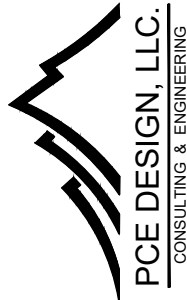


PRODUCT DEVELOPMENT

ALUMINUM SINGLE HUNG WINDOW

PRODUCT APPROVAL DRAWINGS



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

SERIES "SH 100"
ALUMINUM SINGLE
HUNG WINDOW
LARGE MISSILE IMPACT (L.M.I.)

RC BES WINDOWS LLC
12900 NW 38th AVE.
OPA-LOCKA, FL 33054
Ph. 305-203-0780
Contact@BESmiami.com

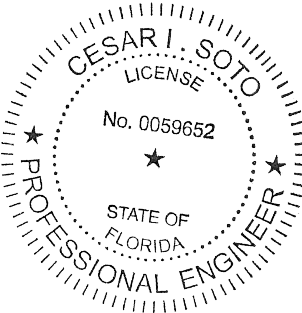
DRAWINGS NUMBER
24-0197P.2

REVISIONS:

No.	Date	Description

DATE:
May 31st, 2024

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Sheet No. 00 OF 08	SHEET NO. Cover



Digitally signed by Cesar I Soto
Contact Info: PE #59652
cesar.soto@paramountce.com
Date: 2025.01.28 15:39:00-05'00'

CONTACT: (305)698-0550 OR (786)877-2699

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY CESAR I. SOTO P.E. ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNAURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

