

RW-5100 RIBBON WINDOW SYSTEM

LARGE & SMALL MISSILE IMPACT RESISTANT

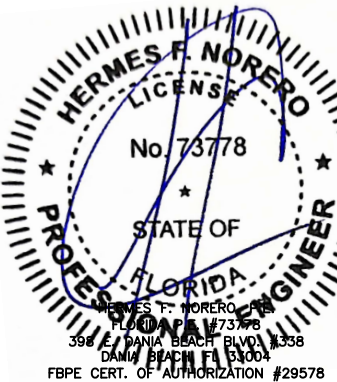
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- SHEET 3: BILL OF MATERIALS
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GENERAL NOTES

- THIS WINDOW SYSTEM HAS BEEN TESTED, ENGINEERED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN LOAD CHARTS. SYSTEM CONFORMS TO THE CURRENT FLORIDA BUILDING CODE, INCLUDING HVHZ REGIONS.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- BUCK, OPENINGS & BUCK FASTENERS MUST BE DESIGNED & INSTALLED TO WITHSTAND WIND LOADS FOR EACH APPLICATION. WOOD BUCKS SHALL BE DESIGNED BY SPECIALTY ENGINEER OR ENGINEER OF RECORD.
- THE SYSTEM SHOWN HEREIN WAS TESTED IN CONFORMANCE WITH TAS 201-94, 202-94, 203-94 AND AAMA 501-25.
- A 33% INCREASE IN ALLOWABLE STRESS WAS NOT USED IN ANALYSIS.
- ALL STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED IN ACCORDANCE WITH THE CURRENT CODE REFERENCED HEREIN.

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.08.21 13:23:31 -04'00'



9TH (2026) FBC UPDATE

07/29/26

MS

C

8TH (2023) FBC UPDATE

03/09/23

MS

B

2020 FBC UPDATE

08/04/20

NUS

A

DATE

BY

REV

DESCRIPTION

MANUAL COMP

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BuildingEnvelope™

803 AIRPORT RD. TERRELL TX 75160

(972) 551-6100

PROJECT

PRODUCT APPROVAL DRAWINGS

RW-5100 RIBBON WINDOW SYSTEM

PROJECT NO.

DRAWN

GRG

DATE

3/10/15

SCALE

NOTED

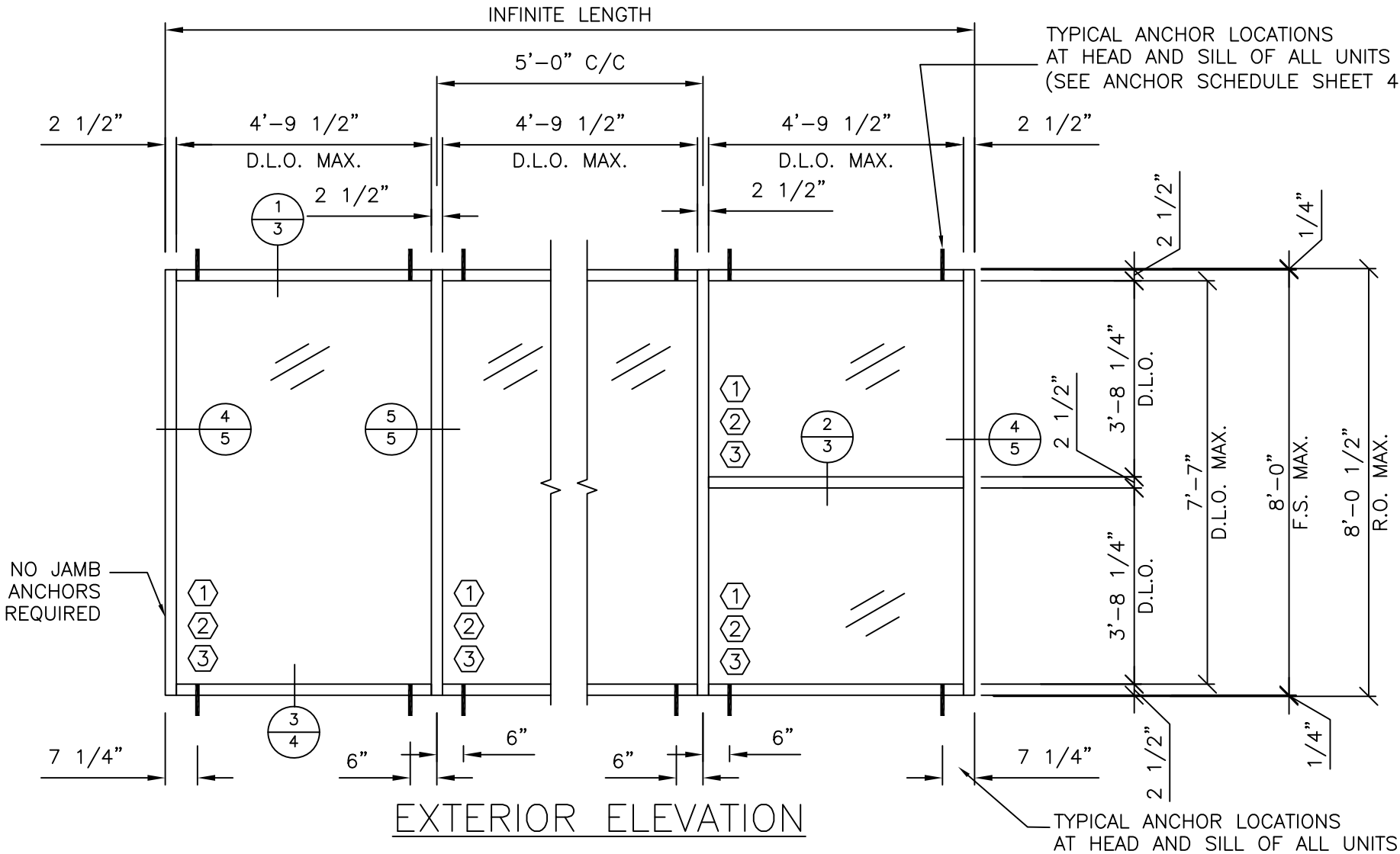
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1 OF 7

