SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD.
SERIES YY100T THERMAL BREAK HINGED DOOR
LARGE MISSILE IMPACT

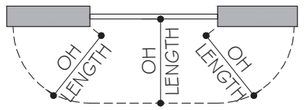


FIGURE A

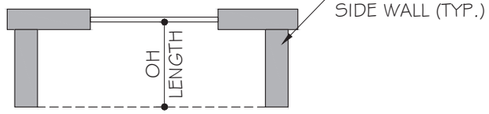
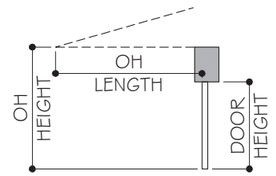
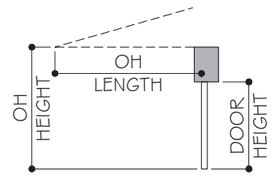


FIGURE B



$$\text{OH RATIO} = \frac{\text{OH LENGTH}}{\text{OH HEIGHT}} \geq 1$$



$$\text{OH RATIO} = \frac{\text{OH LENGTH}}{\text{OH HEIGHT}} \geq 1$$

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION OF FBC 2023/9TH EDITION OF FBC 2026 INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

- DOORS ARE RATED FOR LARGE MISSILE IMPACT. LARGE MISSILE IMPACT SYSTEM TO BE USED UP TO 30FT OF GRADE. IMPACT SHUTTERS ARE NOT REQUIRED.

- DOORS ARE APPROVED FOR AIR AND WATER INFILTRATION.

- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/ METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 8TH EDITION OF FBC 2023/9TH EDITION OF FBC 2026 SECTION AS APPLICABLE.

- METAL STRUCTURES BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

- ULTIMATE LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.

- 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.

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

- HARDWARE CHECKED FOR WIND LOAD IN CLOSED POSITION ONLY; OPERATION PER MANUFACTURER'S INSTRUCTIONS. DOORS MUST BE CLOSED AND SECURED WHEN A HURRICANE WARNING IS ISSUED.

- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.
  - FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).
  - CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTMA123, OR PROTECTIVE COATING PER TPI 1).

NOTE #1:
DOORS ASSEMBLIES LABELED WITH A LIMITED WATER RATING AS SPECIFIED IN AAMA/WDMA/CSA101/I.S./A440 SHALL BE PERMITTED TO BE INSTALLED AT LOCATIONS PROTECTED BY AN OVERHANG, AND THE OH RATIO ABOVE IS EQUAL OR GREATER THAN 1. THERE ARE NO WATER PENETRATION REQUIREMENTS FOR THE DOOR INSTALLED IN NONHABITABLE AREAS.
OH LENGTH:
THE HORIZONTAL MEASURE OF HOW FAR AN OVERHANG OVER A DOOR PROJECTS OUT FROM DOOR SURFACE AS SHOWN IN FIGURE A. WHERE THE OVERHANG EXTENDS TO SIDE WALLS ON BOTH SIDES OF THE DOOR THAT HAVE A HEIGHT EQUAL TO THE OVERHANG HEIGHT, THE OH LENGTH IS AS SHOWN IN FIGURE B.

USE CHARTS AS FOLLOWS.

STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD OR WIND TUNNEL REPORTS.

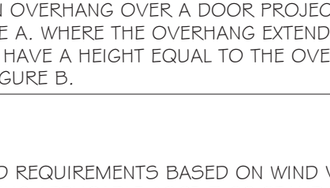
STEP 2: SEE SHEET E1 FOR APPROVED TYPICAL ELEVATION & CONFIGURATION & DESIGN LOAD.

STEP 3: ANCHOR OPTION SEE SHEET A1. ANCHOR SPACING SEE SHEET E1.

STEP 4: THE LOWEST VALUE RESULTING FROM STEPS 2 & 3 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER



LIMITATIONS OF USE

A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

B- 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 ON THIS DOCUMENT.