01/28/2025

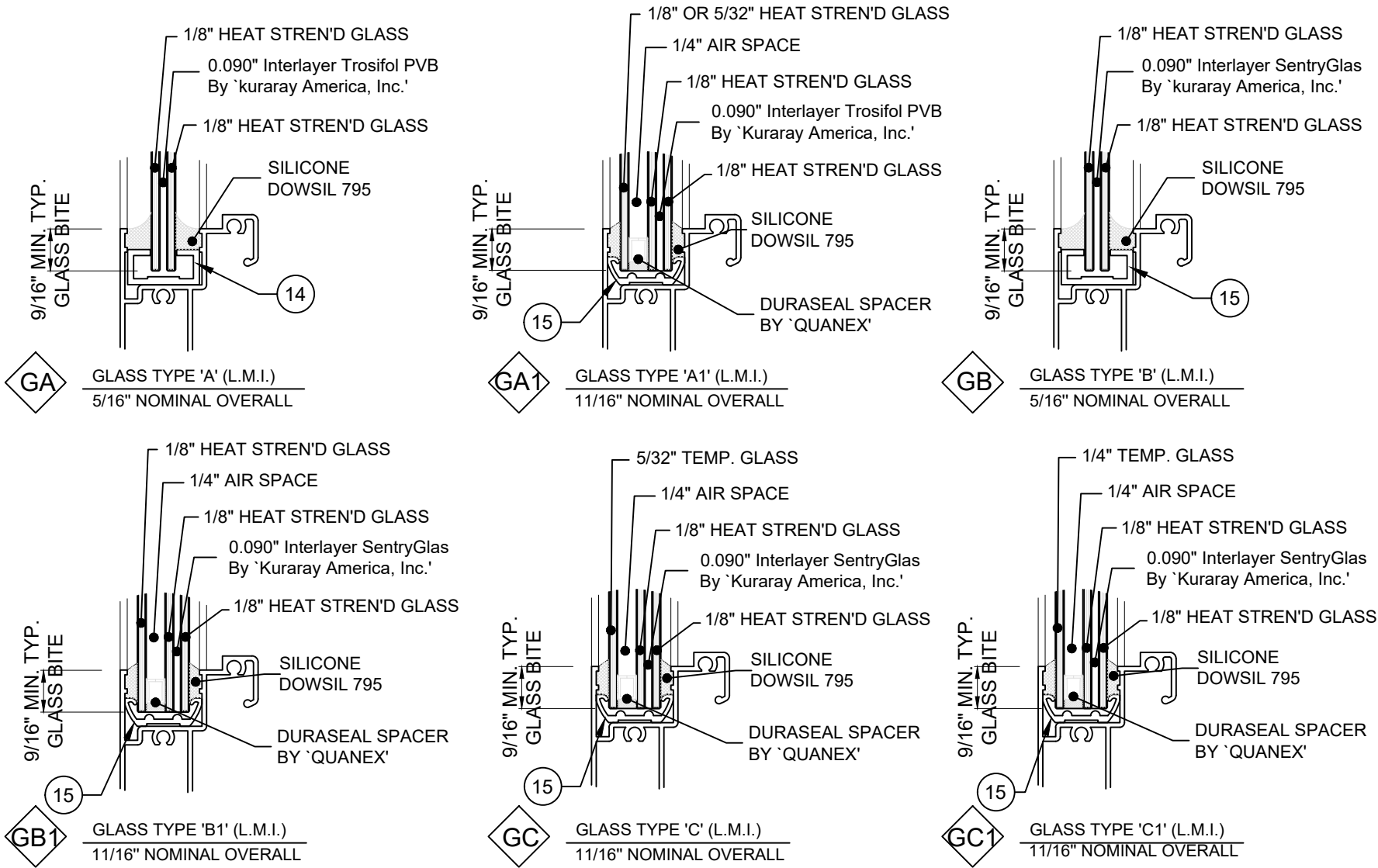
SH 100 ALUMINIUM SINGLE HUNG DOOR

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.) & SMALL MISSILE IMPACT (S.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

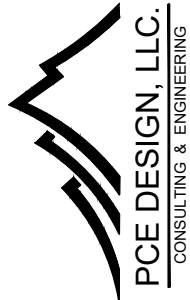
- A. SHEET 05 CONTAINS THE MAXIMUM ALLOWABLE DESIGN LOAD CAPACITY FOR FLANGE FRAME WINDOW AND FLUSH FRAME WINDOW. THIS SHEET SHOWS THE MAXIMUM ALLOWABLE DESIGN PRESSURE WHEN DOUBLE AND SINGLE DOORS ARE CONFIGURED.
- B. ANCHORS SPACING ARE SHOWN IN ALL GLAZING ELEVATIONS.
- C. ANCHOR TYPES ARE SHOWN ON SHEET 03. THIS SHEET SHOWS THE EDGE DISTANCE, EMBEDMENT, TYPE OF ANCHOR, AND ALL REQUIREMENTS ANCHORES NEED TO COMPLY WITH THESE SPECIFIATIONS



