QUAKER WINDOW PRODUCTS

SERIES E700 THERMALLY BROKEN ALUMINUM HORIZONTAL SLIDING WINDOW (WZ4)(IMPACT)

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. SHIM AS REQUIRED IN ORDER TO ACHIEVE SQUARE AND PLUMB WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
5. **THROUGH FIN:** FOR INSTALLATION INTO 2X WOOD FRAME USE ONE (1) #10 WOOD SCREW PER LOCATION OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
6. **THROUGH FIN:** FOR INSTALLATION THROUGH METAL STUD USE ONE (1) #10 GR. 5 SELF-DRILLING HWH SCREW PER LOCATION OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION THROUGH METAL FRAME SUBSTRATE.
7. **INSTALLATION CLIP:** FOR INSTALLATION INTO 2X WOOD FRAME USE ONE (1) #10 WOOD SCREW PER CLIP OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
8. **INSTALLATION CLIP:** FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/ MASONRY, OR DIRECTLY INTO CONCRETE/ MASONRY, USE ONE (1) 3/16 INCH ITW TAPCON PER CLIP OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
9. **INSTALLATION CLIP:** FOR INSTALLATION THROUGH METAL STUD USE ONE (1) #10 SELF-TAPPING SCREW OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION THROUGH METAL FRAME SUBSTRATE.
10. INSTALLATION CLIP SHALL BE CONTINUOUS AND FASTENED TO WINDOW FRAME WITH #10 GR. 5 HWH SELF-DRILLING SCREWS SPACED AT 6" MAX FROM CORNERS AND 12" MAX O.C.
11. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
12. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
13. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
14. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
15. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
    A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
    B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
    C. MASONRY - CMU UNIT STRENGTH CONFORMS TO ASTM C-90, WITH MIN. COMPRESSIVE STRENGTH OF 2000 PSI.
    D. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 33 MILS. (20 GAUGE)
    E. ALUMINUM - 1/8" MINIMUM THICKNESS (6063-T5).

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
   - AAMA/WDMA/CSA 101/I.S.2/A440-11
   - ASTM E 1886-13a
   - ASTM E 1996-14a
   - AAMA 506-16
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4 OR LESS.
6. WINDOW FRAME MATERIAL: ALUMINUM 6063-T6
7. GLASS SHALL COMPLY WITH THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 4 FOR GLAZING DETAIL.
8. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
   X: OPERABLE SASH
   O: FIXED SASH
9. CUSTOM SIZES AVAILABLE UPON REQUEST.

TABLE OF CONTENTS

SIZE & CONFIGURATION	DESIGN PRESSURE	MISSILE IMPACT RATING
72" X 66" (OX)	+50/-50 PSF	LARGE AND SMALL MISSILE RATED

QUAKER WINDOWS & DOORS
504 HIGHWAY 63 SOUTH
FREEBURG, MO 65582
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: *SERIES E700 THERMALLY BROKEN ALUMINUM HORIZONTAL SLIDING WINDOW (WZ4)(IMPACT)* GENERAL AND INSTALLATION NOTES

PREPARED BY: BUILDING DROPS, INC.
1900 NE Miami Ct Unit 2-15,
Miami, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
6TH ED. FBC UPDATE	EG	04/18
7TH ED. FBC UPDATE	LL	01/21
8TH ED. FBC UPDATE	FB	12/23

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2023.12.21 18:13:09 -05'00'

HERMES F. NORERO LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
1900 NE MIAMI CT UNIT 2-15,
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL14071

