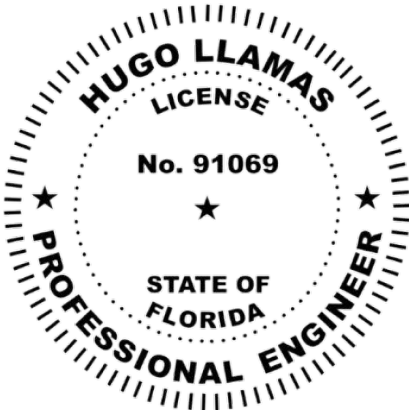


PRODUCT DEVELOPMENT

120 ALUMINUM WINDOW WALL SYSTEM

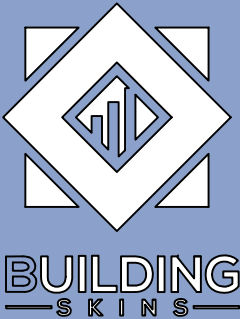
PRODUCT APPROVAL DRAWINGS



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Llamas

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19:47:18 -04'00'



6135 NW 167th St. STE E-1
Miami Gardends, FL 33015
Ph. (305) 698-0550

SERIES "120"
ALUMINUM WINDOW
WALL SYSTEM
LARGE MISSILE IMPACT (L.M.I.)

ALUCORP SA DE CV
CA. 2 TABLAJE 17439
INTERIOR C
MÉRIDA, YUCATÁN,
MÉXICO
Ph. 9996-11-63-54
Contacto@interalum.com

DRAWINGS NUMBER
25-0055P

REVISIONS:

No.	Date	Description

DATE:
August 18th, 2025

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Sheet No. 00 OF 07	SHEET NO. Cover

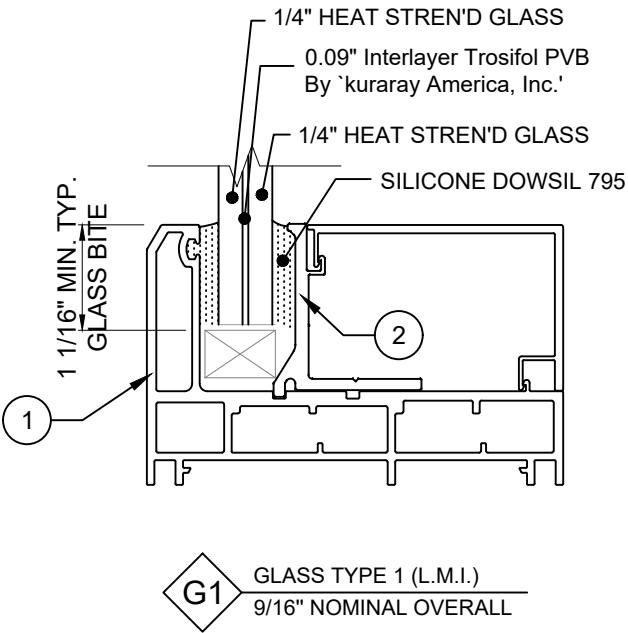
120 ALUMINUM WINDOW WALL SYSTEM

GENERAL NOTES

- A. THE PRODUCT SHOWN HEREIN IS DESIGNED AND TESTED TO COMPLY WITH THE FLORIDA BUILDING CODE 8TH EDITION 2023 (FBC 2023), INCLUDING HVHZ (HIGH VELOCITY HURRICANE ZONE)
- B. ADEQUACY OF THE EXISTING STRUCTURAL SUBSTRATE (METAL, CONCRETE, MASONRY, WOOD, ETC) NEEDS TO BE ABLE TO WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- C. WOODBUCKS EITHER 1BY OR 2BY (OPTIONAL) NEED TO BE DESIGNED AND SPECIFIED BY THE ARCHITECT OF RECORD OR THE ENGINEER OF RECORD AND NEED TO BE ABLE TO WITHSTAND ALL THE TRANSFERRED LOADS FROM THE GLAZING PRODUCT CORRECTLY.
- D. ALL ANCHORS NEED TO BE CORROSION RESISTANT, SEE PRODUCT APPROVAL FOR SPECIFIED ANCHORS REQUIRED.
- E. ALL DESIGN LOADS SHOWN IN APPROVAL ARE BASED ON ASD (ALLOWABLE STRESS DESIGN), TO GET ULTIMATE LOADS ASD LOADS NEED TO BE MULTIPLIED BY A FACTOR MULTIPLIER OF 1.6
- F. FINAL PRODUCT NEED TO HAVE LABEL.
- G. THESE GLAZING PRODUCTS ARE RATED FOR LARGE MISSILE IMPACT (L.M.I.)
- H. ALL SITE SPECIFIC CONDITIONS IN ANY PROJECT NEEDS TO BE PROCURED BY A LICENSED REGISTERED ENGINEERED OR ARCHITECT.
- I. WHEN USING THIS PRODUCT, SHUTTERS ARE NOT NECESSARY.
- J. SHIMS THAT ARE USED WITH THIS SYSTEM NEED TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.
- K. THIS PRODUCT APPROVAL COMPLIES WITH ALL WATER INFILTRATION REQUIREMENTS FOR IMPACT AND HVHZ SYSTEMS
- L. MANUFACTURER NEEDS TO SHOW PRODUCT LABEL IN ALL MANUFACTURED SYSTEMS.