GLASS CONFIGURATION FOR ALUMINUM SINGLE HUNG WINDOW
FOR DESIGN LOADS CAPACITIES SEE CHART 1

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\"/>



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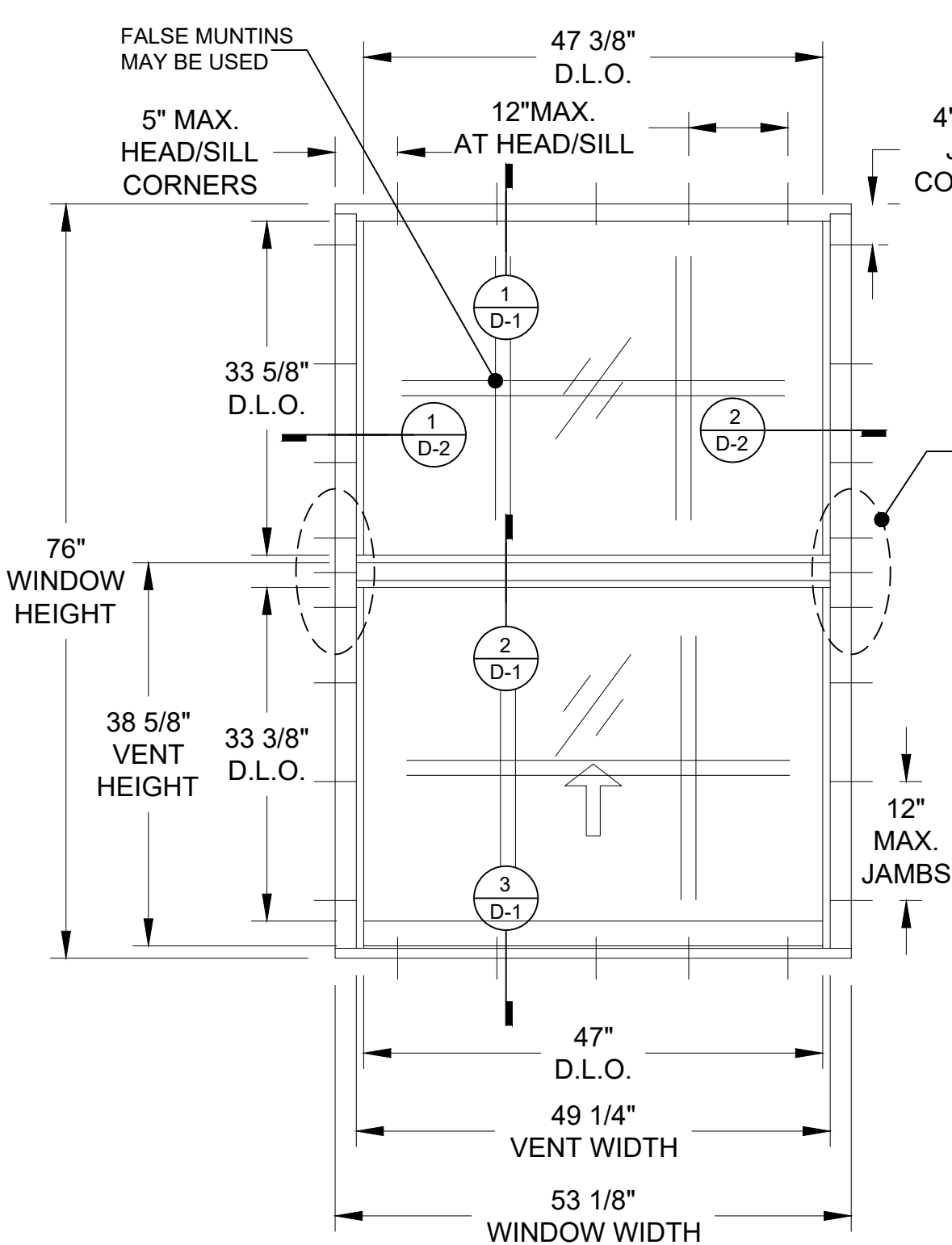
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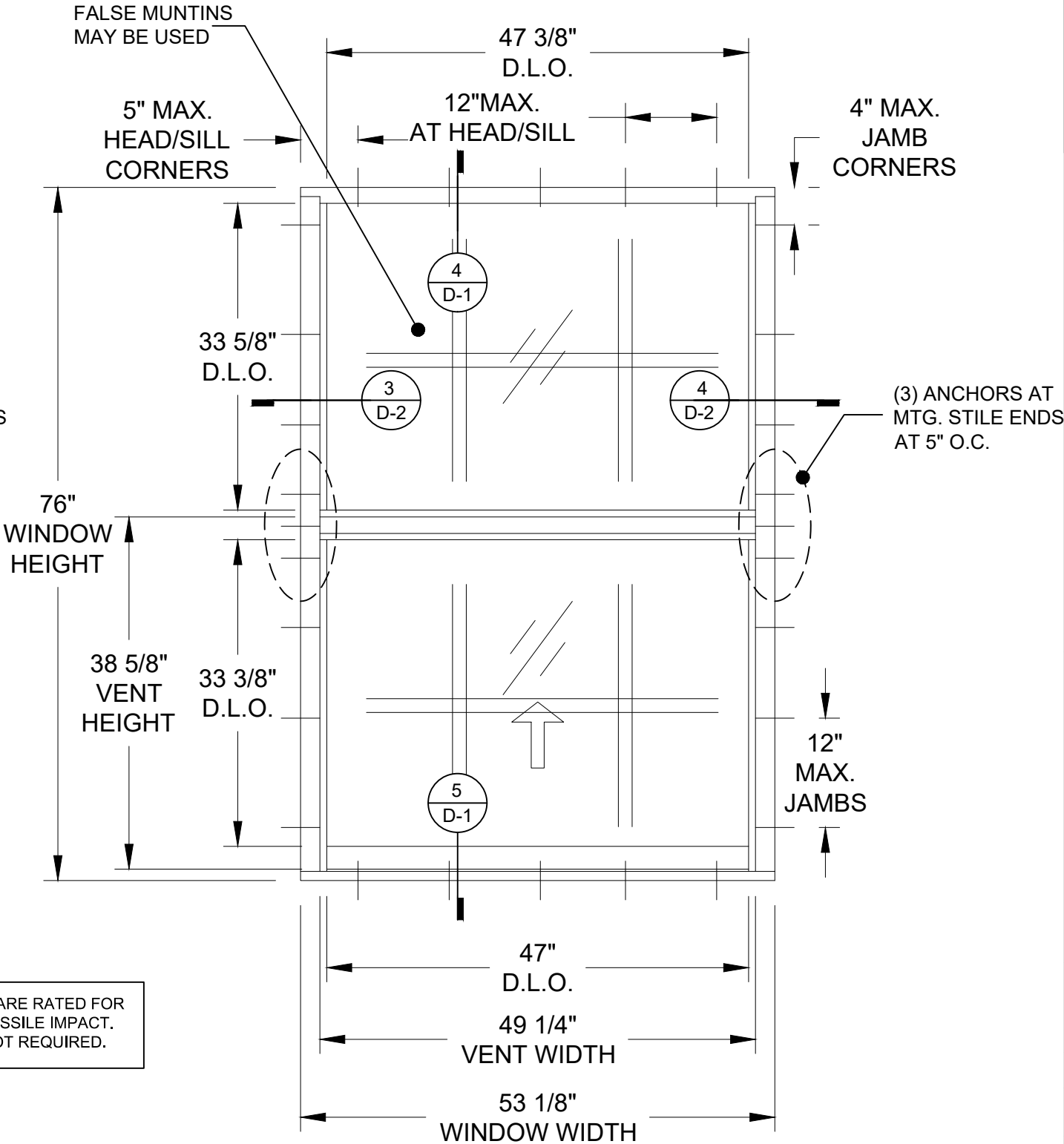
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01 OF 08

