

1/2" AIR SPACE CONSISTING OF: SPACER: ALUMINUM BOX SPACER AROUND THE PERIMETER OF THE GLASS. PERIMETER SEALANT: SILICONE DOWSIL 791 SIKASIL SG-20

NOTE:

GLASS CAPACITIES ON THIS SHEET ARE

DECLARATORY STATEMENT DCA05-DEC-219

AND FLORIDA BUILDING COMMISSION

GLAZING DETAILS

SERIES ENV-350 ALUMINUM OUTSWING CASEMENT WINDOW

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF CASMT./CASMT. OR CASEMENT WITH OTHER F.B.C. APPR'D 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) 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 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

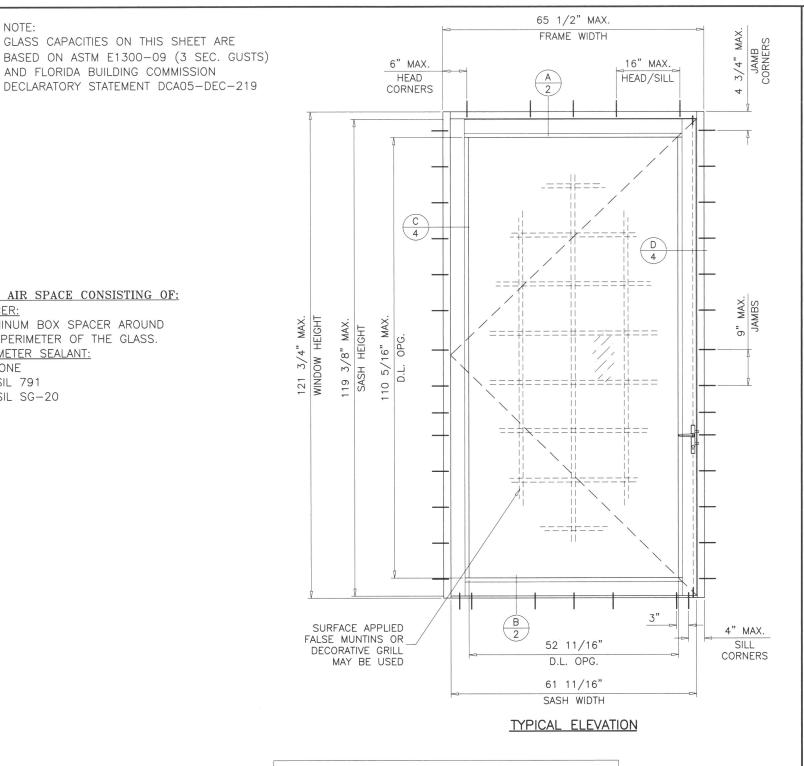
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL

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.

D.L.O. HEIGHT = FRAME HEIGHT - 11.4375" D.L.O. WIDTH = FRAME WIDTH - 12.8125"

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



MAXIMUM DESIGN LOAD RATING = + 120.0 PSF (FOR MAX. SIZE SHOWN ABOVE OR SMALLER) - 120.0 PSF WATER RATING = + 18.0 PSF

- 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
- 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

FL #30035 FLORIDA. sheet 1 of 7

by: drawing no 19-70F

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(C.A.N. 3

CORPORATION DUCT DEVELOPMENT

AL-FAROOQ CORPOR/ ENGINEERS & PRODUCT DEVELOP 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 (C.A.