OLDCASTLE BUILDINGENVELOPE SERIES RW-5100 RIBBON WINDOW SYSTEM



MAX. DESIGN PRESSURES (PSF) FOR VARIOUS GLASS TYPES

GLASS WD. D.L.O.	GLASS HGT. D.L.O.	GLASS TYPES (INSULATED LAMINATED)	
		①	②
55.83"	91"	+70, -80	+70, -80
57.5"		+70, -80	N/A

(WATER TEST PRESSURE = 15 PSF)

GLASS SCHEDULE (LARGE MISSILE IMPACT)

MANUFACTURER	DESCRIPTION	GASKETS
① EASTMAN CHEMICAL CO.	INSULATED - LAMINATED GLASS: 1/4" H.S. OR TEMPERED, 1/2" AIRSPACE, 1/4" H.S. GLASS AT INNER AND OUTER FACES, .075" SAFLEX CP INTERLAYER	FG-5126 INT FG-5158 EXT

GLASS SCHEDULE (SMALL MISSILE IMPACT)

MANUFACTURER	DESCRIPTION	GASKETS
② EASTMAN CHEMICAL CO	INSULATED - LAMINATED GLASS: 1/4" H.S. OR TEMPERED, 1/2" AIRSPACE, 1/4" H.S. GLASS AT INNER AND OUTER FACES .060" SAFLEX PVB	FG-5126 INT FG-5158 EXT

NOTE:
REFER TO SHEET 4 FOR GLAZING DETAILS



PROJECT	9TH (2026) FBC UPDATE	8TH (2023) FBC UPDATE	2020 FBC UPDATE	DESCRIPTION
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RW-5100 RIBBON WINDOW SYSTEM

BILL OF MATERIALS

COMPONENT SCHEDULE		
PART NO.	DESCRIPTION	ALUMINUM ALLOY & TEMPER
RW-5134	GLAZING BEAD	6063-T6
RW-5135	HEAD/HORIZONTAL TRIM	6063-T5
RW-5140	SILL TRIM	6063-T5
RW-5141	MULL. CAP	6063-T5
RW-5142	JAMB CAP	6063-T5
RW-5146	JAMB MULLION	6063-T6
RW-5147	MULLION	6063-T6
RW-5148	MULLION	6063-T6
RW-5149	HEAD	6063-T6
RW-5150	HORIZONTAL	6063-T6
RW-5151	SILL	6063-T6
RW-5152	SETTING CHAIR	6063-T5
RW-5153	SILL FACE CAP	6063-T5
RW-5161	END DAM	6063-T5
RW-5162	MULL. CAP	6063-T5
ICW-2	TYPICAL FACE CAP	6063-T5

GASKETS AND HARDWARE		
PART NO.	DESCRIPTION	LOCATION
CW-998	BULB GASKET	MULLION
ICW-12	ISOLATOR	ALL FACE @ 12" O.C.
FG-5158	EPDM GASKET	TYPICAL EXTERIOR
FG-5126	SSG SILICONE SPACER GASKET	TYPICAL INTERIOR
FG-5159	EPDM SETTING BLOCK (70-90 SHORE A DUROMETER)	SILL & HORIZONTAL
RW5000-FP-5	VINYL WATER DIVERTER	HORIZONTAL
FG-5160	VINYL BAFFLE RETAINER	SILL
RW5000-FP-6	MULL. CAP (MADE FROM RW-5141)	HEAD & SILL MULLION
RW5000-FP-7	JAMB CAP (MADE FROM RW-5142)	HEAD & SILL JAMB
RW5000-FP-9	END DAM (MADE FROM RW-5161)	HEAD & SILL MULLION
RW5000-PP-10	BAFFLE	SILL
RW5000-FP-11	MULL. CAP (MADE FROM RW-5162)	MULLION
DOWSIL 995	STRUCTURAL SILICONE	INTERIOR GLASS
TREMCO SPECTREM 2	SILICONE SEALANT	INTERIOR GLASS/ MULL. JOINT
SM-5601	SEALANT TAPE	FRAME JOINTS
DOWSIL 795	STRUCTURAL SILICONE	MULL. JOINT

FASTENER SCHEDULE		
PART NO.	DESCRIPTION	APPLICATION
FS-327	#12-14 X 7/8" HWHDRIL-FLEX GRADE 5 STEEL, GRADE 8 DRILL TIP	GLAZING BEAD
FS-202	#8 X 1/2" PPH	JAMB CAP
FS-45	#8 X 1/2" PFH	MULL. CAP/END DAM
FS-44	5/16" X 1" HHSTS	FRAME CONNECTIONS