G-1

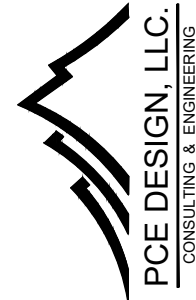


TYPICAL FLANGE FRAME WINDOWS ELEVATION



TYPICAL FLUSH FRAME WINDOWS ELEVATION

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



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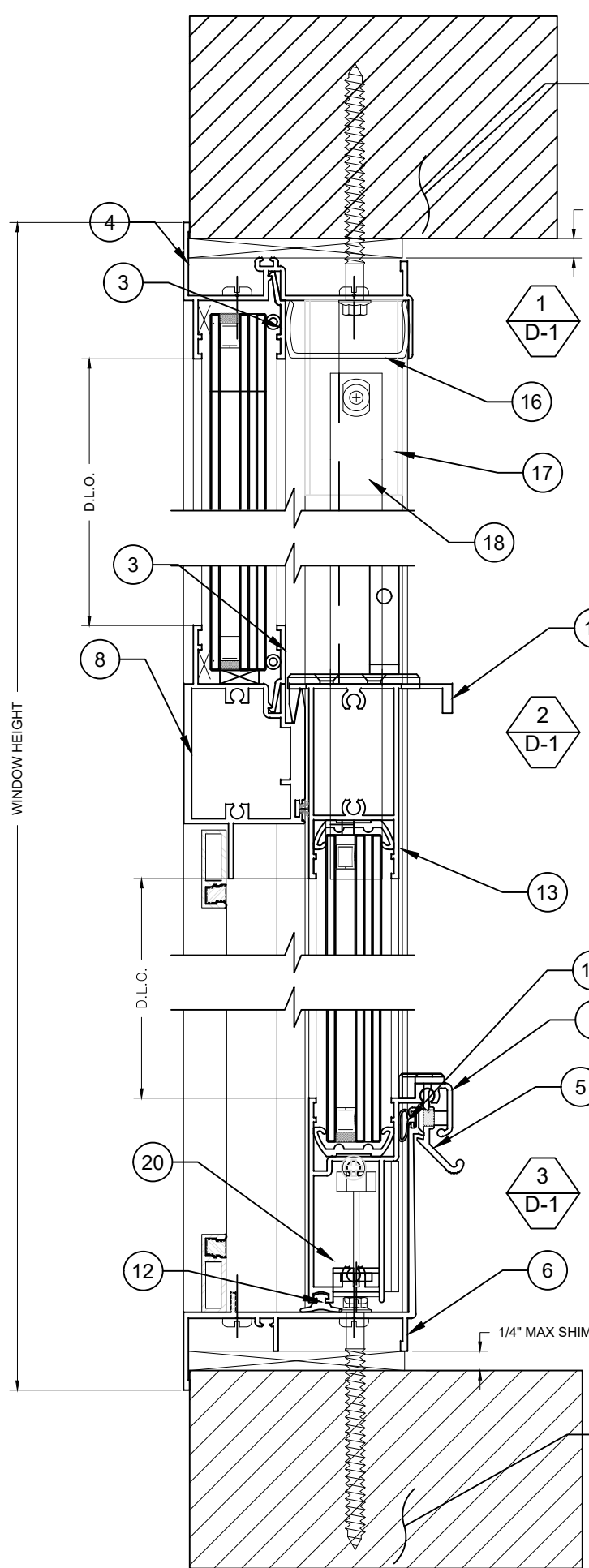
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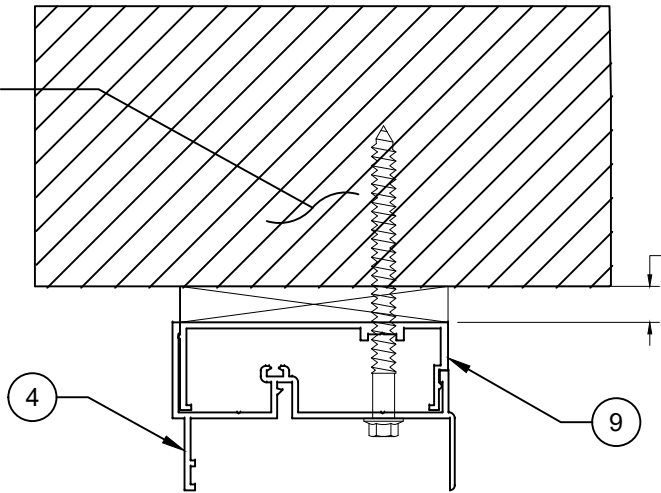
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Sheet No. 02 OF 08	SHEET NO. WE-1



