0	49.3	98.5	123.2
54"	81"		67.9	135.9	150.0	56.4	112.8	141.1	43.8	87.6	109.5
60"	90"		61.1	122.3	150.0	50.8	101.6	126.9	39.4	78.8	98.5
66"	99"		55.8	111.2	138.9	46.2	92.3	115.4	35.8	71.7	89.6
72"	108"		50.9	101.9	127.4	42.3	84.6	105.8	32.8	65.7	82.1

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

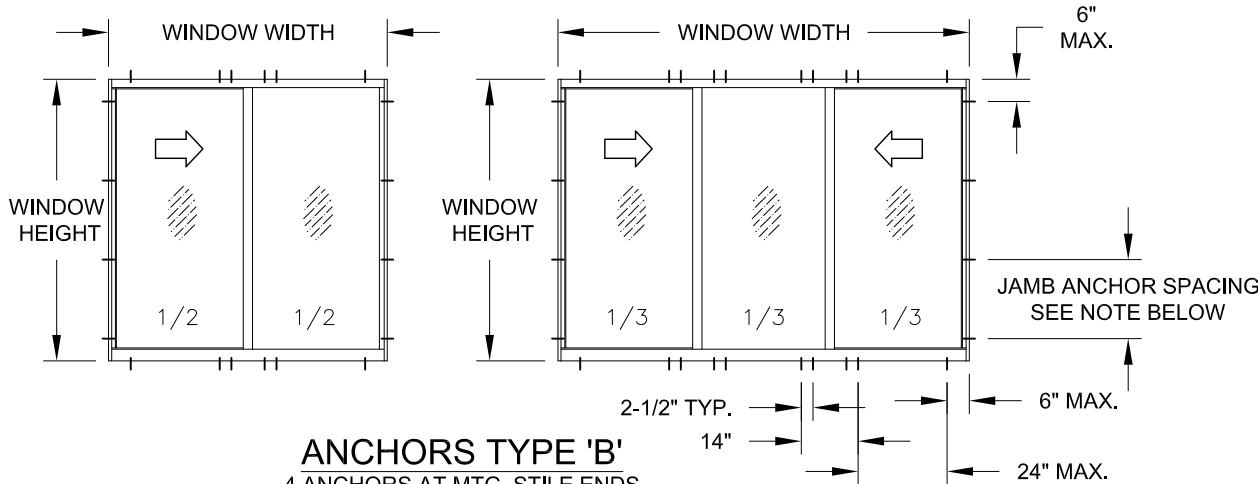
JAMB ANCHOR SPACING
20" MAX. FOR SHIMS UP TO 1/4".
10" MAX. FOR SHIMS GREATER
THAN 1/4" TO 1/2".

ALL VALUES SHOWN ARE DESIGN PSF
VALUES FOR EXT.(+) LOADS SHOWN ARE FOR SILL
WITH WATERBAR ADAPTER. FOR WINDOWS WITHOUT
WATERBAR ADAPTER LIMIT EXT.(+) LOADS TO 65.0 PSF

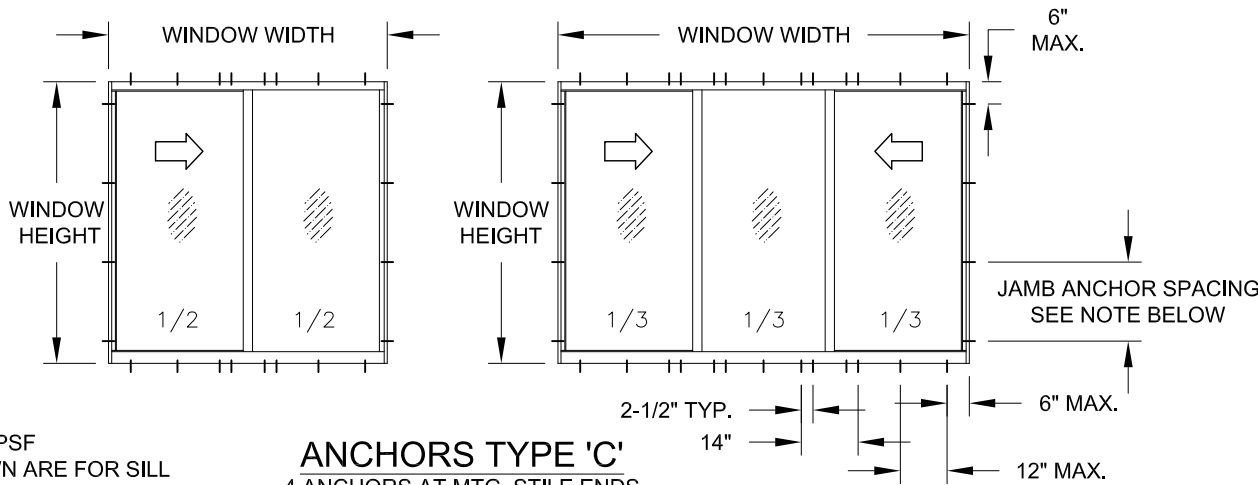
ANCHOR CAPACITY
EQUAL PANELS



ANCHORS TYPE 'A'
2 ANCHORS AT MTG. STILE ENDS
28" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 55 PSF



ANCHORS TYPE 'B'
4 ANCHORS AT MTG. STILE ENDS
24" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 100 PSF



ANCHORS TYPE 'C'
4 ANCHORS AT MTG. STILE ENDS
12" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 150 PSF

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

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

SERIES "375" ALUM. HORIZONTAL ROLLER WDW
(LMI)

1/18/23
Date

A. MORLESIN
By

HR375LMI-FPA
DWG No.

7 OF 21
Sheet

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/05/23
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

Rev. #

10/05/23
Date

UPDATE DP WITHOUT
WATERBAR ADAPTER. S.B.
Rev.

A

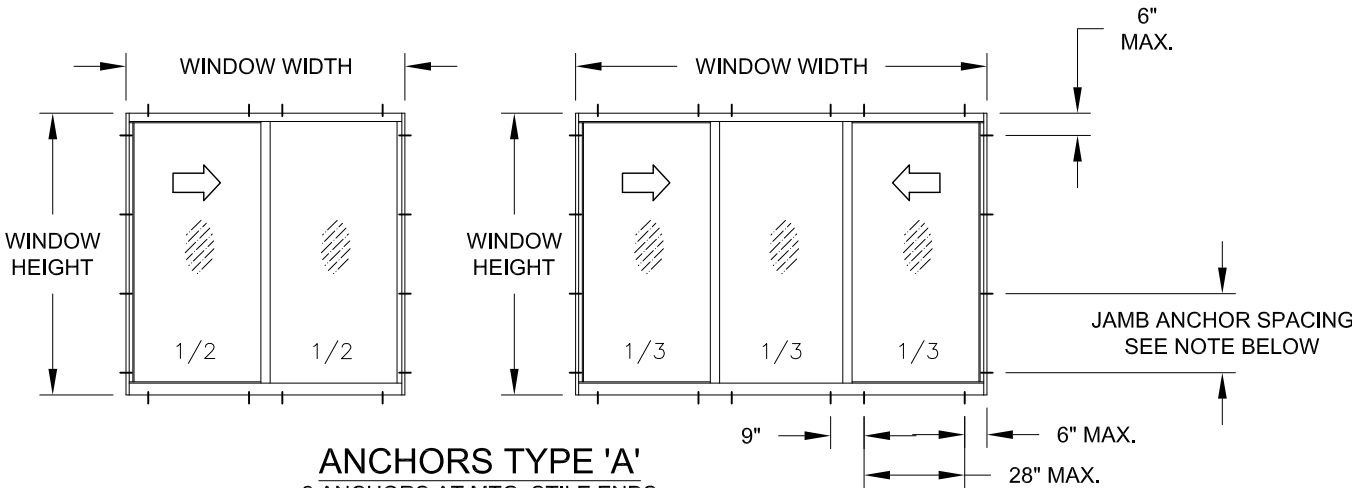
WINDOW DIMS.			1/4" SHIM SPACE			3/8" SHIM SPACE			1/2" SHIM SPACE		
			ANCHORS TYPE:			ANCHORS TYPE:			ANCHORS TYPE:		
			`A`	`B`	`C`	`A`	`B`	`C`	`A`	`B`	`C`
WIDTH		HEIGHT	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)
2 PANEL	3 PANEL										
26-1/2"	39-3/4"	38-3/8"	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
37"	55-1/2"		150.0	150.0	150.0	150.0	150.0	150.0	126.6	150.0	150.0
53-1/8"	79-11/16"		136.7	150.0	150.0	113.6	150.0	150.0	88.1	150.0	150.0
74"	111"		98.2	150.0	150.0	81.5	150.0	150.0	63.3	126.6	150.0
79-1/2"	119-1/4"		91.2	150.0	150.0	75.7	150.0	150.0	58.8	117.8	147.3
106-1/4"	159-3/8"	50-5/8"		136.7	150.0	56.8	150.0	142.0	44.1	88.2	110.2
26-1/2"	39-3/4"		150.0	150.0	150.0	150.0	150.0	150.0	131.5	150.0	150.0
37"	55-1/2"		148.8	150.0	150.0	123.6	150.0	150.0	95.9	150.0	150.0
53-1/8"	79-11/16"		103.7	150.0	150.0	86.1	150.0	150.0	66.8	133.6	150.0
74"	111"		74.4	148.8	150.0	61.8	123.6	150.0	48.0	95.9	119.9
79-1/2"	119-1/4"	63"	69.1	138.5	150.0	57.4	115.1	143.8	44.6	89.3	111.6
106-1/4"	159-3/8"		51.8	103.7	129.6	43.0	86.1	107.6	33.4	66.8	83.5
26-1/2"	39-3/4"		150.0	150.0	150.0	136.1	150.0	150.0	105.7	150.0	150.0
37"	55-1/2"		119.6	150.0	150.0	99.3	150.0	150.0	77.1	150.0	150.0
53-1/8"	79-11/16"		83.3	150.0	150.0	69.2	138.4	150.0	53.7	107.4	134.2
74"	111"	72"	59.6	119.5	149.5	49.7	99.3	124.2	38.5	107.4	96.4
79-1/2"	119-1/4"		55.5	111.3	139.2	46.1	92.5	115.6	35.8	71.8	89.7
26-1/2"	39-3/4"		143.4	150.0	150.0	119.1	150.0	150.0	92.4	150.0	150.0
37"	55-1/2"		104.8	150.0	150.0	86.9	150.0	150.0	67.5	134.9	150.0
53-1/8"	79-11/16"		72.9	145.8	150.0	60.5	121.1	150.0	47.0	94.0	117.5
74"	111"	78"	52.3	104.6	130.8	43.5	86.9	108.6	33.7	67.5	84.3
26-1/2"	39-3/4"		135.0	150.0	150.0	112.8	150.0	150.0	87.6	150.0	150.0
37"	55-1/2"		99.1	150.0	150.0	82.3	150.0	150.0	63.9	127.8	150.0
53-1/8"	79-11/16"		69.0	138.1	150.0	57.3	114.7	143.4	44.5	89.0	111.3
74"	111"		49.6	99.1	123.9	41.2	82.3	102.9	32.0	63.0	79.9

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

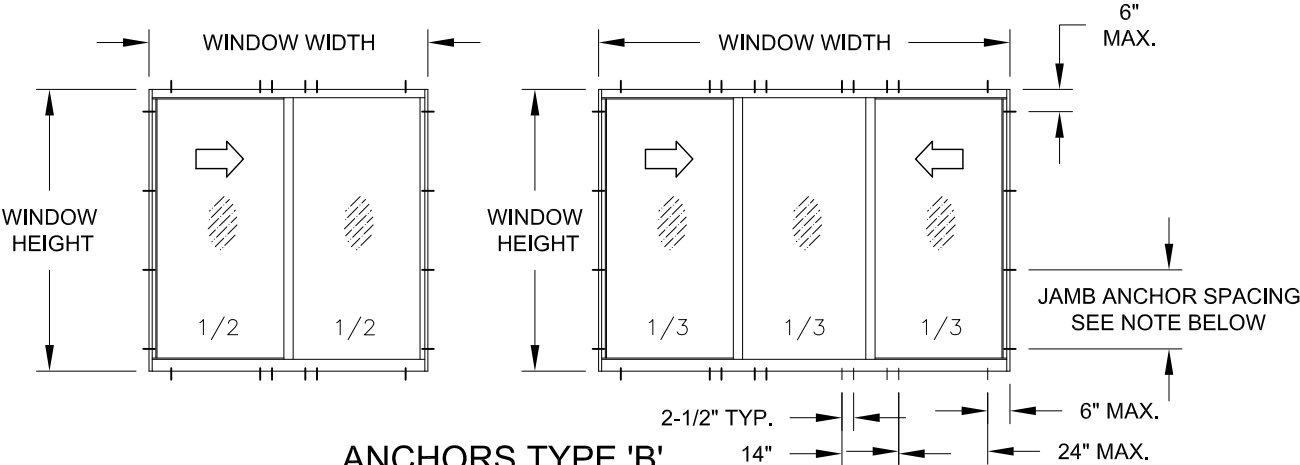
JAMB ANCHOR SPACING
20" MAX. FOR SHIMS UP TO 1/4".
10" MAX. FOR SHIMS GREATER
THAN 1/4" TO 1/2".

ALL VALUES SHOWN ARE DESIGN PSF
VALUES FOR EXT.(+) LOADS SHOWN ARE FOR SILL
WITH WATERBAR ADAPTER. FOR WINDOWS WITHOUT
WATERBAR ADAPTER LIMIT EXT.(+) LOADS TO 65.0 PSF

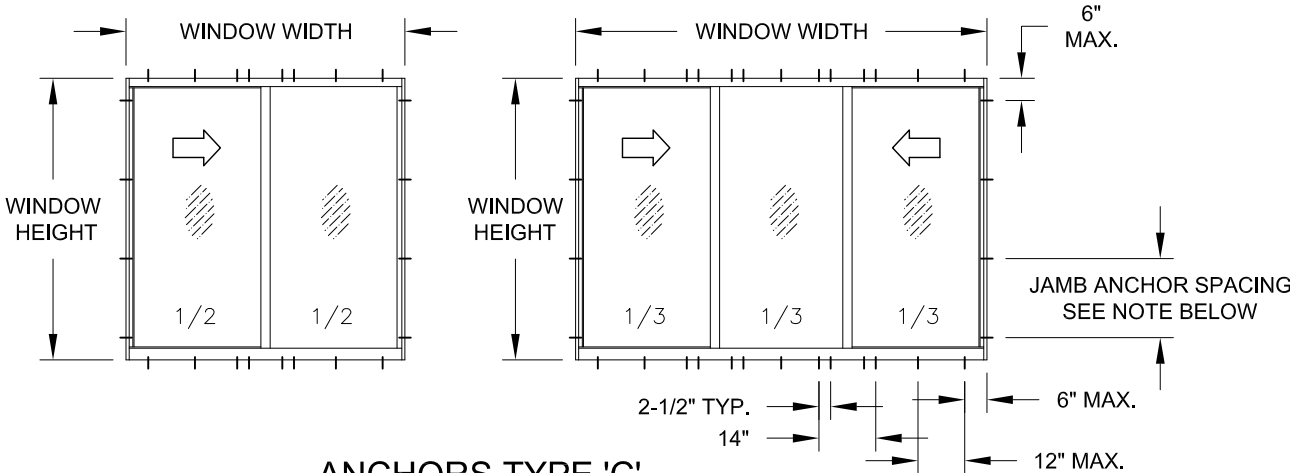
ANCHOR CAPACITY
EQUAL PANELS



ANCHORS TYPE 'A'
2 ANCHORS AT MTG. STILE ENDS
28" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 55 PSF

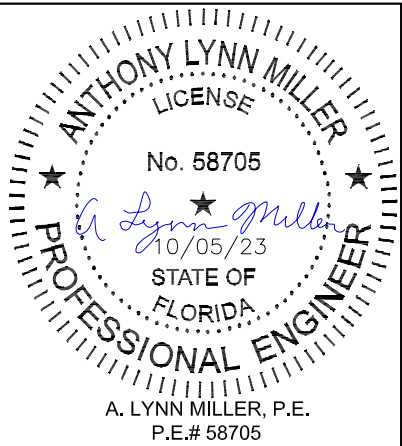


ANCHORS TYPE 'B'
4 ANCHORS AT MTG. STILE ENDS
24" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 100 PSF



ANCHORS TYPE 'C'
4 ANCHORS AT MTG. STILE ENDS
12" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 150 PSF

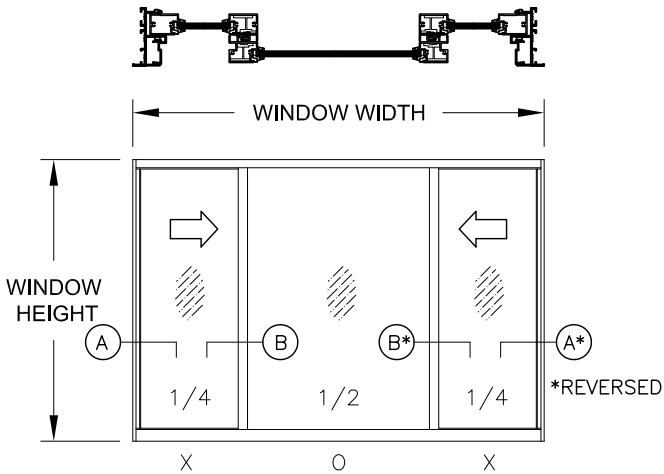
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296 COPYRIGHT © 2023 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	1/18/23		A. MORLESIN	HR375LMI-FPA
		Date	By		
WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432	SERIES "375" ALUM. HORIZONTAL ROLLER WDW (LMI)	DESIGN PRESSURE 3		HR375	8 OF 21
		Series	Desc.		