MAXIMUM DESIGN LOADS

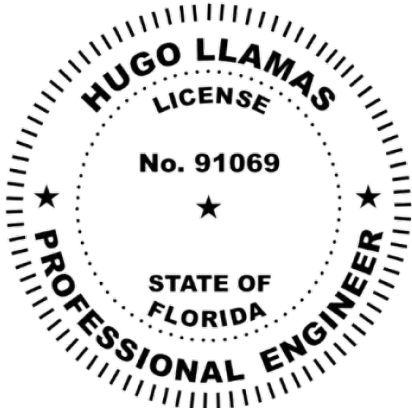
- A. SHEET 05 CONTAINS THE MAXIMUM DESIGNED LOADS.
- B. ANCHORS SPACING ARE SHOWN IN SHEET 02 GLAZING ELEVATIONS.
- C. ANCHOR TYPES ARE SHOWN ON SHEET 04. THIS SHEET SHOWS THE EDGE DISTANCE, EMBEDMENT, TYPE OF ANCHOR, AND ALL REQUIREMENTS ANCHORES NEED TO COMPLY WITH THESE SPECIFICATIONS



GLASS CONFIGURATION FOR ALUMINUM WINDOW WALL
FOR DESIGN LOADS CAPACITIES SEE CHARTS

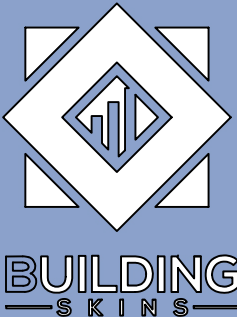
GLASS DESIGN NOTES

- A. ALL GLASS CAPACITIES ON THIS APPROVAL ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS)
- B. ALL GLASS SHOWN ON THIS APPROVAL HAS BEEN TESTED FOR LMI AND HVHZ REQUIREMENTS.
- C. ALL SETTING BLOCKS FOR THE GLASS TO BE LOCATED AT 25% OF THE SPAN WIDTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24
- D. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24
- E. GLASS TYPE SHALL COMPLY WITH APPLICABLE GLAZING REQUIREMENTS PER CHAPTER 24 OF THE FBC.



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SERIES "120"
ALUMINUM WINDOW
WALL SYSTEM
LARGE MISSILE IMPACT (L.M.I.)

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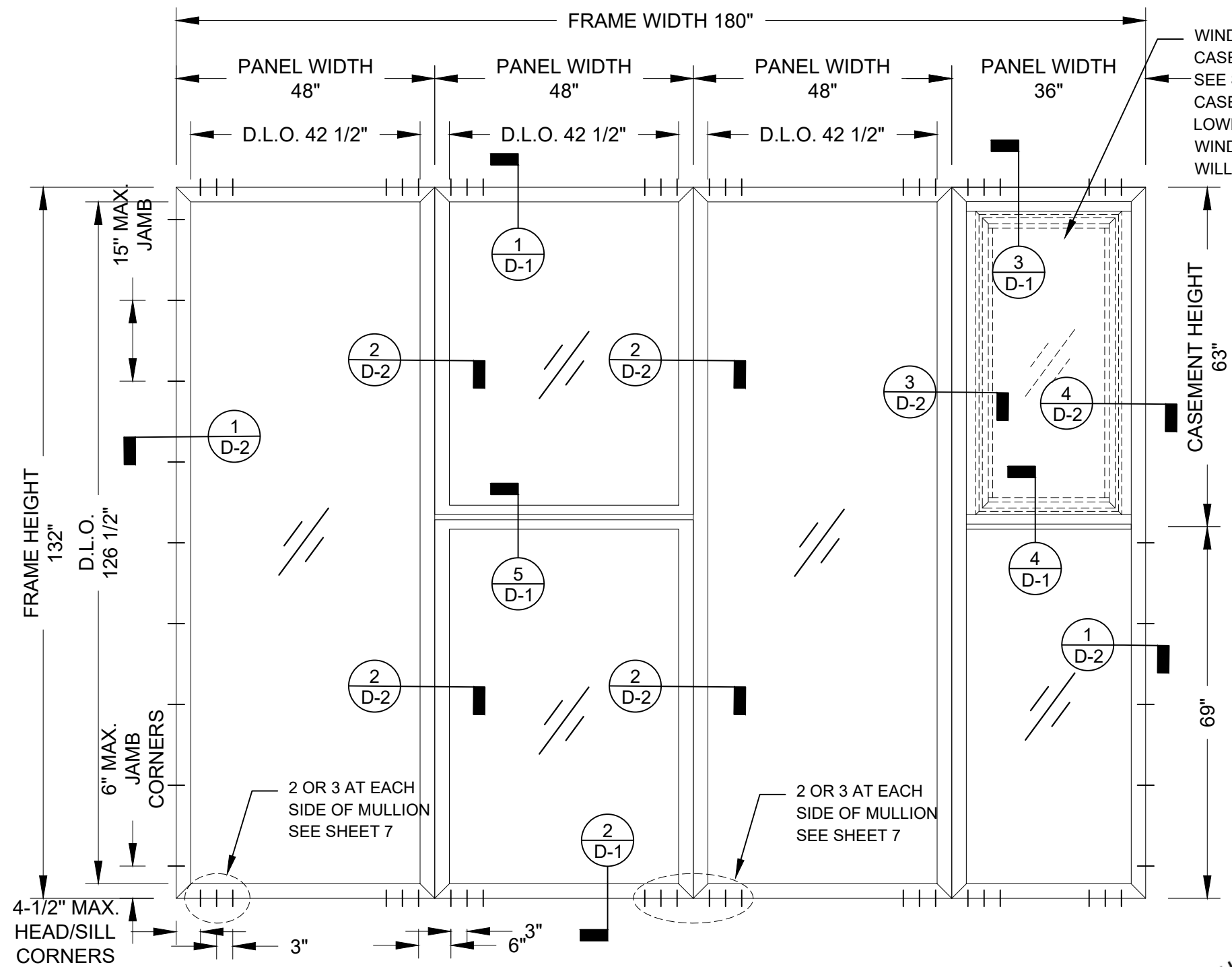
25-0055P