SUBSTRATE BY OTHERS
TYPE OF ANCHOR AS PER
TYPICAL ANCHOR NOTES
SEET SHEET 03

3/16" MAX SHIM FOR METAL ST.
1/4" MAX SHIM FOR THE REST
OF SUBSTRATES

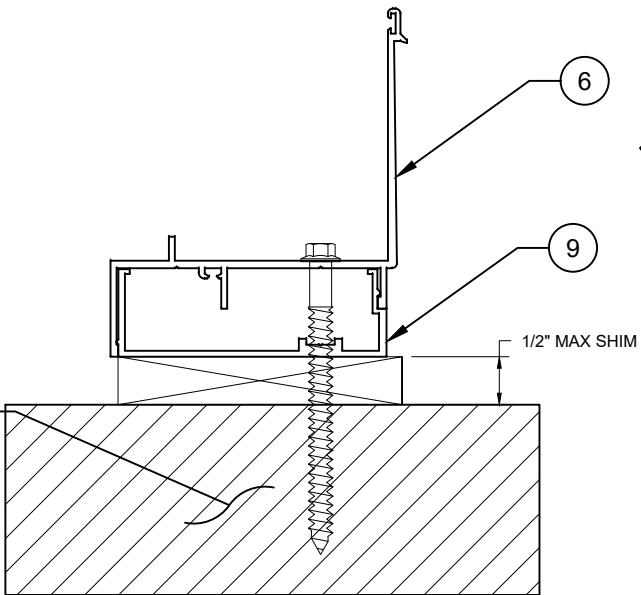
SUBSTRATE BY OTHERS
TYPE OF ANCHOR AS PER
TYPICAL ANCHOR NOTES
SEET SHEET 03



3/8" MAX SHIM FOR METAL ST.
1/2" MAX SHIM FOR THE REST
OF SUBSTRATES

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 THRU 1BY BUCK OR 2BY BUCK
 - c. HOLLOW/FILLED BLOCK
 - d. WOOD SUBSTRATE
 - e. METAL (STEEL / ALUMINUM)



5
D-1

TYPICAL ANCHORS:

1/4" DIA, TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)

TYPE 'A'-

INTO METAL STRUCTURES (HEAD/SILL/JAMBS) :
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
3/4" MIN. EDGE DIST. INTO METAL STRUCTURE

1/4" DIA. KWIK-CON II+ BY 'HILTI' (Fu=138 KSI, Fy=137 KSI)

TYPE 'B'-

INTO WOOD STRUCTURES:
2" MIN. EMBED INTO WOOD (HEAD/SILL/JAMBS)
1" MIN. EDGE DIST. INTO WOOD STRUCTURE

THRU 1BY OR 2BY BUCKS INTO CONC.:
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
2-1/2" MIN. EDGE DIST. INTO CONCRETE

THRU 1BY OR 2BY BUCKS INTO BLOCKS:
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)
2-1/2" MIN. EDGE DIST. INTO BLOCKS

DIRECTLY INTO CONCRETE OR BLOCKS:
2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
2" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)
2-1/2" MIN. EDGE DIST. INTO CONCRETE OR BLOCKS

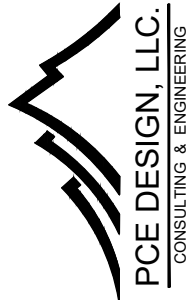
#14 SMS OR SELF-DRILLING SCREWS (GRADE 2 CRS)

TYPE 'C'-

INTO MIAMI-DADE COUNTY APPROVED MULLIONS:
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
3/4" MIN. EDGE DIST. INTO METAL STRUCTURE
ALUMINUM: 1/8" THK. MIN. (6063-T5) (NO SHIMS)
STEEL: 1/8" THK. MIN. (Fy = 36 KS MIN.) (NO SHIMS)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
3/4" MIN. EDGE DIST. INTO METAL STRUCTURE

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c - 3000 PSI MIN.
C-90 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

