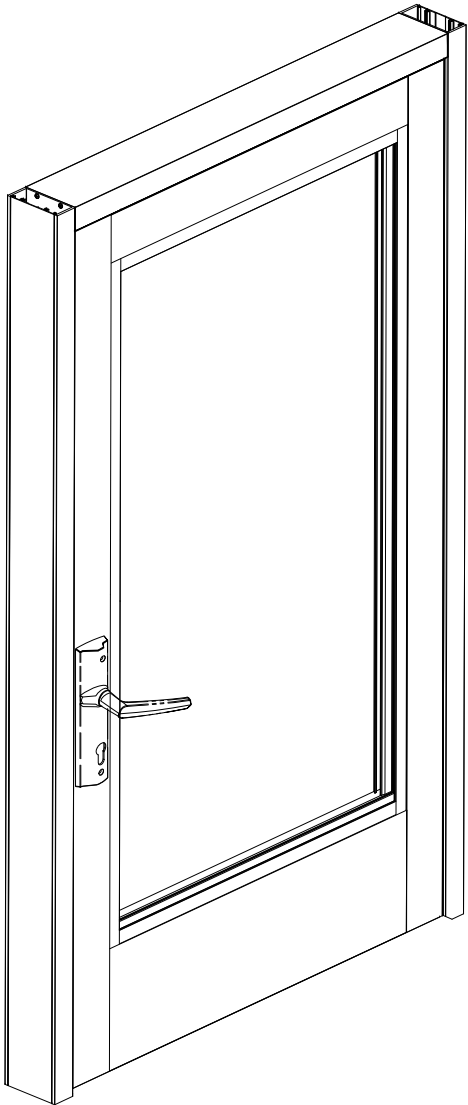


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01	COVER PAGE
02	TYPICAL ELEVATION
03	GLAZING DETAILS
04	SECTION DETAILS
05	SECTION DETAILS
06	ANCHOR DETAILS
07	PROFILE DETAILS
08	PROFILE DETAILS
09	INSTALLATION DETAIL

TO OBTAIN AUTOCAD/REVIT COMPATIBLE DETAILS OF THIS PRODUCT, KINDLY GET IN TOUCH WITH US CONTACTING US VIA OUR OFFICIAL EMAIL ADDRESS: CONTACT@JA-PE.COM.

SERIES ENV-350 ALUMINUM OUTSWING OPERABLE WINDOW

(LARGE & SMALL MISSILE IMPACT)



GENERAL NOTES

1. THIS SYSTEM PRESENTED HEREIN HAS UNDERGONE DESIGN AND TESTING IN FULL COMPLIANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) AND IS INTENDED FOR USE IN HIGH VELOCITY HURRICANE ZONE PER TAS 201/202/203.

2. THE DESIGN PRESSURES OUTLINED IN THIS DOCUMENT ARE DERIVED FROM MAXIMUM TESTED PRESSURES AND INCORPORATE A 1.5 SAFETY FACTOR.

3. THE PRESSURES PROVIDED IN THIS CERTIFICATION ARE DETERMINED USING THE ALLOWABLE STRESS DESIGN METHOD (ASD).

4. THIS PRODUCT HAS BEEN RIGOROUSLY TESTED IN ACCORDANCE WITH THE STANDARDS DESCRIBED IN NOTE 1 OF THE GENERAL NOTES. IT IS CONFIRMED TO BE RESISTANT TO LARGE MISSILE IMPACT, THEREBY NOT NECESSITATING THE USE OF IMPACT-RESISTANT SHUTTERS.

5. THE DESIGN OF THIS SYSTEM DOES NOT INCORPORATE A 33-1/3% INCREASE IN ALLOWABLE STRESS. FOR WOOD ANCHOR DESIGN, A WIND LOAD DURATION FACTOR OF CD=1.6 HAS BEEN EMPLOYED.

6. THE ARCHITECT/ENGINEER OF RECORD RESPONSIBLE FOR THE PROJECT'S SUPERSTRUCTURE, WITH WHICH THIS DESIGN IS ASSOCIATED, SHALL ENSURE THE INTEGRITY OF ALL SUPPORTING SURFACES. COORDINATION WITH THE PERMITTING CONTRACTOR IS REQUIRED, AND PROPER ANCHORING OF WOOD BUCKS (BY OTHERS) MUST FACILITATE LOAD TRANSFER TO THE EXISTING STRUCTURE.
7. THE DETAILS OF THE SYSTEM PROVIDED HEREIN ARE OF A GENERIC NATURE AND DO NOT OFFER SPECIFIC SITE INFORMATION. FOR SITE CONDITIONS THAT DIFFER FROM THOSE SPECIFIED HERE, A LICENSED ENGINEER OR REGISTERED ARCHITECT MUST PREPARE SITE-SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS CERTIFICATION.

8. THE CONTRACTOR IS ACCOUNTABLE FOR INSULATING ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS (E.G., STEEL WITH ALUMINUM).

9. THE SUBSTITUTION OF FASTENERS DESCRIBED IN THIS CERTIFICATION IS PERMISSIBLE, PROVIDED THE ALTERNATIVE ANCHOR EXHIBITS STRENGTH EQUAL TO OR GREATER THAN THE ORIGINALLY SPECIFIED FINAL APPROVAL OF SUBSTITUTED ANCHORS SHALL BE GRANTED BY RELEVANT AUTHORITIES.

10. THE WOOD SCREWS REFERENCED IN THIS CERTIFICATION MUST MEET A MINIMUM GRADE OF 2 (FU = 74,000 PSI).

11. THE ENGINEER'S SEAL AFFIXED HERE VALIDATES THE STRUCTURAL DESIGN AS PRESENTED SOLELY. ANY USE OF THIS SPECIFICATION BY THE CONTRACTOR OR OTHERS INDEMNIFIES AND SAVES THE ENGINEER HARMLESS FROM ALL COSTS AND DAMAGES, INCLUDING LEGAL FEES AND APPELLATE FEES ARISING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THE SCOPE CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES OR DEVIATIONS FROM THE PLAN.

12. NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED BEYOND WHAT IS EXPRESSLY PROVIDED IN THIS DOCUMENT.

13. ALTERATIONS, ADDITIONS, OR ANY MARKINGS TO THIS DOCUMENT ARE STRICTLY PROHIBITED AND WILL INVALIDATE THIS CERTIFICATION.
14. PROPER SAFETY MEASURES MUST BE OBSERVED DURING THE INSTALLATION AND USE OF THIS SYSTEM, EVEN THOUGH THEY ARE NOT EXPLICITLY LISTED IN THIS CERTIFICATION.
15. EACH PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM, CONTAINING THE FOLLOWING REQUIRED INFORMATION:
ENVIRALUM IND. INC.
5100 NW 72 AVE.
UNIT C MIAMI, FL 33166
PHONE: 305.752.4411
FAX: 305.406.3877



JAVAD AHMAD PE, Inc

8800 NW 23rd St
Miami FL 33172
Ph: (305) 424-8001
contact@ja-pe.com

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SERIES ENV-350
ALUMINUM OUTSWING
OPERABLE WINDOW
(L.M.I & S.M.I.)

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DRAWING #		JA-1695-23	

JAVAD AHMAD
LICENSE
No 70592
Eng: JAVAD AHMAD
CIVIL
FLA PE #70592
C.A.N. 34254
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

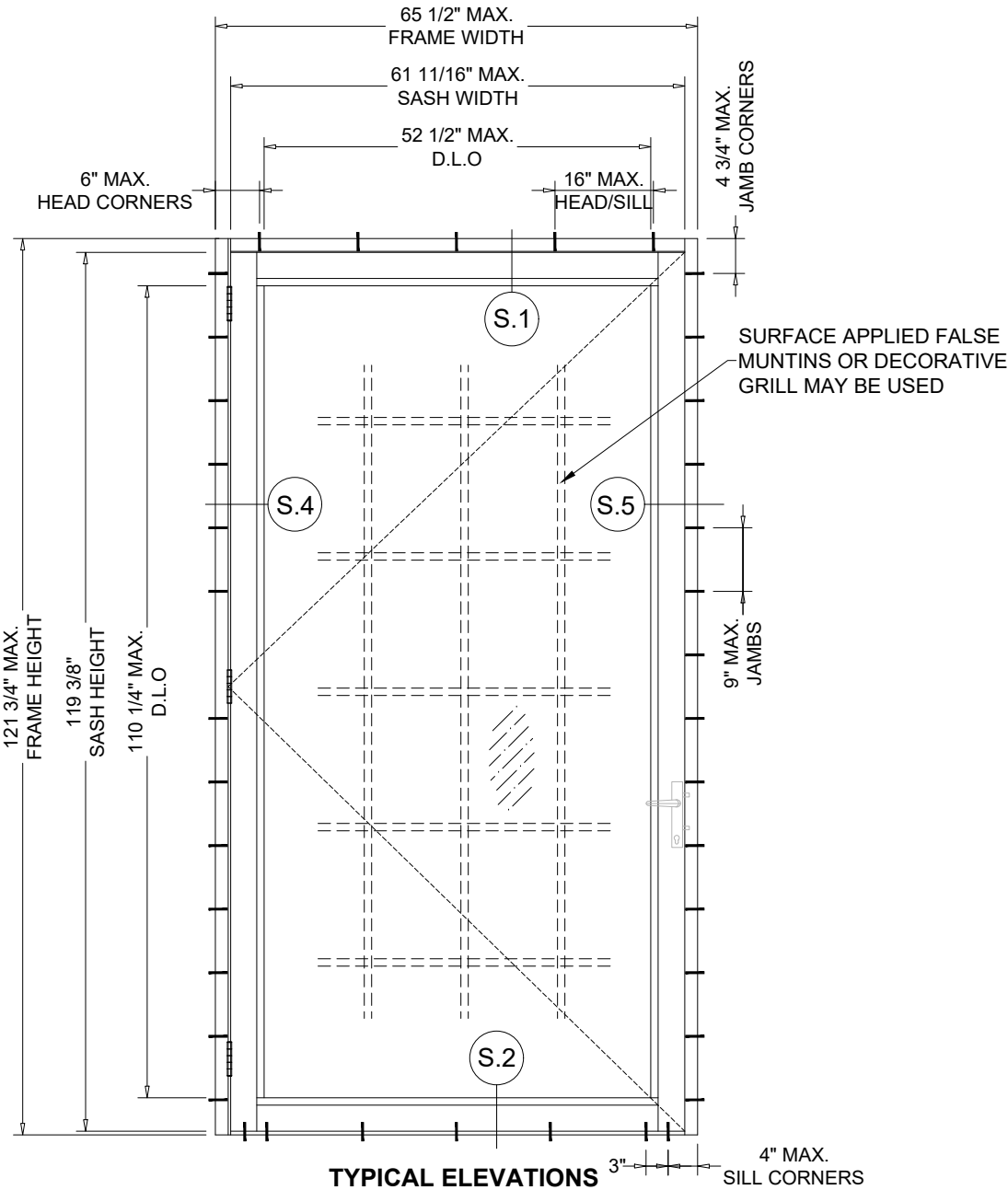
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COVER PAGE	SHEET No. 01 OF 8
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GENERAL NOTES:

- A. APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF WITH OTHER F.B.C APPR'D WINDOWS USING F.B.C. APPROVED MULLIONS IN BETWEEN.
- B. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLIONS APPROVAL WILL APPLY TO ENTIRE SYSTEM.
- C. THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- D. 1BY OR 2BY WOOD BUCKS & BUCKS FASTENERS BY OTHER,MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.
- E. 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.
- F. A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
- G. ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.
- H. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.
- I. 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.
- J. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.
- K. 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)
- L. 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.

- a. CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOSE 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.