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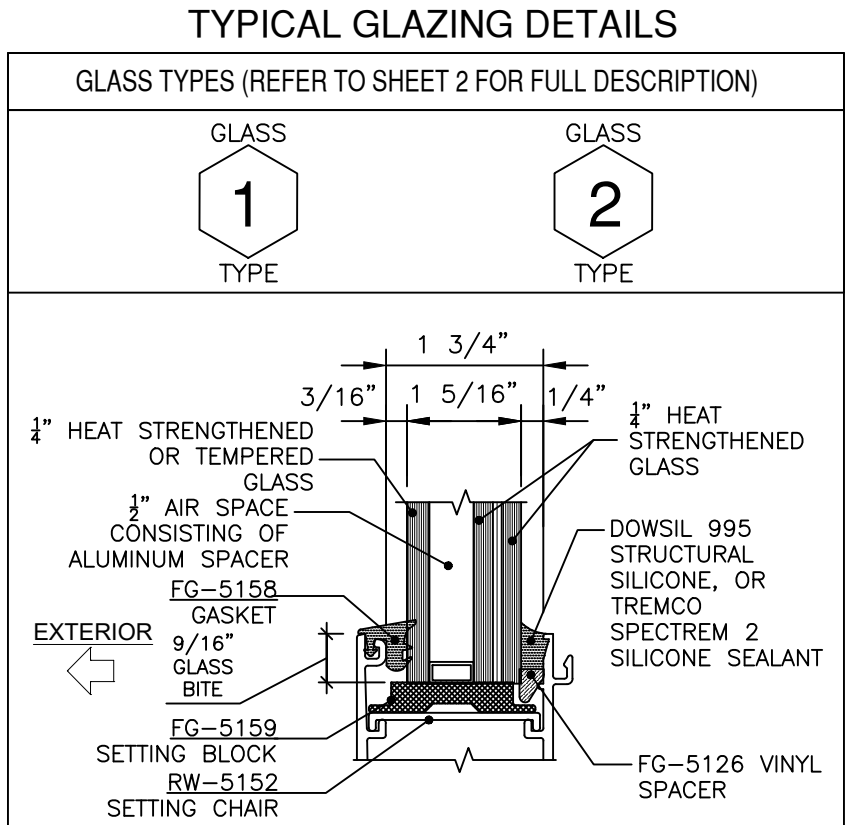
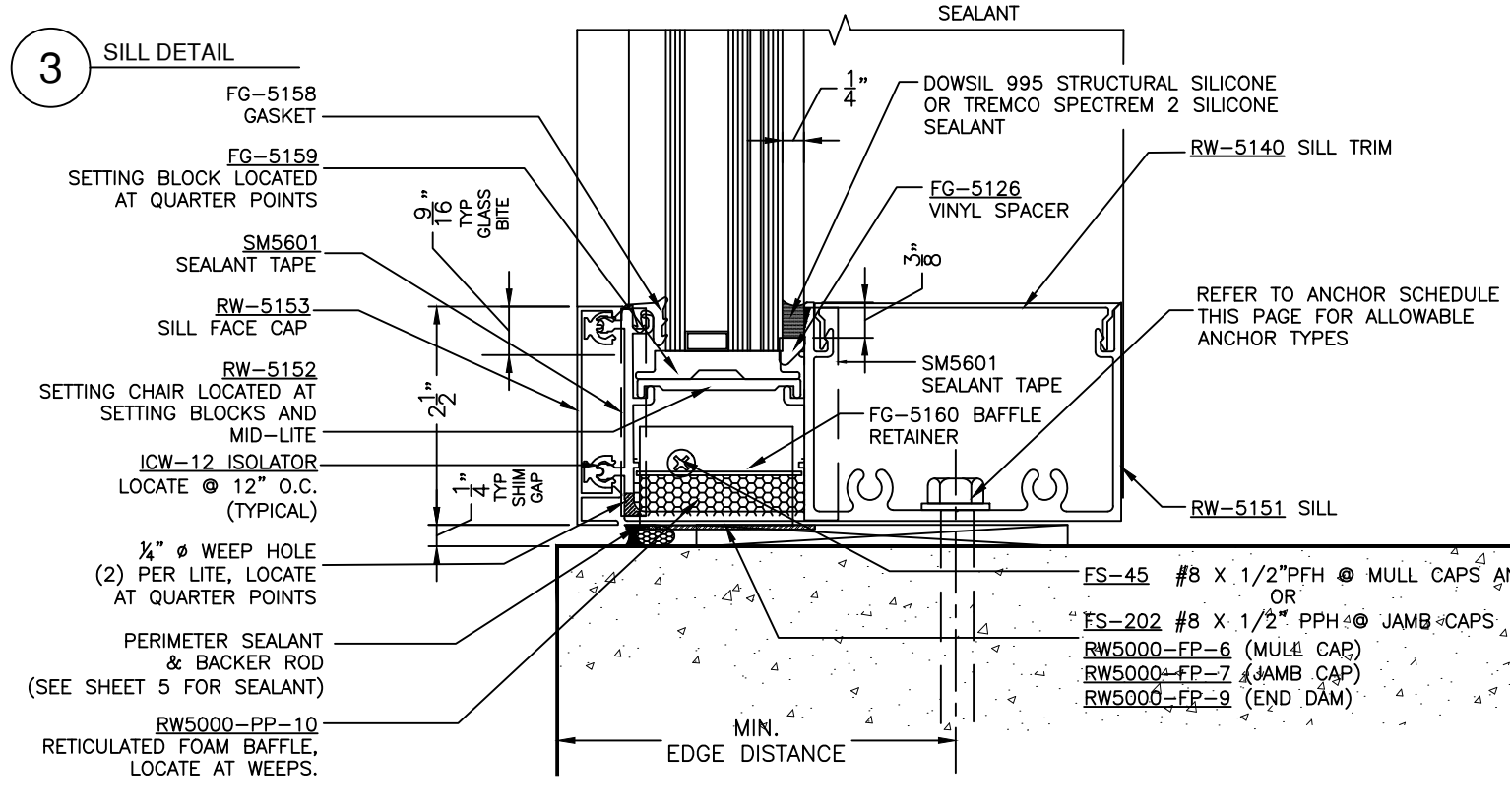
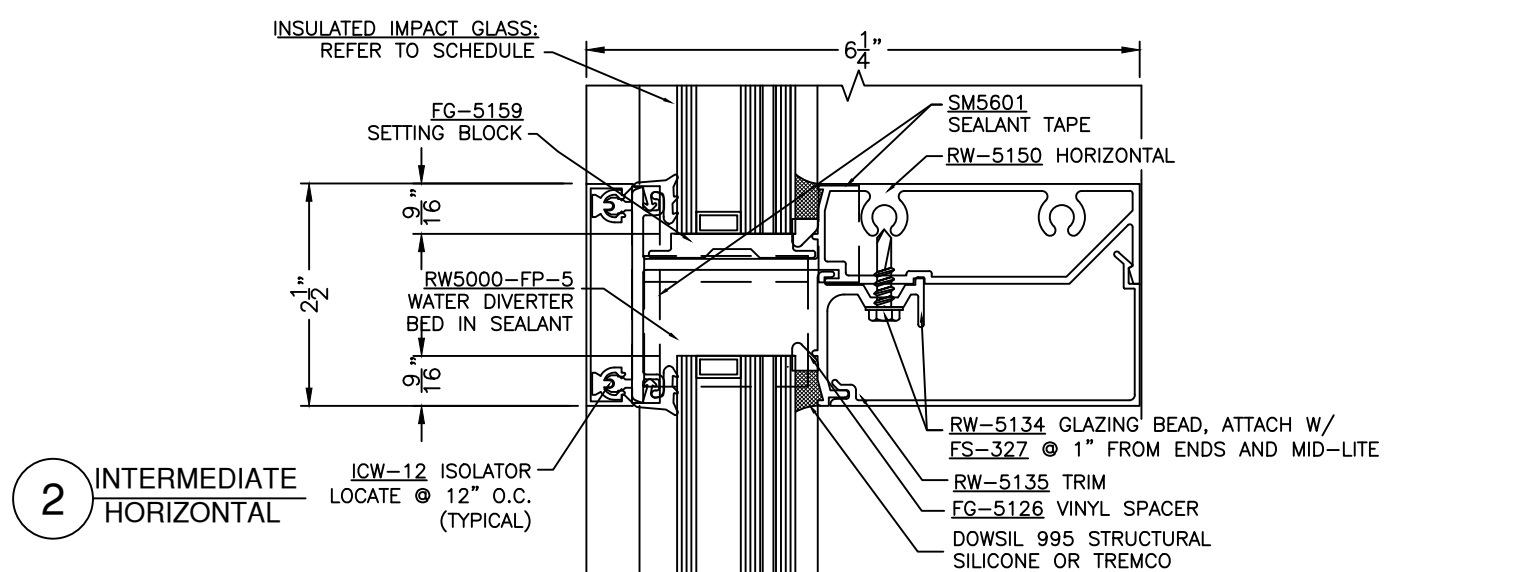
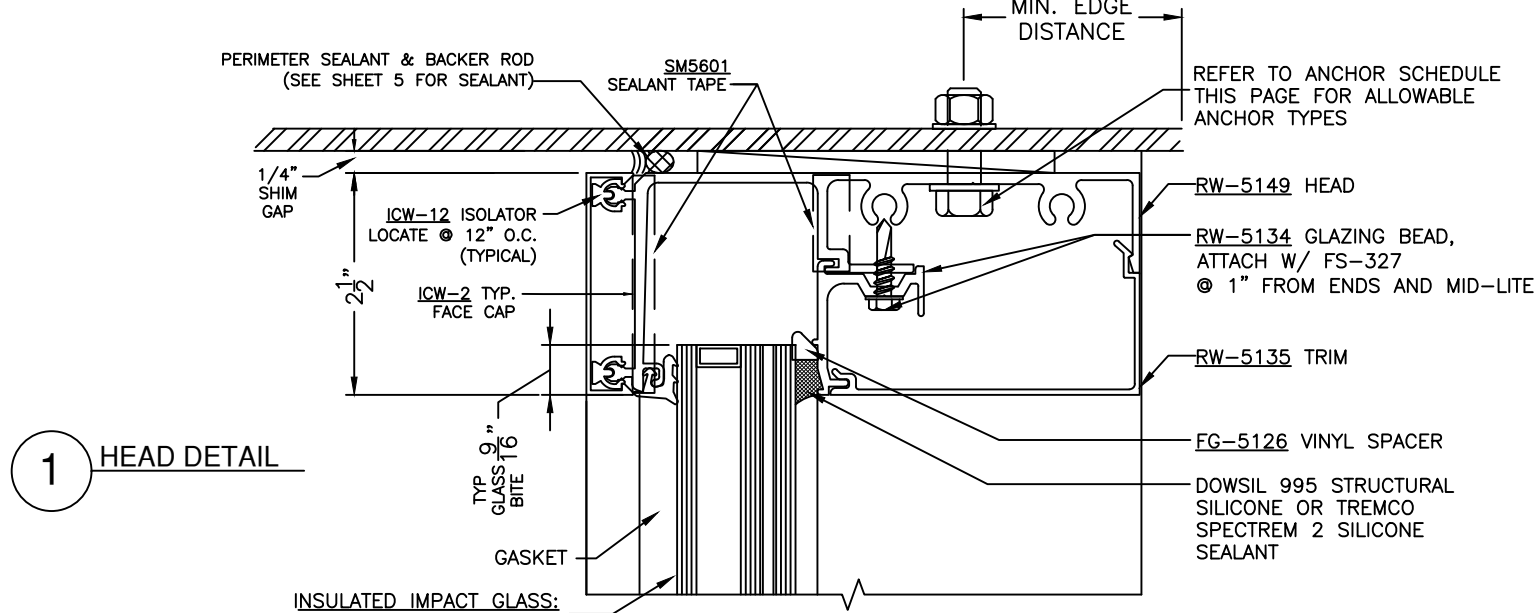
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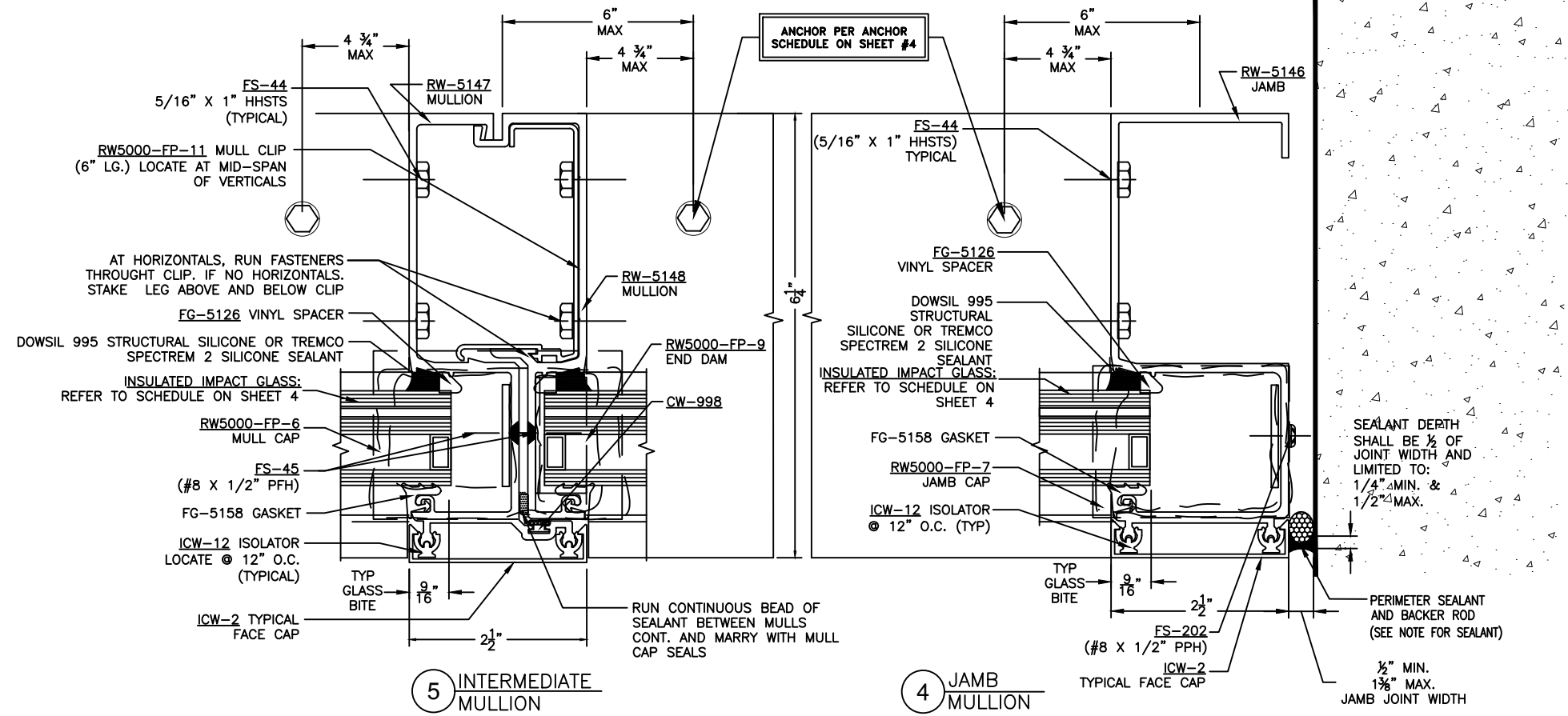
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ANCHOR SCHEDULE	
IN UNCRACKED CONCRETE (MIN. f'c=3000 psi):	
+ 3/8"Ø HILTI KWIKBOLT III WITH 2-1/2" MIN. EMBED	
MIN EDGE DISTANCE	= 3"
MIN ANCHOR SPACING	= 6"
+ 3/8"Ø POWERS WEDGE BOLT WITH 2-1/2" MIN. EMBED	
MIN EDGE DISTANCE	= 3-1/8"
MIN ANCHOR SPACING	= 6"
IN CRACKED CONCRETE (MIN. f'c=3000 psi):	
+ 1/2"Ø HILTI KWIKBOLT T22 304/316 SS WITH 3-5/8" MIN. EMBED	
MIN EDGE DISTANCE	= 3-3/8"
MIN ANCHOR SPACING	= 6"
+ 1/2"Ø POWERS WEDGE BOLT WITH 3-1/2" MIN. EMBED	
MIN EDGE DISTANCE	= 3-1/2"
MIN ANCHOR SPACING	= 6"
IN STEEL (1/8" THICK, A36 OR EQUIVALENT)	
+ 3/8"-16 GRADE-5 HEX HEAD BOLT WITH NUT & WASHER OR SELF-TAPPING SCREW OR DRILLED AND TAPPED HOLES	
MIN. FULL ENGAGEMENT INTO HEX NUT OR, MIN 3 THREADS PENETRATION FOR SELF-TAPPING SCREWS OR DRILLED AND TAPPED BOLTS	
MIN EDGE DISTANCE	= 1"

- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).
 - CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).

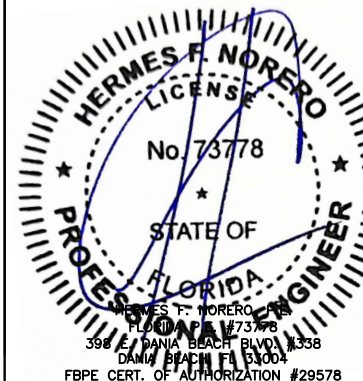
PROJECT	9TH	(2026)	FBC	UPDATE
	8TH	(2023)	FBC	UPDATE
	2020	FBC	UPDATE	
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PRODUCT APPROVAL DRAWINGS				
RW-5100 RIBBON WINDOW SYSTEM				
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SHEET	4 OF 7			



SEE SHEET 6 FOR
ADDITIONAL MULL CAP
INSTALLATION INFORMATION

GLAZING NOTE:
REFERENCE SHEET 4 FOR GLASS
SCHEDULE AND GLAZING DETAILS.

JAMB SEALANT NOTES:
PERIMETER SEALANT OPTIONS:
DOWSIL 795 (SILICONE),
TREMCO SPECTREM 2 & 3 (SILICONE)
TREMCO DYMONIC FC (URETHANE)
SONNEBORN SOLOLASTIC 150 (ELASTOMERIC)
**ALTERNATE SEALANTS & ALTERNATE JAMB
GAPS:**
TO BE APPROVED BY
DESIGN PROFESSIONAL OF RECORD AND
SEALANT MANUFACTURER.



