

SERIES MG-300

ALUMINUM HORIZONTAL SLIDING WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 3.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF H.R./H.R. OR HORIZ. ROLLING WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING F.B.C. APPROVED MULLIONS IN BETWEEN.
LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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

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.

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

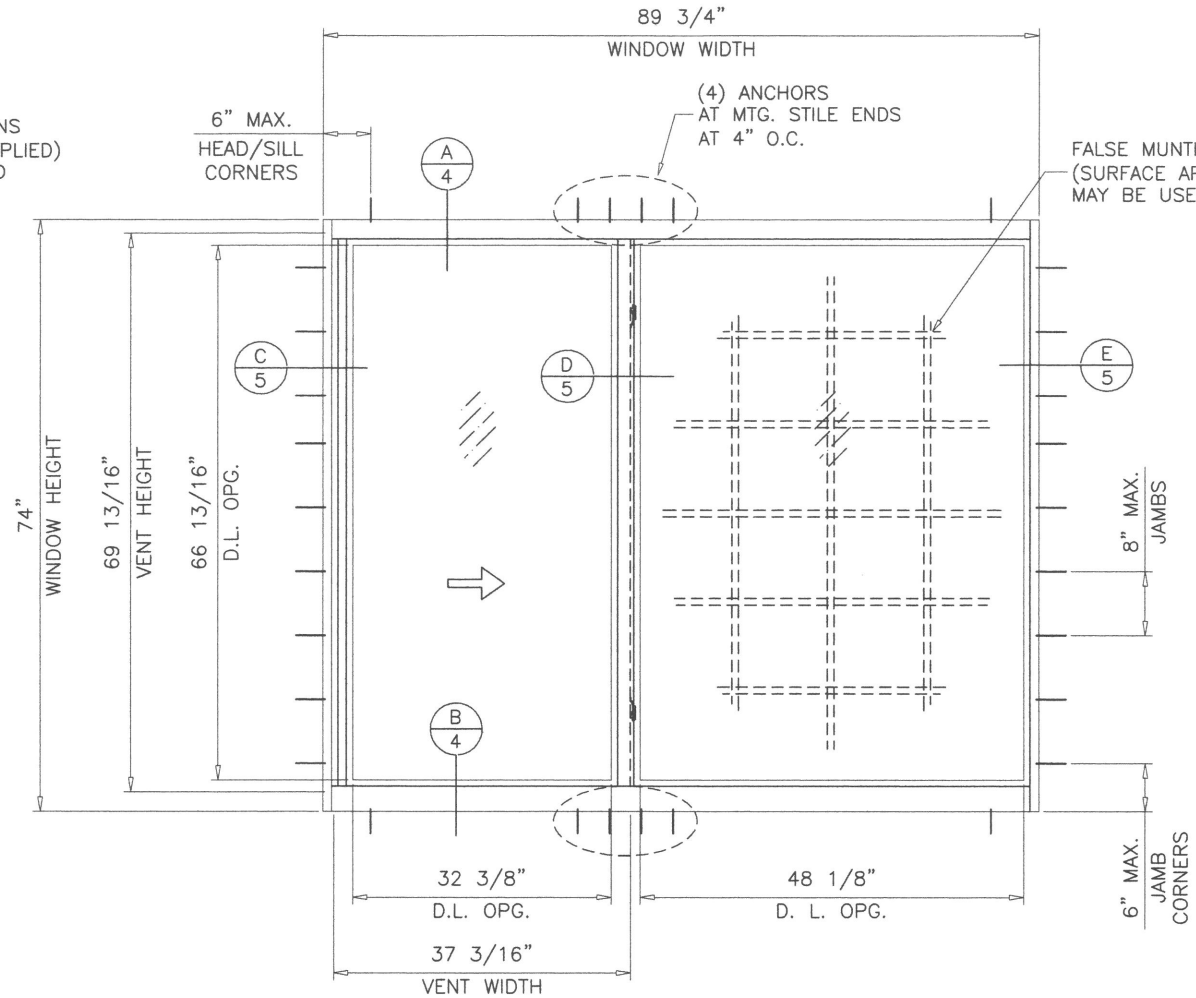
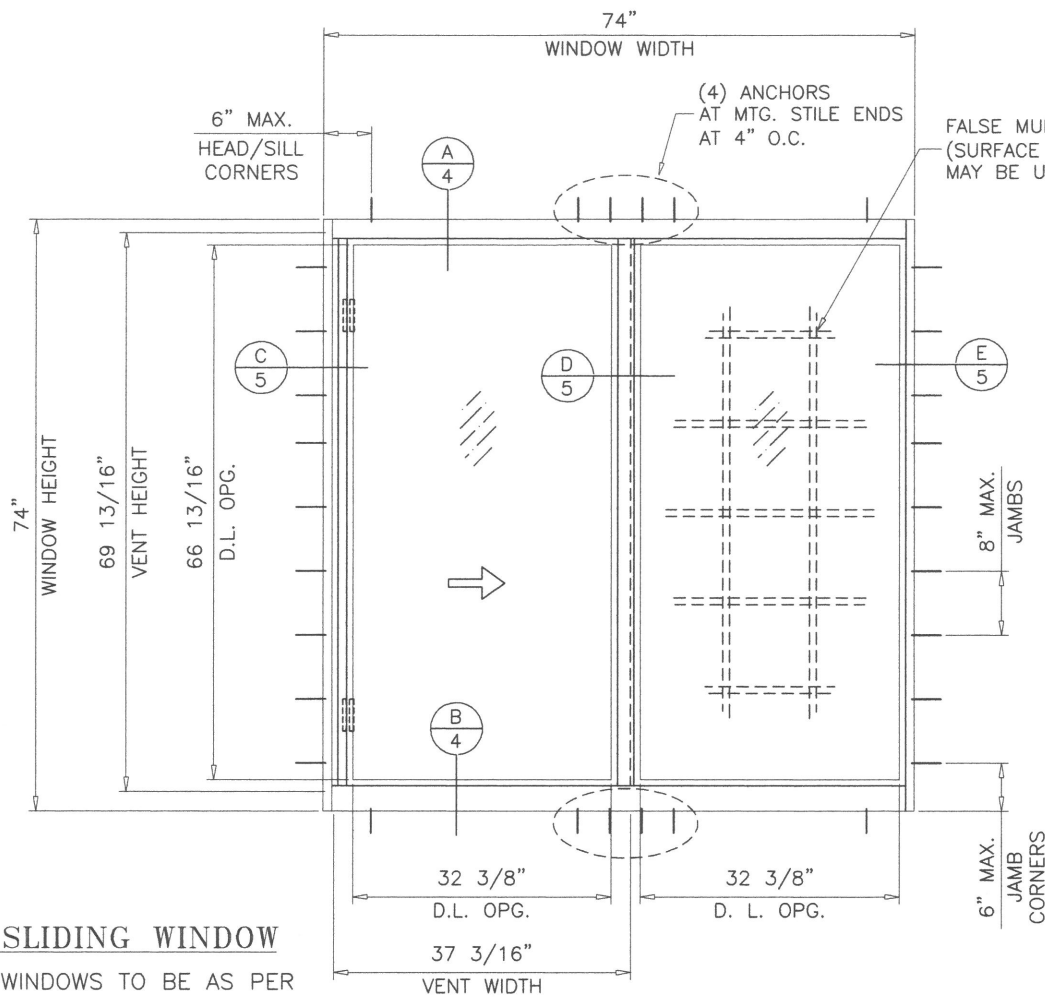
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017/2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)' FOR EQUIVALENT LOADS IN 'LOAD AND RESISTANCE FACTOR DESIGN (LRFD)' MULTIPLY 'ASD' LOADS BY 1.67 (ASD LOAD X 1.67 = LRFD LOAD).