GLASS D.L.O. DIMS :
D.L.O. HEIGHT = FRAME HEIGHT - 11.4375"
D.L.O. WIDTH = FRAME WIDTH - 12.8125"
GLASS D.L.O. DIMS :
MAXIMUM DESIGN LOAD RATING = + 120.0 PSF
(FOR SIZES SHOWN ABOVE OR SMALLER) = - 120.0 PSF
WATER RATING = + 18.0 PSF

GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC.GUSTS) AND FLORIDA BUILDING COMMISION DECLARATORY STATEMENT DCA05-DEC-219

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

SEALANT
ALL WINDOW STOP,HINGES,DRIP CAP,FRAME CORNERS, JOINT, MULLION SEAMS AND GLAZING BEAD TO FRAME SEALED WITH SILICONE SEALANT.



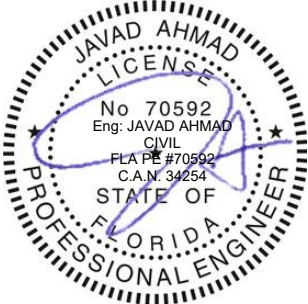
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8800 NW 23rd St
Miami FL 33172
Ph: (305) 424-8001
contact@ja-pe.com

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OPERABLE WINDOW
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drawn by:		M.S.	
check by:		H.T.	
DRAWING #		JA-1695-23	



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TYP. ELEV.

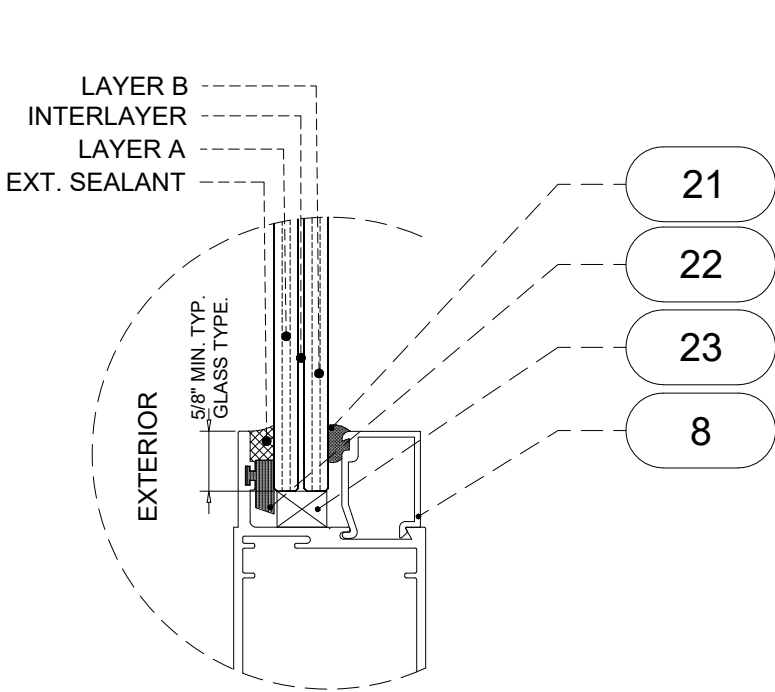
SHEET No.
02 OF 8

FL# 30035.1

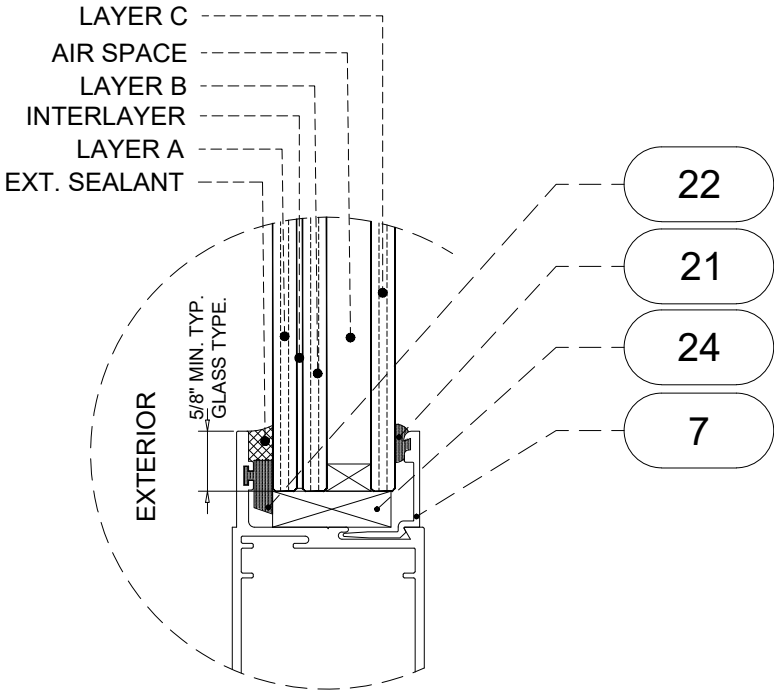
NOTE:

1/2" AIR SPACE CONSISTING OF:
SPACER:
ALUMINUM BOX SPACER AROUND THE PERIMETER OF THE GLASS.

PERIMETER SEALANT:
SILICONE
DOWSIL 791
SIKASIL SG-20



G1 9/16" LAM.GLASS



G2 1-5/16" LAM. INSUL. GLASS

COMPOSITION OF GLASS						
GLASS TYP.	EXT. SEALANT	LAYER A	INTERLAYER	LAYER B	AIR SPACE	LAYER C
G1	SILICONE DOWSIL 995 SIKASIL SG-20	1/4" HEAT STREN'D GLASS	0.090" INTERLAYER SENTRYGLAS BY 'KURARAY AMERICA, INC.'	1/4" HEAT STREN'D GLASS	-	-
G2	SILICONE DOWSIL 995 SIKASIL SG-20	1/4" HEAT STREN'D GLASS	0.090" INTERLAYER SENTRYGLAS BY 'KURARAY AMERICA, INC.'	1/4" HEAT STREN'D GLASS	1/2" AIR SPACE	1/4" TEMP. GLASS