SELANT:
ALL FRAMES VENT CORNERS AND INSTALATIONS SCREWS
SEALED WITH SILICONE



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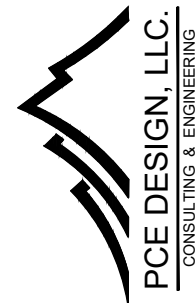
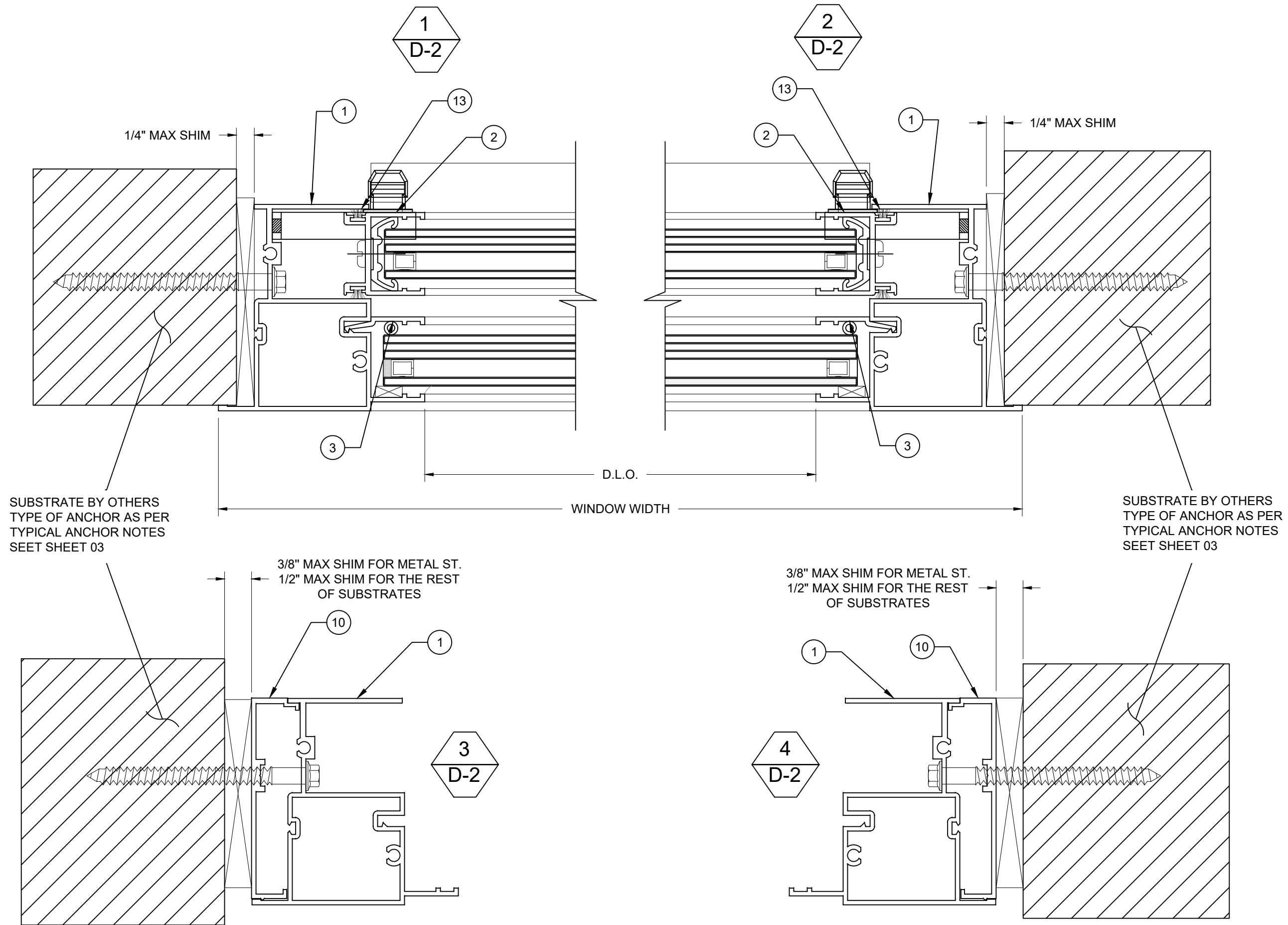
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04 OF 08