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.



TYPICAL ELEVATIONS

TESTED UNITS

THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT.
F.B.C. APPROVED IMPACT RESISTANT SHUTTERS REQUIRED
FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

Sealed: 8/5/2020

FL #20359

A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W16-28WG

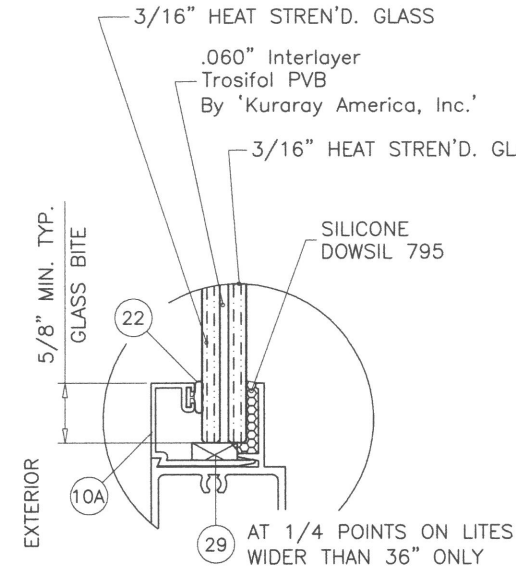
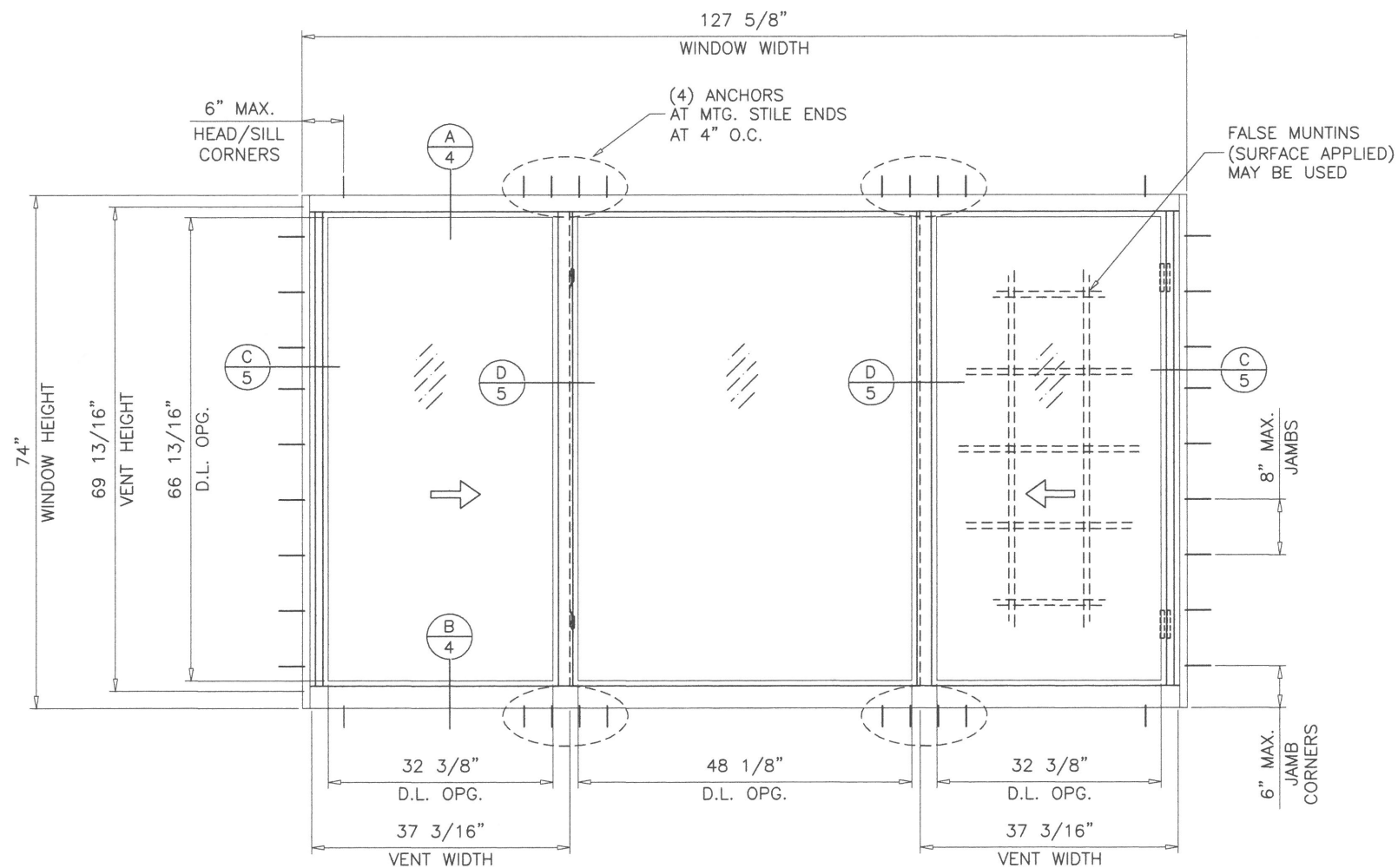
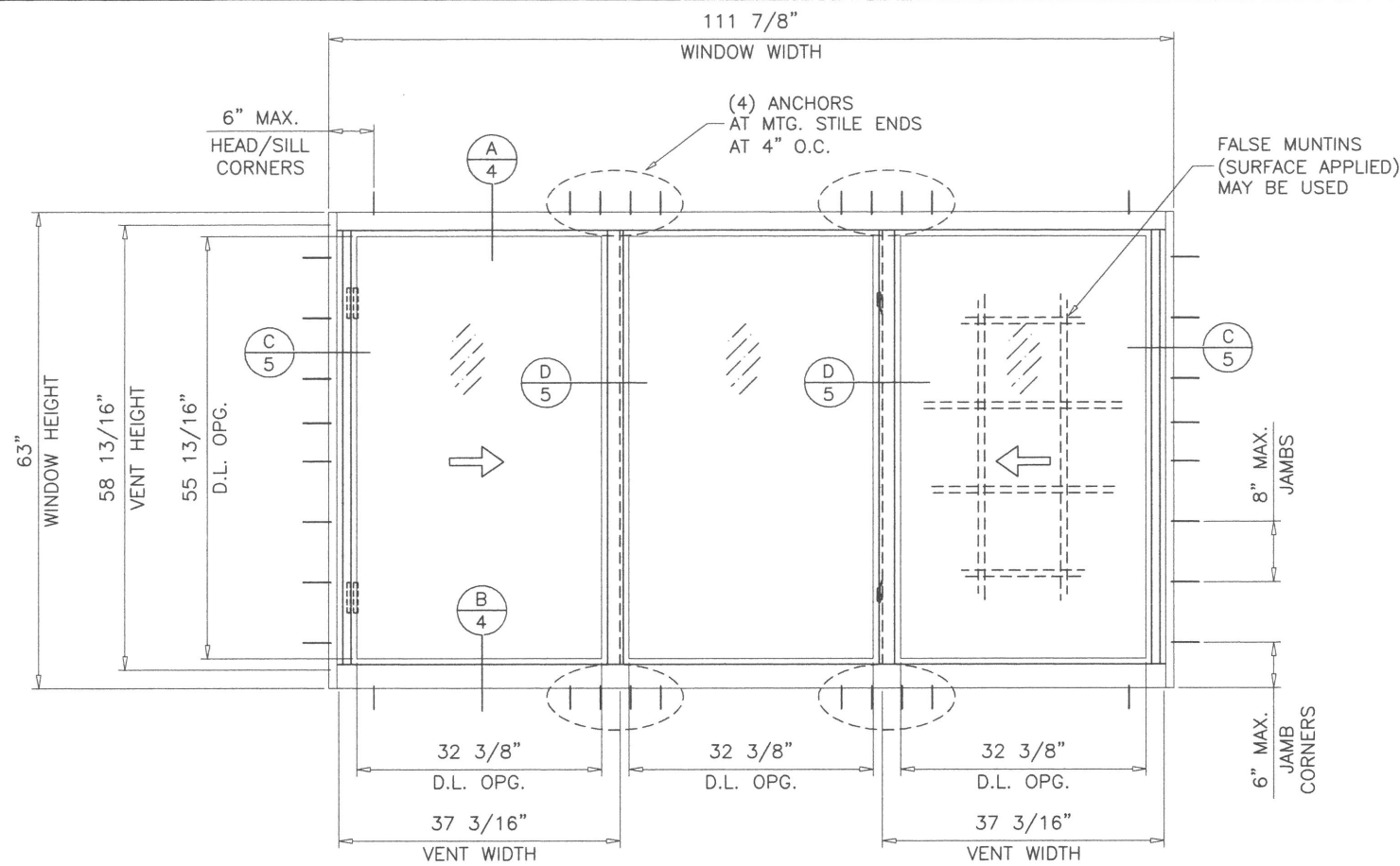
MG-300 ALUM HORIZ. ROLLING WDW. (S.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