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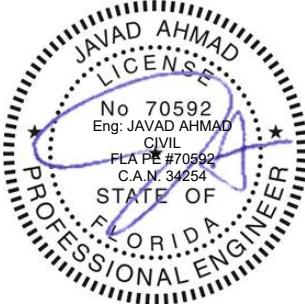
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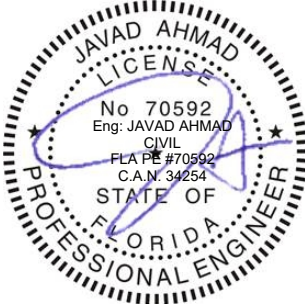
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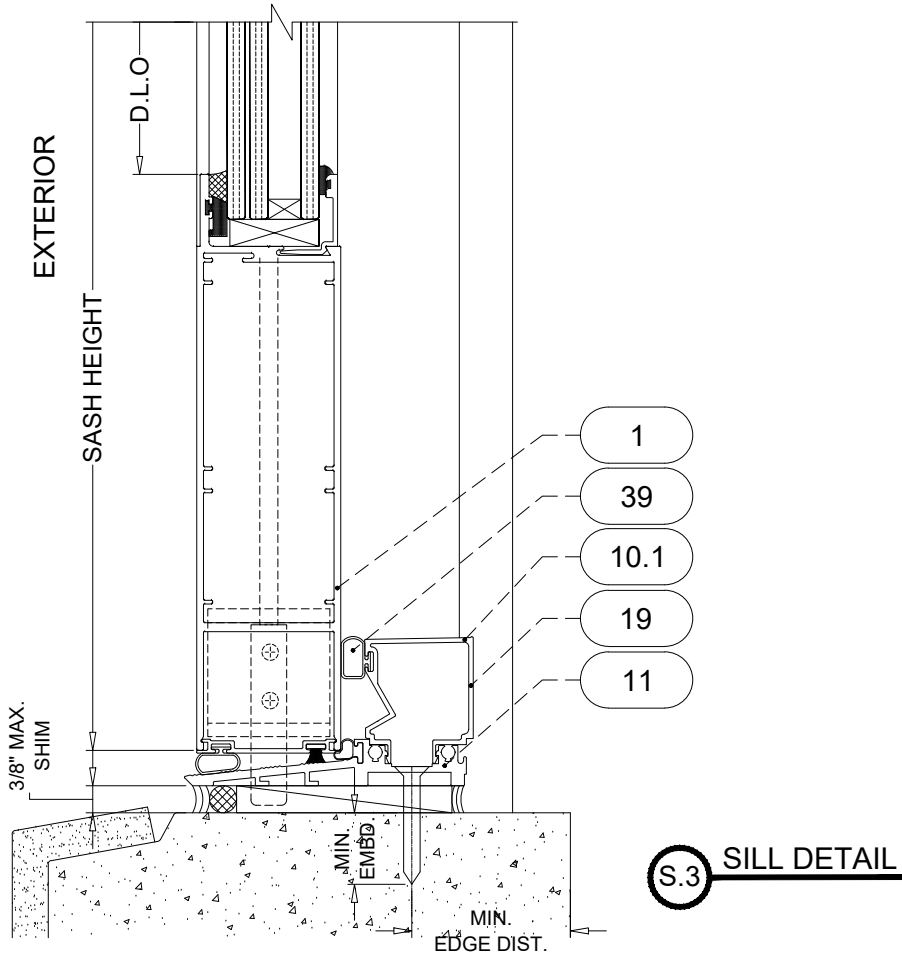
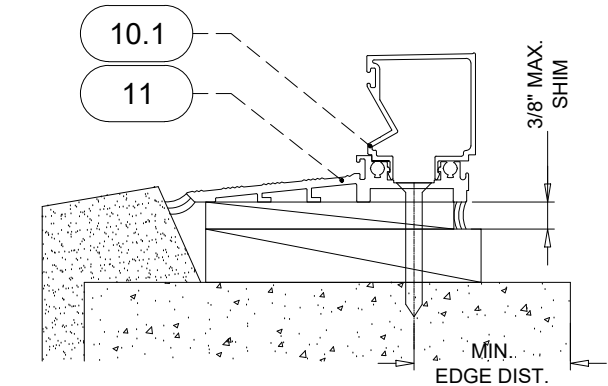
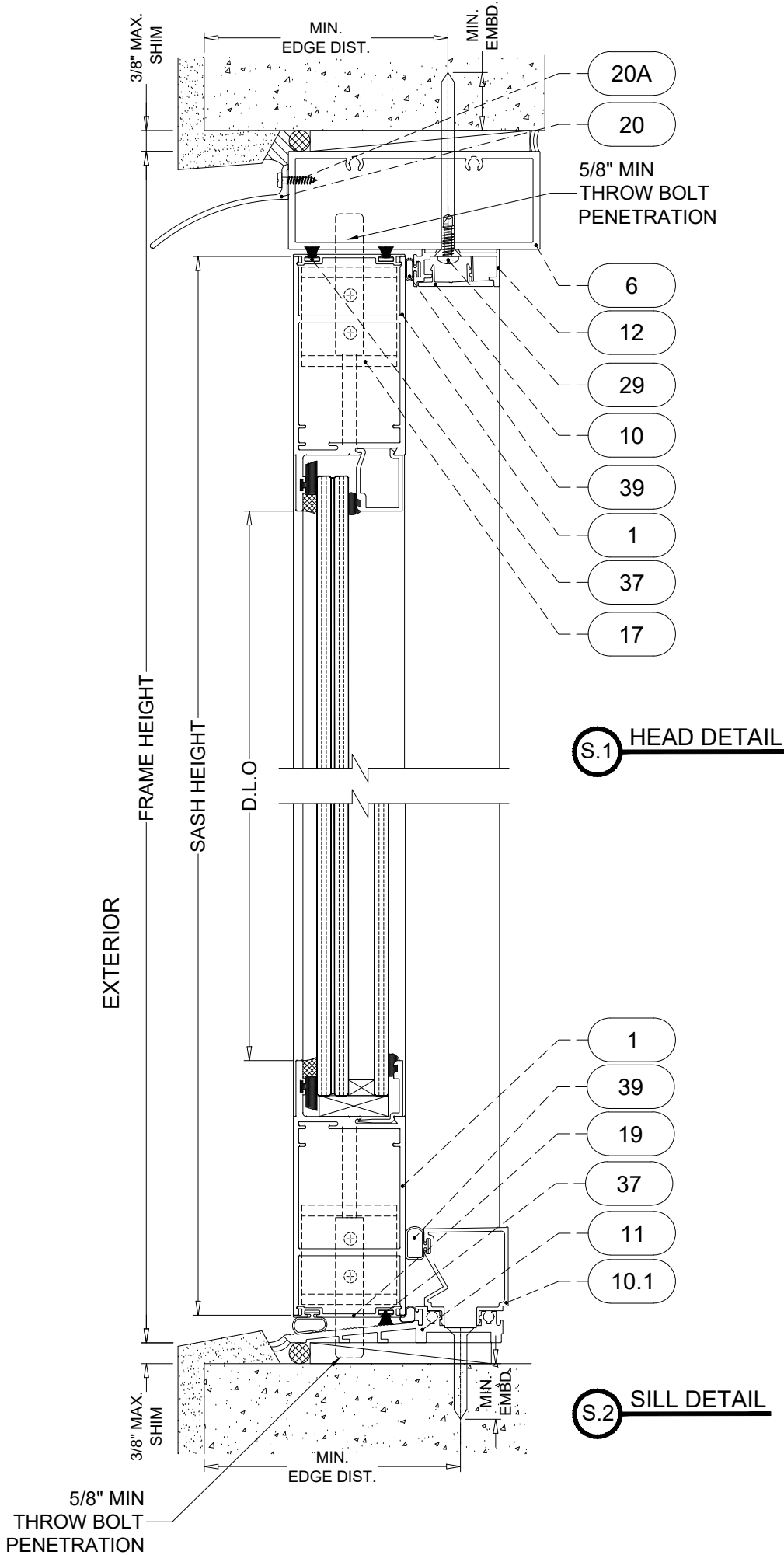
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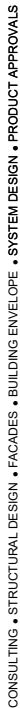
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SEC. DETAILS