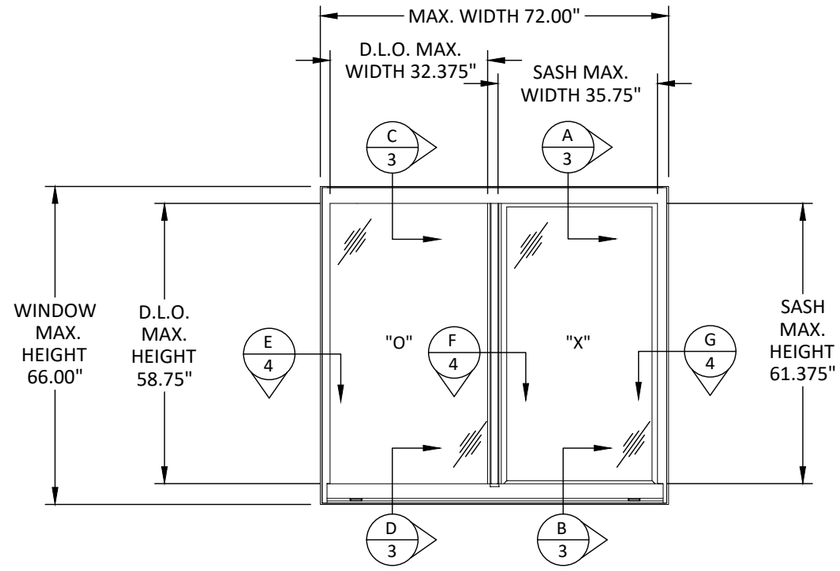
DATE: 04.12.18

DWG. BY: HR | CHK. BY: HFN

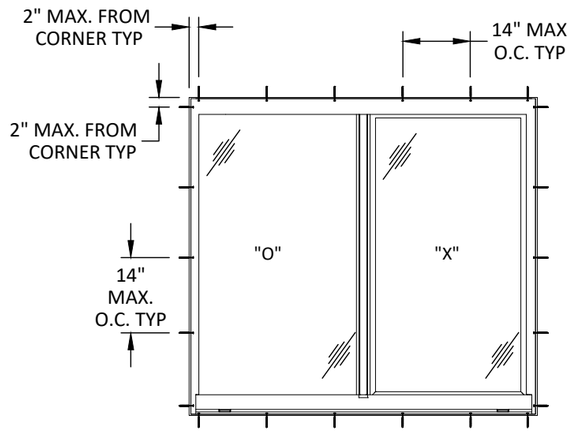
SCALE: NTS

DWG. #: QWP020

SHEET: 1 OF 5



ELEVATION



ANCHOR LAYOUT

THROUGH FIN OR INSTALLATION CLIP

QUAKER WINDOWS & DOORS
504 HIGHWAY 63 SOUTH
FREEBURG, MO 65582
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: *SERIES E700 THERMALLY BROKEN ALUMINUM HORIZONTAL SLIDING WINDOW (WZ4)(IMPACT)* ELEVATIONS AND ANCHOR LAYOUTS

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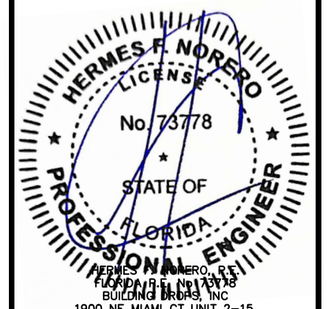