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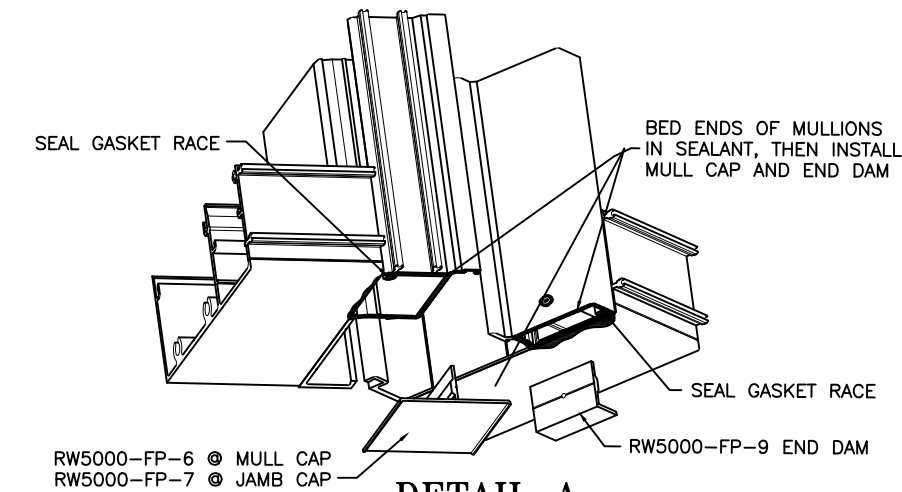
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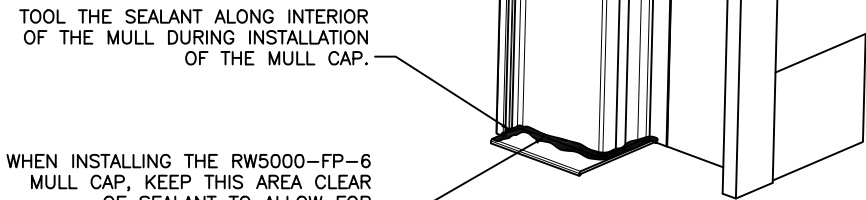
RW-5100 MULL CAP SEALANT DETAILS AND INSTALLATION INSTRUCTIONS



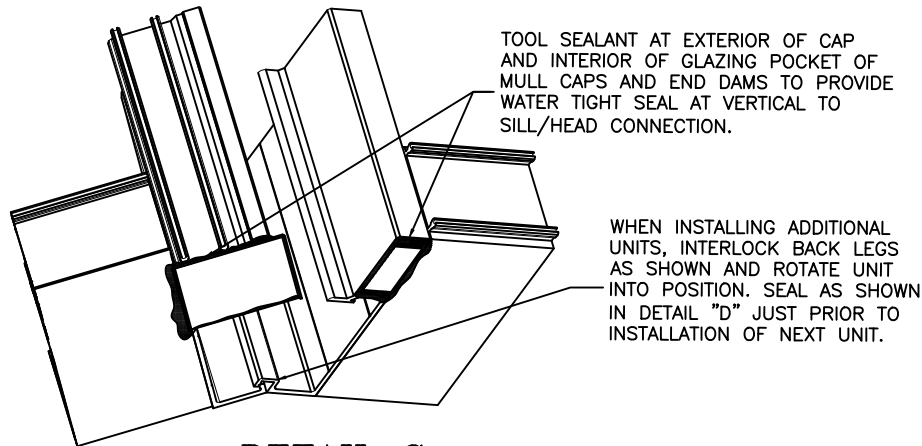
DETAIL A

MULL CAP & END DAMS REQUIRED AT HEAD AND SILL TYPICAL. (SILL SHOWN)

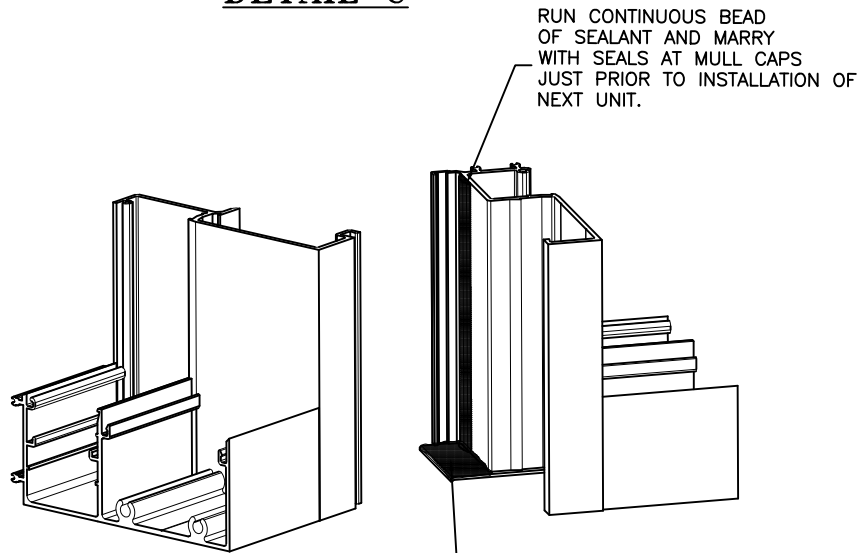
INSTALL MULL CAPS AND END DAMS USING FS-45 (#8 X 1/2" PFH), INSTALL JAMB CAPS USING FS-202 (#8 X 1/2" PPH). (CAP SEAL ALL FASTENERS)



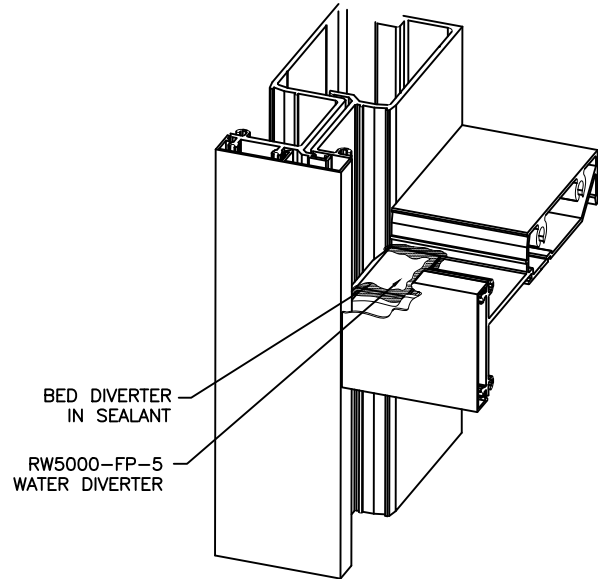
DETAIL B



DETAIL C



DETAIL D



WATER DIVERTER SEALANT DETAIL
LOCATE AT EACH END OF INTERMEDIATE HORIZONTALS

INSTALLATION NOTES:

- 1) ASSEMBLE UNITS AS SHOWN ON DETAIL SHEETS 3 THRU 5. INSTALL SEALANT TAPE BETWEEN VERTICALS AND HORIZONTALS AS SHOWN.
- 2) INSTALL AND SEAL MULL CAPS AS SHOWN IN DETAILS A, B & C ABOVE.
- 3) MULL CAPS SHOULD FORM A WATER TIGHT SEAL. A TEST MAY BE CONDUCTED TO CONFIRM THIS SEAL BY BLOCKING WEEP HOLES AND FILLING SILL CAVITY WITH WATER. AFTER TEST REMOVE PLUGS FROM WEEP HOLES, DRAIN WATER, INSTALL BAFFLES AND BAFFLE RETAINERS.
- 4) INSTALL FIRST UNIT INTO OPENING (UNITS WILL INSTALL FROM LEFT TO RIGHT AS VIEWED FROM EXTERIOR OF BUILDING), LEVEL, PLUMB AND ANCHOR FIRST UNIT. WHEN SHIMMING UNITS, SHIM AT ANCHOR POINTS UNDER SILL. DO NOT PLACE SHIMS BENEATH MULL OR MULL CAP.
- 5) RUN BEAD OF SEALANT CONTINUOUS FOR FULL HEIGHT OF MULLION AND BED MULL CAP WITH SEALANT AT HEAD AND SILL AS SHOWN IN DETAIL D.
- 6) INSTALL SECOND UNIT BY BRINGING INTO POSITION FROM INSIDE OF BUILDING, TILT HEAD OF UNIT BENEATH MULL CAP, ROTATE SILL OF UNIT OVER LOWER MULL CAP, THEN INTERLOCK BACK LEGS OF MULLION (SEE DETAIL C), PLACE APPROPRIATE SHIMS BENEATH SILL MEMBER TO ALLOW FOR BETTER ALIGNMENT, AND ROTATE UNIT INTO PLACE. PLUMB AND ANCHOR.
- 7) REPEAT STEP 6 FOR ALL ADDITIONAL UNITS. MINIMUM 1/4" CAULK JOINT AT JAMB IS REQUIRED FOR INSTALLATION OF FINAL UNIT.

- 8) SYSTEM MAY BE INSTALLED EITHER IN UN-GLAZED OR PREGLAZED FRAMES. WHEN INSTALLING UNITS AS UN-GLAZED FRAMES FOLLOW INSTRUCTIONS 4 THRU 8 AND THEN INSTALL GLASS, NEXT PLACE AN 1/8" SHIM AT MID-HEIGHT OF MULL AND CLAMP BACK OF MULL AT THE SHIM BEFORE RUNNING WEDGE TO HELP INSURE PROPER ALIGNMENT OF MULLS AT FACE OF SYSTEM. WHEN PREGLAZING FRAMES, MAKE SURE THAT UNITS ARE SQUARE AND THAT DAY LIGHT OPENINGS ARE HELD TO PROPER DIMENSIONS BEFORE RUNNING STRUCTURAL SILICONE. (REFERENCE SILICONE MANUFACTURER FOR PROPER CLEANING AND USE OF SILICONE.)