SHEET No.
04 OF 8



FL# 30035.1

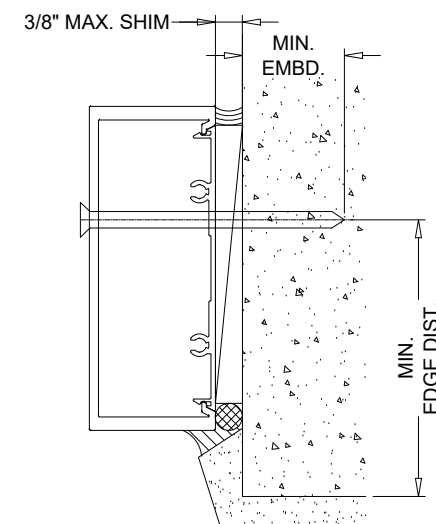
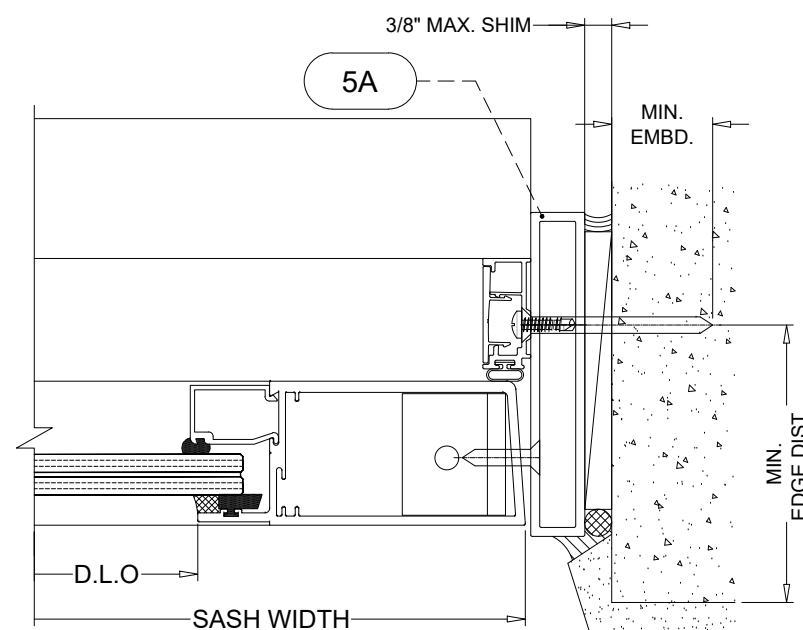
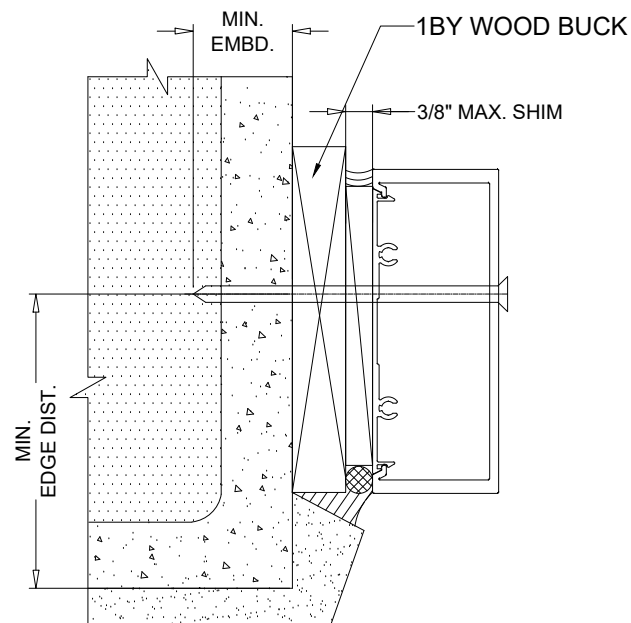
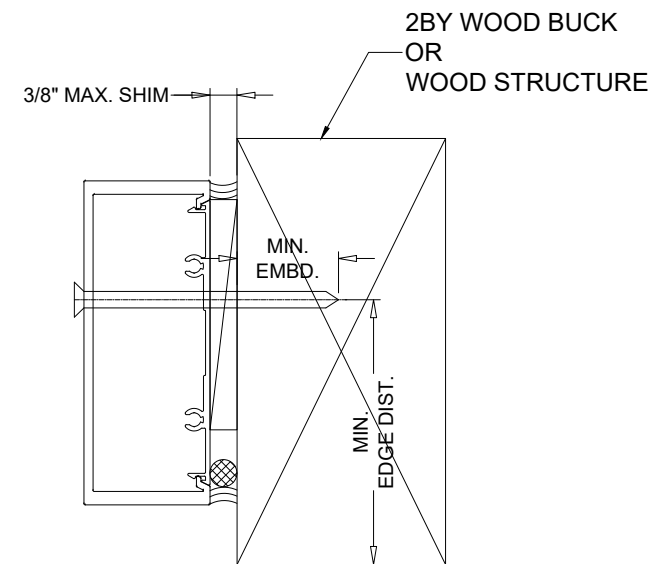
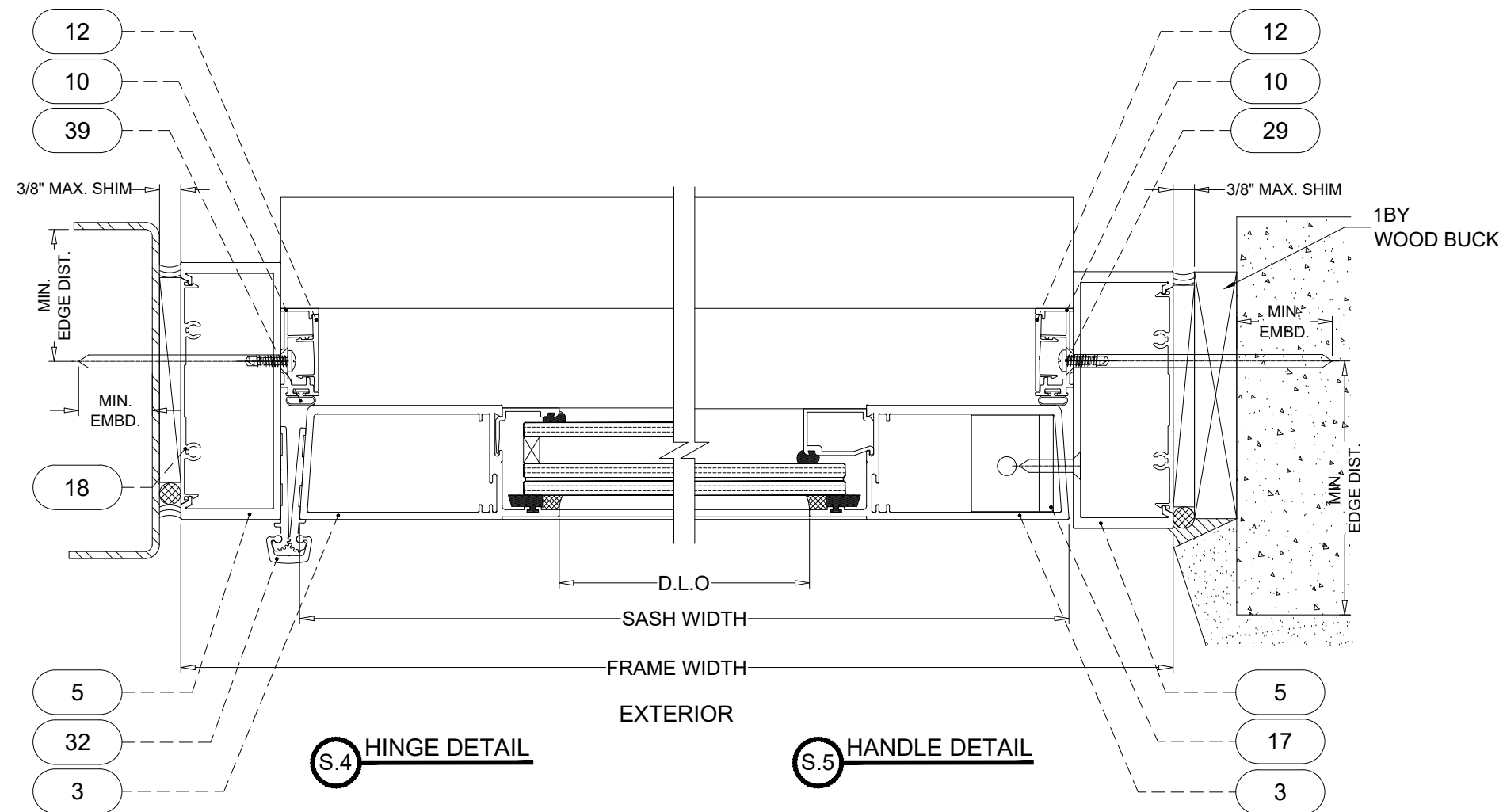


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SHEET No.
4.1 OF 8



FL# 30035.1



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SEC. DETAILS

SHEET No.
05 OF 8

TYPICAL ANCHORS:

A

5/16" DIA ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
INTO 2BY WOOD BUCKS STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD / SILL / JAMBS)