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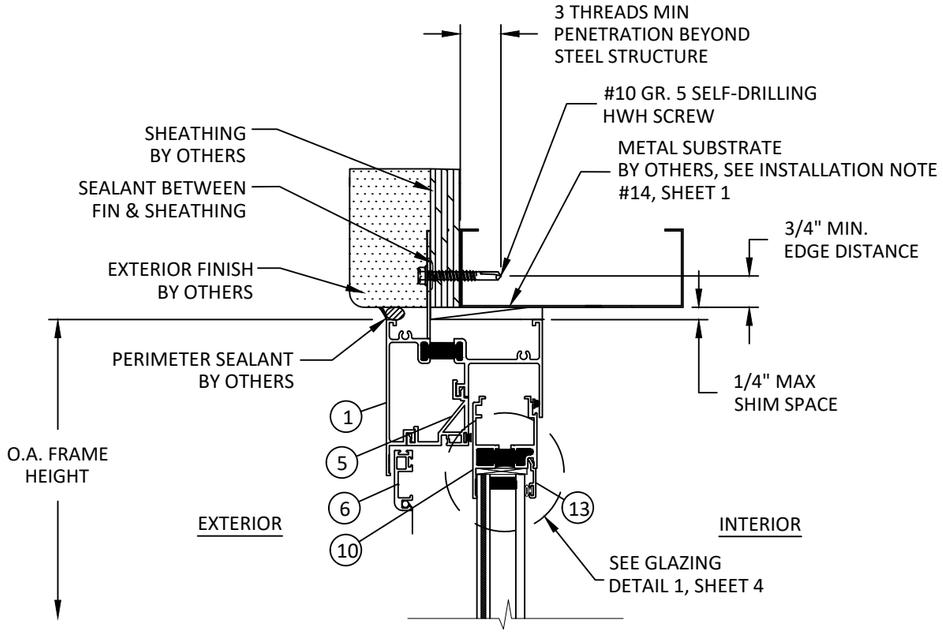
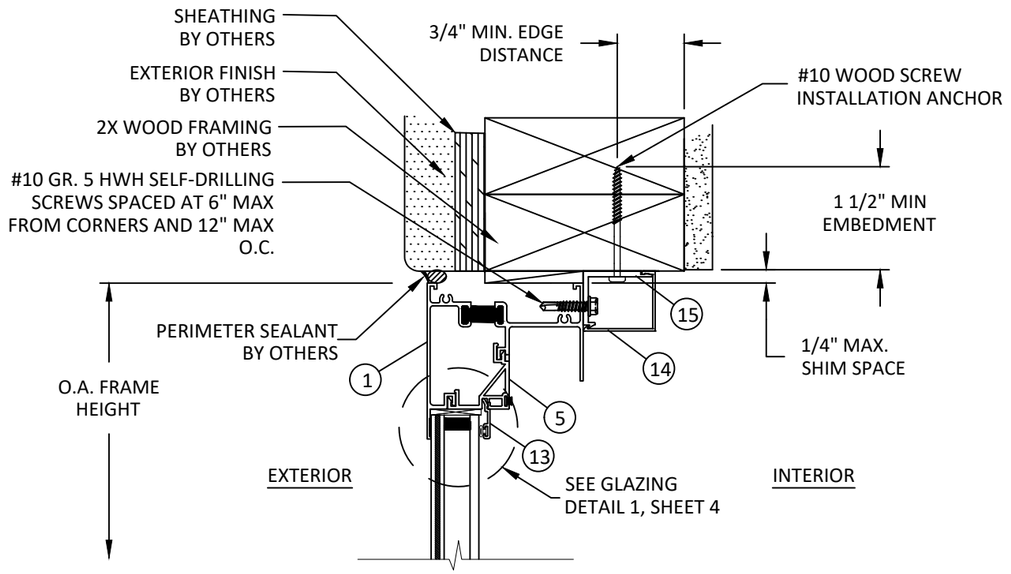