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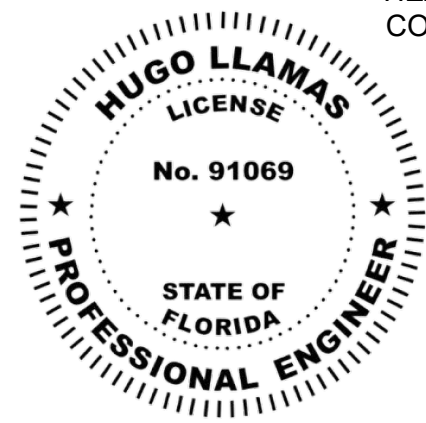
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Sheet No. 01 OF 07	SHEET NO. G-1



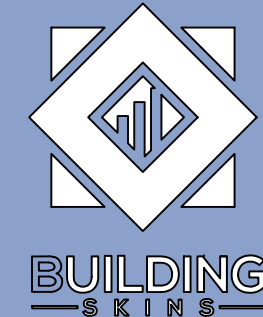
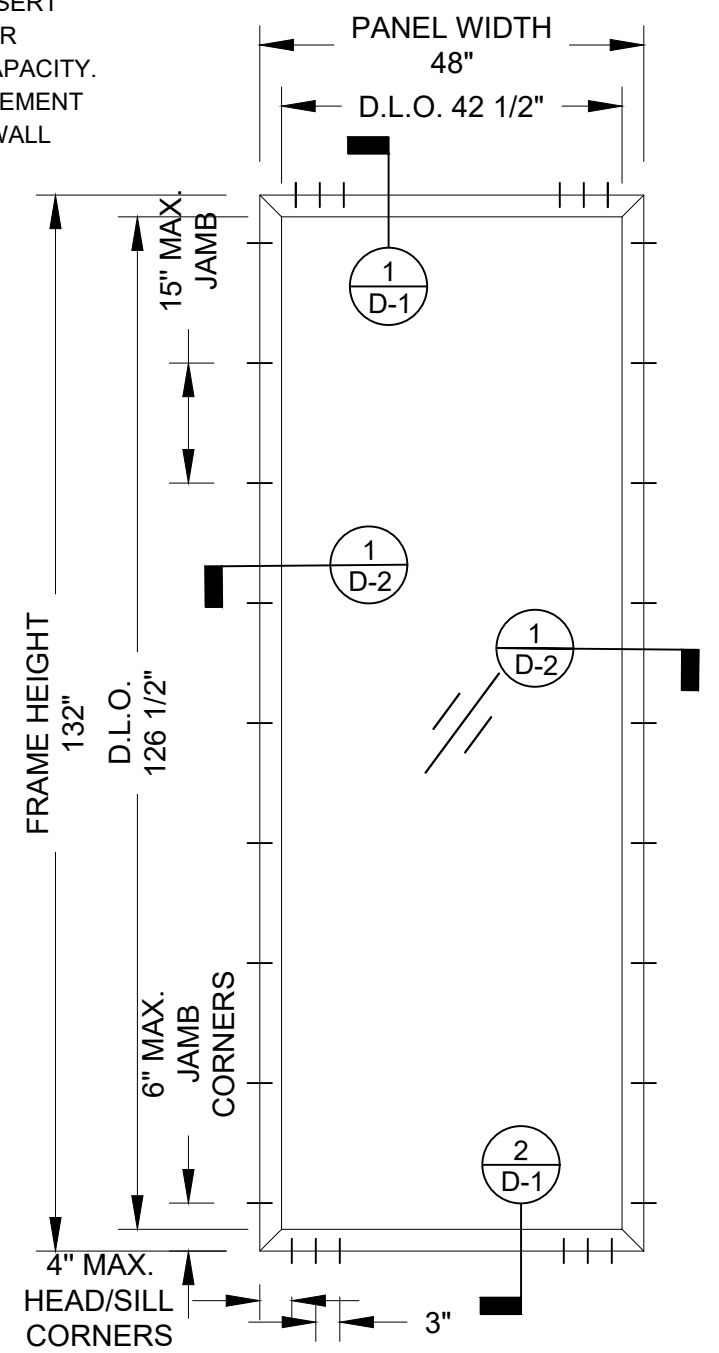
TYPICAL ELEVATIONS