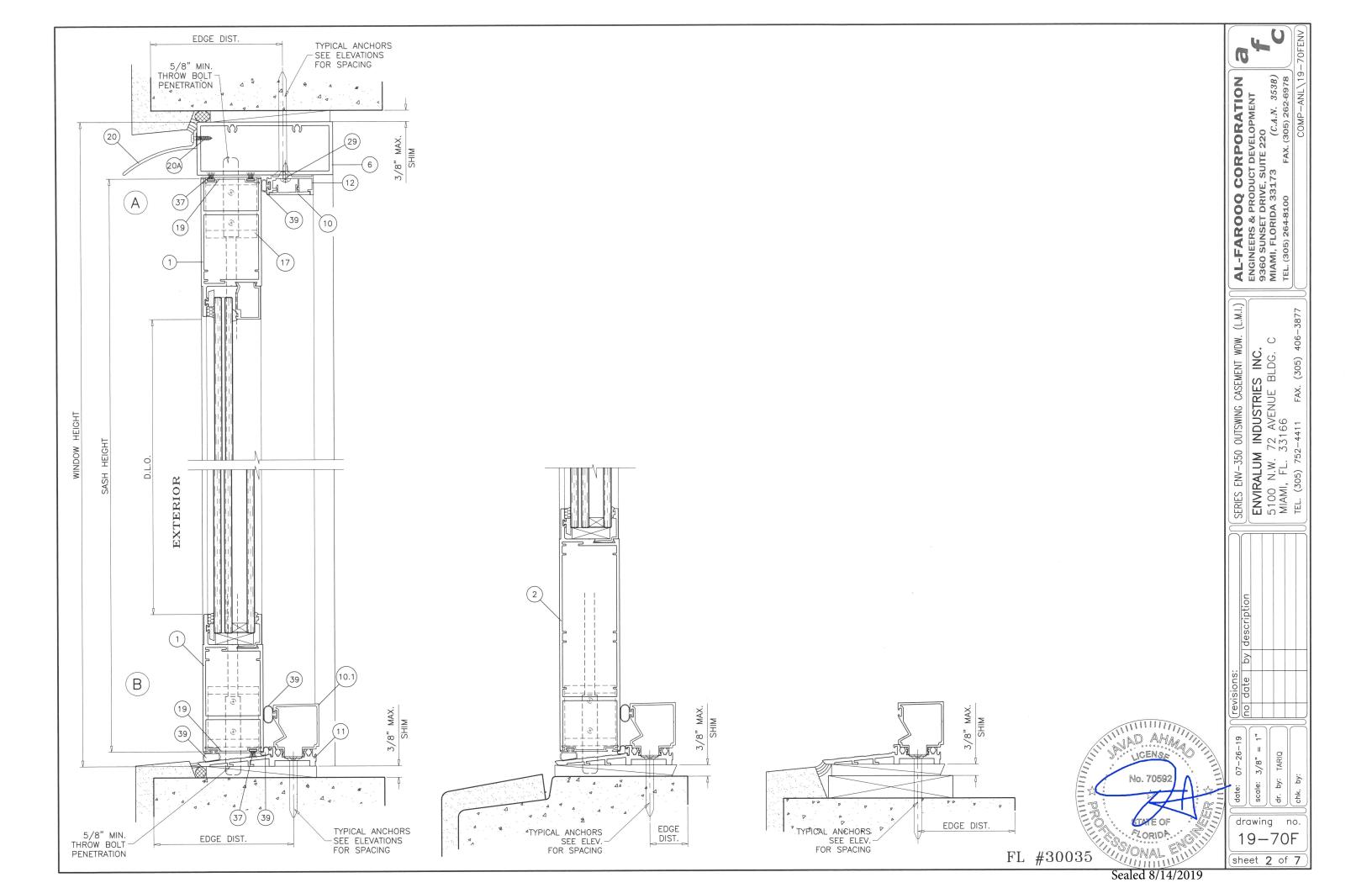
CASEMENT WDW.

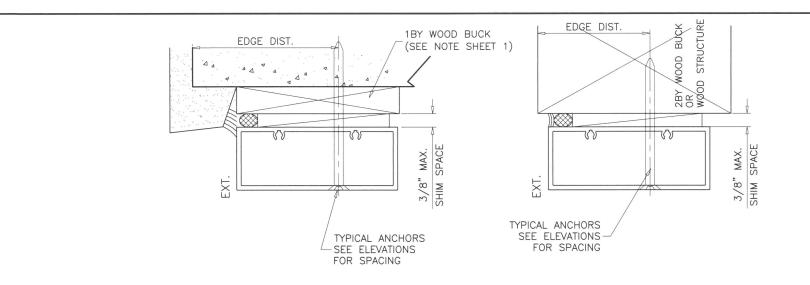
OUTSWING

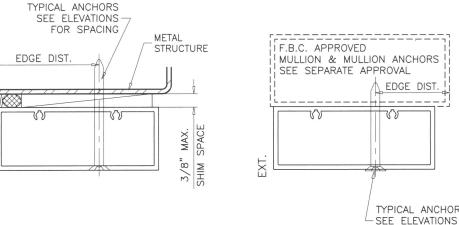
SERIES ENV-350

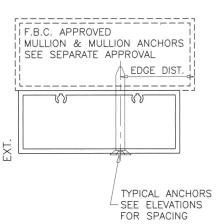
description

ENVIRALUM INDUSTRIES IN 5100 N.W. 72 AVENUE BLDO MIAMI, FL. 33166 TEL. (305) 752-4411 FAX. (305









WOOD BUCKS AND METAL STRUCTURE NOT BY ENVIRALUM MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

5/16" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 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

1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

5/16" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)

INTO F.B.C. APPROVED MULLIONS

AND

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.