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

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

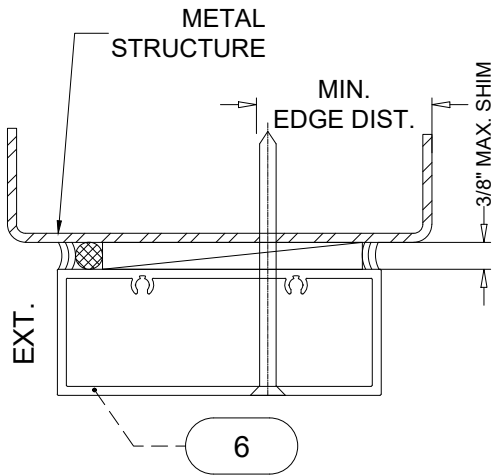
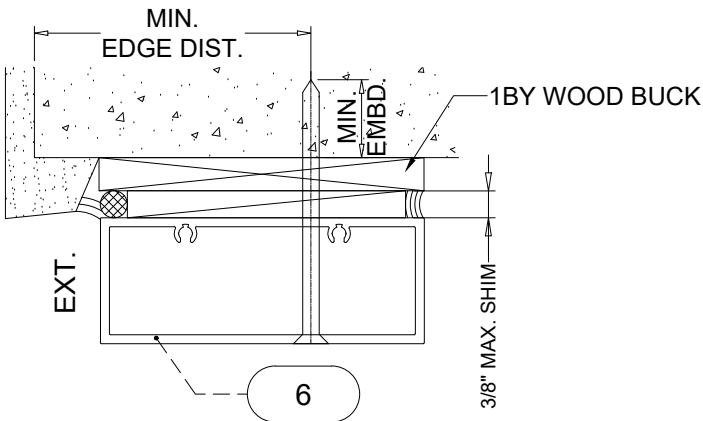
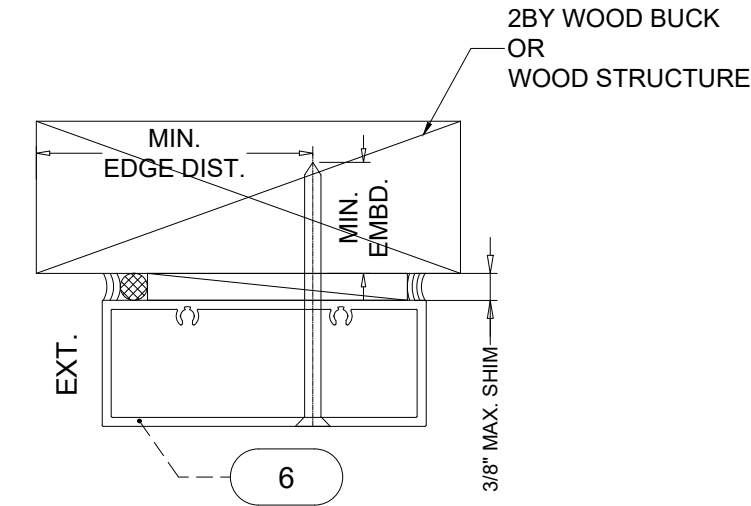
B

5/16" DIA TEKS OF SELF- DRILLING SCREWS (GRADE 5 CRS)
INTO 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)

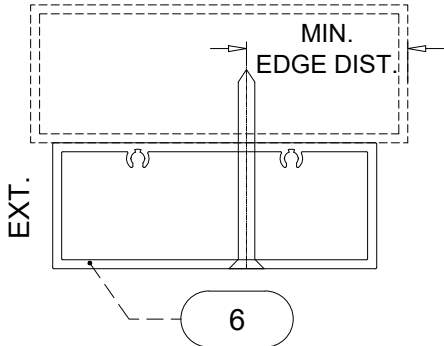
CRITICAL EDGE DISTANCE:
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

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.

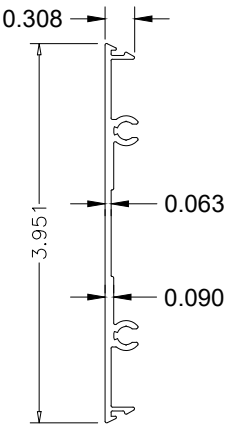
CRITICAL CENTERLINE-TO-CENTERLINE DISTANCE:
INTO CONCRETE AND BLOCKS = 3" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 1" MIN.



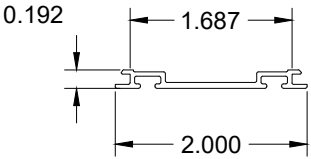
F.B.C. APPROVED
MULLION & MULLION ANCHORS
SEE SEPARATE APPROVAL



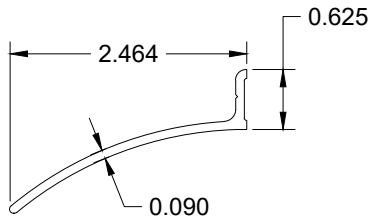
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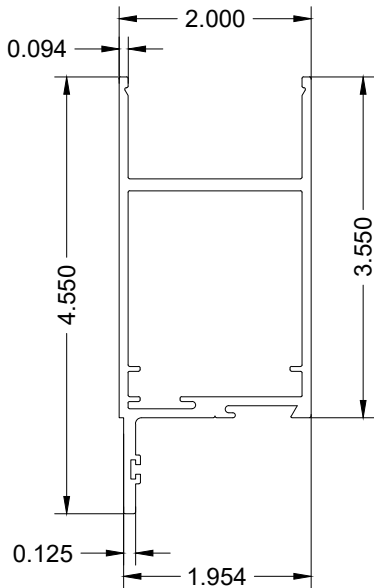
18 FLAT FILLER