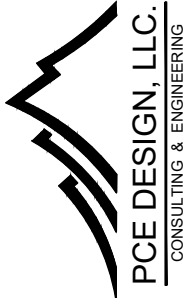
SHEET NO.
D-2

CHART 1

DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		GLASS TYPE A, A1, B		GLASS TYPE B1, C		GLASS TYPE C1	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
19-1/8"	26"	80.00	80.00	80.00	140.00	80.00	140.00
26-1/2"		80.00	80.00	80.00	140.00	80.00	140.00
37"		80.00	80.00	80.00	140.00	80.00	140.00
48"		80.00	80.00	80.00	140.00	80.00	140.00
53-1/8"		80.00	80.00	80.00	140.00	80.00	140.00
19-1/8"	38-3/8"	80.00	80.00	80.00	140.00	80.00	140.00
26-1/2"		80.00	80.00	80.00	140.00	80.00	140.00
37"		80.00	80.00	80.00	140.00	80.00	140.00
48"		80.00	80.00	80.00	133.58	80.00	140.00
53-1/8"		80.00	80.00	80.00	116.16	80.00	140.00
19-1/8"	50-5/8"	80.00	80.00	80.00	140.00	80.00	140.00
26-1/2"		80.00	80.00	80.00	140.00	80.00	140.00
37"		80.00	80.00	80.00	140.00	80.00	140.00
48"		80.00	80.00	80.00	111.15	80.00	140.00
53-1/8"		80.00	80.00	80.00	95.47	80.00	140.00
19-1/8"	58"	80.00	80.00	80.00	140.00	80.00	140.00
26-1/2"		80.00	80.00	80.00	140.00	80.00	140.00
37"		80.00	80.00	80.00	140.00	80.00	140.00
48"		80.00	80.00	80.00	103.12	80.00	140.00
53-1/8"		80.00	80.00	80.00	87.77	80.00	140.00
19-1/8"	63"	80.00	80.00	80.00	140.00	80.00	140.00
26-1/2"		80.00	80.00	80.00	140.00	80.00	140.00
37"		80.00	80.00	80.00	140.00	80.00	140.00
48"		80.00	80.00	80.00	99.29	80.00	140.00
53-1/8"		80.00	80.00	80.00	80.00	80.00	140.00
19-1/8"	74-1/4"	80.00	80.00	80.00	140.00	80.00	140.00
26-1/2"		80.00	80.00	80.00	140.00	80.00	140.00
37"		80.00	80.00	80.00	140.00	80.00	140.00
48"		80.00	80.00	80.00	80.00	-	-
53-1/8"		80.00	80.00	80.00	80.00	-	-
19-1/8"	76"	80.00	80.00	80.00	140.00	80.00	140.00
26-1/2"		80.00	80.00	80.00	140.00	80.00	140.00
37"		80.00	80.00	80.00	140.00	80.00	140.00
48"		80.00	80.00	80.00	80.00	-	-
53-1/8"		80.00	80.00	80.00	80.00	-	-
19-1/8"	78"	80.00	80.00	80.00	140.00	80.00	140.00
26-1/2"		80.00	80.00	80.00	140.00	80.00	140.00
37"		80.00	80.00	80.00	140.00	80.00	140.00
48"		80.00	80.00	80.00	80.00	-	-
19-1/8"	84"	80.00	80.00	80.00	140.00	80.00	140.00
26-1/2"		80.00	80.00	80.00	140.00	80.00	140.00
37"		80.00	80.00	80.00	140.00	80.00	140.00

THESE CALCULATIONS ARE BASED ON THE ASTM E1300-09, ASTM E1300-12 AND ASTM E1300-16

IN ORDER TO QUALIFY FOR SMALL MISSILE IMPACT EXTERIOR PLY OF GLASS MUST BE TEMPERED



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Sheet No. 05 OF 08	SHEET NO. D-3

ITEM	PARTNo	DESCRIPCION	MATERIAL
1	1	FRAME JAMB	6063-T6
2	2	VENT SIDE RAIL	6063-T6
3	3	GLAZING BEAD	6063-T6
4	4	FRAME HEAD	6063-T6
5	5	VENT LATCH	6063-T6
6	6	FRAME SILL	6063-T6
7	7	VENT BOTTOM RAIL	6063-T6
8	8	MEETING RAIL	6063-T6
9	9	FLUSH ADAPTER HEAD/SILL	6063-T6
10	10	FLUSH ADAPTER JAMBS	6063-T6
11	11	VENT TOP RAIL	6063-T6
12	12	WEATHER STRIPPING GASKET	NEOPRENO
13	13	WEATHER STRIPPIG PILE (VENT)	-
14	14	GLAZING INSERT	RIGID PVC
15	15	VYNIL LAM. INSUL. GLASS	PVC
16	16	HEAD SNAP COVER	ALUMINIUM
17	17	VENT STOP 1-1/4" x 1-1-4" x 2-1/1"	-
18	18	ULTRA LIFT NON TIT BRACKET	-
19	19	7-375 X 190 WHITE	-
20	20	1" x 1" x 4" LG. FOAM PAD	-