revisions:		no	date	by	description
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					UPDATED TO 2020 FBC

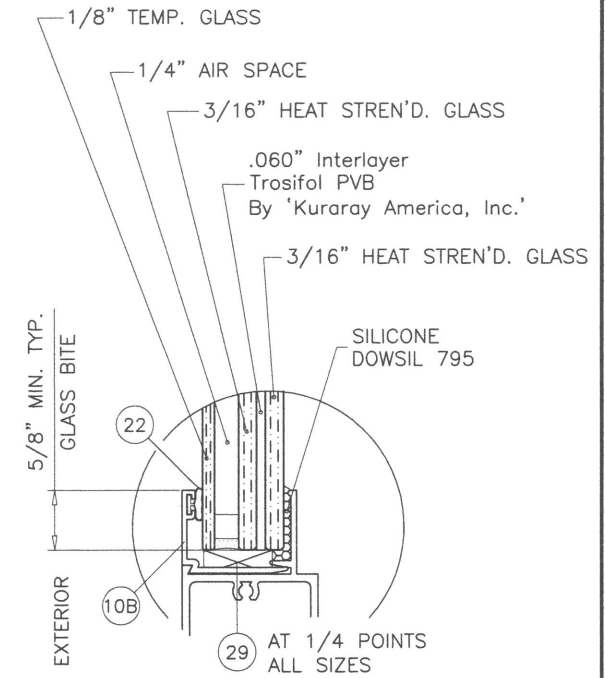
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chk. by:

drawing no.
W16-28

sheet 1 of 8



GLASS TYPE 'A'
7/16" OVERALL LAM. GLASS



GLASS TYPE 'A1'
7/8" OVERALL INSUL. LAM. GLASS

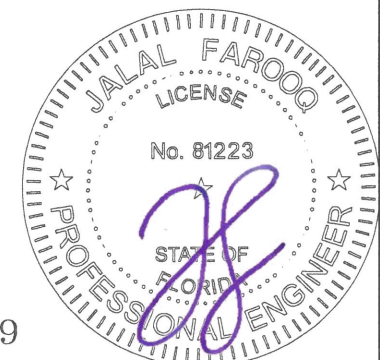
GLAZING OPTIONS

1/4" AIR SPACE CONSISTING OF:
'DURASEAL' EDGE SEAL SYSTEM
BY 'QUANEX'

TYPICAL ELEVATIONS
TESTED UNITS

Sealed: 8/5/2020

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COMP-ANL\W16-28MG

MG-300 ALUM. HORIZ. ROLLING WDW. (S.M.I.)

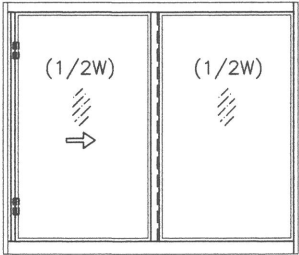
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
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COMP-ANL\W16-28MG

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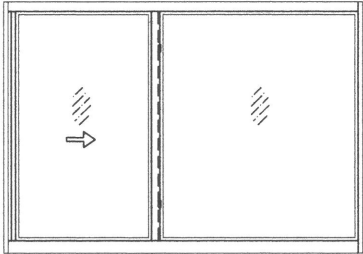
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drawing no. W16-28		sheet 2 of 8	

DESIGN LOAD CAPACITY – PSF (XO OR OX SIZES)			
FRAME DIMS.		GLASS TYPES 'A' & 'A1'	
WIDTH	HEIGHT	EXT.(+)	INT.(–)
26–1/2"	26"	90.0	140.0
37"		90.0	140.0
53–1/8"		90.0	140.0
63"		90.0	140.0
74"		90.0	140.0
26–1/2"	38–3/8"	90.0	140.0
37"		90.0	140.0
53–1/8"		90.0	140.0
63"		90.0	140.0
74"		90.0	140.0
26–1/2"	50–5/8"	90.0	140.0
37"		90.0	140.0
53–1/8"		90.0	140.0
63"		90.0	140.0
74"		90.0	140.0
26–1/2"	63"	90.0	140.0
37"		90.0	140.0
53–1/8"		90.0	140.0
63"		90.0	140.0
74"		90.0	125.0
24"	24"	90.0	140.0
36"		90.0	140.0
48"		90.0	140.0
60"		90.0	140.0
72"		90.0	140.0
24"	36"	90.0	140.0
36"		90.0	140.0
48"		90.0	140.0
60"		90.0	140.0
72"		90.0	140.0
24"	48"	90.0	140.0
36"		90.0	140.0
48"		90.0	140.0
60"		90.0	140.0
72"		90.0	140.0
24"	60"	90.0	140.0
36"		90.0	140.0
48"		90.0	140.0
60"		90.0	140.0
72"		90.0	136.1



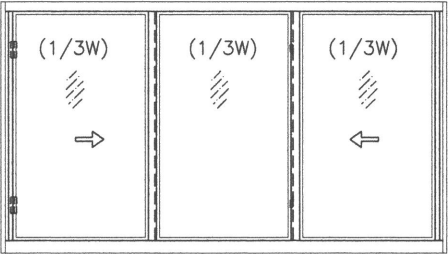
OPERATING VENTS TO BE 1/2 OF THE WDW. WIDTH
'XO OR OX'

DESIGN LOAD CAPACITY – PSF (XO OR OX SIZES)			
FRAME DIMS.		GLASS TYPES 'A' & 'A1'	
WIDTH	HEIGHT	EXT.(+)	INT.(–)
55–1/2"	26"	90.0	140.0
79–11/16"		90.0	140.0
83–1/4"		90.0	140.0
55–1/2"		90.0	140.0
79–11/16"	38–3/8"	90.0	140.0
83–1/4"		90.0	140.0
55–1/2"	50–5/8"	90.0	140.0
55–1/2"		90.0	140.0
54"	24"	90.0	140.0
63"		90.0	140.0
72"		90.0	140.0
81"		90.0	140.0
54"	36"	90.0	140.0
63"		90.0	140.0
72"		90.0	140.0
81"		90.0	140.0
54"	48"	90.0	140.0
63"		90.0	140.0
72"		90.0	140.0
54"	60"	90.0	140.0