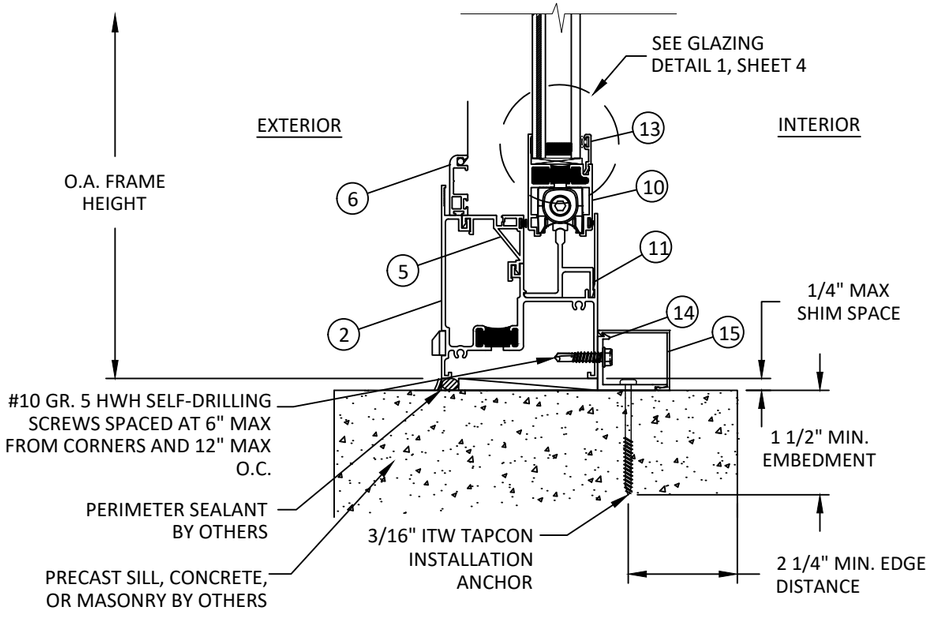
A/3 VERTICAL SECTION

HEAD - METAL SUBSTRATE
NAIL FIN



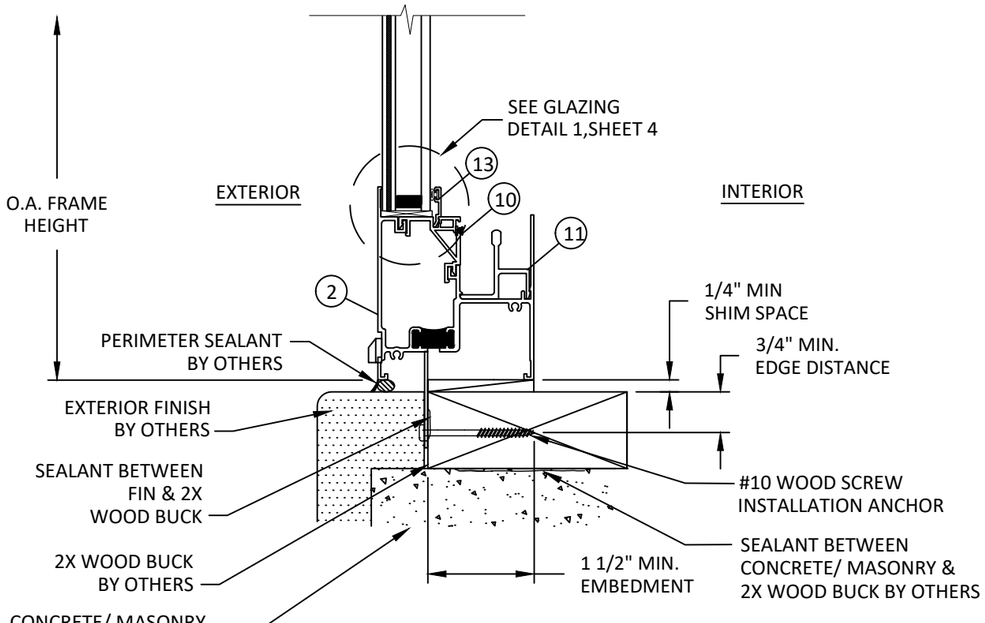
C/3 VERTICAL SECTION

HEAD - 2X WOOD FRAMING
CLIP INSTALLATION



B/3 VERTICAL SECTION

SILL - CONCRETE / MASONRY
CLIP INSTALLATION



D/3 VERTICAL SECTION

SILL - 2X WOOD BUCK
NAIL FIN

QUAKER WINDOWS & DOORS
504 HIGHWAY 63 SOUTH
FREEBURG, MO 65582
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: *SERIES E700 THERMALLY BROKEN ALUMINUM HORIZONTAL SLIDING WINDOW (WZ4)(IMPACT)* VERTICAL SECTIONS

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1900 NE Miami Ct Unit 2-15,
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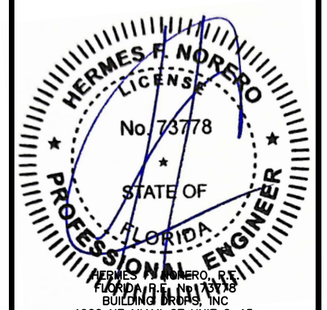