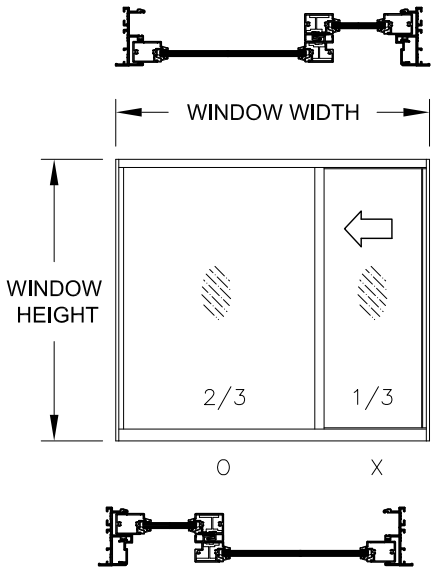
Rev.	10/05/23	A
Date	10/05/23	A
Rev.	10/05/23	A

UPDATE DP WITHOUT
WATERBAR ADAPTER. S.B.

Glass Type 1 No Interlock Reinforcement		Design Load Capacity (lbs/ft ²)																																	
		Window Buck Width (in)																																	
3 Panel Width→		35-5/16		48		49-5/16		56		64		71		72		80		88		96		99		104		106		112		128		142		144	
2 Panel Width→		26-1/2		36		37		42		48		53-1/8		54		60		66		72		74		78		79-1/2		84		96		106-1/4		108	
Window Buck Height (in)	36	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-135.3	+118.4	-118.4	+104.5	-104.5	+85	-85	+85	-85	+84.6	-84.6	+83.8	-83.8	+71.9	-71.9	+61.6	-61.5	+61.5	-61.5
	38 3/8	+120	-150	+120	-150	+120	-150	+120	-147.2	+120	-147.2	+120	-147.2	+105.6	-105.6	+85	-85	+85	-85	+85	-85	+85	-85	+84.6	-84.6	+84.6	-84.6	+67.5	-67.5	+58	-58	+58	-58		
	48	+120	-150	+120	-150	+120	-142.5	+120	-130.6	+116.1	-116.1	+105.6	-105.6	+105.6	-105.6	+85	-85	+83.9	-83.9	+77.6	-77.6	+72.4	-72.4	+72.4	-72.4	+68.2	-68.2	+67.5	-67.5						
	50 5/8	+120	-150	+120	-142.5	+120	-142.5	+111.5	-111.5	+98.8	-98.8	+98.8	-98.8	+85	-85	+80.1	-80.1	+74.7	-74.7	+72	-72	+72	-72	+68.2	-68.2	+68.2	-68.2								
	54	+120	-144.3	+120	-134.3	+111.5	-111.5	+111.5	-111.5	+97.5	-97.5	+85	-85	+85	-85	+80.1	-80.1	+74.7	-74.7	+70	-70	+65.6	-65.6	+65.6	-65.6										
	60	+120	-144.3	+118.2	-118.2	+109.1	-109.1	+98.7	-98.7	+84	-84	+76.9	-76.9	+76.9	-76.9	+70.5	-70.5	+66.4	-66.4																
	63	+120	-144.3	+109.1	-109.1	+109.1	-109.1	+85	-85	+77.5	-77.5	+73.4	-73.4	+68.3	-68.3	+62.3	-62.3																		
	66	+120	-124.2	+105.5	-105.5	+93.2	-93.2	+85	-85	+77.5	-77.5	+68.3	-68.3	+68.3	-68.3	+62.3	-62.3																		
	72	+120	-124.2	+95.3	-95.3	+93.2	-93.2	+80.1	-80.1	+69.4	-69.4	+61.6	-61.6	+60.8	-60.8																				
76	+117	-117	+85	-85	+85	-85	+78.7	-78.7	+65	-65	+57.4	-57.4	+56.6	-56.6																					



Glass Type 4 No Interlock Reinforcement		Design Load Capacity (lbs/ft ²)																																			
		Window Buck Width (in)																																			
3 Panel Width→		35-5/16		48		49-5/16		56		64		71		72		80		88		96		99		104		106		112		128		142		144			
2 Panel Width→		26-1/2		36		37		42		48		53-1/8		54		60		66		72		74		78		79-1/2		84		96		106-1/4		108			
Window Buck Height (in)	36	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-132	+116.6	-116.6	+85	-85	+85	-85	+85	-85	+85	-85	+85	-85	+80.2	-80.2	+68.6	-68.6	+68.6	-68.6
	38 3/8	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+117.7	-117.7	+85	-85	+85	-85	+85	-85	+85	-85	+85	-85	+85	-85	+75.3	-75.3	+65.5	-65.5	+65.5	-65.5				
	48	+120	-150	+120	-150	+120	-142.5	+120	-139.4	+120	-127.9	+117.7	-117.7	+117.7	-117.7	+85	-85	+85	-85	+85	-85	+80.8	-80.8	+80.8	-80.8	+76.1	-76.1	+75.3	-75.3								
	50 5/8	+120	-150	+120	-142.5	+120	-142.5	+119.7	-119.7	+110.2	-110.2	+110.2	-110.2	+85	-85	+85	-85	+83.3	-83.3	+80.3	-80.3	+80.3	-80.3	+76.1	-76.1	+76.1	-76.1										
	54	+120	-144.3	+120	-134.3	+119.7	-119.7	+119.7	-119.7	+108.7	-108.7	+85	-85	+85	-85	+85	-85	+83.3	-83.3	+78.1	-78.1	+73.2	-73.2	+73.2	-73.2												
	60	+120	-144.3	+118.2	-118.2	+109.1	-109.1	+104.8	-104.8	+85	-85	+85	-85	+85	-85	+78.6	-78.6	+74.1	-74.1																		
	63	+120	-144.3	+109.1	-109.1	+109.1	-109.1	+85	-85	+84.2	-84.2	+81.9	-81.9	+76.2	-76.2	+69.5	-69.5																				
	66	+120	-124.2	+105.5	-105.5	+93.2	-93.2	+85	-85	+84.2	-84.2	+76.2	-76.2	+76.2	-76.2	+69.5	-69.5																				
	72	+120	-124.2	+95.3	-95.3	+93.2	-93.2	+84	-84	+75.6	-75.6	+68.7	-68.7	+67.8	-67.8																						
76	+117	-117	+85	-85	+85	-85	+78.7	-78.7	+70.7	-70.7	+64	-64	+63.1	-63.1																							



Glass Types: 2, 3, & 5 No Interlock Reinforcement		Design Load Capacity (lbs/ft²)																																	
		Window Buck Width (in)																																	
3 Panel Width →		35-5/16		48		49-5/16		56		64		71		72		80		88		96		99		104		106		112		128		142		144	
2 Panel Width →		26-1/2		36		37		42		48		53-1/8		54		60		66		72		74		78		79-1/2		84		96		106-1/4		108	
Window Buck Height (in)	36	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100
	38 3/8	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100		
	48	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100		
	50 5/8	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100		
	54	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+100	-100	+100	-100	+100	-100	+100	-100																
	60	+120	-150	+120	-150	+120	-150	+120	-150	+100	-100	+100	-100	+100	-100	+100	-100																		
	63	+120	-150	+120	-150	+120	-150	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100																		
	66	+120	-150	+120	-150	+120	-139.7	+100	-100	+100	-100	+100	-100	+100	-100	+100	-100																		
	72	+120	-150	+120	-143	+120	-139.7	+100	-100	+100	-100	+100	-100	+100	-100																				
76	+120	-150	+100	-100	+100	-100	+100	-100	+100	-100	+97.9	-97.9	+96.9	-96.9																					

Glass Type 2 With Interlock Reinforcement		Design Load Capacity (lbs/ft ²)																																		
		Window Buck Width (in)																																		
3 Panel Width →		35-5/16		48		49-5/16		56		64		71		72		80		88		96		99		104		106		112		128		142		144		
2 Panel Width →		26-1/2		36		37		42		48		53-1/8		54		60		66		72		74		78		79-1/2		84		96		106-1/4		108		
Window Buck Height (in)	36	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	
	38 3/8	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+117.5	-117.5	+117.5	-117.5			
	48	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120							
	50 5/8	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120							
	54	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120									
	60	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120															
	63	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120																	
	66	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120																	
	72	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120																					
76	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+114.7	-114.7	+113.1	-113.1																				

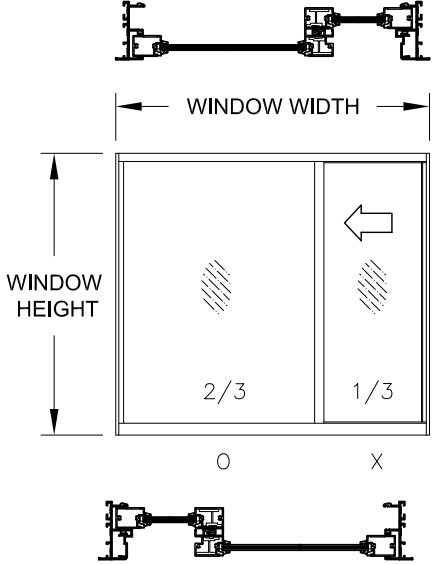
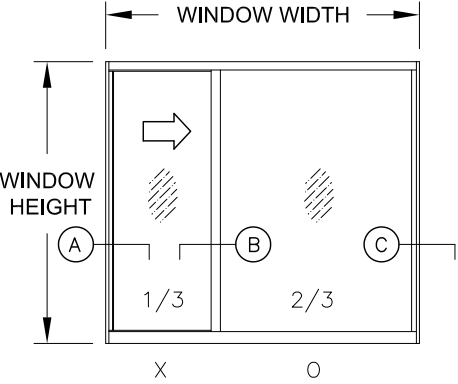
Glass Type 3 With Interlock Reinforcement		Design Load Capacity (lbs/ft ²)																																		
		Window Buck Width (in)																																		
3 Panel Width →		35-5/16		48		49-5/16		56		64		71		72		80		88		96		99		104		106		112		128		142		144		
2 Panel Width →		26-1/2		36		37		42		48		53-1/8		54		60		66		72		74		78		79-1/2		84		96		106-1/4		108		
Window Buck Height (in)	36	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	
	38 3/8	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+111	-111	+111	-111	+111	-111			
	48	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+119	-119	+118.4	-118.4	+111.7	-111.7	+110.4	-110.4							
	50 5/8	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+119	-119	+119	-119	+111.7	-111.7	+111.7	-111.7									
	54	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+114.5	-114.5	+107.9	-107.9	+107.9	-107.9											
	60	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+110.6	-110.6																	
	63	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+110.2	-110.2																	
	66	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+110.2	-110.2																	
	72	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+119.4	-119.4	+116.7	-116.7																					
76	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+114.7	-114.7	+112	-112																						

Glass Type 5 With Interlock Reinforcement		Design Load Capacity (lbs/ft ²)																																	
		Window Buck Width (in)																																	
3 Panel Width →		35-5/16		48		49-5/16		56		64		71		72		80		88		96		99		104		106		112		128		142		144	
2 Panel Width →		26-1/2		36		37		42		48		53-1/8		54		60		66		72		74		78		79-1/2		84		96		106-1/4		108	
Window Buck Height (in)	36	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120
	38 3/8	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120		
	48	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120						
	50 5/8	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120								
	54	+120	-150	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120										
	60	+120	-150	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120																
	63	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120																		
	66	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120																		
	72	+120	-150	+120	-150	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120																				
76	+120	-150	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120	+120	-120																					

GLAZING/REINFORCEMENT
PERFORMANCE VALUES
UNEQUAL PANELS
WITH INTERLOCK REINFORCEMENT

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
VALUES FOR POSITIVE LOADS(+) SHOWN ARE
FOR SILL WITH WATERBAR ADAPTER
FOR WINDOWS WITHOUT WATERBAR ADAPTER
LIMIT POS(+) LOADS TO 65.0 PSF

MAXIMUM VENT SIZE IS 18.7 SQ. FT.
AND MAXIMUM VENT HEIGHT IS 71 11/16"



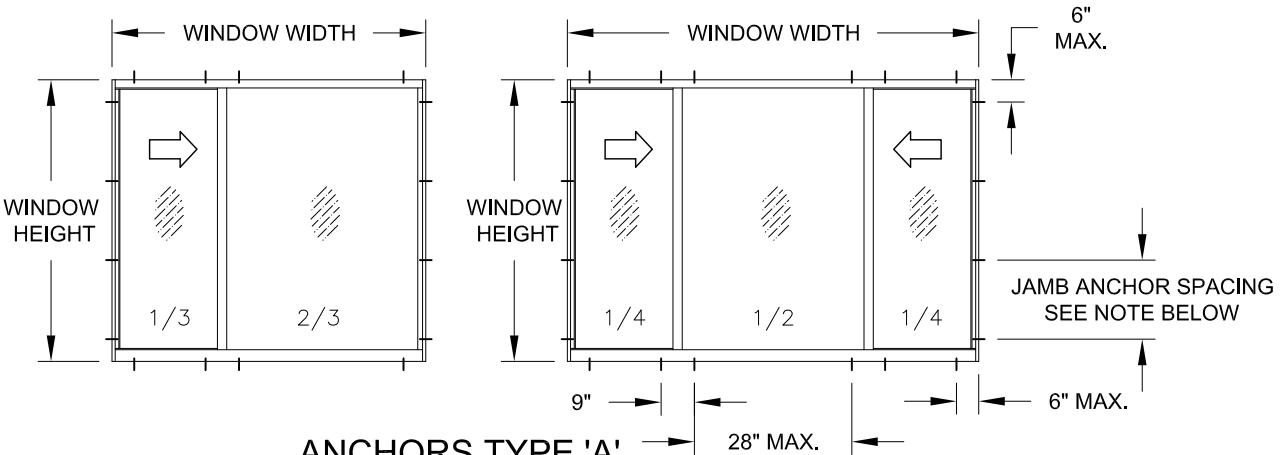
WINDOW DIMS.			1/4" SHIM SPACE			3/8" SHIM SPACE			1/2" SHIM SPACE		
			ANCHORS TYPE:			ANCHORS TYPE:			ANCHORS TYPE:		
			'A'	'B'	'C'	'A'	'B'	'C'	'A'	'B'	'C'
WIDTH		HEIGHT	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)
2 PANEL	3 PANEL										
36"	48"	36"	150.0	150.0	150.0	150.0	150.0	150.0	138.7	150.0	150.0
42"	56"		150.0	150.0	150.0	150.0	150.0	150.0	118.9	150.0	150.0
48"	64"		150.0	150.0	150.0	134.0	150.0	150.0	104.0	150.0	150.0
54"	72"		143.4	150.0	150.0	119.1	150.0	150.0	92.4	150.0	150.0
60"	80"		129.1	150.0	150.0	107.2	150.0	150.0	83.2	150.0	150.0
66"	88"		117.3	150.0	150.0	57.5	150.0	150.0	75.6	150.0	150.0
72"	96"		107.6	150.0	150.0	89.3	150.0	150.0	69.3	136.7	150.0
78"	104"		99.3	150.0	150.0	82.5	150.0	150.0	64.0	128.0	150.0
84"	112"		92.2	150.0	150.0	76.6	150.0	150.0	59.4	118.9	148.6
96"	128"		80.7	150.0	150.0	67.0	134.0	150.0	52.0	104.0	130.0
108"	144"		71.7	143.4	150.0	59.6	119.1	148.9	46.2	92.4	115.6
36"	48"	48"	150.0	150.0	150.0	134.0	150.0	150.0	104.0	150.0	150.0
42"	56"		138.3	150.0	150.0	114.9	150.0	150.0	69.1	150.0	150.0
48"	64"		121.0	150.0	150.0	100.5	150.0	150.0	78.0	150.0	150.0
54"	72"		107.6	150.0	150.0	89.3	150.0	150.0	69.3	138.7	150.0
60"	80"		96.8	150.0	150.0	80.4	150.0	150.0	62.4	124.8	150.0
66"	88"		80.7	150.0	150.0	67.0	134.0	150.0	52.0	104.0	130.0
72"	96"		74.5	148.9	150.0	61.8	123.7	150.0	48.0	96.0	120.0
78"	104"		69.1	138.3	150.0	57.4	114.9	143.6	44.6	89.1	111.4
36"	48"	54"	143.4	150.0	150.0	119.1	150.0	150.0	44.6	150.0	150.0
42"	56"		122.9	150.0	150.0	102.1	150.0	150.0	79.2	150.0	150.0
48"	64"		107.6	150.0	150.0	89.3	150.0	150.0	69.3	150.0	150.0
54"	72"		95.6	150.0	150.0	79.4	150.0	150.0	61.6	123.3	150.0
60"	80"		86.0	150.0	150.0	71.5	142.9	150.0	55.5	110.9	138.7
66"	88"		78.2	150.0	150.0	65.0	129.9	150.0	50.4	100.8	126.1
72"	96"		71.7	143.4	150.0	59.6	119.1	148.9	46.2	92.4	115.6
78"	104"		66.2	132.4	150.0	55.0	109.9	137.4	42.7	85.3	106.7
36"	48"	60"	129.1	150.0	150.0	107.2	150.0	150.0	83.2	150.0	150.0
42"	56"		110.6	150.0	150.0	91.9	150.0	150.0	71.3	142.6	150.0
48"	64"		95.8	150.0	150.0	80.4	150.0	150.0	62.4	124.8	150.0
54"	72"		86.0	150.0	150.0	71.5	142.9	150.0	55.5	110.9	138.7
60"	80"		77.4	150.0	150.0	64.3	128.6	150.0	49.9	99.8	124.8
66"	88"		70.4	140.8	150.0	58.5	116.9	146.2	45.4	90.8	113.5
36"	48"	66"	117.3	150.0	150.0	97.5	150.0	150.0	75.6	150.0	150.0
42"	56"		100.6	150.0	150.0	83.5	150.0	150.0	64.8	129.7	150.0
48"	64"		88.0	150.0	150.0	73.1	146.2	150.0	56.7	113.5	141.8
54"	72"		78.2	150.0	150.0	65.0	129.9	150.0	50.4	100.8	126.1
60"	80"		70.4	140.8	150.0	58.5	116.9	146.2	45.4	90.8	113.5
36"	48"	72"	107.6	150.0	150.0	89.3	150.0	150.0	69.3	138.7	150.0
42"	56"		92.2	150.0	150.0	76.6	150.0	150.0	59.4	118.9	148.6
48"	64"		80.7	150.0	150.0	67.0	134.0	150.0	52.0	104.0	130.0
54"	72"		71.7	143.4	150.0	59.6	119.1	148.9	46.2	92.4	115.6
36"	48"	76"	101.9	150.0	150.0	84.6	150.0	150.0	65.7	131.4	150.0
42"	56"		87.3	150.0	150.0	72.5	145.1	150.0	56.3	112.6	140.8
48"	64"		76.4	150.0	150.0	53.5	126.9	150.0	49.3	96.5	123.2
54"	72"		67.9	135.9	150.0	56.4	112.8	141.1	43.8	87.6	109.5