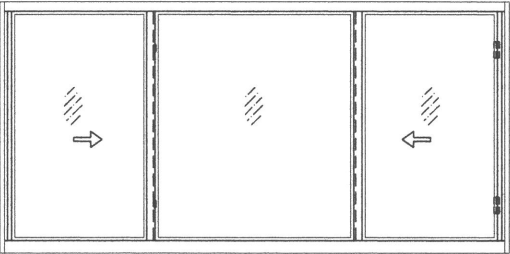
OPERATING VENTS TO BE 1/4 TO 1/3 OF THE WDW. WIDTH
'XO OR OX'

DESIGN LOAD CAPACITY – PSF (XOX SIZES)			
FRAME DIMS.		GLASS TYPES 'A' & 'A1'	
WIDTH	HEIGHT	EXT.(+)	INT.(–)
74"	26"	90.0	140.0
106–1/4"		90.0	140.0
111"		90.0	140.0
74"	38–3/8"	90.0	140.0
106–1/4"		90.0	140.0
111"		90.0	140.0
74"	50–5/8"	90.0	140.0
106–1/4"		90.0	140.0
111"		90.0	140.0
74"	63"	90.0	140.0
106–1/4"		90.0	129.0
111"		90.0	125.7
72"	24"	90.0	140.0
84"		90.0	140.0
96"		90.0	140.0
108"		90.0	140.0
72"	36"	90.0	140.0
84"		90.0	140.0
96"		90.0	140.0
108"		90.0	140.0
72"	48"	90.0	140.0
84"		90.0	140.0
96"		90.0	140.0
108"		90.0	140.0
72"	60"	90.0	140.0
84"		90.0	140.0
96"		90.0	140.0
108"		90.0	136.5



OPERATING VENTS TO BE 1/3 OF THE WDW. WIDTH
'XOX'

DESIGN LOAD CAPACITY – PSF (XOX SIZES)			
FRAME DIMS.		GLASS TYPES 'A' & 'A1'	
WIDTH	HEIGHT	EXT.(+)	INT.(–)
74"	26"	90.0	140.0
106–1/4"		90.0	140.0
111"		90.0	140.0
74"	38–3/8"	90.0	140.0
106–1/4"		90.0	140.0
111"		90.0	140.0
74"	50–5/8"	90.0	140.0
74"		90.0	140.0
72"	24"	90.0	140.0
84"		90.0	140.0
96"		90.0	140.0
108"		90.0	140.0
72"	36"	90.0	140.0
84"		90.0	140.0
96"		90.0	140.0
108"		90.0	140.0
72"	48"	90.0	140.0
84"		90.0	140.0
96"		90.0	140.0
72"		90.0	140.0
72"	60"	90.0	140.0



OPERATING VENTS TO BE 1/4 TO 1/3 OF THE WDW. WIDTH
'XOX'

Sealed: 8/5/2020

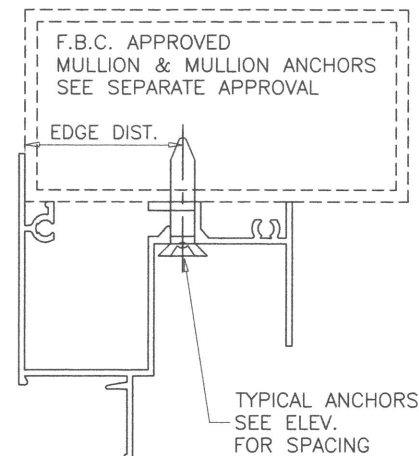
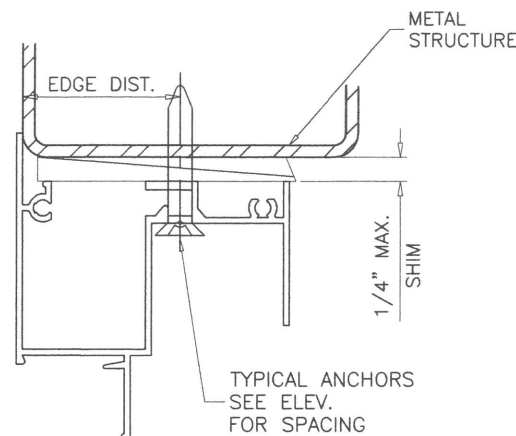
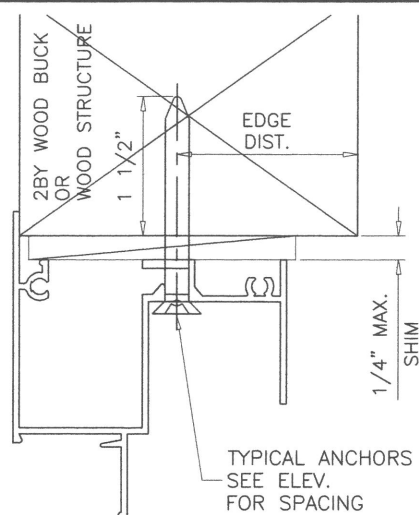
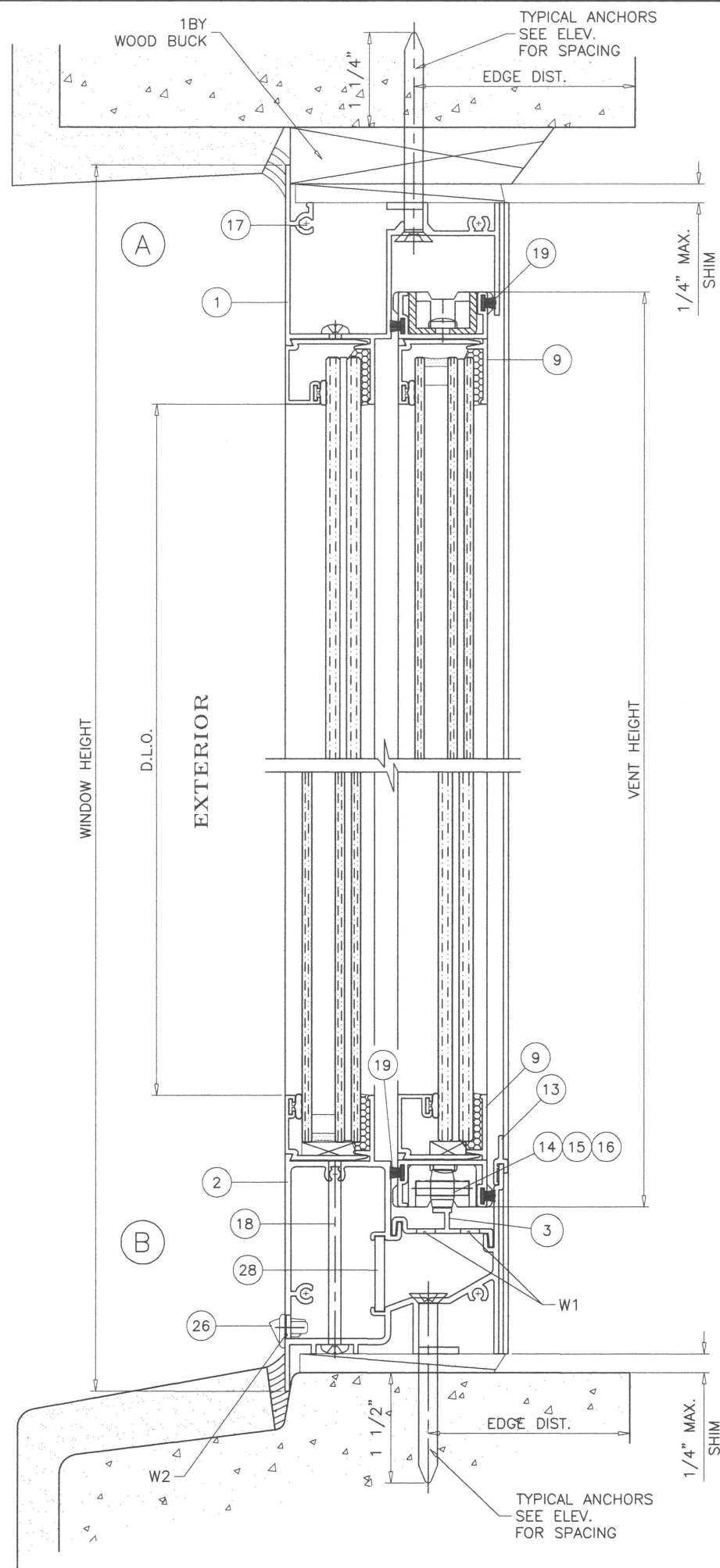
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revisions:
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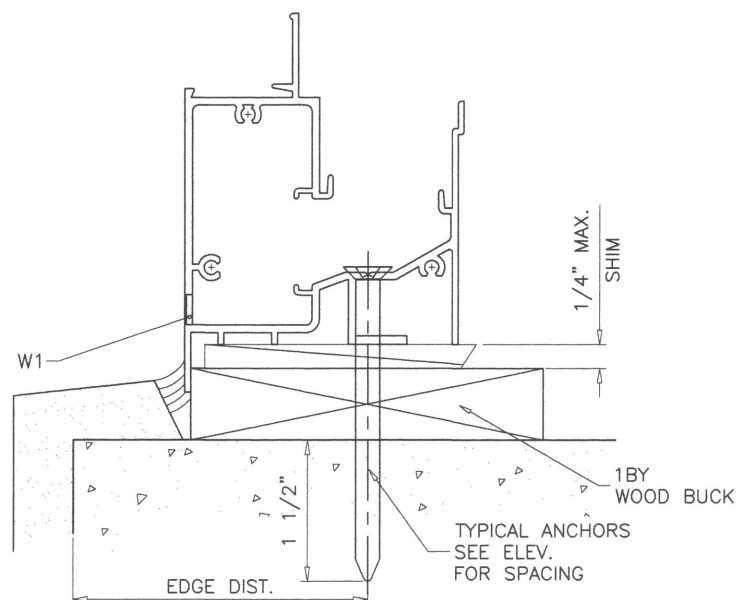
WOOD BUCKS AND METAL STRUCTURE NOT BY MR-GLASS MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