C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

D- 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

E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FLORIDA APPROVAL:
FL48484.1

YIPING WANG
LICENSE
No 55883
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Oct 08th, 2026

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
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www.MCYEngineering.com mcy@mcyengineering.com

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COVER

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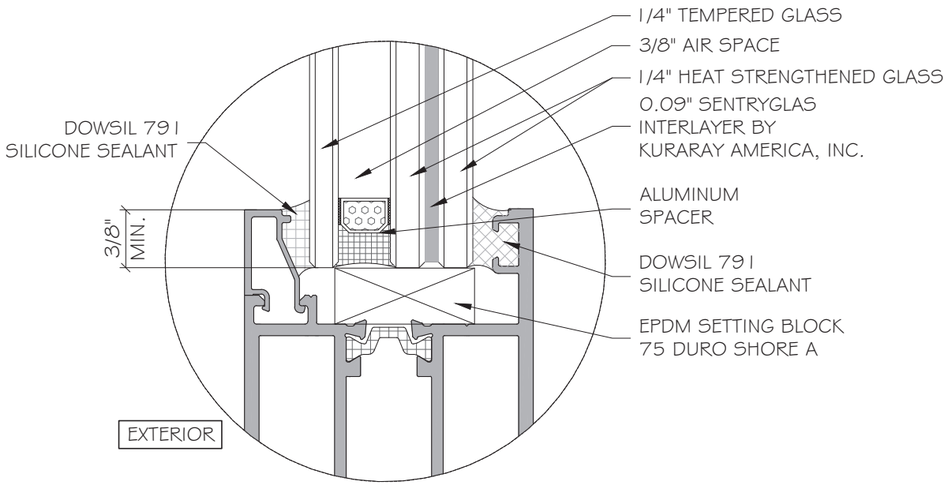
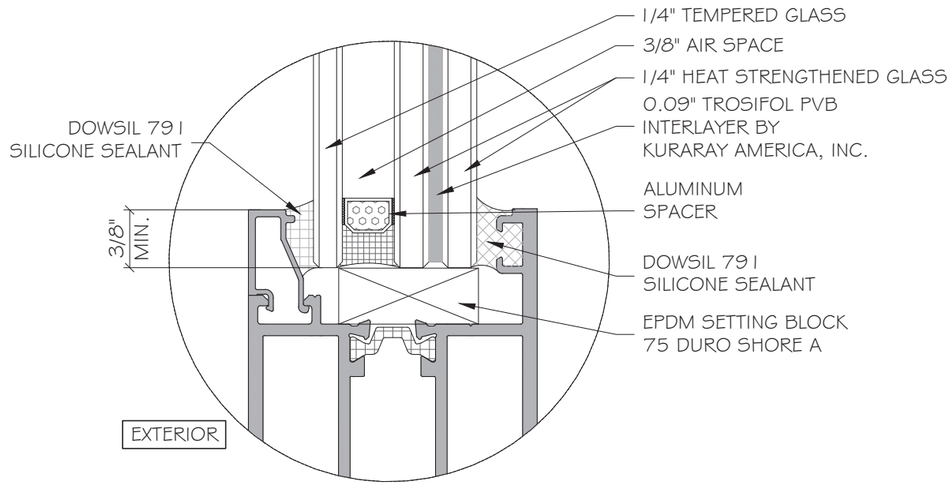
1 OF 15



GLASS TYPE G1
1 1/8" NOMINAL OVERALL



GLASS TYPE G2
1 1/8" NOMINAL OVERALL

NOTE:
GLASS COMPLIES WITH ASTM E1300-16
OR 24 (3 SEC. GUSTS).