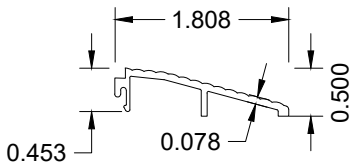
19 EDGE SWEEP



20 DRIP CAP



1 TOP/BOTTOM RAIL



9 RAMP THRESHOLD
SCALE = 6" = 1'-0"



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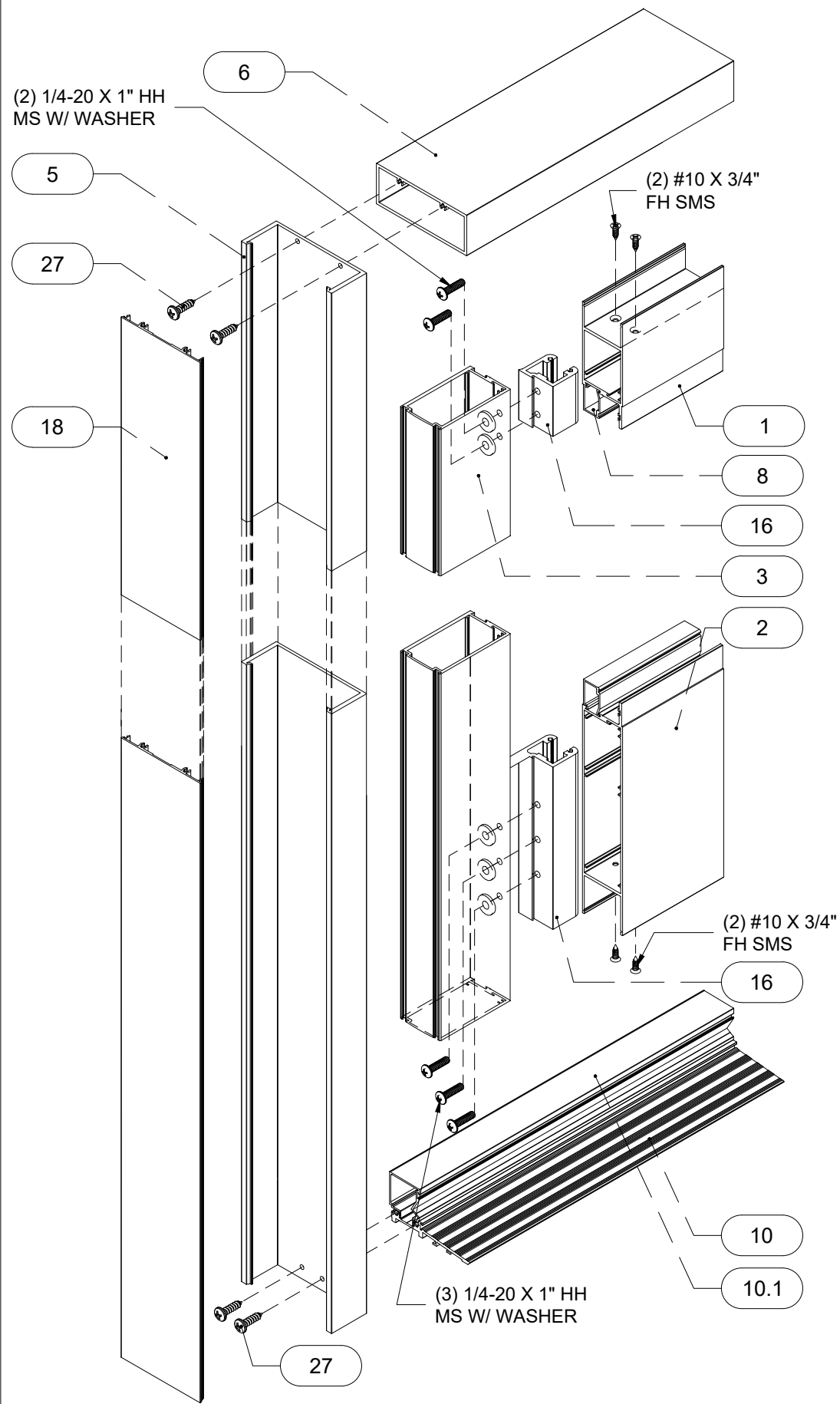


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ANCHORS SPECS

SHEET No.
06 OF 8

FL# 30035.1



INSTALLATION DETAIL

BILL OF MATERIALS					
ITEM NO.	PART NO.	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMA RKS
1	ENV-351	2/ SASH	TOP / BOTTOM RAIL	6063-T6	ENVIRALUM
2	ENV-352	1/ LEAF	ALT.BOTTOM RAIL (8" HIGH)	6063-T6	ENVIRALUM
2.1	ENV-3521	1/ LEAF	ALT.BOTTOM RAIL (10" 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	ENVIRALIUM
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
9	ENV-3527	AS REQD.	FRAME SILL (RAMP TYPE)	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	CLAZING RUBBER PRODUCTS
22	ENV-A01	AS REQD.	SPACER GASKET	EPDM	CLAZING RUBBER PRODUCTS
23	ENV-SB01	1/QUARTE RPOINT	3/8" X 1-1/2" X 2" SETTING BLOCKS, DUROMETER 80±5	EPDM	CLAZING RUBBER PRODUCTS
24	ENV-SB02	1/QUARTE RPOINT	3/8" X 1-1/4" X 2" SETTING BLOCKS, DUROMETER 80±5	EPDM	CLAZING 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 ASSEM8LY	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

3 POINT LOCK SYSTEM BY 'REGENT' 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



JAVAD AHMAD PE, Inc

8800 NW 23rd St
Miami FL 33172
Ph: (305) 424-8001
contact@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

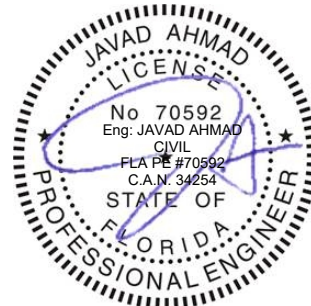
SERIES ENV-350
ALUMINUM OUTSWING
OPERABLE WINDOW
(L.M.I & S.M.I)

ENVIRALUM IND. INC.
5100 NW 72 AVE.
UNIT C MIAMI, FL 33166
PHONE: 305.752.4411
FAX: 305.406.3877

REVISION

No.	DATE	BY	DESCRIPTION

date:	11-21-2023
scale:	
drawn by:	M.S.
check by:	H.T.
DRAWING #	JA-1695-23



Sealed: 02.15.24

PROFILES

SHEET No.
08 OF 8

FL# 30035.1