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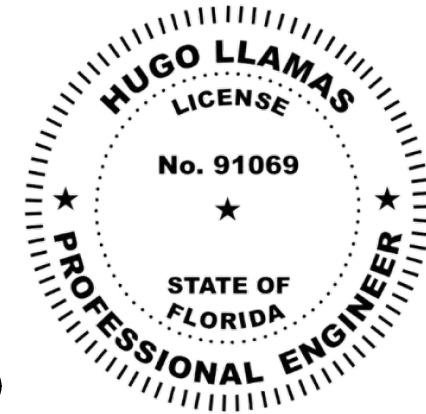
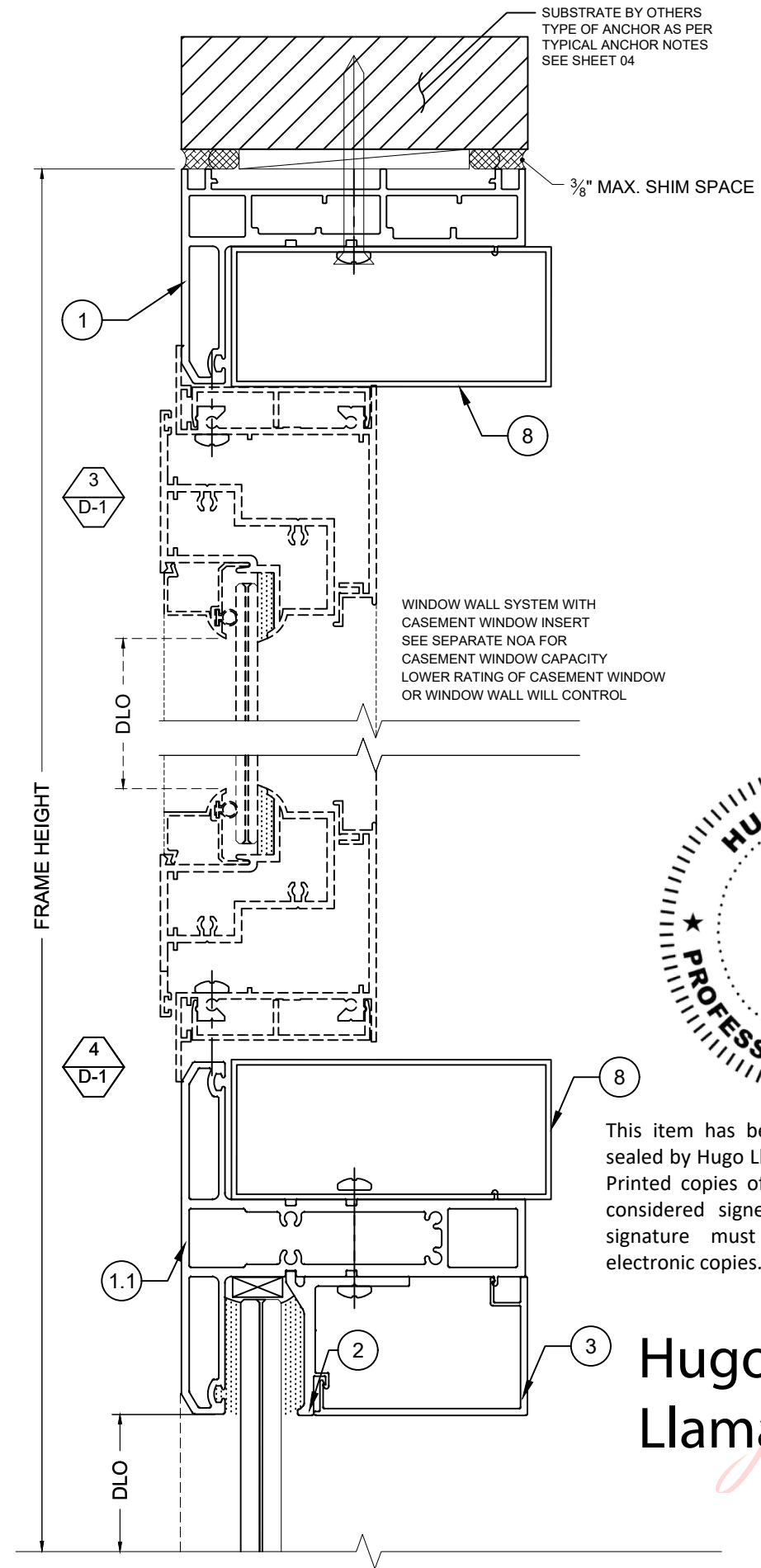
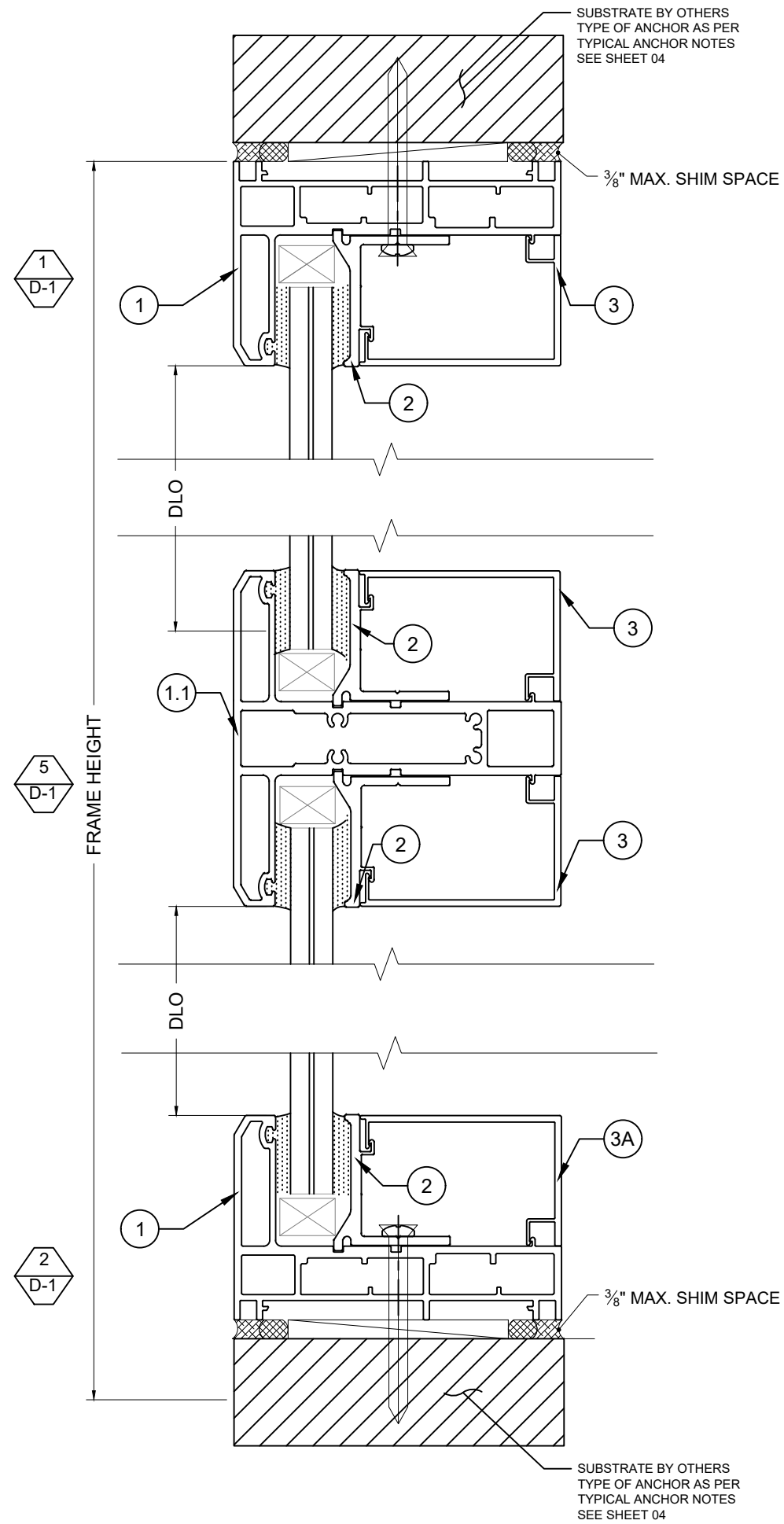
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ALUMINUM WINDOW
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LARGE MISSILE IMPACT (L.M.I.)