WEEPHOLES:

W1 = 1" X 1/4" WEEPHOLES AT 2-1/4" FROM EACH END
W2 = 1-3/4" X 3/8" WEEPHOLES AT 5-1/2" FROM EACH END WITH PLASTIC BAFFLE

SEALANTS:

ALL FRAME CORNERS, FIXED MEETING RAIL TRACK INSERT AT EACH END AND INSTALLATION SCREWS IN SILL SEALED WITH ALUMINUM COLORED SEALANT.



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

#14 SMS OR SELF-DRILLING SCREWS (GRADE 2 CRS)

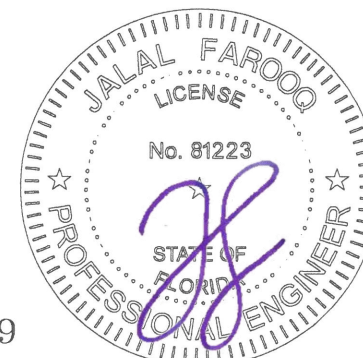
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

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ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
C.A.N. 3538

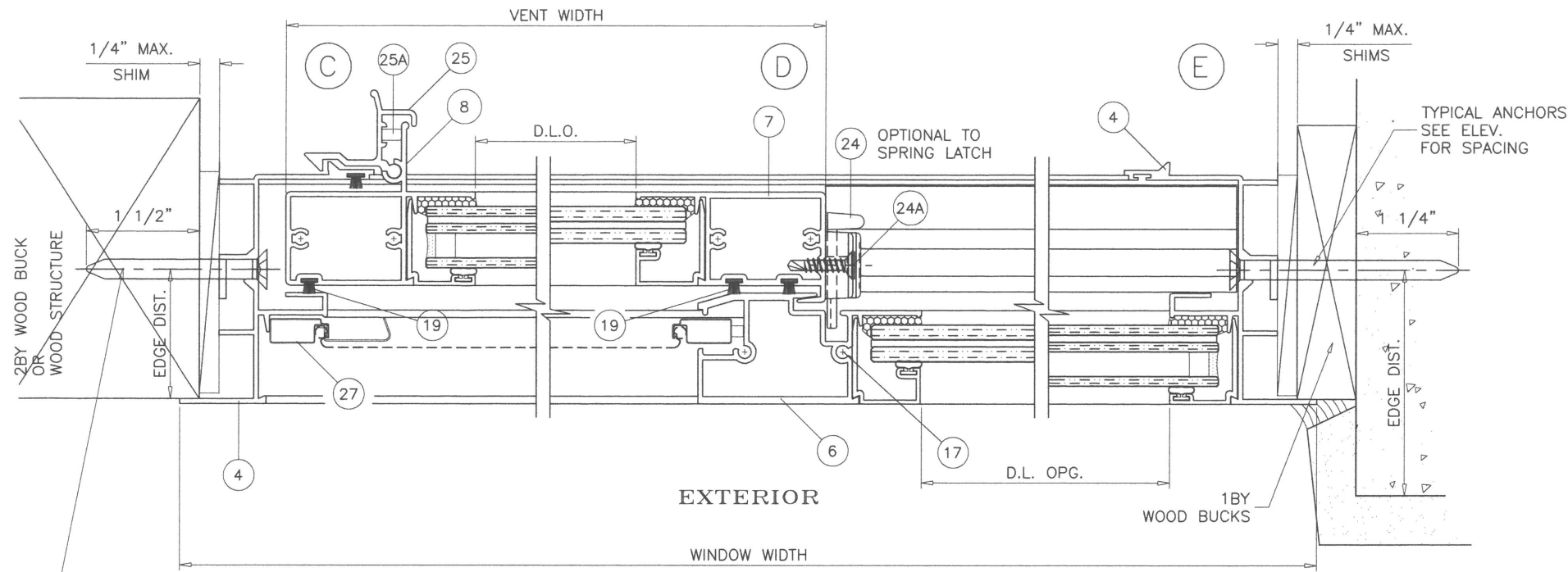
MG-300 ALUM. HORIZ. ROLLING WDW. (S.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