CRITICAL CENTERLINE-TO-CENTERLINE DISTANCE

INTO CONCRETE AND BLOCKS = 3" MIN.

INTO WOOD STRUCTURE = 1" MIN.

INTO METAL STRUCTURE = 1" MIN.

No. 70592

19 07-26by: dr. drawing no. 19-70F

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by description

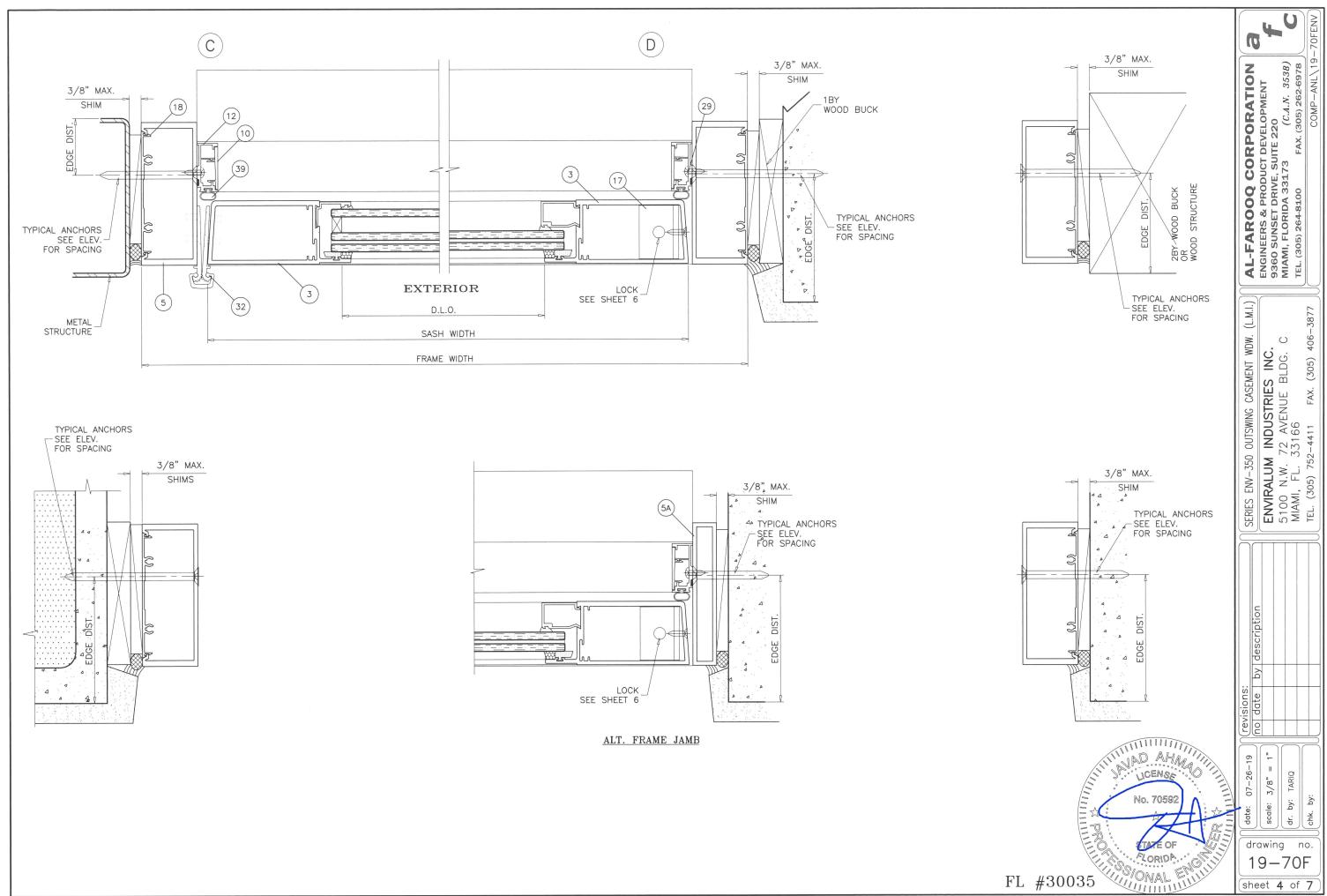
AL-FAROOQ CORPORATIONENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