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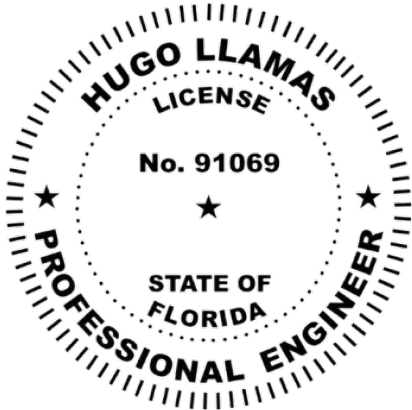
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August 18th, 2025

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Sheet No.
03 OF 07

SCALE
6" = 1'-0"

SHEET NO.
D-1



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TYPICAL ANCHORS:

TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI) INTO 2BY WOOD BUCKS OR WOOD STRUCTURES 1-3/8" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS 1-3/8" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS) 1-3/8" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS 1-3/8" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS) 1-3/8" MIN. EMBED INTO BLOCKS (JAMBS)

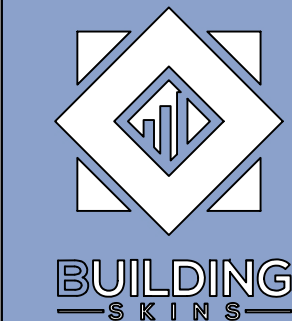
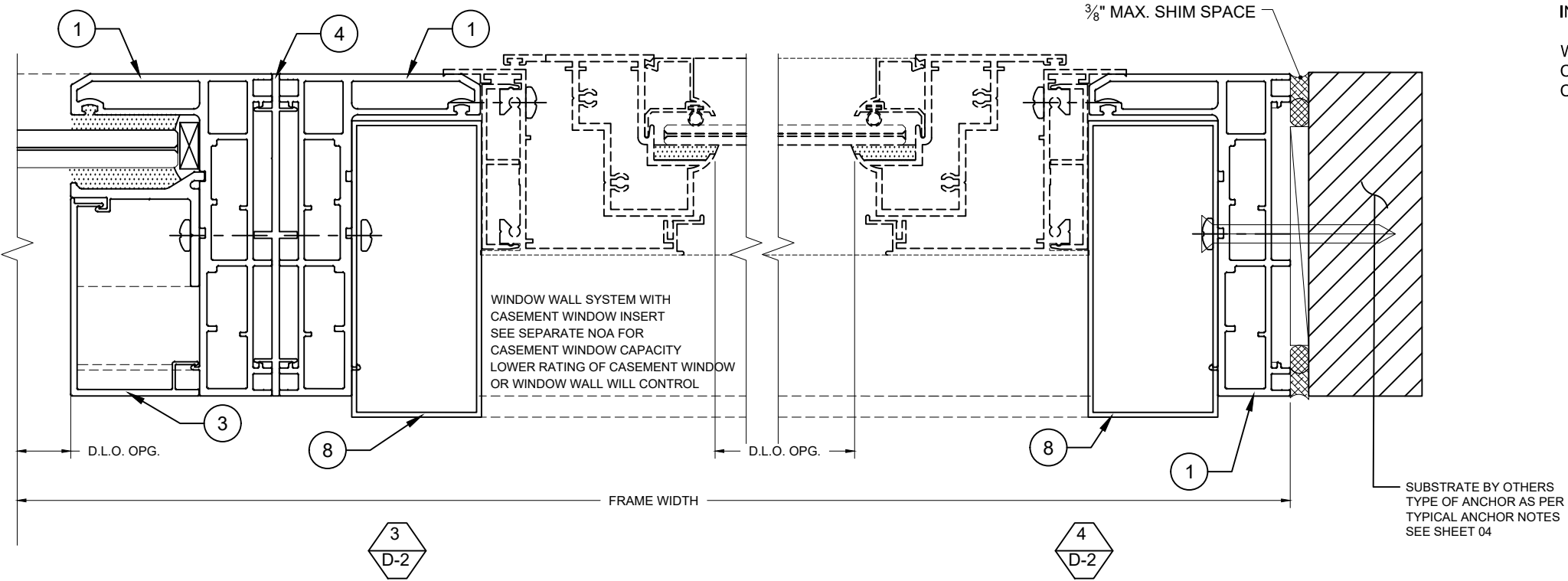
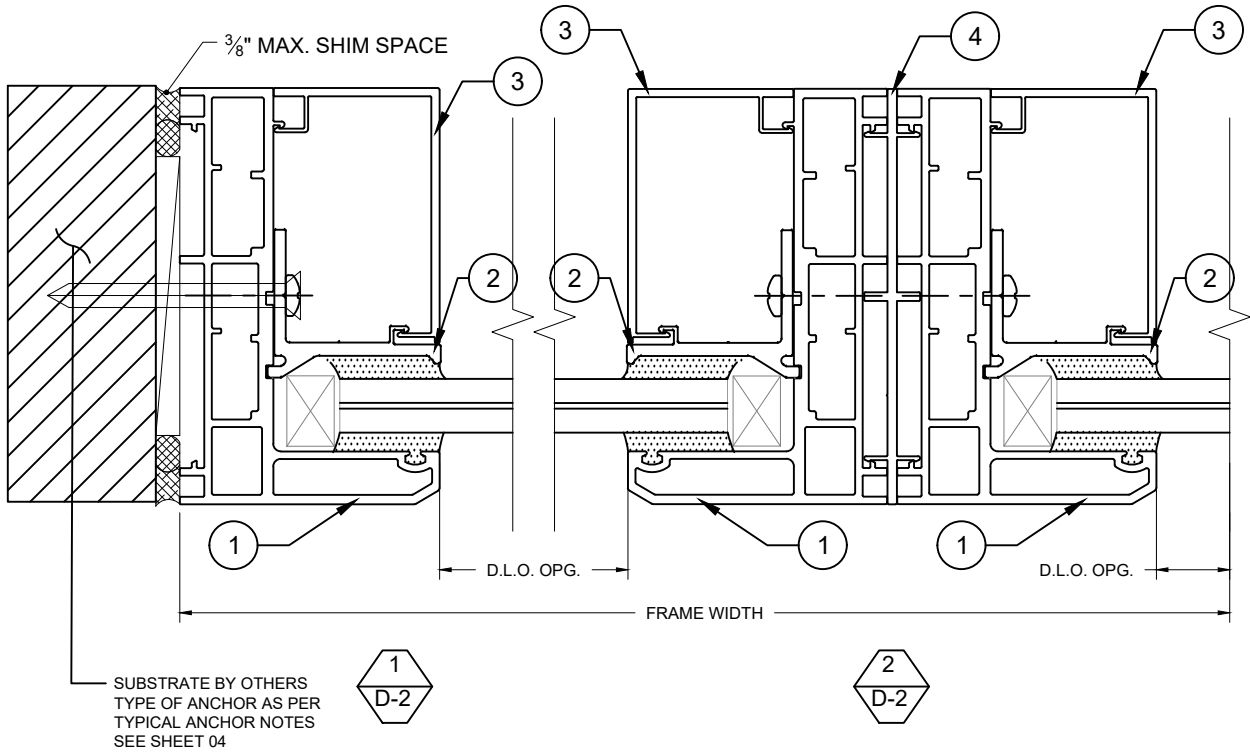
TYPE 'B' - #14 SMS OR SELF-DRILLING SCREWS (GRADE 2 CRS) INTO F.B.C. APPROVED MULLIONS OR INTO METAL STRUCTURES (HEAD/SILL/JAMBS) (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.) ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED 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.