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

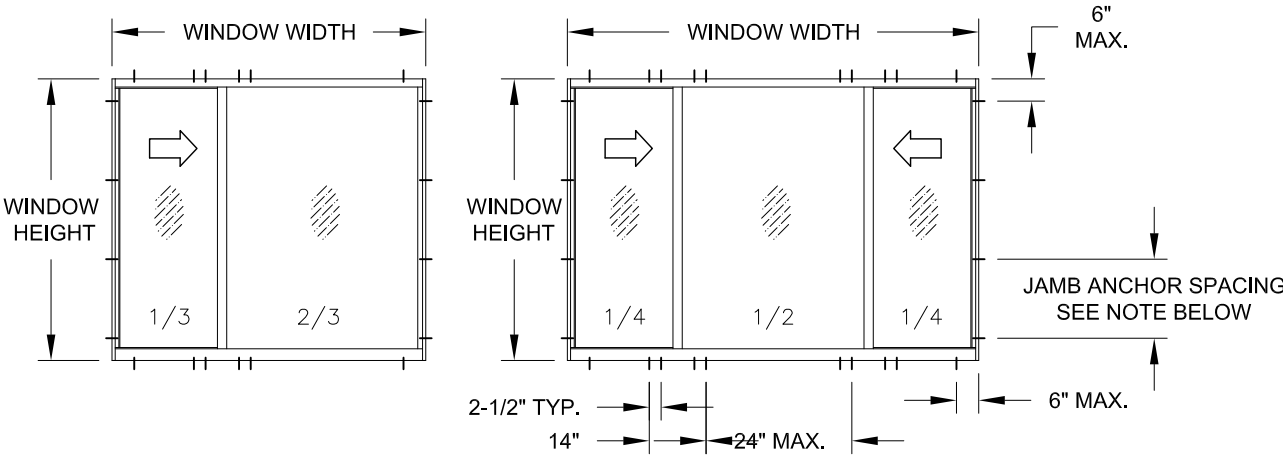
ALL VALUES SHOWN ARE DESIGN PSF
VALUES FOR POS.(+) LOADS SHOWN ARE FOR
SILL WITH WATERBAR ADAPTER.
FOR WINDOWS WITHOUT WATERBAR ADAPTER
LIMIT POS.(+) LOADS TO 65.0 PSF

JAMB ANCHOR SPACING
20" MAX. FOR SHIMS UP TO 1/4".
10" MAX. FOR SHIMS GREATER THAN 1/4" TO 1/2".

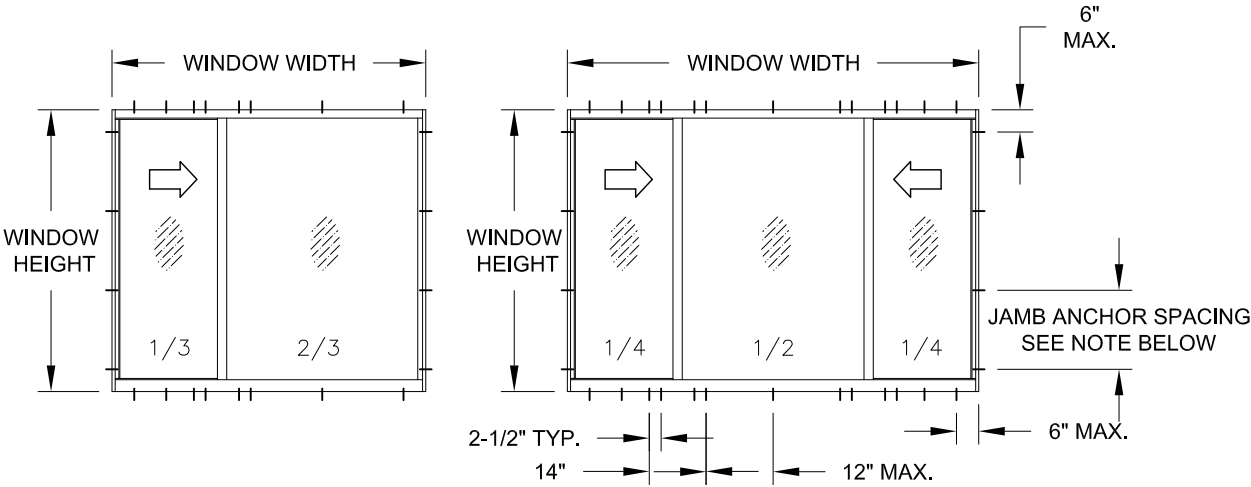
ANCHOR CAPACITY
UNEQUAL PANELS



ANCHORS TYPE 'A'
2 ANCHORS AT MTG. STILE ENDS
28" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 55 PSF

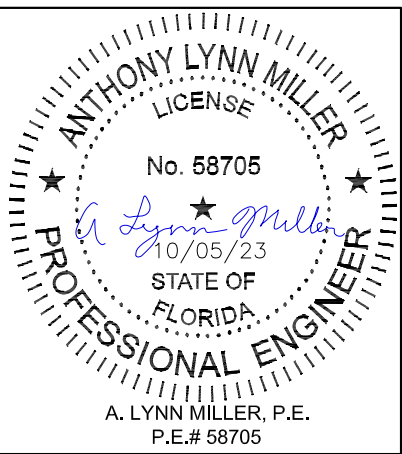


ANCHORS TYPE 'B'
4 ANCHORS AT MTG. STILE ENDS
24" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 100 PSF



ANCHORS TYPE 'C'
4 ANCHORS AT MTG. STILE ENDS
12" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 150 PSF

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WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		SERIES "375" ALUM. HORIZONTAL ROLLER WDW (LMI)		A. MORLESIN	
DESIGN PRESSURE 5		11 OF 21		HR375LMI-FPA	
HR375		Sheet		No. DWG	



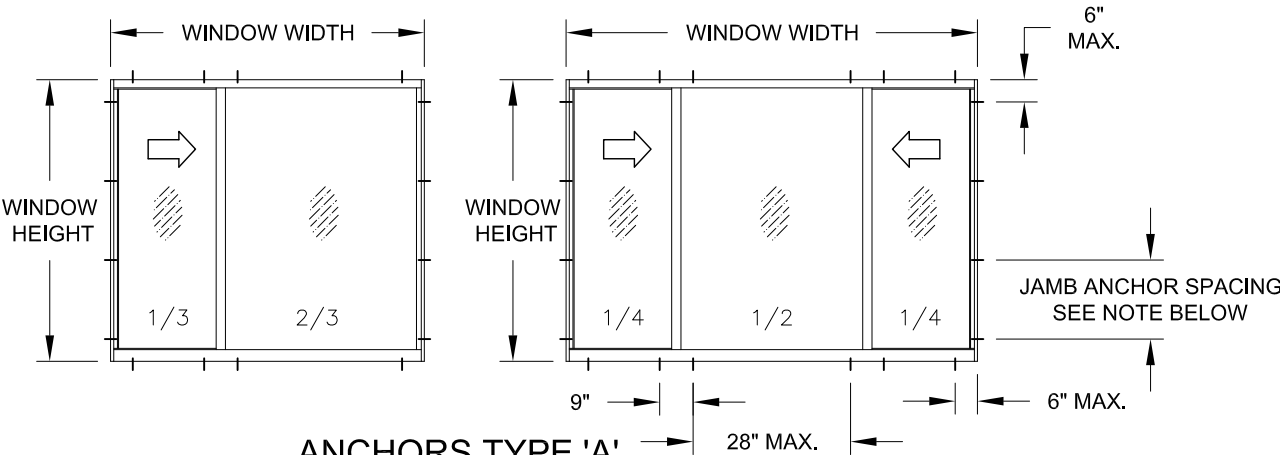
Rev. #	10/05/23	Date	UPDATE DP WITHOUT WATERBAR ADAPTER. S.B.	A
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WINDOW DIMS.			1/4" SHIM SPACE			3/8" SHIM SPACE			1/2" SHIM SPACE		
			ANCHORS TYPE:			ANCHORS TYPE:			ANCHORS TYPE:		
			'A'	'B'	'C'	'A'	'B'	'C'	'A'	'B'	'C'
WIDTH		HEIGHT	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)
2 PANEL	3 PANEL										
26-1/2"	35-5/16"	38-3/8"	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
37"	49-5/16"		150.0	150.0	150.0	150.0	150.0	150.0	126.6	150.0	150.0
53-1/8"	71"		136.4	150.0	150.0	113.3	150.0	150.0	87.9	150.0	150.0
74"	99"		97.8	150.0	150.0	81.3	150.0	150.0	63.1	126.1	150.0
79-1/2"	106"		97.8	150.0	150.0	75.9	150.0	150.0	58.9	117.8	147.3
106-1/4"	142"	50-5/8"	68.2	136.4	150.0	56.7	113.3	141.6	44.0	87.9	109.9
26-1/2"	35-5/16"		150.0	150.0	150.0	150.0	150.0	150.0	134.0	150.0	150.0
37"	49-5/16"		148.8	150.0	150.0	123.6	150.0	150.0	96.0	150.0	150.0
53-1/8"	71"		103.4	150.0	150.0	85.9	150.0	150.0	66.7	133.3	150.0
74"	99"		74.2	148.3	150.0	61.8	150.0	150.0	47.8	95.6	119.5
79-1/2"	106"	63"	69.3	138.5	150.0	57.5	115.1	143.8	44.7	89.3	111.0
26-1/2"	35-5/16"		150.0	150.0	150.0	138.7	150.0	150.0	107.7	150.0	150.0
37"	49-5/16"		150.0	150.0	150.0	99.3	150.0	150.0	77.1	150.0	150.0
53-1/8"	71"		63.1	150.0	150.0	69.0	138.0	150.0	53.6	107.1	133.9
26-1/2"	35-5/16"		146.1	150.0	150.0	121.4	150.0	150.0	94.2	150.0	150.0
37"	49-5/16"	72"	104.6	150.0	150.0	86.9	150.0	150.0	67.5	134.9	150.0
53-1/8"	71"		104.6	145.4	150.0	60.4	120.8	150.0	46.9	93.7	117.2
26-1/2"	35-5/16"	78"	138.4	150.0	150.0	115.0	150.0	150.0	89.3	150.0	150.0
37"	49-5/16"		99.1	150.0	150.0	82.3	150.0	150.0	63.9	127.8	159.8
53-1/8"	71"		68.9	137.8	150.0	57.2	114.4	143.0	44.4	88.8	111.0

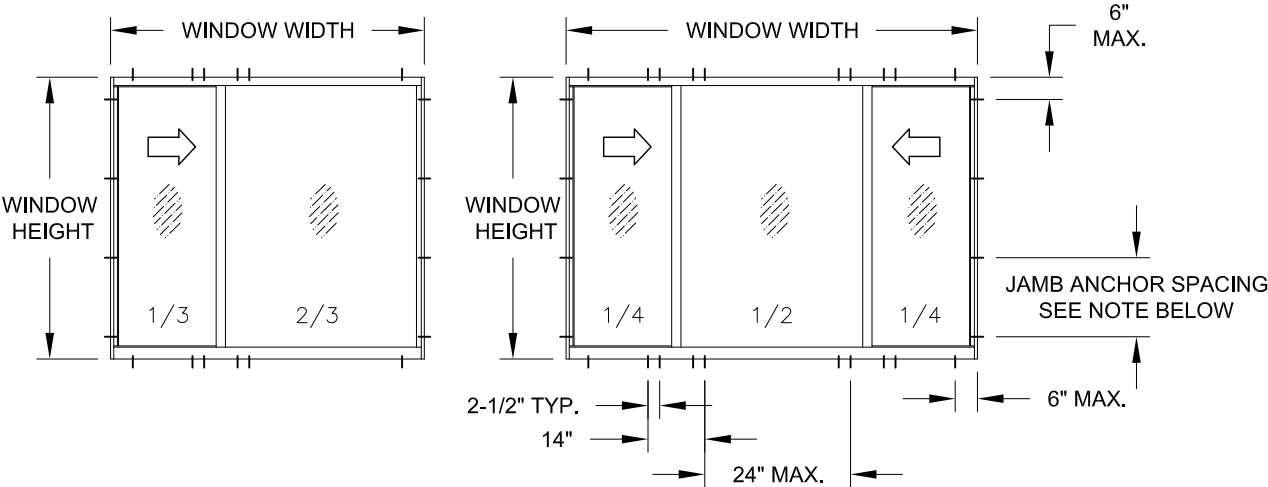
ALL VALUES SHOWN ARE DESIGN PSF (POUNDS PER SQUARE FOOT)

ALL VALUES SHOWN ARE DESIGN PSF
VALUES FOR POS.(+) LOADS SHOWN ARE FOR
SILL WITH WATERBAR ADAPTER.
FOR WINDOWS WITHOUT WATERBAR ADAPTER
LIMIT POS.(+) LOADS TO 65.0 PSF

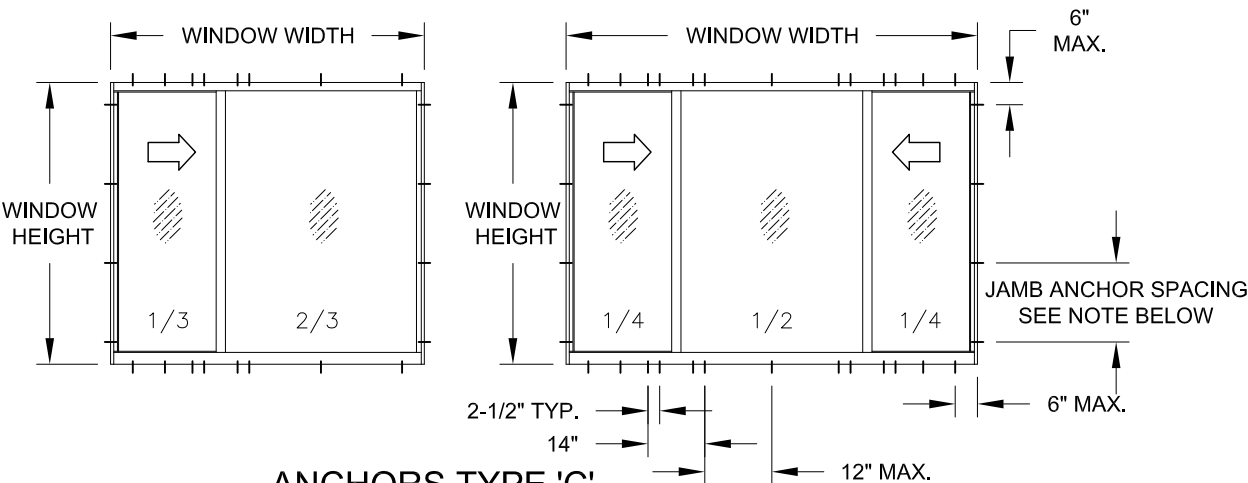
ANCHOR CAPACITY
UNEQUAL PANELS



ANCHORS TYPE 'A'
2 ANCHORS AT MTG. STILE ENDS
28" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 55 PSF



ANCHORS TYPE 'B'
4 ANCHORS AT MTG. STILE ENDS
24" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 100 PSF



ANCHORS TYPE 'C'
4 ANCHORS AT MTG. STILE ENDS
12" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 150 PSF

WINDOOR[®]

INCORPORATED

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

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

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Series

Desc.