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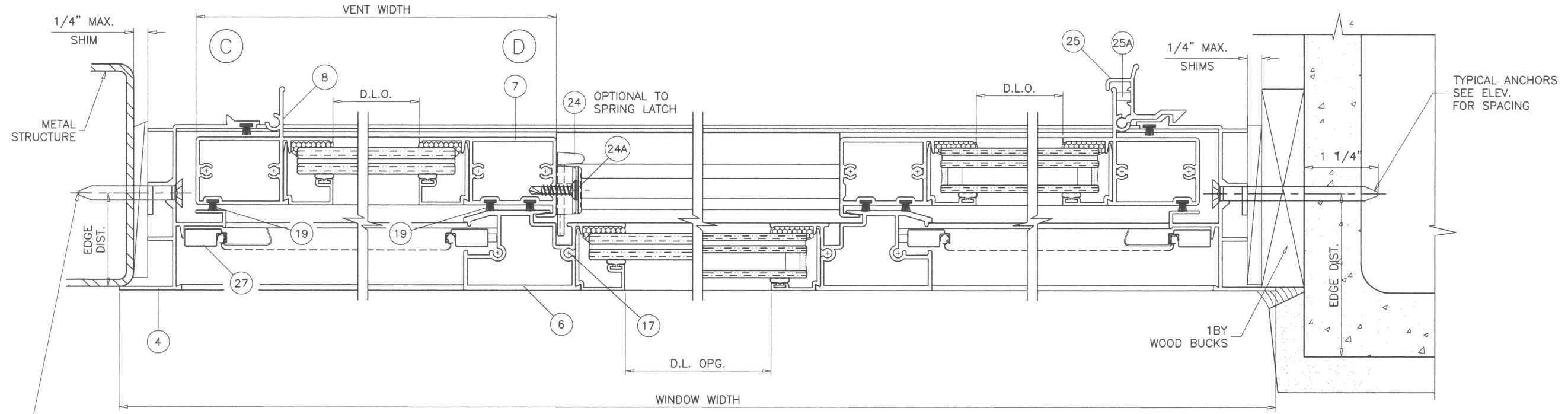
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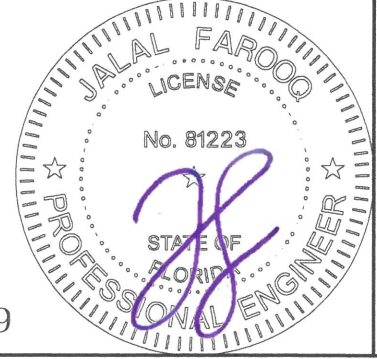


EXTERIOR

XO LAYOUT
OX OPPOSITE



XOX LAYOUT



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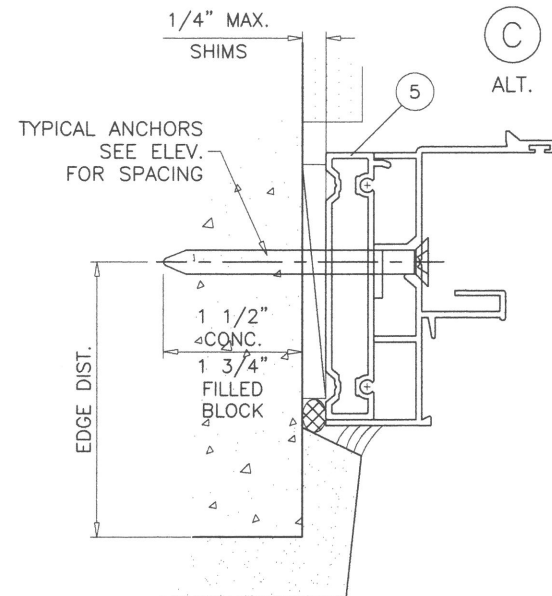
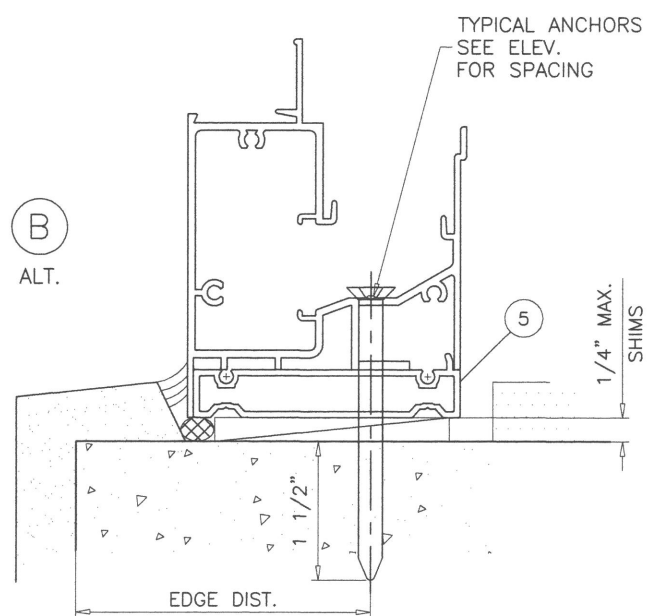
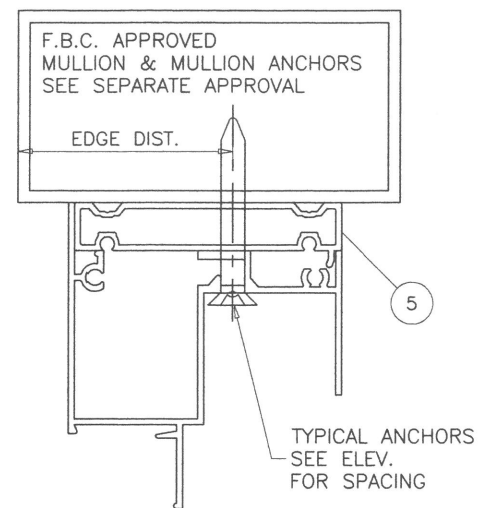
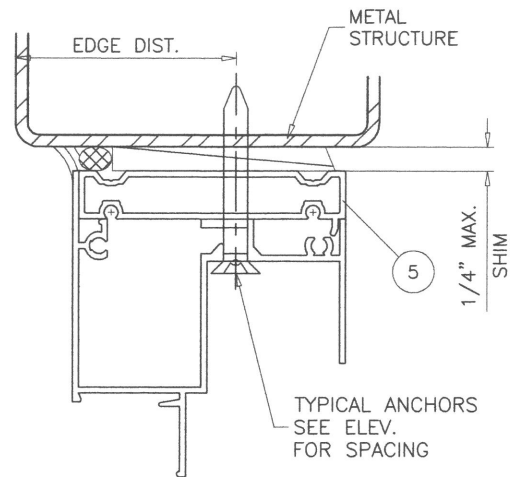
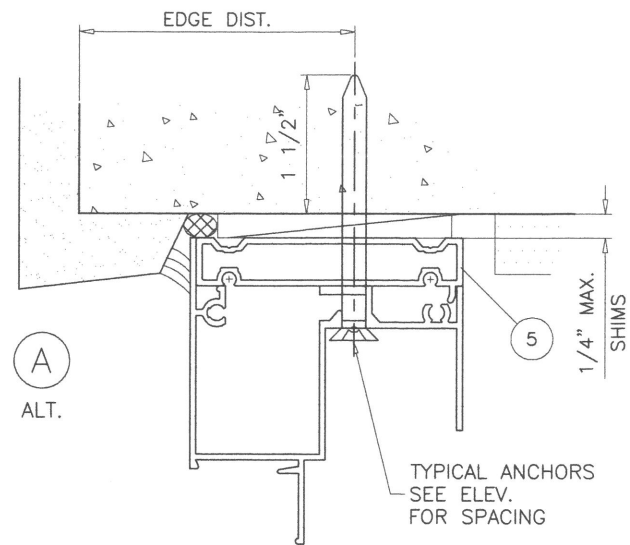
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MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W16-28MG

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8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