SUBSTRATE NOTES:

- SUBSTRATE IS BY ENGINEER OF RECORD (E.O.R.) OR ARCHITECT OF RECORD (A.O.R.)
- THIS GLAZING SYSTEM CAN IS APPROVED TO BE ANCHORED TO:
 - a. CONCRETE
 - b. CONCRETE TROUGH 1BY OR 2BY WOOD BUCK
 - c. METAL (STEEL / ALUMINUM)
 - d. WOOD STRUCTURE
 - e. F.B.C. APPROVED MULLION



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CHART 1

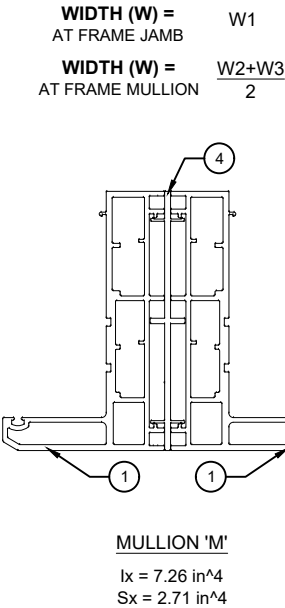
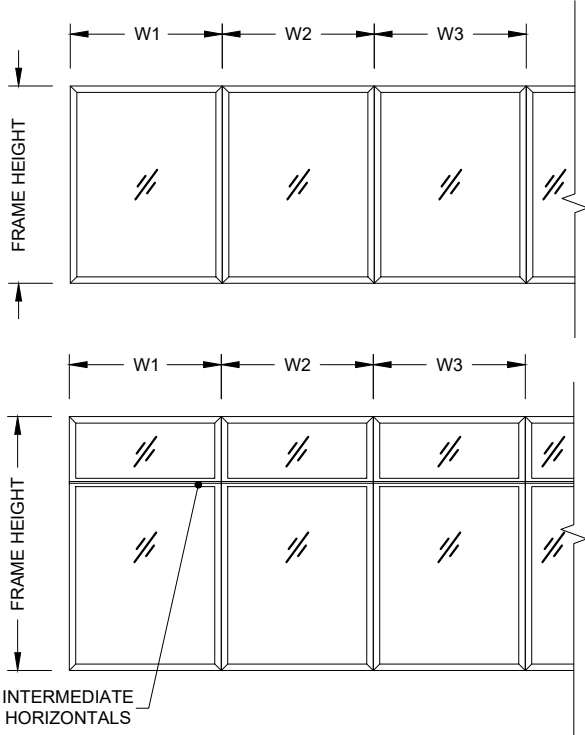
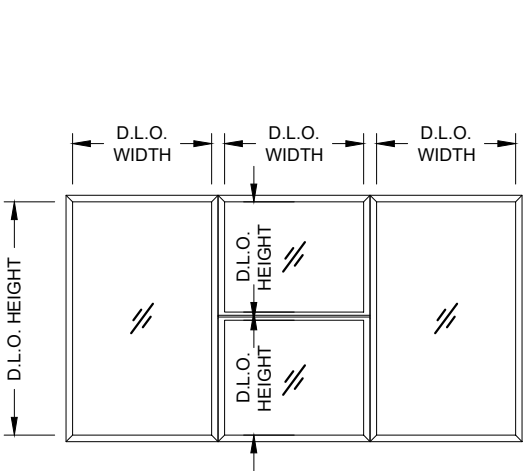
GLASS DESIGN LOAD (PSF)			
NOMINAL DIMS.		GLASS TYPES '1'	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	INT. (-)
24-1/2"	90-1/2"	55	55
30-1/2"		55	55
34-1/2"		55	55
42-1/2"		55	55
24-1/2"	93"	55	55
30-1/2"		55	55
34-1/2"		55	55
42-1/2"		55	55
24-1/2"	98-1/2"	55	55
30-1/2"		55	55
34-1/2"		55	55
42-1/2"		55	55
24-1/2"	114"	55	55
30-1/2"		55	55
34-1/2"		55	55
42-1/2"		55	55
24-1/2"	118"	55	55
30-1/2"		55	55
34-1/2"		55	55
42-1/2"		55	55
24-1/2"	124"	55	55
30-1/2"		55	55
34-1/2"		55	55
42-1/2"		55	55
24-1/2"	126-1/2"	55	55
30-1/2"		55	55
34-1/2"		55	55
42-1/2"		55	55