Design Load Tables

HR375

By

A. MORLESIN

No.

12 OF 21

DMG

HR375LMI-FPA

Date

1/18/23

Series Title

SERIES "375" ALUM. HORIZONTAL ROLLER WDW (LMI)

ANTHONY LYNN MILLER

LICENSE

No. 58705

10/05/23

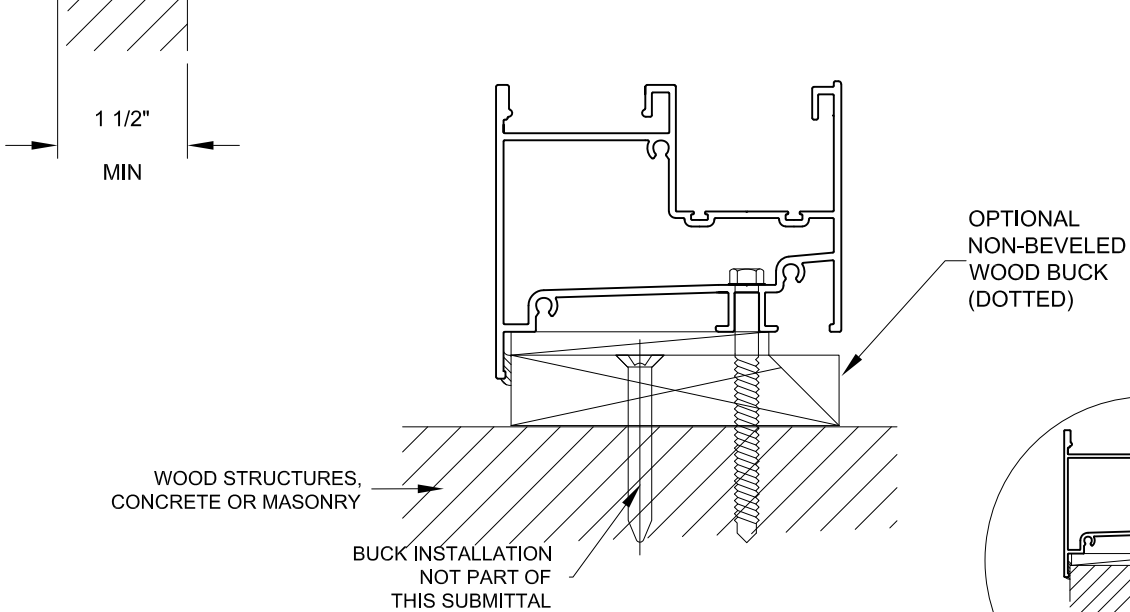
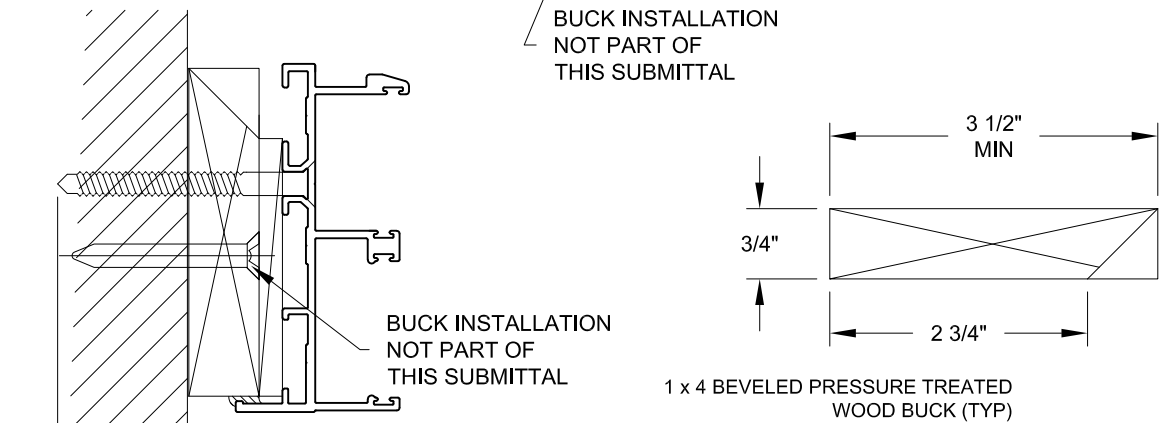
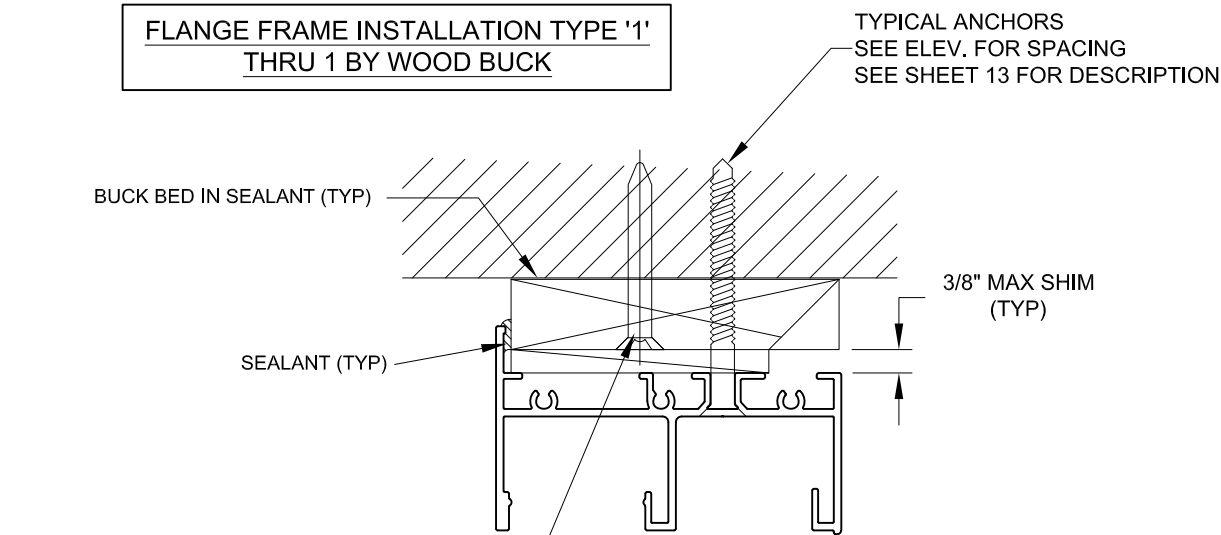
STATE OF FLORIDA

PROFESSIONAL ENGINEER

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

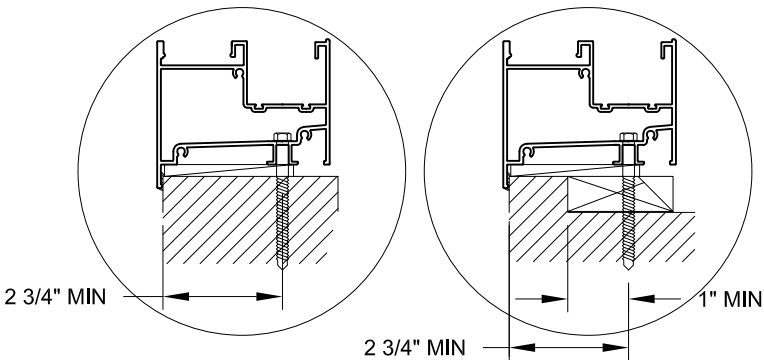
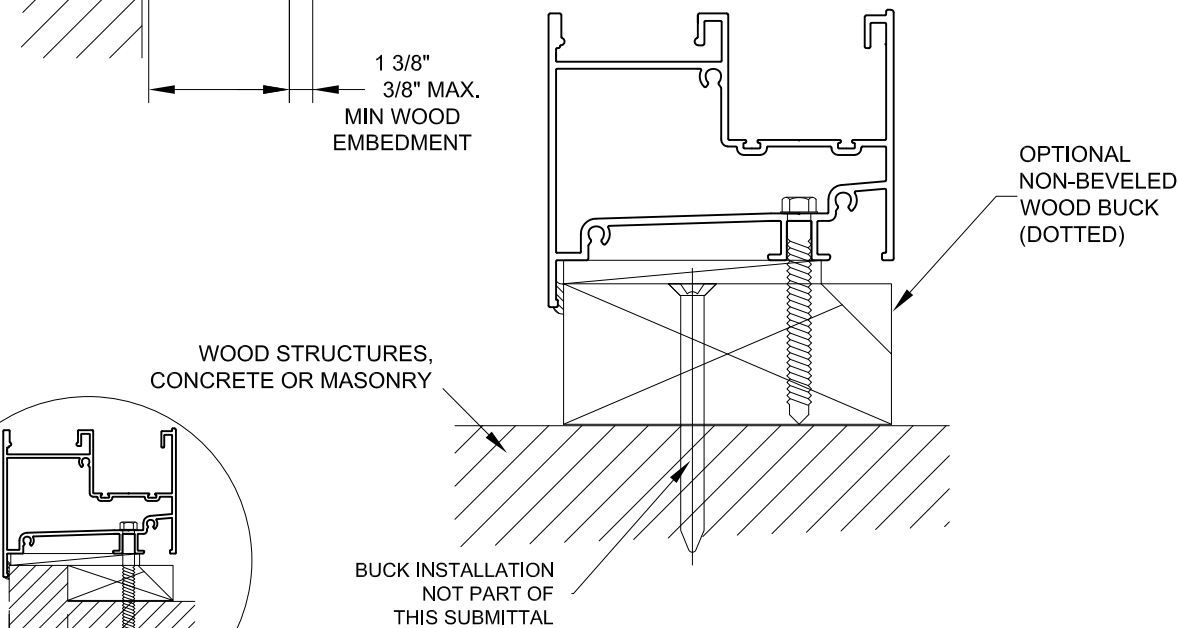
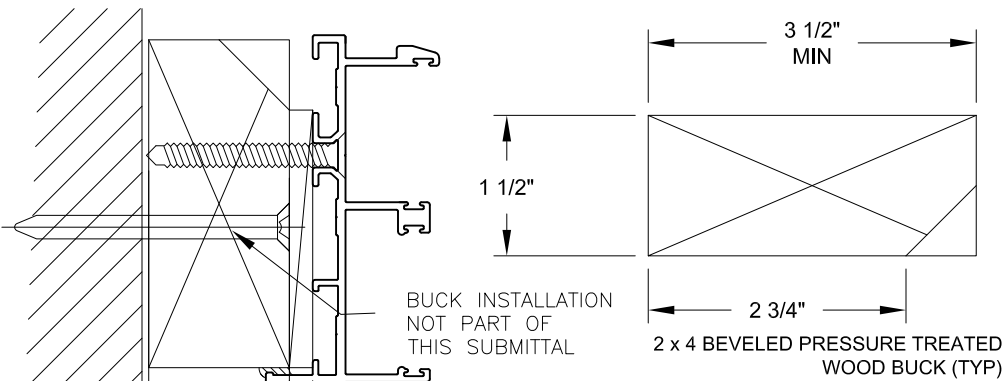
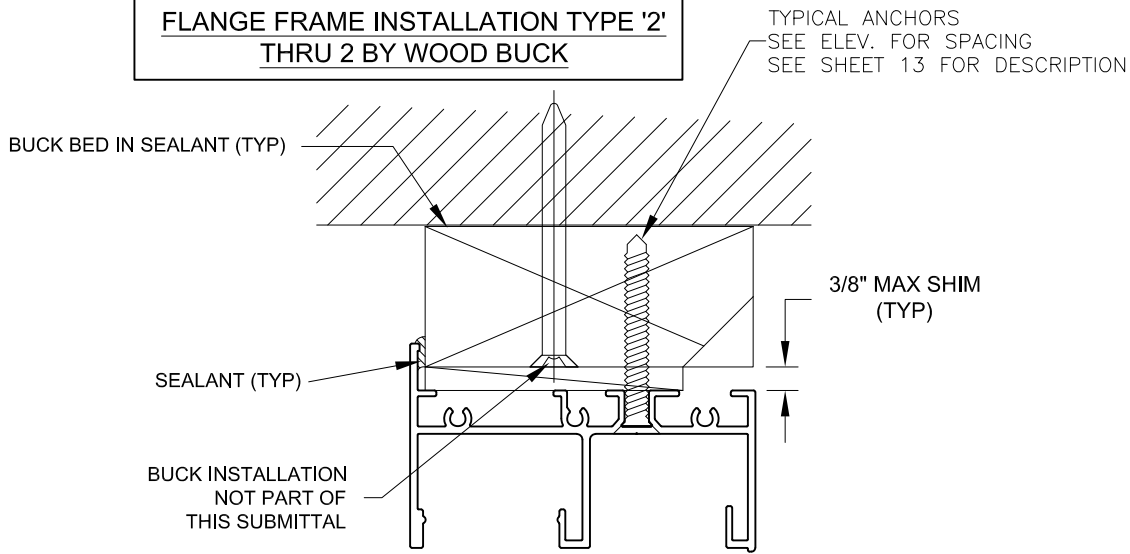
INSTALLATION CONDITIONS FLANGE FRAME

FLANGE FRAME INSTALLATION TYPE '1'
THRU 1 BY WOOD BUCK



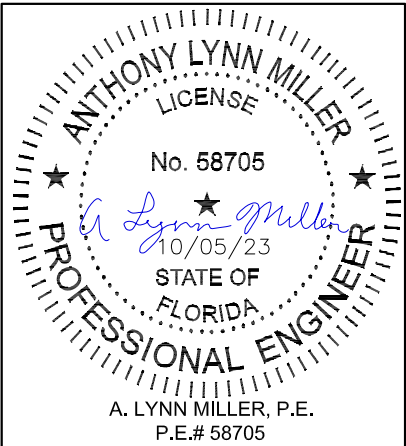
WOOD BUCKS NOT BY WINDOOR CORP., MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

FLANGE FRAME INSTALLATION TYPE '2'
THRU 2 BY WOOD BUCK



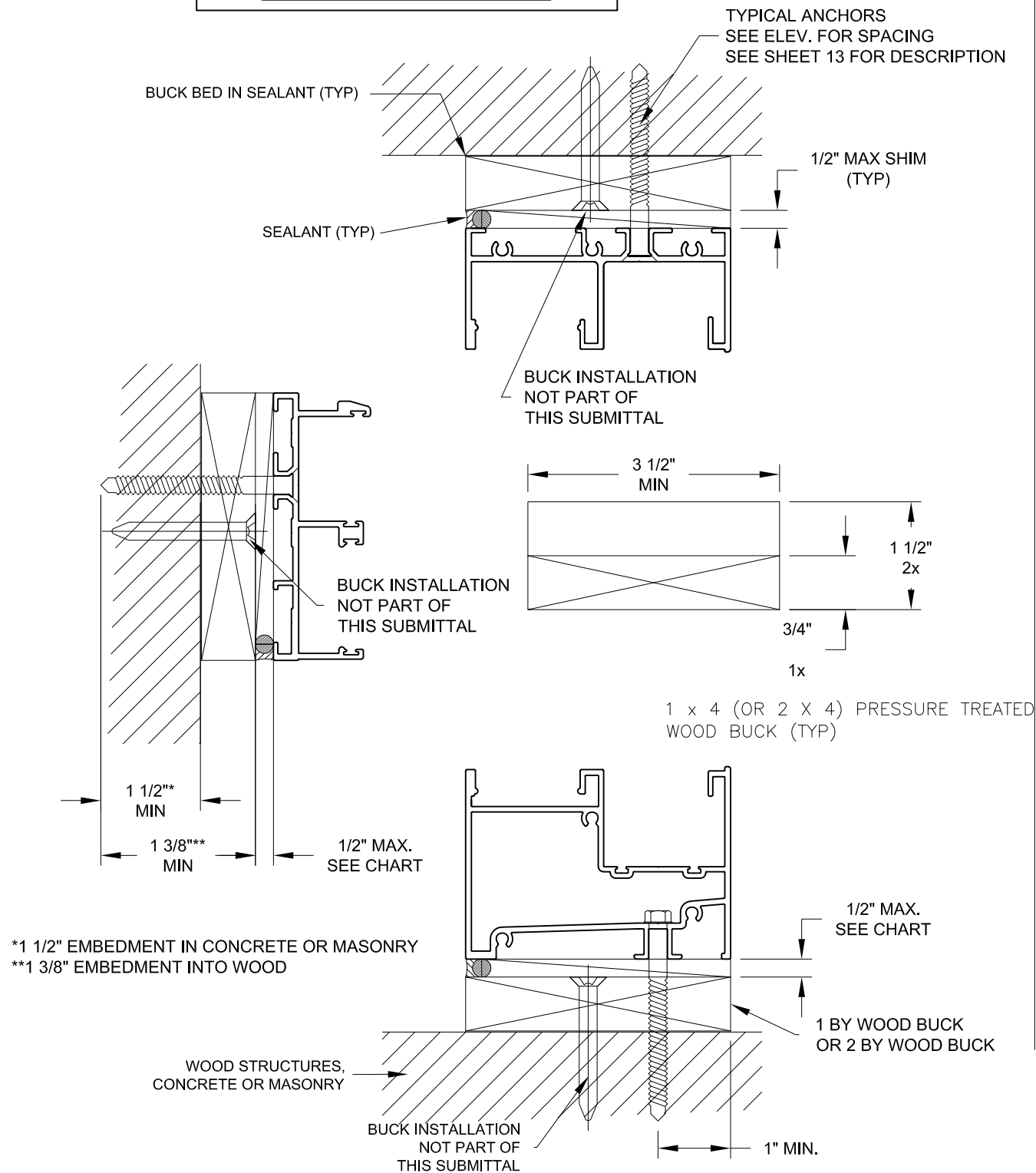
OPTIONAL PRE-CAST SILL

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WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		SERIES "375" ALUM. HORIZONTAL ROLLER WDW (LMI)		A. MORLESIN	
FLANGE INSTALLATION		13 OF 21		HR375	
HR375		13 OF 21		HR375LMI-FPA	