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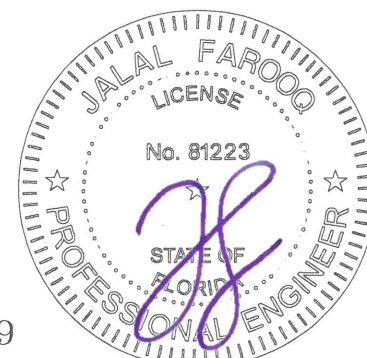
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INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

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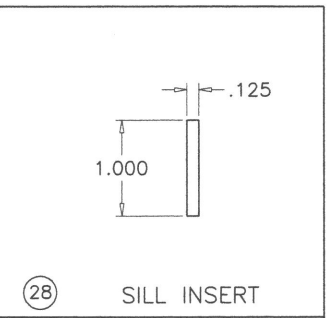
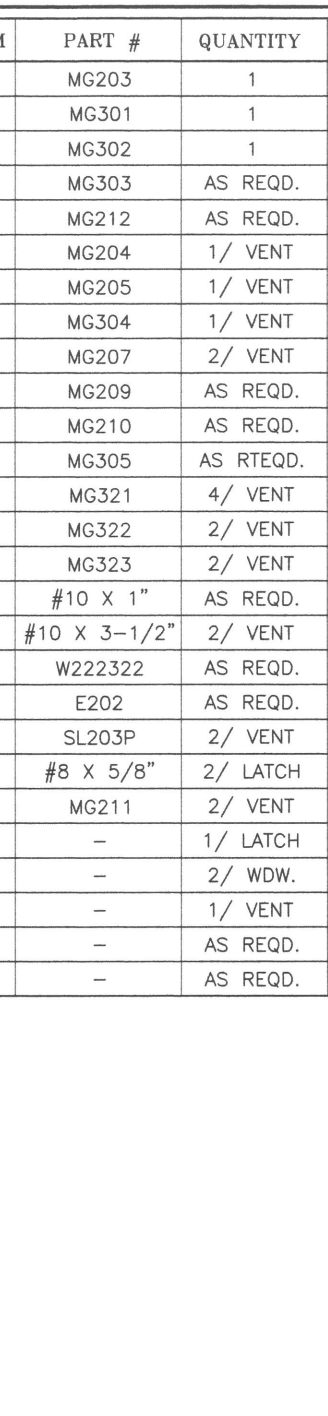
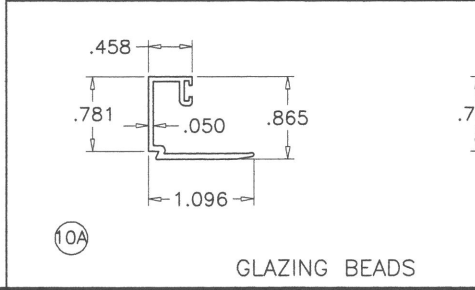
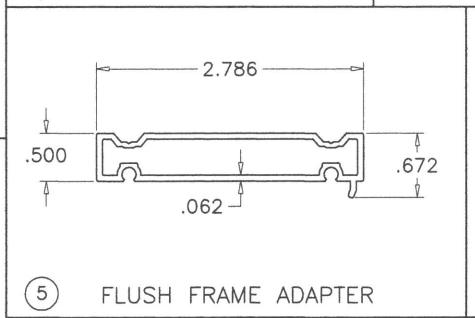
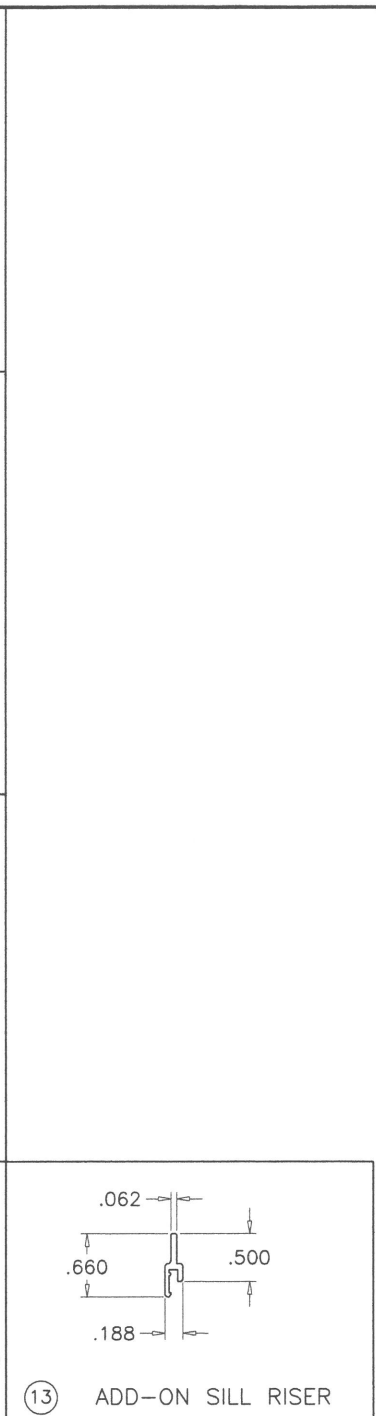
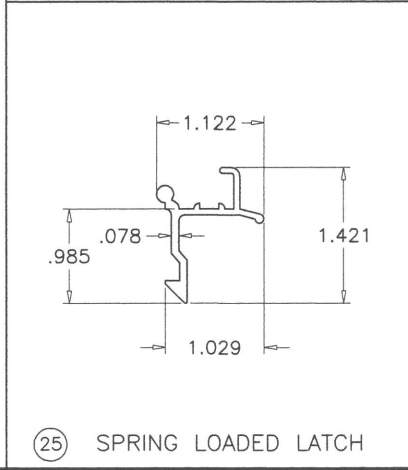
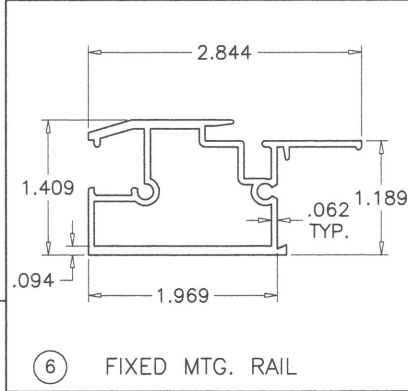
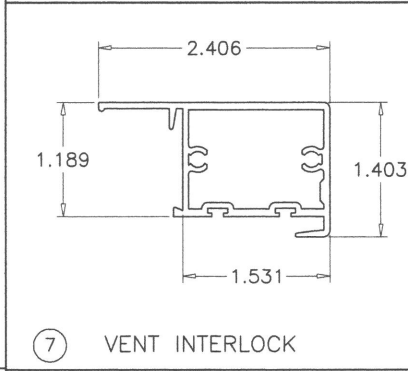
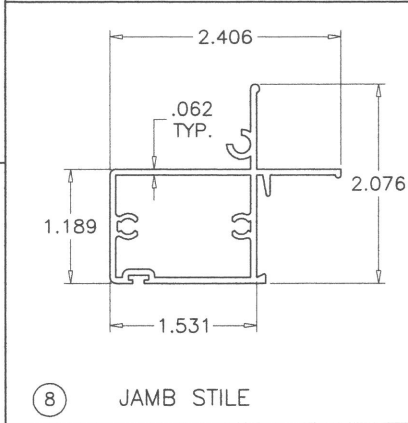
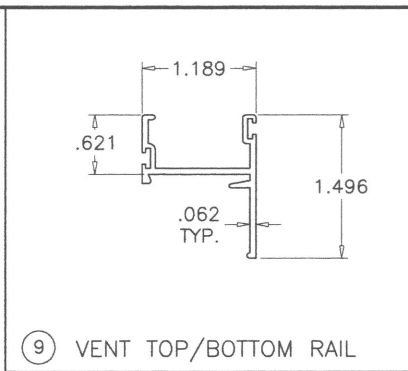
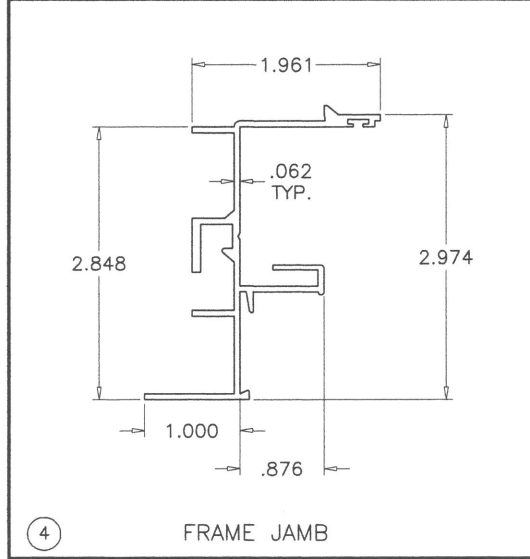
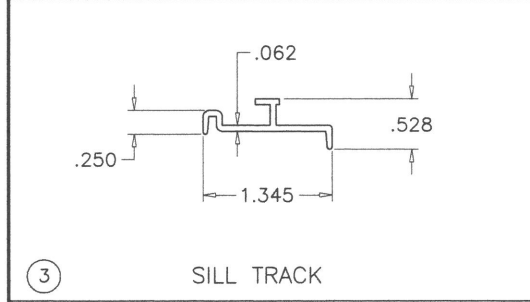
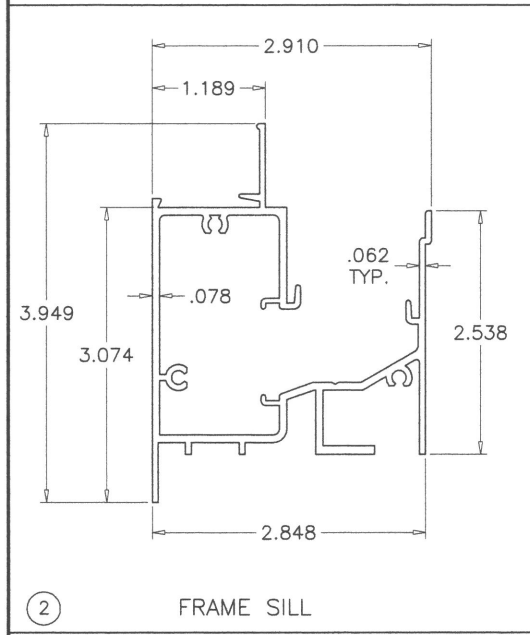
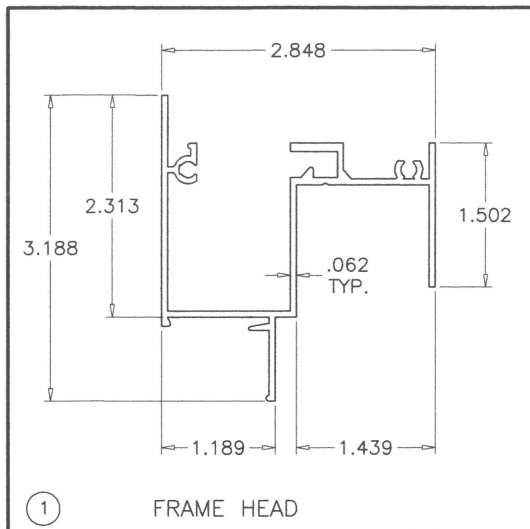
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 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W16-28WG