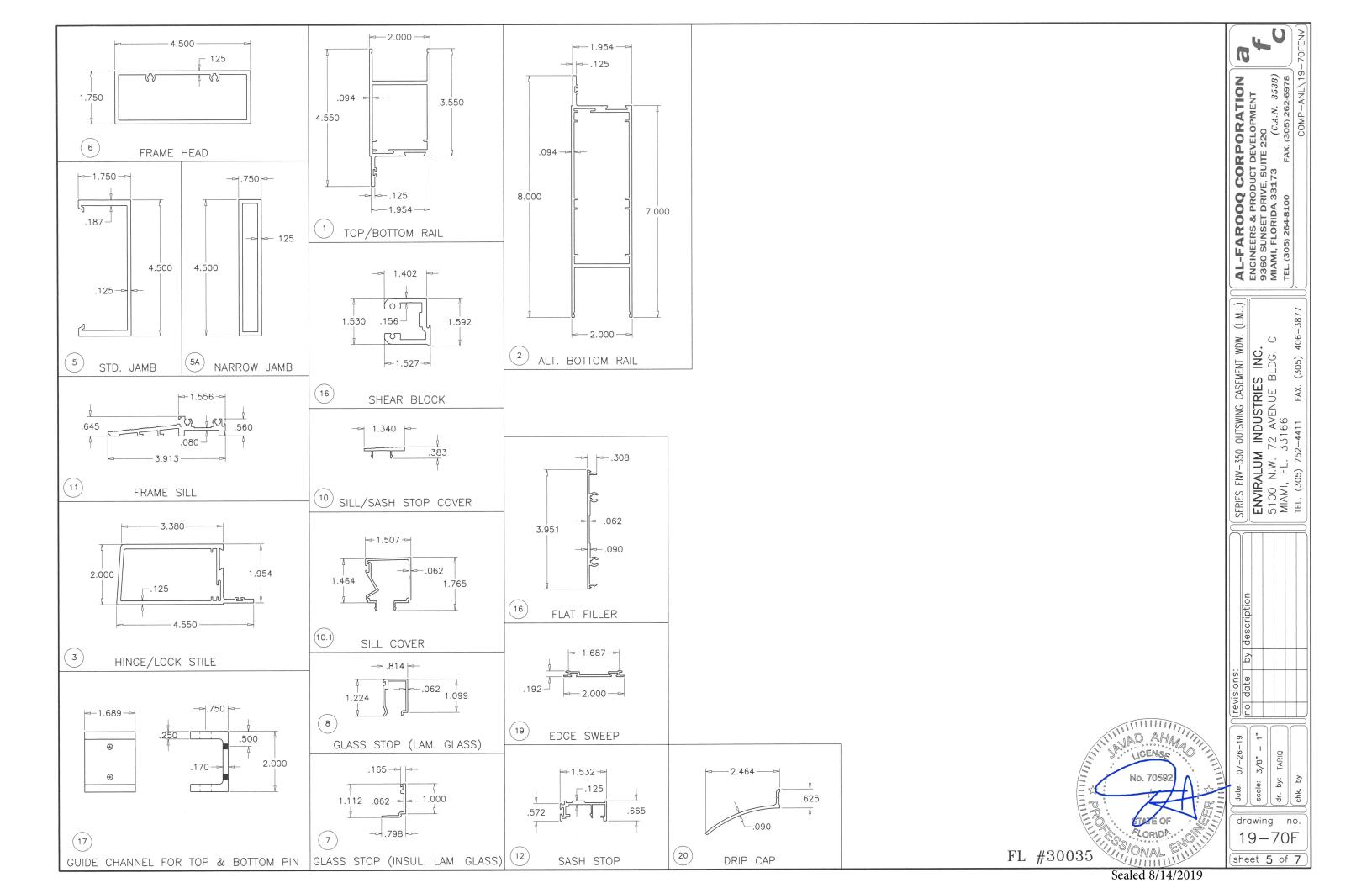
SERIES ENV-350 OUTSWING CASEMENT WDW.