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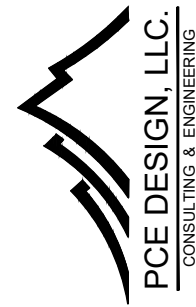
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DOOR EXTRUSIONS



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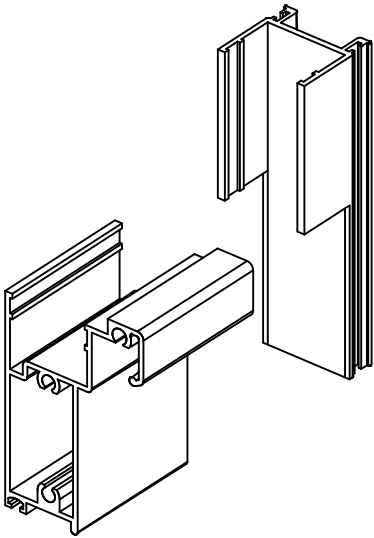
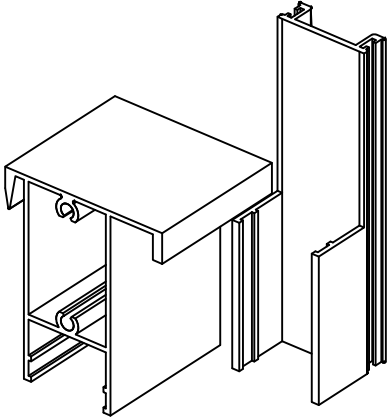
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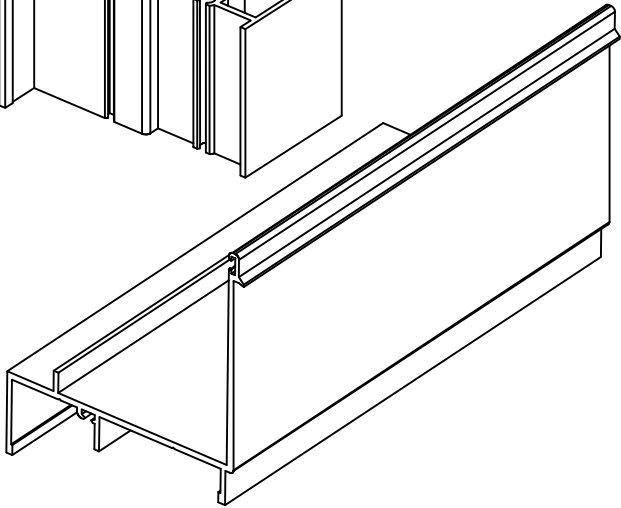
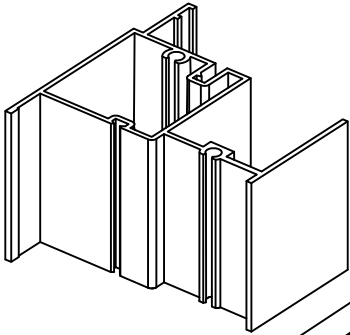
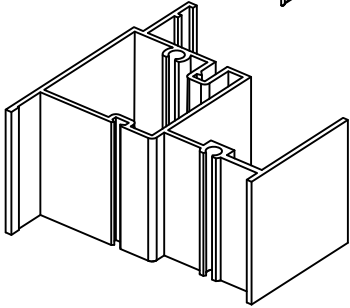
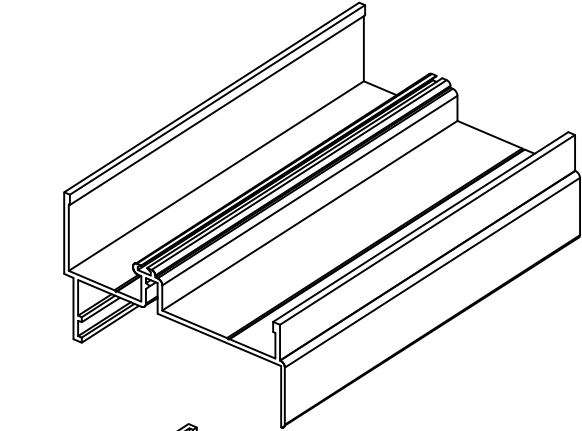
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E-1

① FRAME JAMB	② VENT SIDE RAIL	③ GLAZING BEAD	④ FRAME HEAD
⑤ VENT LATCH	⑥ FRAME SILL	⑦ VENT BOTTOM RAIL	⑧ MEETING RAIL
⑨ FLUSH ADAPTER HEAD/SILL	⑩ FLUSH ADAPTER JAMB	⑪ VENT TOP RAIL	



VENT CORNER DETAIL



FRAME CORNER DETAIL



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