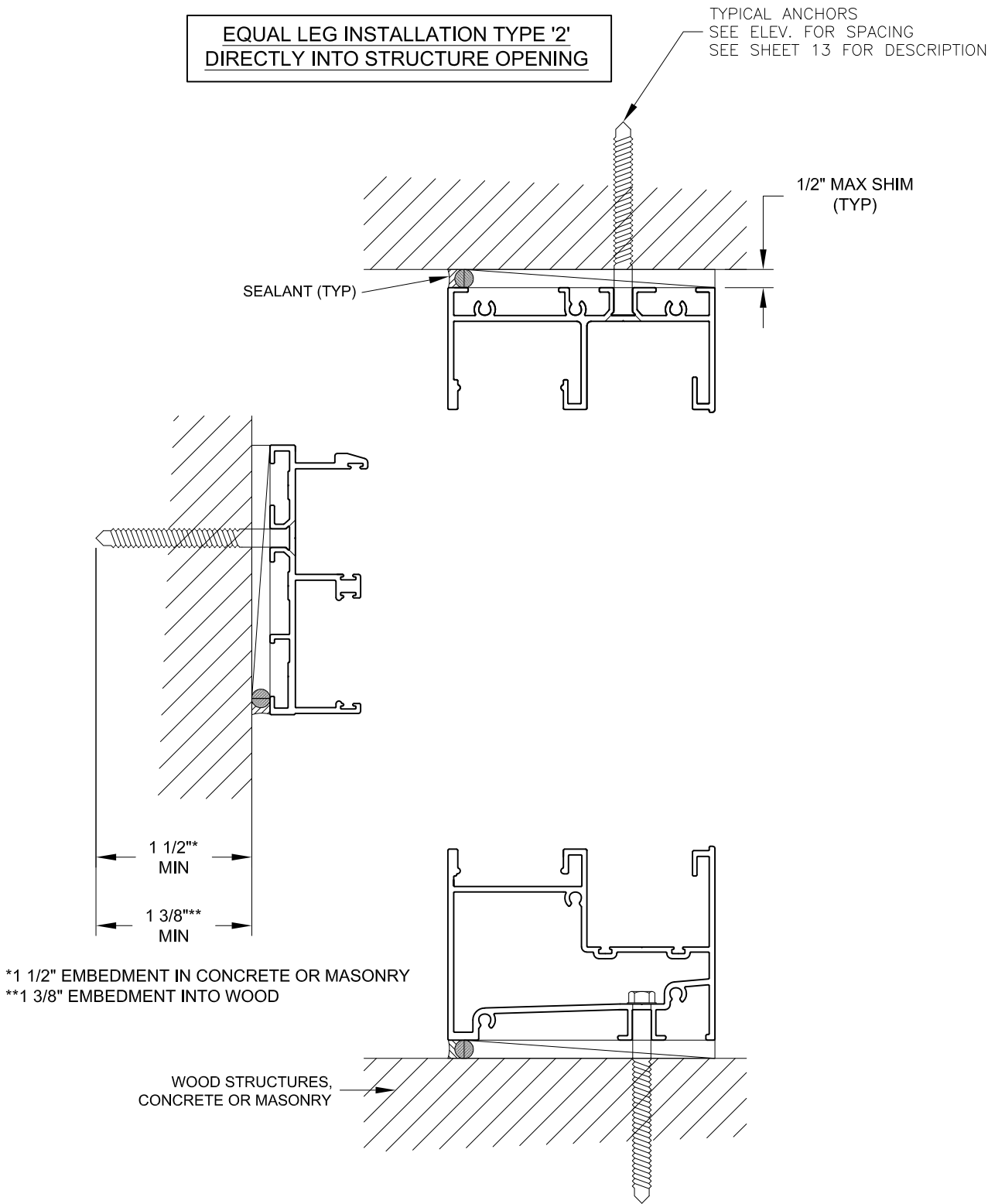


INSTALLATION CONDITIONS EQUAL LEG FRAME

EQUAL LEG INSTALLATION TYPE '1'
THRU 1 OR 2 BY WOOD BUCK

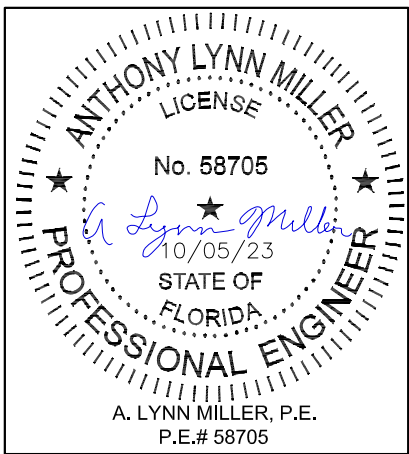


EQUAL LEG INSTALLATION TYPE '2'
DIRECTLY INTO STRUCTURE OPENING



WOOD BUCKS NOT BY WINDOOR CORP., MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

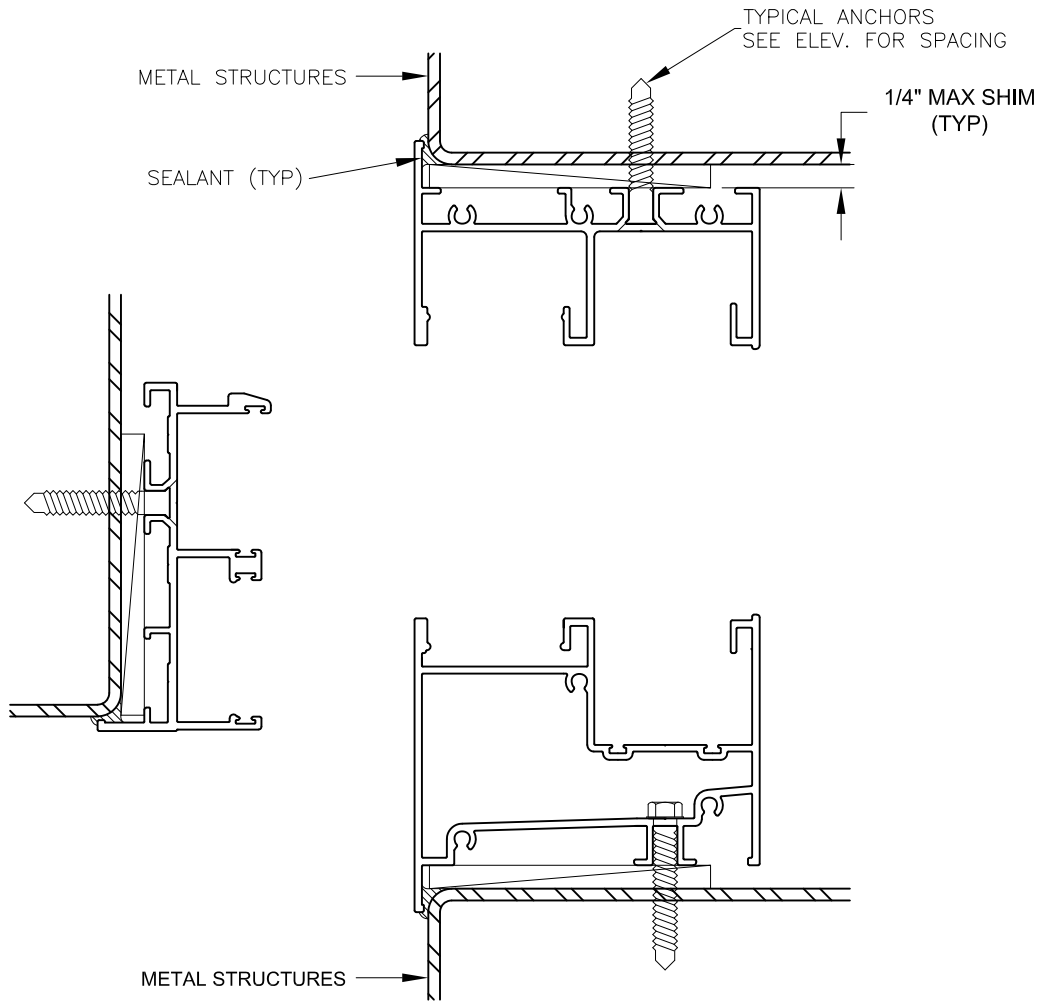
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296 COPYRIGHT © 2023 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.		1/18/23	
WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		SERIES "375" ALUM. HORIZONTAL ROLLER RWDW (LMI)		A. MORLESIN	
EQUAL LEG INSTALLATION		14 OF 21		HR375LMI-FPA	
HR375		Sheet		No.	
DESC.		Title		By	



Rev.	10/05/23	A
Date		
NO CHANGES, THIS SHEET. S.B.		

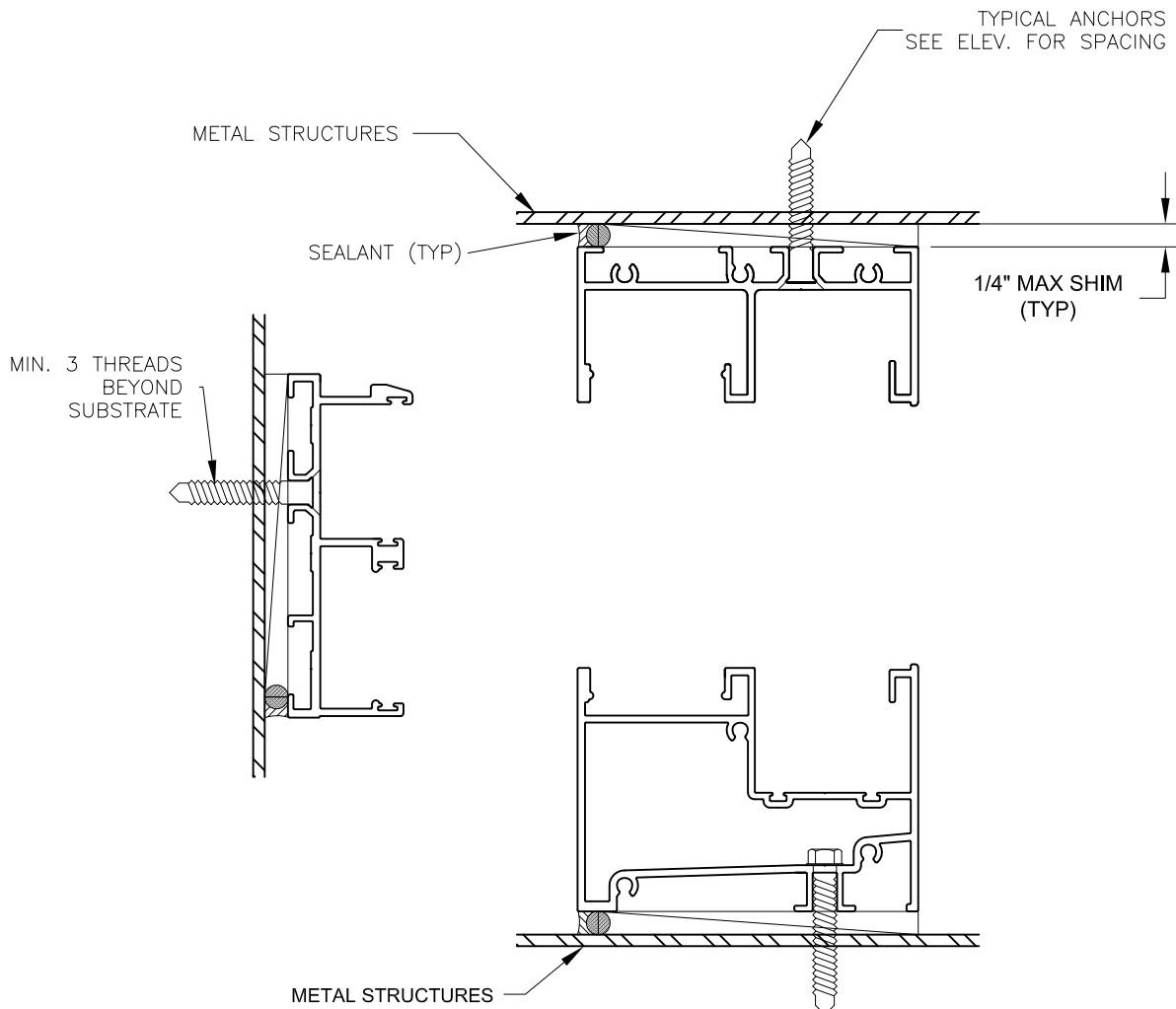
INSTALLATION CONDITIONS METAL STRUCTURES

FLANGE FRAME INSTALLATION



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

EQUAL LEG FRAME INSTALLATION



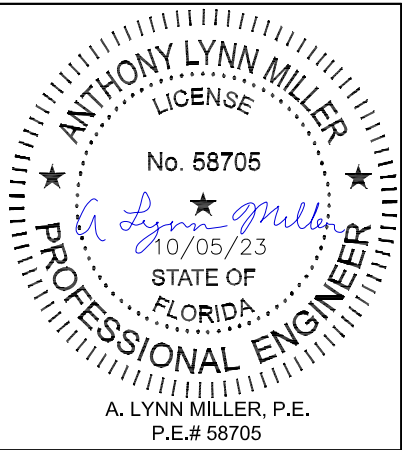
Anchor Type	Substrate	Frame Members	Min. Edge Distance	Min. Embedment or Metal Thickness
1/4" DIA. Hilti Kwik-con II	Southern Pine (SG = 0.55)	All	1"	1-1/2"
	Thru 1BY Buck into Concrete/Masonry	Jambs	2-1/2"	1-1/4"
	Thru 1BY Buck into Concrete	Head/Sill	2-1/2"	1-1/4"
	Concrete/Masonry	Jambs	2-1/2"	1-1/2"
	Concrete (min. 3.0 ksi)	Head/Sill	2-1/2"	1-1/2"
1/4" DIA. TEKS or Self Drilling Screws	Mullion FPA approved	All	3/4"	(3) Threads min. to extended beyond metal thickness
	Steel Stud, 12 GA	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
1/4" DIA. Ultracon +	Southern Pine (SG = 0.55)	All	1"	1-3/8"
	Thru 1BY Buck into Concrete/Masonry	Jambs	2-1/2"	1-1/4"
	Thru 1BY Buck into Concrete	Head/Sill	2-1/2"	1"
	Concrete/Masonry	Jambs	2-1/2"	1-1/4"
	Concrete	Head/Sill	2-1/2"	1"

MATERIAL PROPERTIES:

Material	Min. F _y	Min. F _u
1/4" Teks or Self-Drilling Steel Screw, Gr 5	92 ksi	120 ksi
1/4" Hilti Kwik-Con II	157 ksi	163 ksi
1/4" Elco UltraCon	155 ksi	177 ksi
1/4" DeWalt UltraCon+	148 ksi	164 ksi
6063-T5 Aluminum	16 ksi	22 ksi
A36 Steel	36 ksi	58 ksi
Gr. 33 Steel Stud	33 ksi	45 ksi

JAMB ANCHOR SPACING
20" MAX. FOR SHIMS UP TO 1/4".
10" MAX. FOR SHIMS GREATER THAN 1/4" TO 1/2".