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G1

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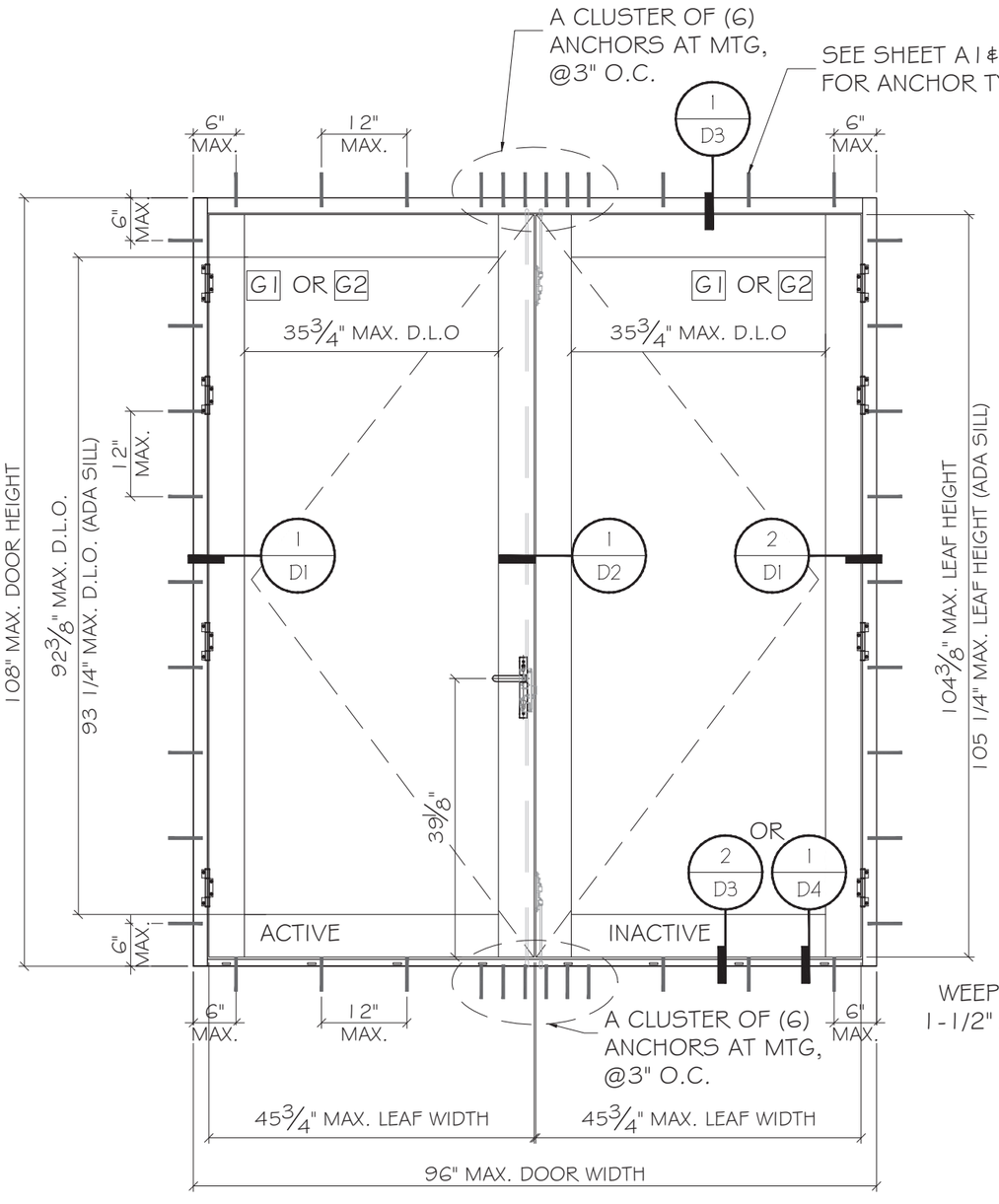
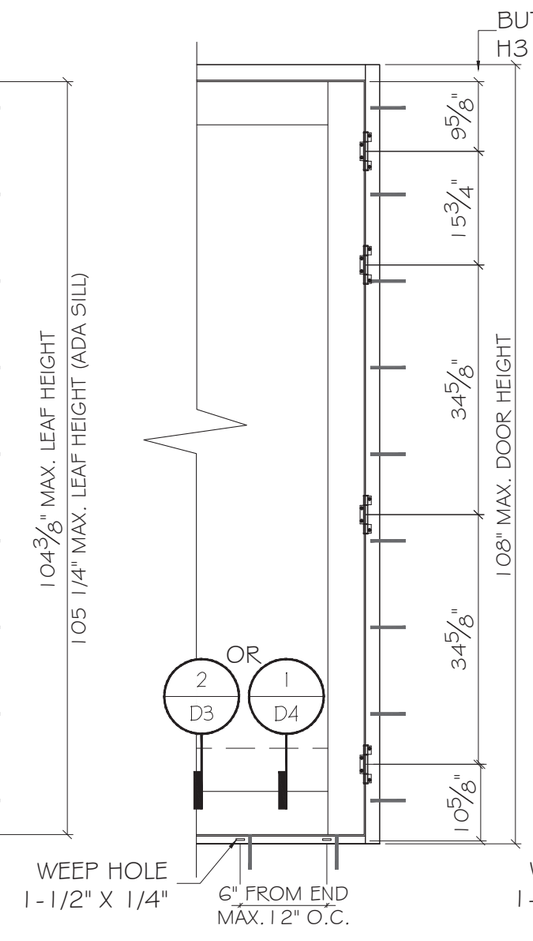
2 OF 15