CHART 2

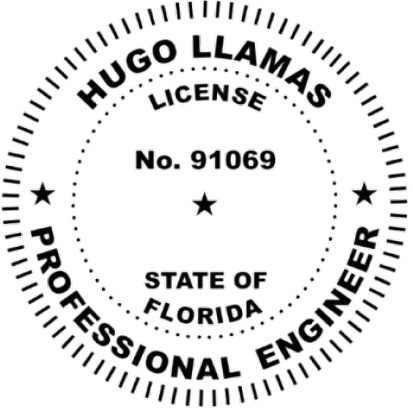
MULLION DESIGN LOAD - PSF			
WINDOW DIMS.		MULLION 'M'	
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)	EXT. (+)	INT. (-)
30"	96"	55.00	55.00
36"		55.00	55.00
40"		55.00	55.00
48"		55.00	55.00
30"	98-1/2"	55.00	55.00
36"		55.00	55.00
40"		55.00	55.00
48"		55.00	55.00
30"	104"	55.00	55.00
36"		55.00	55.00
40"		55.00	55.00
48"		55.00	55.00
30"	119-1/2"	55.00	55.00
36"		55.00	55.00
40"		55.00	55.00
48"		54.46	54.46
30"	123-1/2"	55.00	55.00
36"		55.00	55.00
40"		55.00	55.00
48"		49.33	49.33
30"	129-1/2"	55.00	55.00
36"		55.00	55.00
40"		51.35	51.35
48"		42.79	42.79
30"	132"	55.00	55.00
36"		53.87	53.87
40"		48.48	48.48
48"		40.40	40.40

CHART 3

ANCHOR DESIGN LOAD - PSF					
EXT. (+) & INT. (-)					
WINDOW DIMS.		ANCHOR TYPE "A"		ANCHOR TYPE "B"	
		1/4" SHIM		3/8" SHIM	
NOMINAL PANEL WIDTH (IN.)	DOOR FRAME HEIGHT (IN.)	4 ANCHORS AT STILES	6 ANCHORS AT STILES	4 ANCHORS AT STILES	6 ANCHORS AT STILES
30"	96"	55.0	55.0	55.0	55.0
36"		55.0	55.0	55.0	55.0
40"		55.0	55.0	55.0	55.0
48"		55.0	55.0	55.0	55.0
30"	98-1/2"	55.0	55.0	55.0	55.0
36"		55.0	55.0	55.0	55.0
40"		55.0	55.0	55.0	55.0
48"		55.0	55.0	55.0	55.0
30"	104"	55.0	55.0	55.0	55.0
36"		55.0	55.0	55.0	55.0
40"		55.0	55.0	55.0	55.0
48"		55.0	55.0	55.0	55.0
30"	119-1/2"	55.0	55.0	55.0	55.0
36"		55.0	55.0	55.0	55.0
40"		55.0	55.0	55.0	55.0
48"		51.5	55.0	55.0	55.0
30"	123-1/2"	55.0	55.0	55.0	55.0
36"		55.0	55.0	55.0	55.0
40"		55.0	55.0	55.0	55.0
48"		49.8	55.0	55.0	55.0
30"	129-1/2"	55.0	55.0	55.0	55.0
36"		55.0	55.0	55.0	55.0
40"		55.0	55.0	55.0	55.0
48"		47.5	55.0	55.0	55.0
30"	132"	55.0	55.0	55.0	55.0
36"		55.0	55.0	55.0	55.0
40"		55.0	55.0	55.0	55.0
48"		46.6	55.0	55.0	55.0



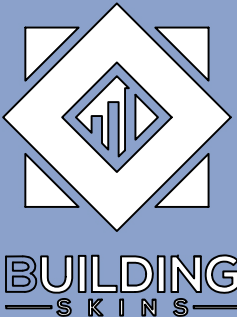
INTERPOLATION BETWEEN WIDTHS ALLOWED



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SERIES "120"
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DRAWINGS NUMBER
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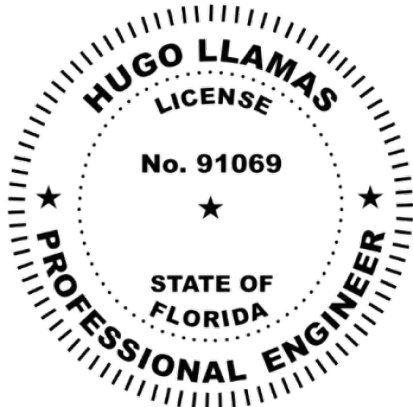
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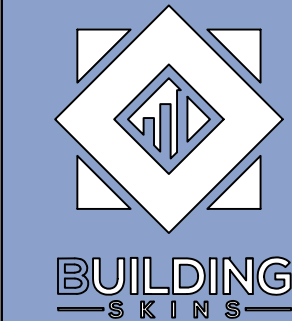
ITEM	DESCRIPTION	MATERIAL	MANUFACTER/SUPPLIER
1	FRAME HEAD/SILL/JAMB	6063-T6	-
1.1	TRANSOM PROFILE	6063-T6	-
2	GLASS STOP	6063-T5	-
3	FRAME COVER (LAM. GLASS)	6063-T5	-
4	MULLION	6063-T6	-
5	CORNER KEY	-	-
6	GLASS STOP FASTENERS, AT 6" FROM ENDS & 21-1/4" O.C.	ST. STEEL	PH SELF DRILLING SCREWS
7	SETTING BLOCKS	EPDM	DUROMETER 80±5 SHORE A
8	ALUMINUM TUBE	6063-T6	-