Windo[®]or INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296 COPYRIGHT © 2023 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	
	SERIES "375" ALUM. HORIZONTAL ROLLER RWDW (LMI)		1/18/23	
INSTALLATION IN TO METALS		By	A. MORLESIN	
Sheet		No.	15 OF 21	
HR375		DWG	HR375LMI-FPA	

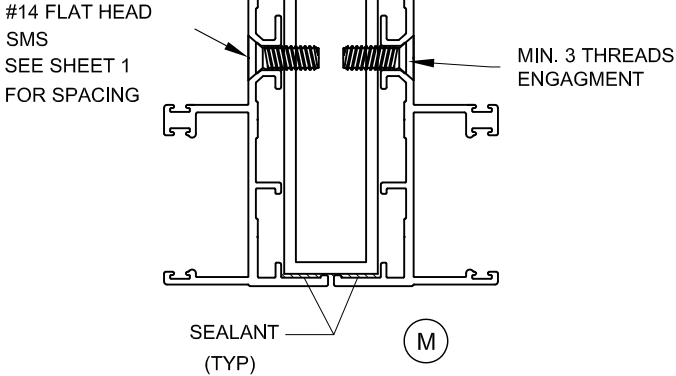


Rev.	NO CHANGES, THIS SHEET. S.B.	Date	10/05/23	Rev. #	A
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MULLION PERFORMANCE

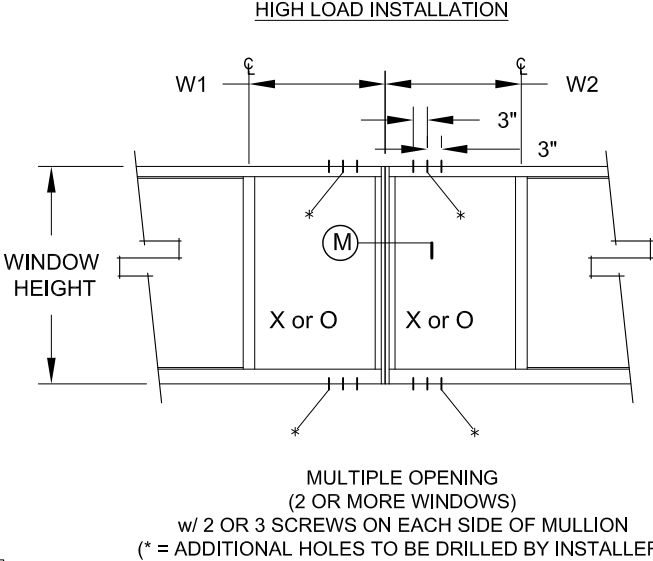
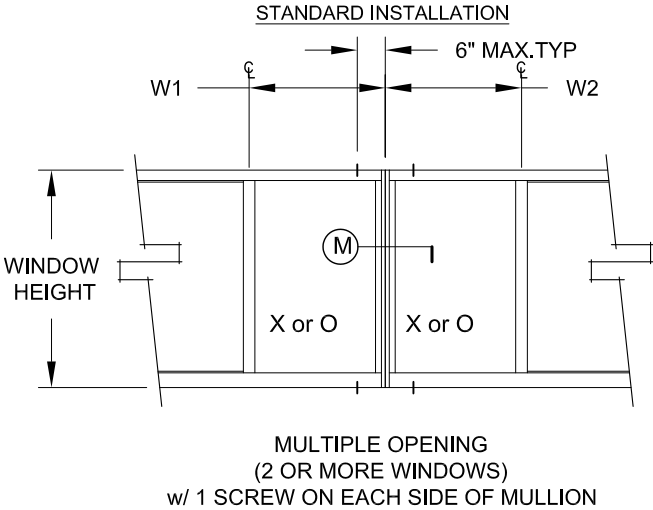
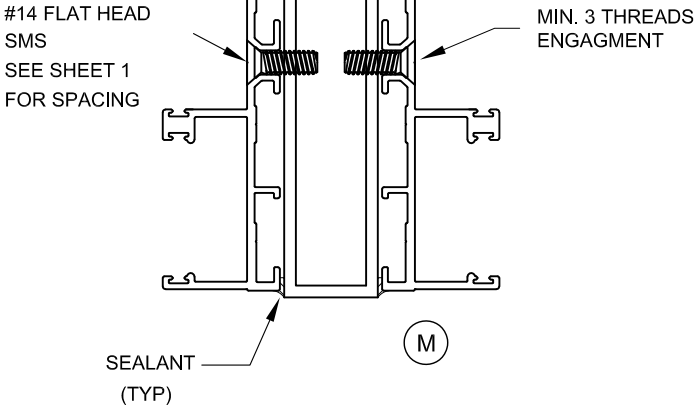
MULLION AT FLANGE WINDOWS

1" x 4" x 1/8" THK. ALUMINUM
TUBE MULLION (6063-T6)
(UNCLIPPED AT ENDS)
(MULL LENGTH = WDW HEIGHT - 1")



MULLION AT FLANGE WINDOWS

1" x 4" x 1/8" THK. ALUMINUM
TUBE MULLION (6063-T6)
(UNCLIPPED AT ENDS)
(MULL LENGTH = WDW HEIGHT - 1")



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

MULLION DESIGN LOAD CAPACITY - PSF		
TRIBUTARY WIDTH	WINDOW HEIGHT	POS.(+) NEG.(-)
24"	54"	150.0
28"		150.0
30"		150.0
32"		150.0
36"		120.0
39"		120.0
40"		120.0
42"		120.0
44"		120.0
46"		120.0
48"		120.0
52"		120.0
24"	60"	150.0
28"		150.0
30"		150.0
32"		120.0
36"		120.0
39"		120.0
40"		120.0
42"		120.0
44"		120.0
46"		120.0
24"	66"	150.0
28"		120.0
30"		120.0
32"		120.0
36"		120.0
39"		120.0
40"		120.0
42"		120.0

MULLION DESIGN LOAD CAPACITY - PSF		
TRIBUTARY WIDTH	WINDOW HEIGHT	POS.(+) NEG.(-)
24"	72"	150.0
28"		120.0
30"		120.0
32"		120.0
36"		120.0
39"		120.0
24"		120.0
28"	76"	120.0
30"		120.0
32"		120.0
36"		120.0
37"		120.0
37"		120.0

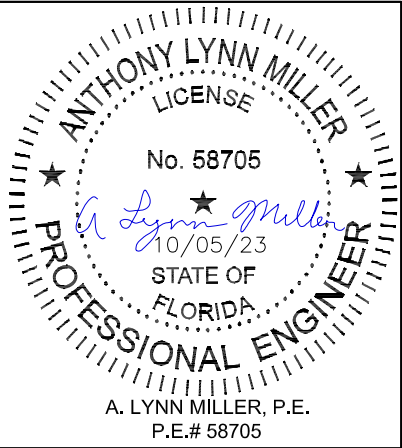
MULLION DESIGN LOAD CAPACITY - PSF		
TRIBUTARY WIDTH	WINDOW HEIGHT	POS.(+) NEG.(-)
18"	38-3/8"	150.0
26-1/2"		150.0
37"		150.0
44"		150.0
56"		120.0
71"		120.0
18"		120.0
26-1/2"	50-5/8"	150.0
37"		120.0
44"		120.0
55"		120.0
18"		120.0
26-1/2"	63"	150.0
37"		120.0
44"		120.0
18"		120.0
26-1/2"	72"	150.0
37"		120.0
39"		120.0
18"		120.0
26-1/2"	76"	150.0
37"		120.0

NOTE:
VALUES FROM CHARTS MAY
BE INTERPOLATED BETWEEN SIZES

ALL VALUES SHOWN ARE DESIGN PSF
VALUES FOR POS.(+) LOADS SHOWN ARE FOR
SILL WITH WATERBAR ADAPTER.
FOR WINDOWS WITHOUT WATERBAR ADAPTER
LIMIT POS. (+) LOADS TO 65.0 PSF

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

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WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		SERIES "375" ALUM. HORIZONTAL ROLLER WDW (LMI)		A. MORLESIN	
MULLION DP 1		HR375		HR375LMI-FPA	



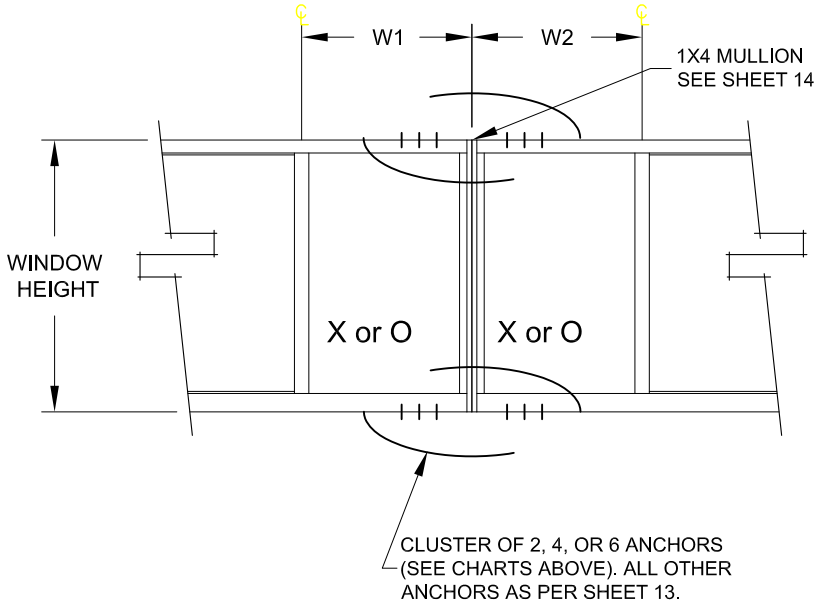
Rev. #	10/05/23	Date	UPDATE DP WITHOUT WATERBAR ADAPTER. S.B.	Rev.
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PERFORMANCE VALUES OF UNCLIPPED MULLION ANCHORS POS.(+) & NEG.(-)										
		1/4" SHIM SPACE			3/8" SHIM SPACE			1/2" SHIM SPACE		
TRIBUTARY WIDTH	WINDOW HEIGHT	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6
24"	54"	107.6	150.0	150.0	89.3	150.0	150.0	69.3	138.7	150.0
28"		92.2	150.0	150.0	76.6	150.0	150.0	59.4	118.9	150.0
30"		86.0	150.0	150.0	71.5	142.9	150.0	55.5	110.9	150.0
32"		80.7	150.0	150.0	67.0	134.0	150.0	52.0	104.0	150.0
36"		71.7	143.4	150.0	59.6	119.1	150.0	46.2	92.4	138.7
48"		53.8	107.6	150.0	44.7	89.3	134.0	34.7	69.3	104.0
52"		49.6	99.3	148.9	41.2	82.5	123.7	32.0	64.0	96.0
24"	60"	96.8	150.0	150.0	80.4	150.0	150.0	62.4	124.8	150.0
28"		83.0	150.0	150.0	68.9	137.8	150.0	53.5	107.0	150.0
30"		77.4	150.0	150.0	64.3	128.6	150.0	49.1	99.8	149.8
32"		72.6	145.2	150.0	60.3	120.6	150.0	46.8	93.6	140.4
36"		64.5	129.1	150.0	53.6	107.2	150.0	41.6	83.2	124.8
48"		58.1	116.2	150.0	48.2	96.5	144.7	37.4	74.9	112.3
52"		52.8	105.6	150.0	43.9	87.7	131.6	34.0	68.1	102.1
24"	66"	88.0	150.0	150.0	73.1	146.2	150.0	56.7	113.5	150.0
28"		75.4	150.0	150.0	62.6	125.3	150.0	48.6	97.2	145.9
30"		70.4	140.8	150.0	58.5	116.9	150.0	45.4	90.8	136.1
32"		66.0	132.0	150.0	54.8	109.6	150.0	42.5	85.1	127.6
36"		58.7	117.3	150.0	48.7	97.5	146.2	37.8	75.6	113.5
48"		52.8	105.6	150.0	43.9	87.7	131.6	34.0	68.1	102.1
24"	72"	80.7	150.0	150.0	67.0	134.0	150.0	52.0	104.0	150.0
28"		69.1	138.3	150.0	57.4	114.9	150.0	44.6	89.1	133.7
30"		64.5	129.1	150.0	53.6	107.2	150.0	41.6	83.2	124.8
32"		60.5	121.0	150.0	50.3	100.5	150.0	39.0	78.0	117.0
36"		53.8	107.6	150.0	44.7	89.3	134.0	34.7	69.3	104.0
24"	76"	76.4	150.0	150.0	63.5	126.9	150.0	49.3	98.5	147.8
28"		65.5	131.0	150.0	54.4	108.8	150.0	42.2	84.5	126.7
30"		61.1	122.3	150.0	50.8	101.6	150.0	39.4	78.8	118.2
32"		57.3	114.6	150.0	47.6	95.2	142.8	36.8	73.9	110.8
36"		50.9	101.9	150.0	42.3	84.6	126.9	32.8	65.7	98.5

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

PERFORMANCE VALUES OF UNCLIPPED MULLION ANCHORS POS.(+) & NEG.(-)										
		1/4" SHIM SPACE			3/8" SHIM SPACE			1/2" SHIM SPACE		
TRIBUTARY WIDTH	WINDOW HEIGHT	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6
18"	38-3/8"	150.0	150.0	150.0	150.0	150.0	150.0	130.1	150.0	150.0
26-1/2"		137.1	150.0	150.0	113.8	150.0	150.0	88.4	150.0	150.0
37"		98.2	150.0	150.0	81.5	150.0	150.0	63.3	126.6	150.0
44"		82.6	150.0	150.0	68.6	137.1	150.0	53.2	106.4	150.0
56"		64.9	129.7	150.0	53.9	107.7	150.0	41.8	83.6	125.4
71"		51.2	102.3	150.0	42.5	85.0	127.5	33.0	66.0	98.9
18"	50-5/8"	150.0	150.0	150.0	127.1	150.0	150.0	98.6	150.0	150.0
26-1/2"		103.9	150.0	150.0	86.3	150.0	150.0	67.0	134.0	150.0
37"		74.4	148.8	150.0	61.8	123.6	150.0	48.0	95.9	143.9
44"		62.6	125.2	150.0	52.0	104.0	150.0	40.3	80.7	121.0
18"	63"	122.9	150.0	150.0	102.1	150.0	150.0	79.2	150.0	150.0
26-1/2"		83.5	150.0	150.0	69.3	138.7	150.0	53.8	107.6	150.0
37"		59.8	119.6	150.0	49.7	99.3	149.0	38.5	77.1	115.6
44"		50.3	100.6	150.0	41.8	83.5	125.3	32.4	64.8	97.2
18"	72"	107.6	150.0	150.0	89.3	150.0	150.0	69.3	138.7	150.0
26-1/2"		73.1	146.1	150.0	60.7	121.4	150.0	47.1	94.2	141.3
37"		52.3	104.6	150.0	43.5	86.9	130.4	33.7	67.5	101.2
18"	76"	101.9	150.0	150.0	84.6	150.0	150.0	65.7	131.4	150.0
26-1/2"		69.2	138.4	150.0	57.5	115.0	150.0	44.6	89.2	133.8
37"		49.6	99.1	148.7	41.2	82.3	123.5	32.0	63.9	95.9

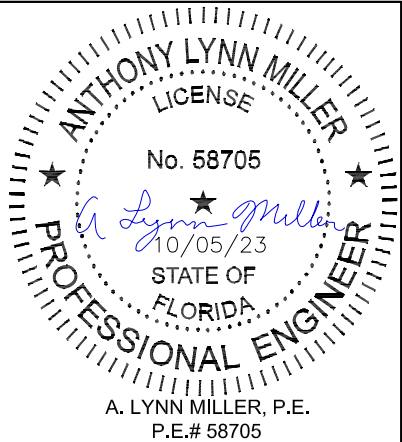
TRIBUTARY WIDTH = $\frac{W1 + W2}{2}$



NOTE:
VALUES FROM CHARTS MAY
BE INTERPOLATED BETWEEN SIZES

ALL VALUES SHOWN ARE DESIGN PSF
VALUES FOR POS.(+) LOADS SHOWN ARE FOR
SILL WITH WATERBAR ADAPTER.
FOR WINDOWS WITHOUT WATERBAR ADAPTER
LIMIT POS.(+) LOADS TO 65.0 PSF

MULLION ANCHORS
ADJACENT TO MULLIONS AT HEAD & SILL
ALL OTHER WINDOW ANCHORS
AS PER SHEETS 11 THRU 14



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WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		SERIES "375" ALUM. HORIZONTAL ROLLER WDW (LMI)		A. MORLESIN	
MULLION DP 2		HR375		HR375LMI-FPA	
17 OF 21		Sheet		DWG	
No.		17 OF 21		17 OF 21	

PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS POS.(+) & NEG.(-)					
WINDOW DIMS.		ANCHORS AT 16" O.C.		ANCHORS AT 8" O.C.	
WIDTH	HEIGHT	WOOD/BLOCK	CONC.	WOOD/BLOCK	CONC.
36"	36"	150.0	150.0	150.0	150.0
48"		150.0	150.0	150.0	150.0
56"		124.6	150.0	150.0	150.0
60"		112.8	150.0	150.0	150.0
64"		128.7	150.0	150.0	150.0
72"		109.6	150.0	150.0	150.0
80"		114.6	150.0	150.0	150.0
84"		107.6	150.0	150.0	150.0
88"		101.5	144.0	150.0	150.0
96"		106.3	150.0	150.0	150.0
108"		92.1	130.7	150.0	150.0
112"		100.8	143.0	150.0	150.0
117"		95.7	135.8	150.0	150.0
126"		98.7	140.0	150.0	150.0
144"		94.0	133.3	150.0	150.0
36"	48"	150.0	150.0	150.0	150.0
48"		148.0	150.0	150.0	150.0
56"		111.0	150.0	150.0	150.0
60"		98.7	140.0	150.0	150.0
64"		111.0	150.0	150.0	150.0
72"		92.5	131.3	150.0	150.0
80"		95.1	135.0	150.0	150.0
84"		88.8	126.0	148.0	150.0
88"		83.3	118.1	150.0	150.0
96"		86.3	122.5	148.0	150.0
108"		74.0	105.0	137.4	150.0
112"		80.7	114.5	141.3	150.0
117"		76.4	108.4	143.2	150.0
126"		78.4	111.2	139.3	150.0
144"		74.0	105.0	133.2	150.0
36"	54"	131.6	150.0	150.0	150.0
48"		118.4	150.0	150.0	150.0
56"		108.9	150.0	150.0	150.0
60"		95.7	135.8	150.0	150.0
64"		106.7	150.0	150.0	150.0
72"		87.7	124.4	150.0	150.0
80"		89.4	126.8	148.9	150.0
84"		83.1	117.9	138.5	150.0
88"		77.6	110.2	142.3	150.0
96"		80.1	113.6	137.3	150.0
108"		68.2	96.8	126.7	150.0
112"		74.3	105.4	130.0	150.0
117"		70.2	99.6	131.6	150.0
126"		71.8	101.8	127.6	150.0
144"		67.5	95.7	121.4	150.0
36"	60"	112.8	150.0	150.0	150.0
48"		98.7	140.0	150.0	150.0
56"		95.1	135.0	150.0	150.0
60"		94.7	134.4	150.0	150.0
64"		94.7	134.4	150.0	150.0
72"		84.6	120.0	150.0	150.0
80"		85.2	121.0	142.1	150.0
84"		78.9	112.0	131.6	150.0
88"		73.5	104.3	134.7	150.0
96"		75.3	106.9	129.2	150.0
108"		63.8	90.5	118.4	150.0
112"		69.3	98.3	121.3	150.0
117"		65.3	92.7	122.5	150.0
126"		66.6	94.5	118.4	150.0

PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS POS.(+) & NEG.(-)					
WINDOW DIMS.		ANCHORS AT 16" O.C.		ANCHORS AT 8" O.C.	
WIDTH	HEIGHT	WOOD/BLOCK	CONC.	WOOD/BLOCK	CONC.
36"	66"	123.3	150.0	150.0	150.0
48"		105.7	150.0	150.0	150.0
56"		100.2	142.1	150.0	150.0
60"		94.7	134.4	150.0	150.0
64"		97.9	139.0	150.0	150.0
72"		82.8	117.5	149.0	150.0
80"		82.4	117.0	137.4	150.0
84"		76.0	107.8	126.6	150.0
88"		70.5	100.0	129.2	150.0
96"		71.8	101.8	123.0	150.0
108"		60.3	85.5	111.9	150.0
112"		65.4	92.8	114.4	150.0
117"		61.5	87.3	115.3	150.0
126"		62.5	88.7	111.1	150.0
36"	72"	109.6	150.0	150.0	150.0
48"		92.5	131.3	150.0	150.0
56"		86.5	122.7	150.0	150.0
60"		84.6	120.0	150.0	150.0
64"		83.2	118.1	149.8	150.0
72"		82.2	116.7	148.0	150.0
80"		80.7	114.5	134.5	150.0
84"		74.0	105.0	123.3	150.0
88"		68.3	96.9	125.2	150.0
96"		69.1	98.0	118.4	150.0
108"		57.6	81.7	106.9	150.0
112"		62.3	88.4	109.1	150.0
117"		58.5	83.0	109.6	150.0
36"	76"	102.1	144.8	150.0	150.0
48"		85.4	121.2	150.0	150.0
56"		79.3	112.5	142.7	150.0
60"		77.2	109.6	139.0	150.0
64"		75.7	107.4	136.2	150.0
72"		74.0	105.0	133.2	150.0
80"		73.8	104.7	132.8	150.0
84"		73.2	103.8	121.9	150.0
88"		67.3	95.5	123.4	150.0
96"		67.7	96.0	116.0	150.0
108"		56.1	79.6	104.2	147.8

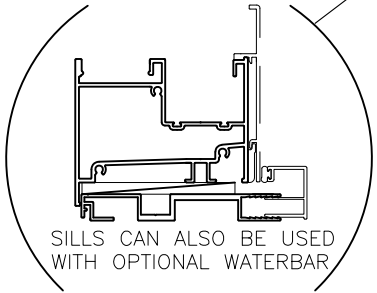
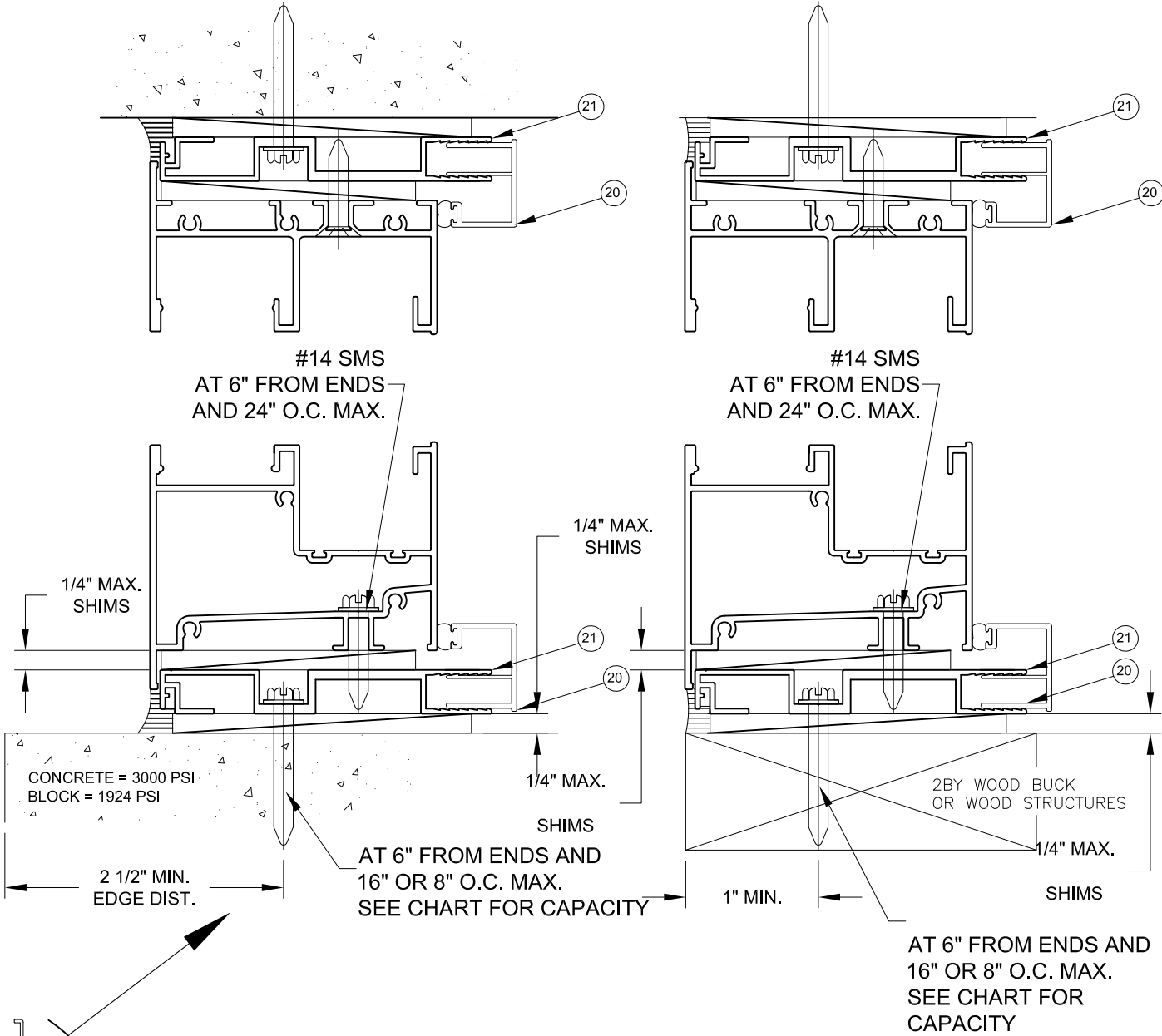
NOTE:
VALUES FROM CHARTS MAY
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ALL VALUES SHOWN ARE DESIGN PSF
VALUES FOR POS.(+) LOADS SHOWN ARE FOR
SILL WITH WATERBAR ADAPTER.
FOR WINDOWS WITHOUT WATERBAR ADAPTER
LIMIT POS.(+) LOADS TO 65.0 PSF

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

ALUMINUM BUCK FRAMING DETAILS

REFER TO SHEETS 5 & 8 FOR WINDOW CAPACITIES
USE LOWER APPLICABLE VALUES.



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

WINDOOR[®]

INCORPORATED

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

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

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SERIES "375" ALUM. HORIZONTAL ROLLER WDW
(LMI)

1/18/23

ALUMINUM BUCK DP 1

A. MORLESIN

HR375

18 OF 21

HR375LMI-FPA

ANTHONY LYNN MILLER

LICENSE

No. 58705

10/05/23

STATE OF FLORIDA

PROFESSIONAL ENGINEER

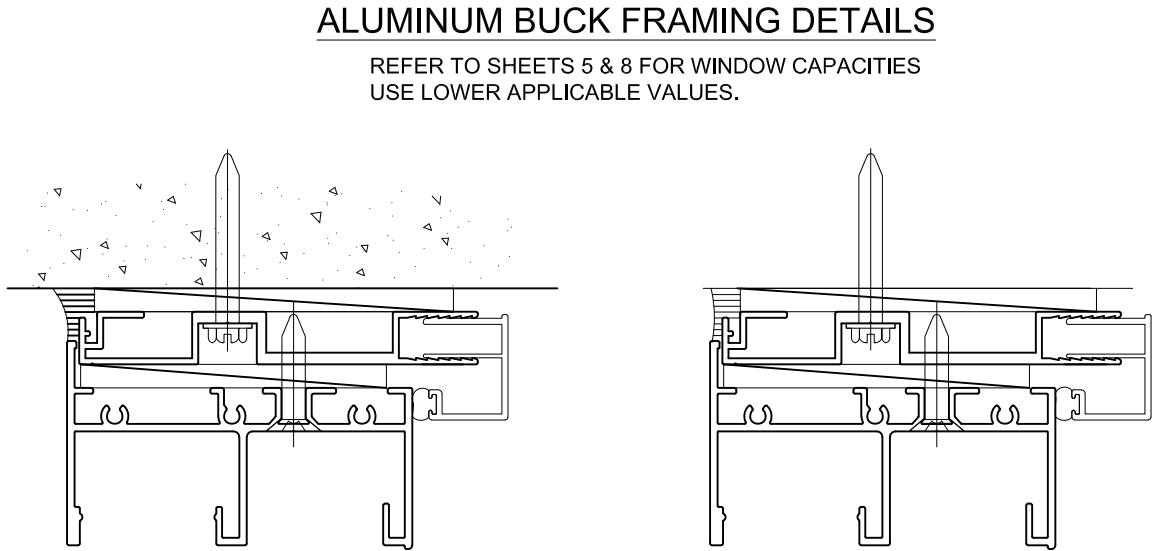
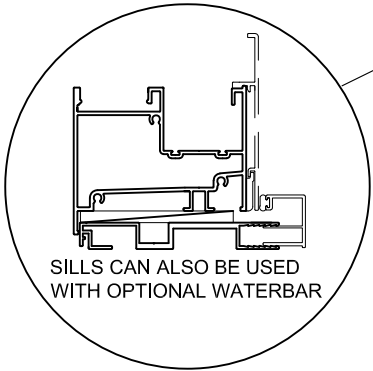
A. LYNN MILLER, P.E.
P.E.# 58705

PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS POS.(+) & NEG.(-)					
WINDOW DIMS.		ANCHORS AT 16" O.C.		ANCHORS AT 8" O.C.	
WIDTH	HEIGHT	WOOD/BLOCK	CONC.	WOOD/BLOCK	CONC.
26-1/2"	38-3/8"	150.0	150.0	150.0	150.0
53-1/8"		130.9	150.0	150.0	150.0
79-11/16"		110.2	150.0	150.0	150.0
106-1/4"		89.3	126.7	150.0	150.0
111"		96.8	137.3	150.0	150.0
119-1/4"		88.8	126.0	150.0	150.0
159-3/8"	50-5/8"	87.2	123.7	150.0	150.0
26-1/2"		150.0	150.0	150.0	150.0
53-1/8"		121.1	150.0	150.0	150.0
79-11/16"		92.9	131.8	150.0	150.0
106-1/4"		72.8	103.3	135.2	150.0
111"		78.6	111.5	137.6	150.0
119-1/4"		71.7	101.7	134.4	150.0
159-3/8"	63"	69.1	98.0	125.6	150.0
26-1/2"		150.0	150.0	150.0	150.0
53-1/8"		110.1	150.0	150.0	150.0
79-11/16"		84.2	119.5	140.4	150.0
106-1/4"		63.4	89.9	117.7	150.0
111"		68.1	96.6	119.1	150.0
119-1/4"		61.7	87.5	115.7	150.0
26-1/2"	72"	136.9	150.0	150.0	150.0
53-1/8"		88.3	125.3	150.0	150.0
79-11/16"		81.3	115.4	135.5	150.0
106-1/4"		59.0	83.7	109.6	150.0
111"		63.1	89.6	110.5	150.0
26-1/2"	76"	128.2	150.0	150.0	150.0
53-1/8"		81.1	115.1	146.1	150.0
79-11/16"		73.8	104.7	132.8	150.0
106-1/4"		57.5	81.6	106.8	150.0
111"		61.5	87.2	107.6	150.0

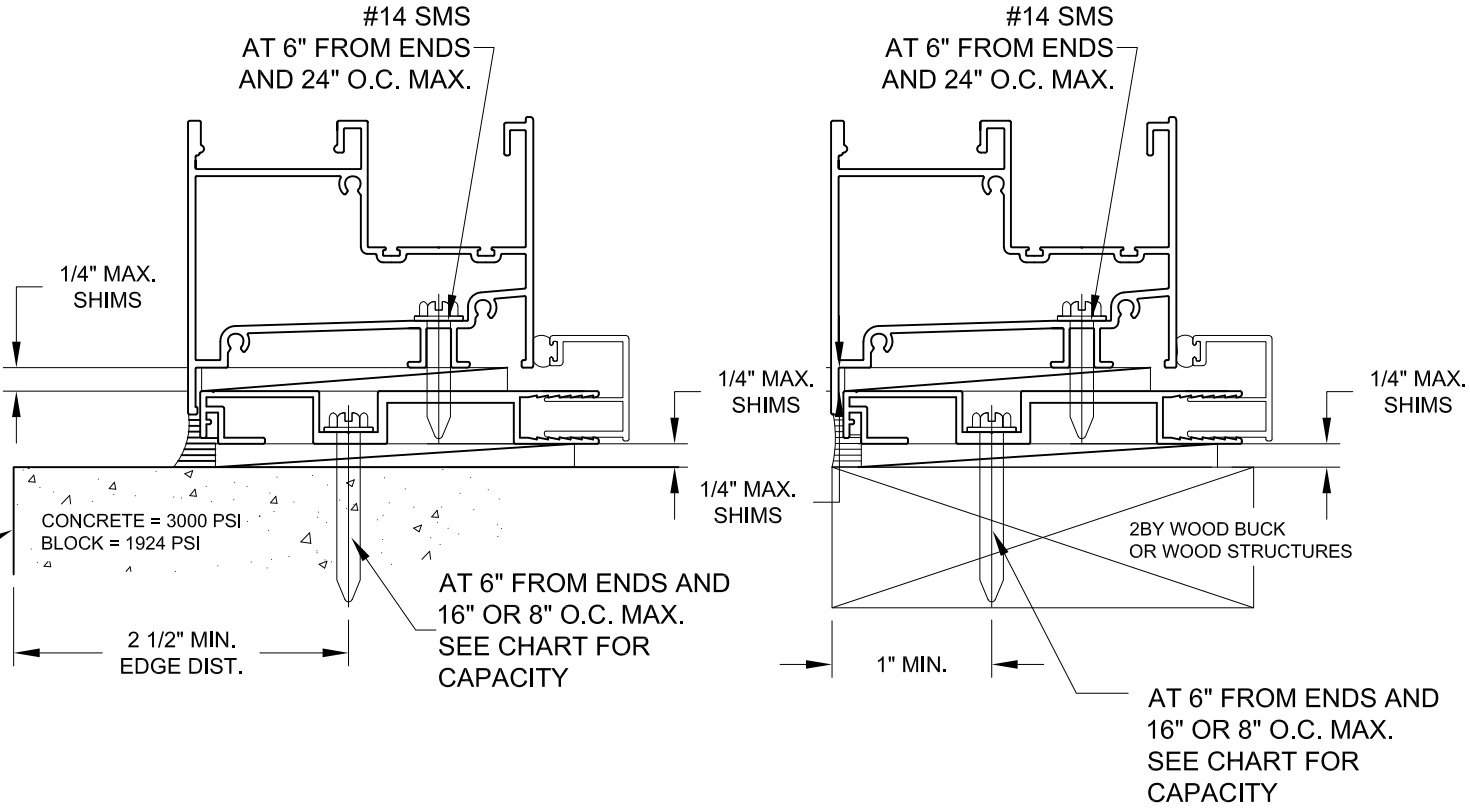
ALL VALUES SHOWN ARE DESIGN PSF (POUNDS PER SQUARE FOOT)