MG-300 ALUM HORIZ. ROLLING WDW. (S.M.I.)
 MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
 8051 N.W. 79th Place
 Medley, FL. 33166
 Tel. (305) 764-3963 Fax. (305) 470-8285

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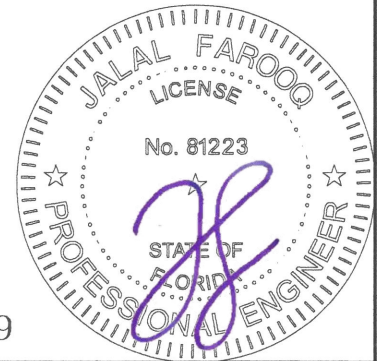
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ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	MG203	1	FRAME HEAD	6063-T6	-
2	MG301	1	FRAME SILL	6063-T6	-
3	MG302	1	SILL TRACK INSERT	6063-T6	-
4	MG303	AS REQD.	FRAME JAMB	6063-T6	-
5	MG212	AS REQD.	FLUSH FRAME ADAPTER	6063-T6	-
6	MG204	1/ VENT	FIXED MTG. RAIL	6063-T6	-
7	MG205	1/ VENT	VENT INTERLOCK	6063-T6	-
8	MG304	1/ VENT	JAMB STILE	6063-T6	-
9	MG207	2/ VENT	TOP AND BOTTOM RAIL	6063-T6	-
10A	MG209	AS REQD.	GLAZING BEAD (7/16" GLASS)	6063-T6	-
10B	MG210	AS REQD.	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	-
13	MG305	AS RTEQD.	ADD-ON SILL RISER	6063-T6	-
14	MG321	4/ VENT	ROLLER HOUSING & GUIDE	CELCON	-
15	MG322	2/ VENT	ROLLER	BRASS	-
16	MG323	2/ VENT	ROLLER PIN	ST. STEEL	-
17	#10 X 1"	AS REQD.	FRAME/VENT ASSEMBLY SCREWS	CRS	PH SMS
18	#10 X 3-1/2"	2/ VENT	FIX. RAIL SILL SCREWS (SILL END)	CRS	PH SMS
19	W222322	AS REQD.	FIN SEAL W'STRIPPING	-	ULTRAFAB
22	E202	AS REQD.	GLAZING BEAD BULB	NEOPRENE	ULTRAFAB
24	SL203P	2/ VENT	SWEEP LATCH, AT 10-1/4" FROM EACH END	ZAMAK	SULLIVAN & ASSOC.
24A	#8 X 5/8"	2/ LATCH	LATCH INST. SCREW	ST. STEEL	FH SMS
25	MG211	2/ VENT	SPRING LOADED LATCH	6063-T6	ALTERNATE TO SWEEP LATCH
25A	-	1/ LATCH	LATCH SPRING	ST. STEEL	-
26	-	2/ WDW.	HI-FLOW WEEPER	-	PREFERRED ENGINEERING PRODUCTS
27	-	1/ VENT	5/16" BOX SCREEN	-	OPTIONAL
28	-	AS REQD.	SILL INSERT, 2" LONG	6063-T6	AT MTG. STILE LOCATION
29	-	AS REQD.	SETTING BLOCK AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A

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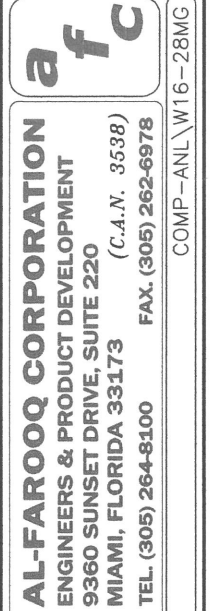
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