FL #: FL14071

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SCALE: NTS

DWG. #: QWP020

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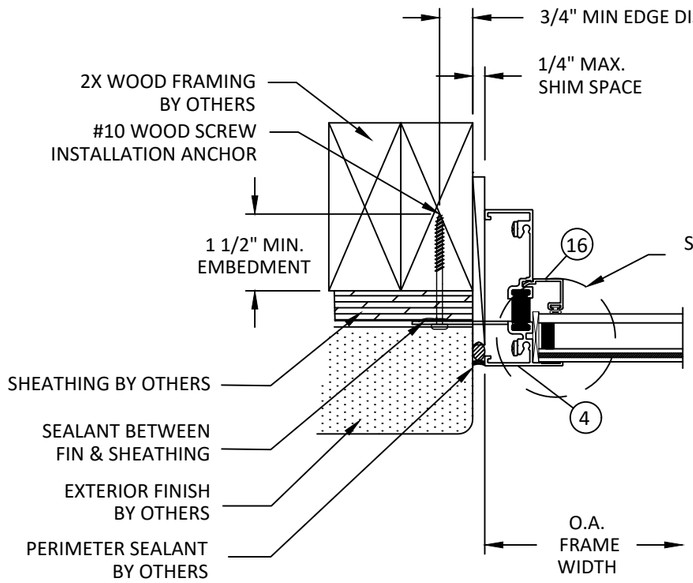
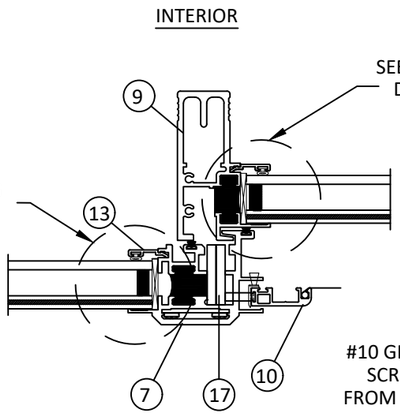