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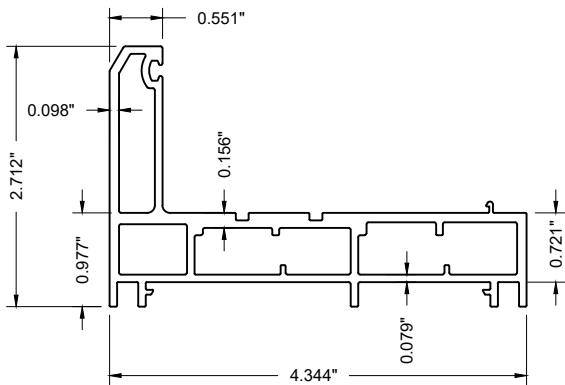
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EXTRUSIONS

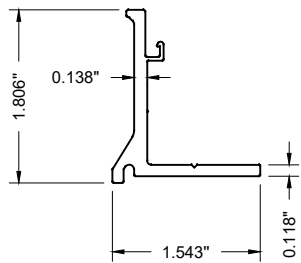
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FRAME HEAD/SILL/JAMB



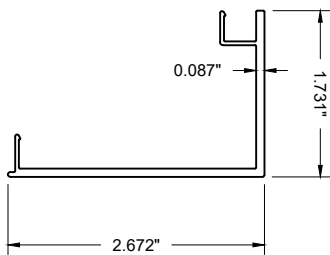
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GLASS STOP



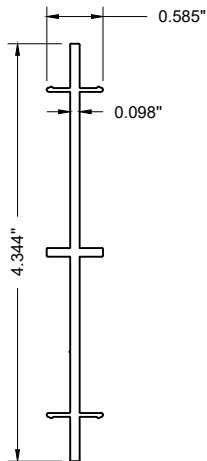
③

FRAME COVER (LAM. GLASS)



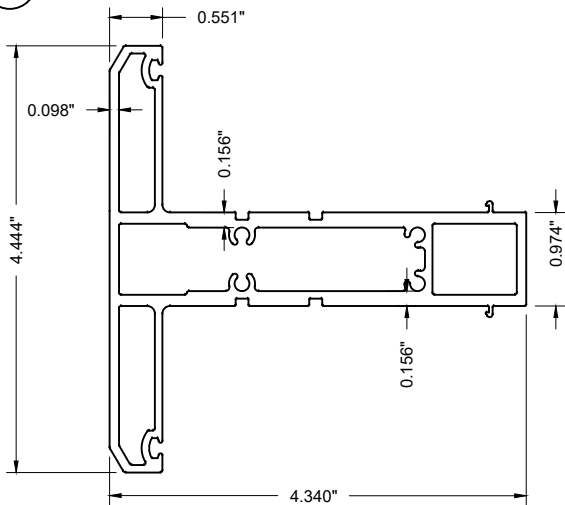
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MULLION



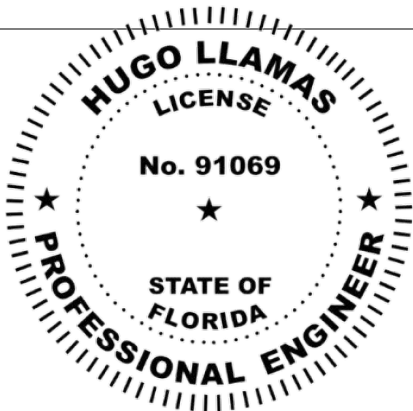
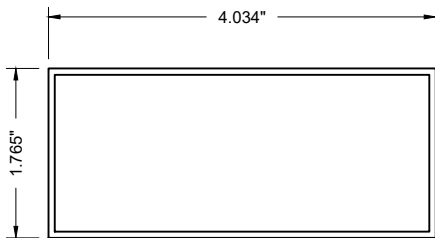
①.1

TRANSOM PROFILE



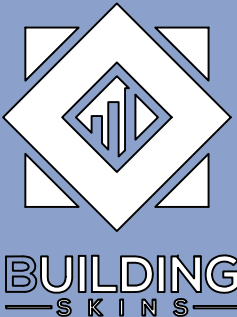
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ALUMINUM TUBE



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Hugo Llamas Digitally signed by Hugo Llamas
Date: 2025.08.22 19:49:25 -04'00'



6135 NW 167th St. STE E-1
Miami Gardends, FL 33015
Ph. (305) 698-0550

SERIES "120"
ALUMINUM WINDOW
WALL SYSTEM
LARGE MISSILE IMPACT (L.M.I.)

ALUCORP SA DE CV
CA. 2 TABLAJE 17439
INTERIOR C
MÉRIDA, YUCATÁN,
MÉXICO
Ph. 9996-11-63-54
Contacto@interalum.com

DRAWINGS NUMBER
25-0055P

REVISIONS:

No.	Date	Description

DATE:
August 18th, 2025

DRAWN BY
MH

SCALE
6" = 1'-0"

Sheet No.

SHEET NO.

07 OF 07

E-1