ENVIRALUM INDUSTRIES INC. 5100 N.W. 72 AVENUE BLDG. MIAMI, FL. 33166 TEL. (305) 752-4411 FAX. (305) 4

Sealed 8/14/2019

FL #30035





| ITEM NO. | PART NUMBER | QUANTITY | DESCRIPTION | MATERIAL | MANF./SUPPLIER/REMARKS |
|----------|-------------|------------------|------------------------------------------------------|---------------|--------------------------|
| 1 | ENV-351 | 2/ SASH | TOP/BOTTOM RAIL | 6063-T6 | ENVIRALUM |
| 2 | ENV-352 | 1/ LEAF | ALT. BOTTOM RAIL (8" HIGH) | 6063-T6 | ENVIRALUM |
| 3 | ENV-353 | 1/ SASH | HINGE/LOCK STILE | 6063-T6 | ENVIRALUM |
| 5 | ENV-355 | 2/ SASH | STANDARD JAMB | 6063-T6 | ENVIRALUM |
| 5A | ENV-3517 | 2/ SASH | NARROW JAMB | 6063-T6 | ENVIRALUM |
| 6 | ENV-356 | 1/ SASH | FRAME HEAD | 6063-T6 | ENVIRALUM |
| 7 | ENV-357 | 4/ LITE | GLASS STOP (INSULATED GLASS) | 6063-T6 | ENVIRALUM |
| 8 | ENV-358 | 4/ LITE | GLASS STOP (LAMINATED GLASS) | 6063-T6 | ENVIRALUM |
| 10 | ENV-3510 | AS REQD. | SILL/SASH STOP COVER | 6063-T6 | ENVIRALUM |
| 10.1 | ENV-3518 | AS REQD. | SILL COVER (HI-RISE) | 6063-T6 | ENVIRALUM |
| 11 | ENV-3511 | 1/ SASH | FRAME SILL | 6063-T6 | ENVIRALUM |
| 12 | ENV-3512 | 3/ SASH | SASH STOP | 6063-T6 | ENVIRALUM |
| 16 | ENV-3516 | 1/ SASH CORNER | SHEAR BLOCK | 6063-T6 | ENVIRALUM |
| 17 | ENV-GC01 | 2/ SASH | GUIDE CHANNEL FOR TOP & BOTTOM PIN | 6063-T6 | ENVIRALUM |
| 18 | ENV-454 | AS REQD. | FLAT SNAP, 3" LONG | 6063-T6 | ENVIRALUM |
| 19 | ENV-3522 | AS REQD. | EDGE SWEEP | 6063-T5 | ENVIRALUM |
| 20 | ENV-3524 | AS REQD. | DRIP CAP | 6063-T5 | ENVIRALUM |
| 20A | #8 X 5/8" | AS REQD. | DRIP CAP FASTENERS, AT 3" FROM ENDS & 6" O.C. | ST. STEEL | HWH SELF DRILLING SCREWS |
| 21 | ENV-A02 | AS REQD. | INTERIOR GASKET | EPDM | GLAZING RUBBER PRODUCTS |
| 22 | ENV-A01 | AS REQD. | SPACER GASKET | EPDM | GLAZING RUBBER PRODUCTS |
| 23 | ENV-SB01 | 1/ QUARTER POINT | 3/8" X 1/2" X 2" SETTING BLOCKS, DUROMETER 80±5 | EPDM | GLAZING RUBBER PRODUCTS |
| 24 | ENV-SB02 | 1/ QUARTER POINT | 3/8" X 1-1/4" X 2" SETTING BLOCKS, DUROMETER 80±5 | EPDM | GLAZING RUBBER PRODUCTS |
| 27 | #12 X 1-1/2 | 4/ CORNER | FRAME ASSEMBLY SCREWS | ST. STEEL | HWH SMS, AT 16" O.C. |
| 29 | #8 X 5/8" | AS REQD. | SASH STOP ASSEMBLY SCREWS, @ 3" FROM ENDS & 20" O.C. | ST. STEEL | HWH SMS |
| 32 | SL-21 | 1/ SASH | CONT. GEAR HINGE | ALUMINUM | SELECT PRODUCTS LTD. |
| 32A | PEMKO-FS | 1/ SASH | CONT. GEAR HINGE | ALUMINUM | PEMKO |
| 33 | 1/4-20 X 1" | 10/ SASH | CORNER BLOCK ASSEMBLY | ST. STEEL | HEX HEAD BOLT W/ WASHER |
| 37 | ENV-WP1 | AS REQD. | WOOL PILE W'STRIPPING | TRILOBAL YARN | ULTRAFAB |
| 39 | ENV-BG1 | AS REQD. | BULB W'STRIPPING, (.475 BULB W/ FLAP X .270 BK.) | EPDM | ULTRAFAB |
| | | | | | |
| | | | | | |

LOCK:

3 POINT LOCK SYSTEM BY 'INTERLOCK' AT 40" FROM BOTTOM HANDLE ACTIVATES DEAD BOLT AND SHOOT BOLTS ENGAGING AT HEAD AND SILL
KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR FASTENED TO ACTIVE LEAF LOCK STILE WITH (2) #8-32 X 2" OH MS

HINGE:

CONTINUOUS ALUMINUM HINGE 'PEMKO-FM' OR 'SELECT SL 27' FASTENED TO FRAME JAMB AND TO JAMB STILE WITH (22) #12-24 X 1/2" FH MS SCREWS

SEALANTS:

ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER OF GLAZING BEAD TO FRAME SEALED WITH SILICONE SEALANT.

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revisions:

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