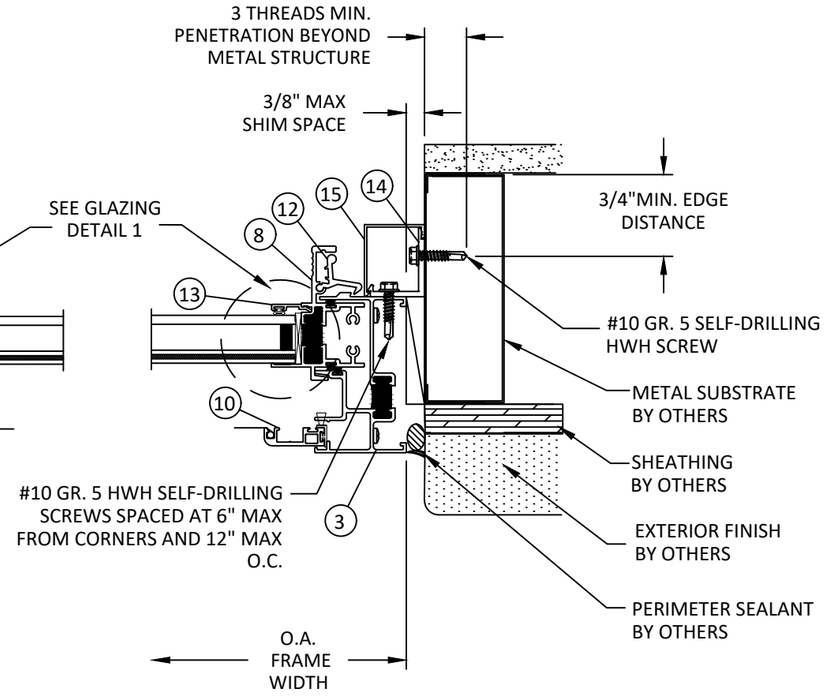
E/4 HORIZONTAL SECTION

JAMB - 2X WOOD FRAMING NAIL FIN



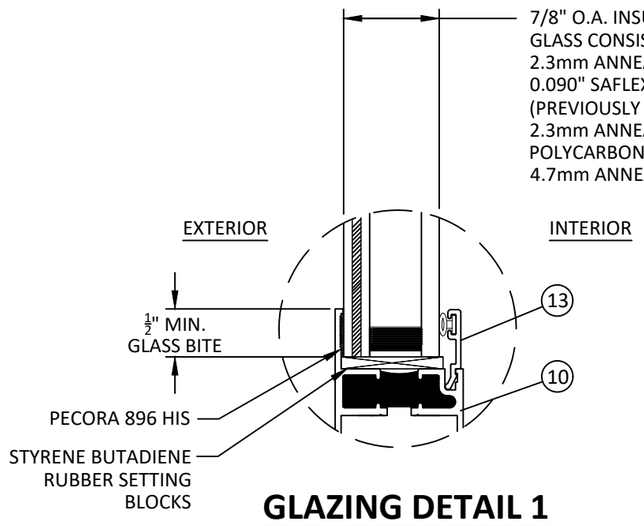
F/4 HORIZONTAL SECTION

MEETING STILE



G/4 HORIZONTAL SECTION

JAMB - METAL SUBSTRATE CLIP



GLAZING DETAIL 1

GLAZING NOTES:

1. GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS.
2. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
3. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
4. GLASS TYPE SHALL COMPLY WITH APPLICABLE GLAZING REQUIREMENTS PER CHAPTER 24 OF THE FBC

QUAKER WINDOWS & DOORS
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TITLE: *SERIES E700 THERMALLY BROKEN ALUMINUM HORIZONTAL SLIDING WINDOW (WZ4)(IMPACT)* HORIZONTAL SECTIONS & GLAZING DETAIL

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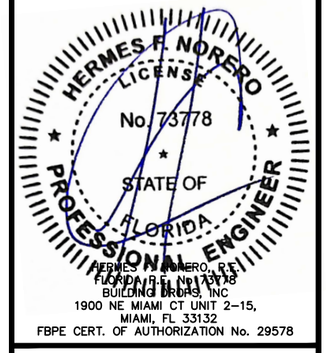

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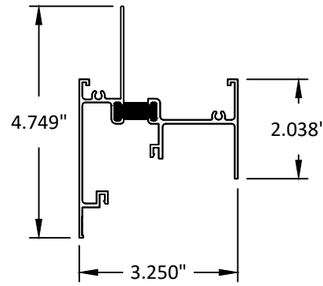
BILL OF MATERIALS

NO.	PART NUMBER	DESCRIPTION	MATERIAL	MANUFACTURER
1	-	HEADER	ALUMINUM 6063-T6	-
2	-	SILL	ALUMINUM 6063-T6	-
3	-	ACTIVE JAMB	ALUMINUM 6063-T6	-
4	-	FIXED JAMB	ALUMINUM 6063-T6	-
5	-	VINYL FILLER	VINYL	-
6	-	SASH RAIL	ALUMINUM 6063-T6	-
7	-	FIXED MEETING STILE	ALUMINUM 6063-T6	-
8	-	LOCK STILE	ALUMINUM 6063-T6	-
9	-	ACTIVE MEETING STILE	ALUMINUM 6063-T6	-
10	-	SCREEN FRAME	ALUMINUM 6063-T6	-
11	-	VINYL TRACK	VINYL	-
12	-	GRAVITY LATCH	ALUMINUM 6063-T6	-
13	-	GLAZING STOP	ALUMINUM 6063-T6	-
14	-	CLIP	ALUMINUM 6063-T6	-
15	-	CLIP COVER	ALUMINUM 6063-T6	-
16	-	FIXED JAMB GLAZING STOP	ALUMINUM 6063-T6	-
17	-	FIXED MEETING STILE REINFORCEMENT	ALUMINUM 6063-T6	-