NOTE:
VALUES FROM CHARTS MAY
BE INTERPOLATED BETWEEN SIZES

ALL VALUES SHOWN ARE DESIGN PSF
VALUES FOR EXT.(+) LOADS SHOWN ARE FOR
SILL WITH WATERBAR ADAPTER.
FOR WINDOWS WITHOUT WATERBAR ADAPTER
LIMIT EXT.(+) LOADS TO 65.0 PSF

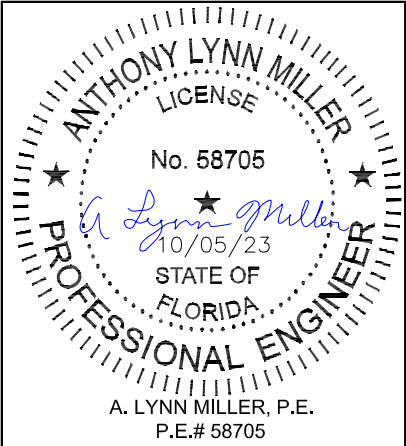


REFER TO SHEETS 5 & 8 FOR WINDOW CAPACITIES
USE LOWER APPLICABLE VALUES.



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

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WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		SERIES "375" ALUM. HORIZONTAL ROLLER WDW (LMI)		A. MORLESIN	
ALUMINUM BUCK DP 2		19 OF 21		HR375LMI-FPA	
HR375		Sheet		No. DWG	



Rev. #	10/05/23	A
Date		
Rev.	UPDATE DP WITHOUT WATERBAR ADAPTER. S.B.	

PERFORMANCE VALUES OF ALUMINUM BUCK ANCHORS AT MULLION JOINTS POS.(+) & NEG.(-)							
TRIBUTARY WIDTH	WINDOW HEIGHT	ANCHORS INTO WOOD OR HOLLOW BLOCK			ANCHORS INTO CONCRETE		
		CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6
24"	54"	65.8	131.6	150.0	93.3	150.0	150.0
28"		56.4	112.8	150.0	80.0	150.0	150.0
32"		49.3	98.7	148.0	70.0	140.0	150.0
36"		43.9	87.7	131.6	62.2	124.4	150.0
39"		40.5	81.0	121.4	57.4	114.9	150.0
40"		39.5	78.9	118.4	56.0	112.0	150.0
42"		37.6	75.2	112.8	53.3	106.7	150.0
44"		35.9	71.8	107.6	50.9	101.8	150.0
46"		34.3	68.6	103.0	48.7	97.4	146.1
48"		32.9	65.8	98.7	46.7	93.3	140.0
52"		30.4	60.7	91.1	43.1	86.2	129.2
24"	60"	59.2	118.4	150.0	84.0	150.0	150.0
28"		50.7	101.5	150.0	72.0	144.0	150.0
32"		44.4	88.8	133.2	63.0	126.0	150.0
36"		39.5	78.9	118.4	56.0	112.0	150.0
39"		36.4	72.9	109.3	51.7	103.4	150.0
40"		35.5	71.0	106.6	50.4	100.8	150.0
42"		33.8	67.7	101.5	48.0	96.0	144.0
44"		32.3	64.6	96.9	45.8	91.6	137.5
46"		30.9	61.8	92.7	43.8	87.7	131.5
24"	66"	53.8	107.6	150.0	76.4	150.0	150.0
28"		46.1	92.3	138.4	65.5	130.9	150.0
32"		40.4	80.7	121.1	57.3	114.5	150.0
36"		35.9	71.8	107.6	50.9	101.8	150.0
39"		33.1	66.2	99.4	47.0	94.0	141.0
40"		32.3	64.6	96.9	45.8	91.6	137.5
42"		30.8	61.5	92.3	43.6	87.3	130.9
24"	72"	49.3	98.7	148.0	70.0	140.0	150.0
28"		42.3	84.6	126.9	60.0	120.0	150.0
32"		37.0	74.0	111.0	52.5	105.0	150.0
36"		32.9	65.8	98.7	46.7	93.3	140.0
39"		30.4	60.7	91.1	43.1	86.2	129.2
24"	76"	46.7	93.5	140.2	66.3	132.6	150.0
28"		40.1	80.1	120.2	56.8	113.7	150.0
32"		35.1	70.1	105.2	49.7	99.5	149.2
36"		31.2	62.3	93.5	44.2	88.4	132.6

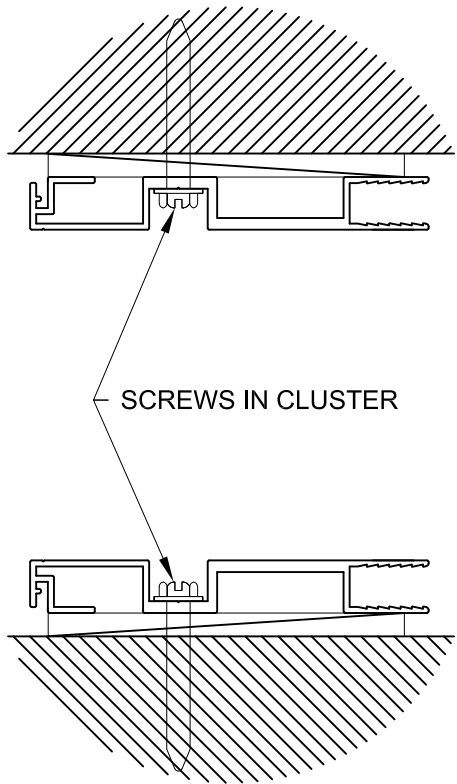
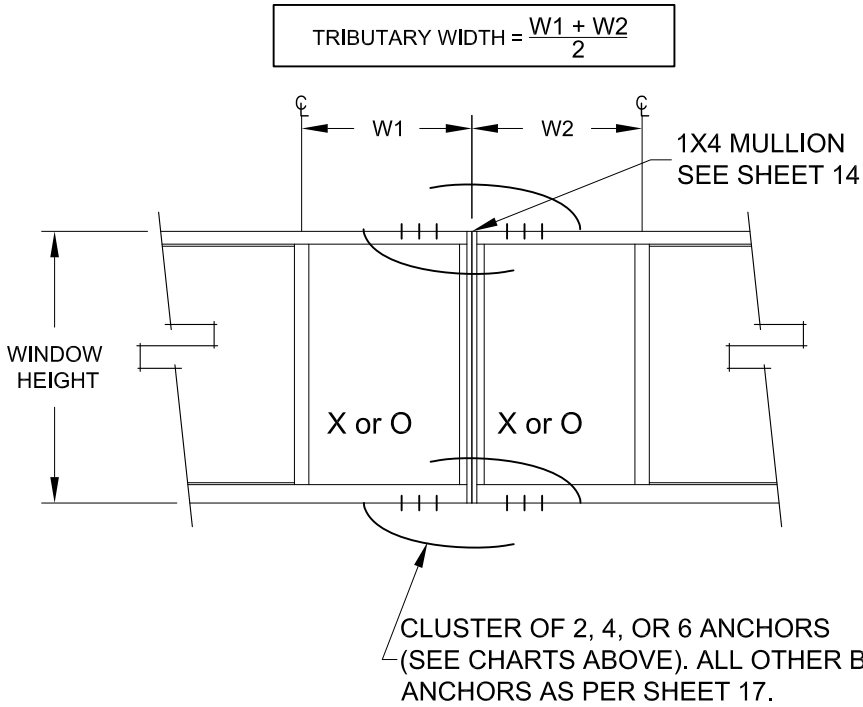
ALL VALUES SHOWN ARE DESIGN PSF (POUNDS PER SQUARE FOOT)

NOTE:
ALUMINUM BUCKS ARE SUPPLIED WITH
CLUSTER OF 2 (1 SCREW HOLE PER SIDE) STANDARD.
EXTRA HOLES MUST BE FIELD DRILLED IF REQUIRED.

ALL VALUES SHOWN ARE DESIGN PSF
VALUES FOR POS.(+) LOADS SHOWN ARE FOR
SILL WITH WATERBAR ADAPTER.
FOR WINDOWS WITHOUT WATERBAR ADAPTER
LIMIT POS.(+) LOADS TO 65.0 PSF

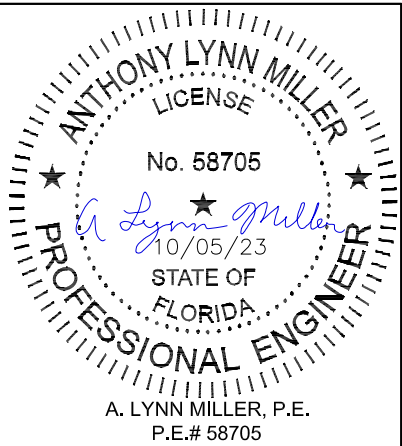
VALUES FROM CHARTS MAY
BE INTERPOLATED BETWEEN SIZES

PERFORMANCE VALUES OF ALUMINUM BUCK ANCHORS AT MULLION JOINTS POS.(+) & NEG.(-)							
TRIBUTARY WIDTH	WINDOW HEIGHT	ANCHORS INTO WOOD OR HOLLOW BLOCK			ANCHORS INTO CONCRETE		
		CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6
18"	38-3/8"	123.4	150.0	150.0	150.0	150.0	150.0
26-1/2'		83.8	150.0	150.0	118.9	150.0	150.0
37"		60.0	120.1	150.0	85.2	150.0	150.0
44"		50.5	101.0	150.0	71.6	143.3	150.0
56"		39.7	79.3	119.0	56.3	112.6	150.0
71"		31.3	62.6	93.9	44.4	88.8	150.0
18"	50-5/8"	93.6	150.0	150.0	132.7	150.0	150.0
26-1/2'		63.5	127.1	150.0	90.2	150.0	150.0
37"		45.5	91.0	136.5	64.6	129.2	150.0
44"		38.3	76.5	114.8	54.3	108.6	150.0
18"	63"	75.2	150.0	150.0	106.7	150.0	150.0
26-1/2'		51.1	102.1	150.0	72.5	144.9	150.0
37"		36.6	73.1	109.7	51.9	103.8	150.0
44"		30.8	61.5	92.3	43.6	87.3	130.9
18"	72"	65.8	131.6	150.0	93.3	150.0	150.0
26-1/2'		44.7	89.4	134.0	63.4	126.8	150.0
37"		32.0	64.0	96.0	45.4	90.8	136.2
18"	76"	62.3	124.6	150.0	88.4	150.0	150.0
26-1/2'		42.3	84.7	127.0	60.1	120.1	150.0
37"		30.3	60.6	90.9	43.0	86.0	129.0



ALUMINUM BUCK ANCHORS
ADJACENT TO MULLIONS AT HEAD & SILL
ALL OTHER ALUMINUM BUCK ANCHORS
AS PER SHEET 16

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WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		SERIES "375" ALUM. HORIZONTAL ROLLER WDW (LMI)		A. MORLESIN	
ALUMINUM BUCKS DP 3		20 OF 21		HR375LMI-FPA	
HR375		20 OF 21		HR375LMI-FPA	



Rev. #	10/05/23	A
Date		
Rev.	UPDATE DP WITHOUT WATERBAR ADAPTER. S.B.	

1-FLANGE FRAME HEAD

2-EQUAL LEG FRAME HEAD

8-SCREEN ADAPTOR

17-GLAZING BEAD

3-FRAME HEAD SILL

4-EQUIAL LEG FRAME SILL

16-GLAZING BEAD

18-GLAZING BEAD

5-FLANGE FRAME JAMB

6-EQUAL LEG FRAME JAMB

7-REINFORCEMENT

19-WATERBAR

9-SQUARE LOCK STILE

10-SQUARE FIXED INTERLOCK

11-SQ. OPERABLE INTERLOCK

22-SQUARE TOP/BOTTOM RAIL

12-OGEE LOCK STILE

13-OGEE FIXED INTERLOCK

14-OGEE OPERABLE INTERLOCK

15-OGEE TOP/BOTTOM RAIL

20-COVER

ITEM	PART #	DESCRIPTION	MATERIAL
1	CGI-650	FLANGE FRAME HEAD	6063-T6
2	CGI-656	EQUAL LEG FRAME HEAD	6063-T6
3	CGI-651	FRAME HEAD SILL	6063-T6
4	CGI-657	EQUAL LEG FRAME SILL	6063-T6
5	CGI-652	FLANGE FRAME JAMB	6063-T6
6	CGI-658	EQUAL LEG FRAME JAMB	6063-T6
7	CGI-655	REINFORCEMENT	6063-T6
8	CGI-654	SCREEN ADAPTOR	6063-T5
9	CGI-625	SQUARE LOCK STILE	6063-T6
10	CGI-626	SQUARE FIXED INTERLOCK	6063-T6
11	CGI-627	SQUARE OPERABLE INTERLOCK	6063-T6
12	CGI-604	OGEE LOCK STILE	6063-T6
13	CGI-605	OGEE FIXED INTERLOCK	6063-T6
14	CGI-606	OGEE OPERABLE INTERLOCK	6063-T6
15	CGI-607	OGEE TOP/BOTTOM RAIL	6063-T6
16	CGI-630	GLAZING BEAD	6063-T6
17	CGI-629	GLAZING BEAD	6063-T6
18	CGI-609	GLAZING BEAD	6063-T6
19	CGI-653	WATERBAR	6063-T5
20	-	OPTIONAL COVER	6063-T6
21	-	ALUMINUM BUCK	6063-T6
22	CGI-628	SQUARE TOP/BOTTOM RAIL	6063-T6
23	CGI-614C	TIE DOWN BLOCK W/ (2) #10 X 3/4" FH SMS INTO VENT & (3) #8 X 1" FH SMS INTO FRAME	ZINC
24	CGI-684	ROLLER TRACK INSERT	PVC
25	CGI-680	QUAD ROLLER W/ (1) #5 X 1/2" FH SMS	NYLON
26	CGI-683	WATERBAR CLIP W/ #10 X 3/4" FH SMS	NYLON
27	CGI-612P	INTERLOCK SNUBBER	PVC
28	CGI-681	VENT END CLIP ATTACHED W/ (30)	NYLON
29	CGI-685	OP. VENT BOTTOM CLIP ATTACHED W/ (30)	NYLON
30	CGI-382V	VINYL BULB	PVC
31	W2301NG	WOOL PILE WITH CENTER SOFT FIN (GRAY)	PILE
32	CGI-615C & 616C	EGRESS LOCK AND PULL W/ (2) #8 X 5/8" FH SMS	ZINC
33	CGI-682	SELF CLOSING LOCK W/ (2) #8 X 3/4" FH SMS	ZINC
34	HI-FLO WEEPER	WEEP HOLE COVER	NYLON
35	-	FRAME SCREWS #10 X 1-1/4" PH SMS	S/S
36	-	VENT SCREWS #10 X 1-1/4" PH SMS	S/S
37	GE-2000	LOW MODULUS SEALANT @ FRAME JOINT	SILICONE
38	CGI-686	ACCESS HOLE COVER (W /DRAIN PROVISION) MIN. AT 1 AT EACH SILL INSTALL. SCREW	NYLON
39	-	WATERBAR SCREWS AT 25" O.C. MAX. #8 X 1/4" PH SMS	S/S
40	-	SETTING BLOCK DUROMETER 85+5	EPDM

21-ALUM. BUCK

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
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(941) 480-1600

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

SERIES "375" ALUM. HORIZONTAL ROLLER WDW
(LMI)

ByA. MORLESIN

No.21 OF 21

SheetHR375

Series Desc.

BOM / EXTRUSIONS

HR375LMI-FPA

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/05/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

Rev.#10/05/23A

NO CHANGES, THIS SHEET. S.B.