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SHEET
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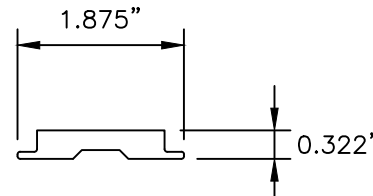
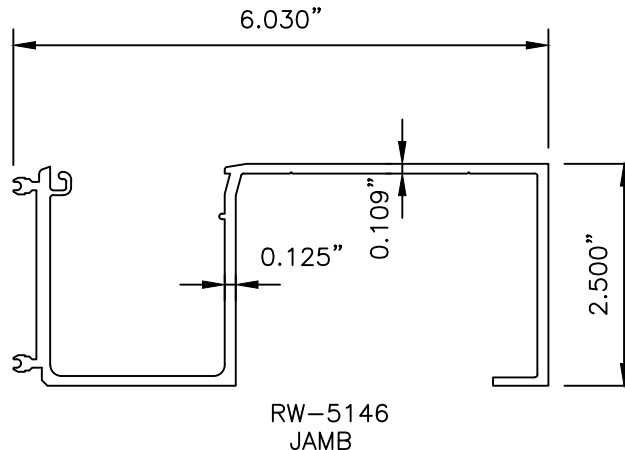
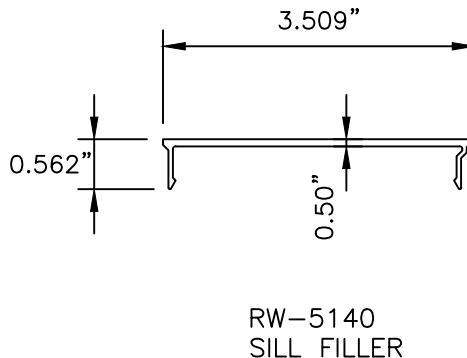
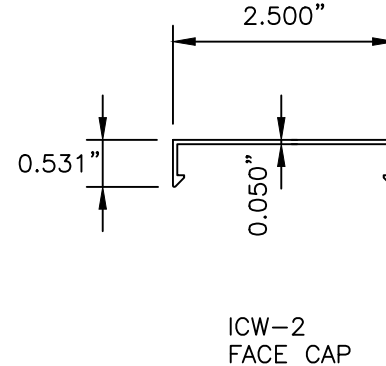
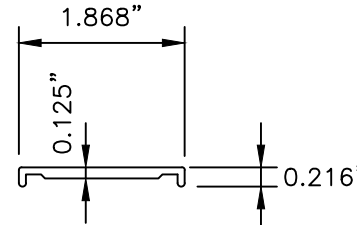
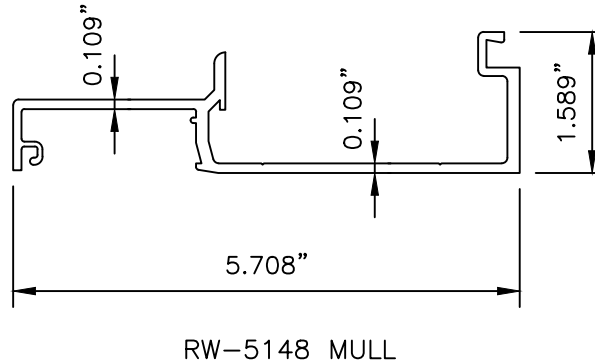
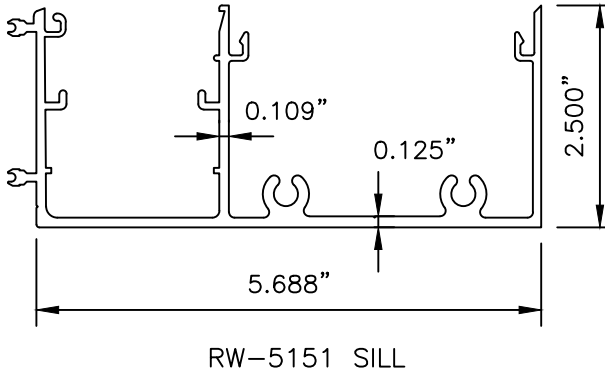
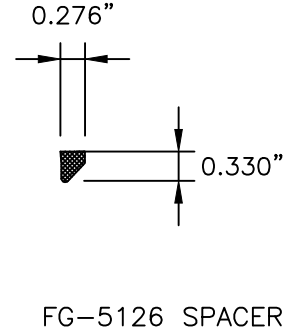
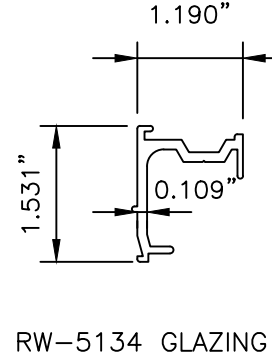
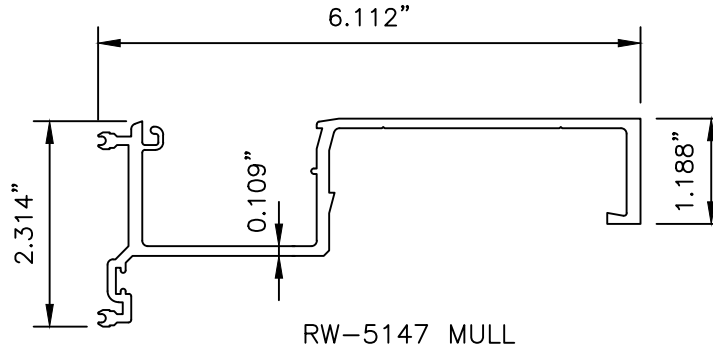
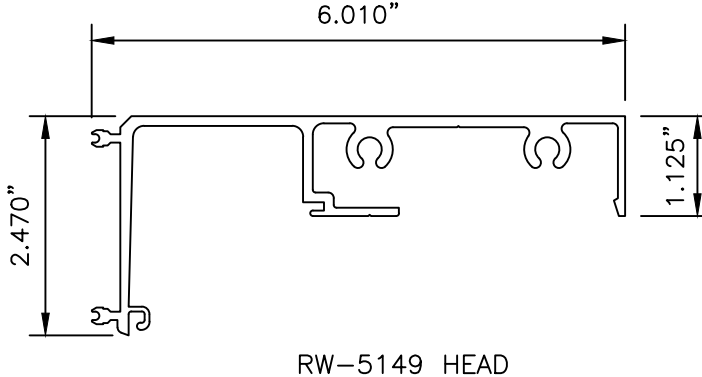
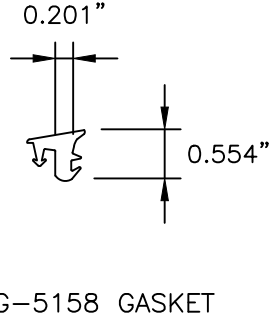
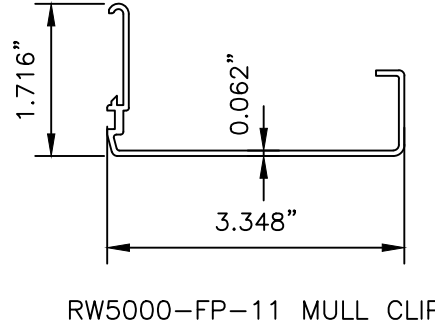
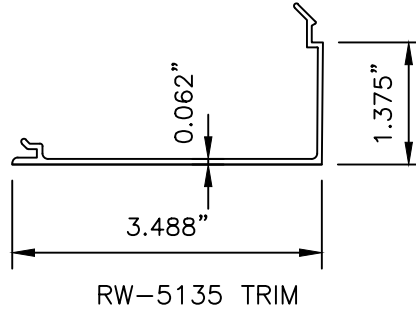
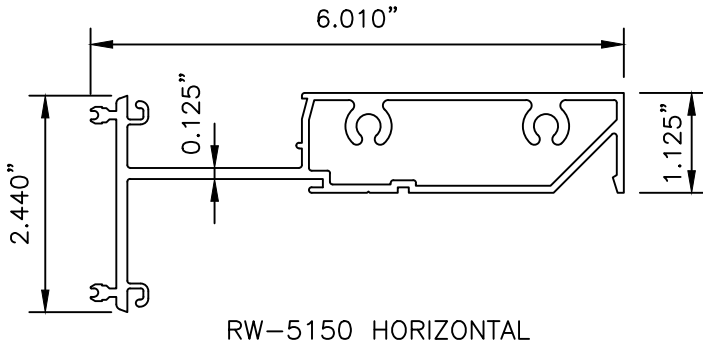
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RW-5100 EXTRUSION PROFILES



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