1 HEAD
ALUMINUM 6063-T6



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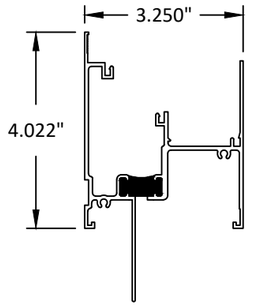
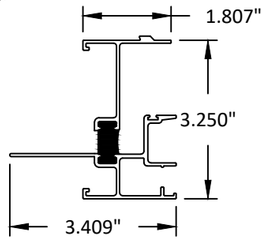
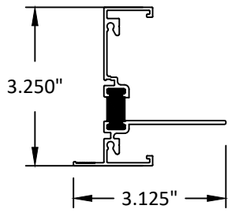
ALUMINUM 6063-T6



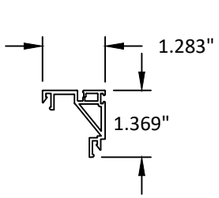
3 ACTIVE JAMB
ALUMINUM 6063-T6



4 FIXED JAMB
ALUMINUM 6063-T6



5 VINYL FILLER
VINYL



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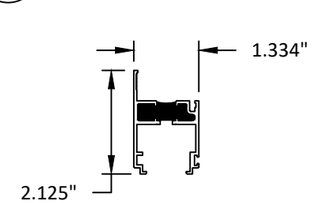
ALUMINUM 6063-T6



7 FIXED MEETING STILE
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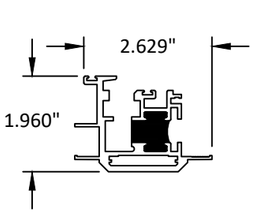

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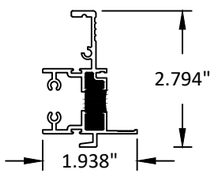

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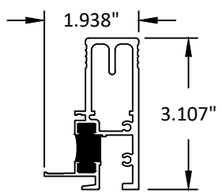

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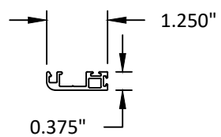

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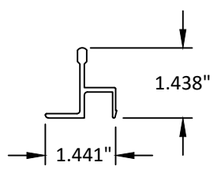
VINYL



12 GRAVITY LATCH
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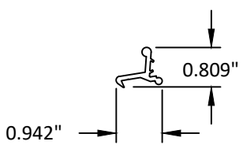
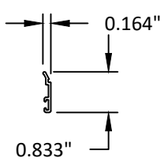
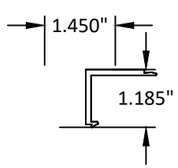


13 GLAZING STOP
ALUMINUM 6063-T6



14 CLIP
ALUMINUM 6063-T6



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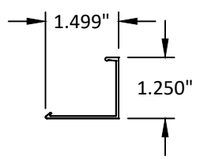
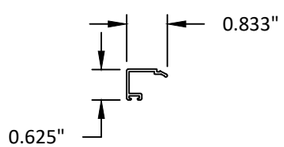
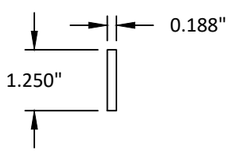
ALUMINUM 6063-T6



16 GLAZING STOP
ALUMINUM 6063-T6



17 FIXED MEETING STILE REINF.
ALUMINUM 6063-T6



QUAKER WINDOWS & DOORS

504 HIGHWAY 63 SOUTH
FREEBURG, MO 65582
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: *SERIES E700 THERMALLY BROKEN ALUMINUM HORIZONTAL SLIDING WINDOW (WZ4)(IMPACT)*
COMPONENTS & BILL OF MATERIALS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE Miami Ct Unit 2-15,
Miami, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
6TH ED. FBC UPDATE	EG	04/18
7TH ED. FBC UPDATE	LL	01/21
8TH ED. FBC UPDATE	FB	12/23

HERMES F. NORIEGA LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
HERMES F. NORIEGA, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
1900 NE MIAMI CT UNIT 2-15,
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL14071

DATE: 04.12.18

DWG. BY: HR | CHK. BY: HFN

SCALE: NTS

DWG. #: QWP020

SHEET: 5 OF 5