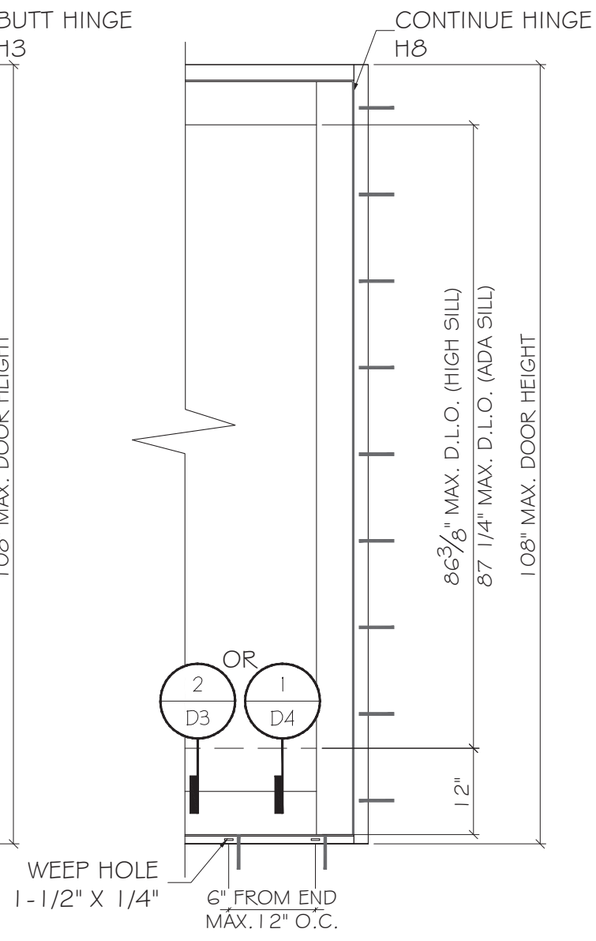


TYPICAL EXTERIOR ELEVATION

MAX. DESIGN LOAD: +/- 80 PSF
DOOR APPROVED FOR WATER INFILTRATION WITH HIGH SILL (E3) & MID DOOR STOP (E8).



HINGE LAYOUT



CONTINUE HINGE OPTION

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E1

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TYPICAL ANCHOR TYPES:
SEE ELEVATIONS FOR SPACING

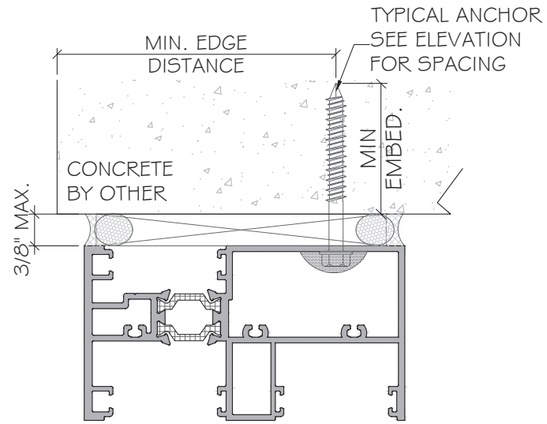
TYPE "A": 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
WITH 1 3/4" MIN. EMBED INTO CONCRETE.
WITH 1 1/4" MIN. EMBED INTO HOLLOW BLOCK (JAMB ONLY)
WITH 1 3/4" MIN. EMBED INTO GROUT FILLED BLOCK (JAMB ONLY)

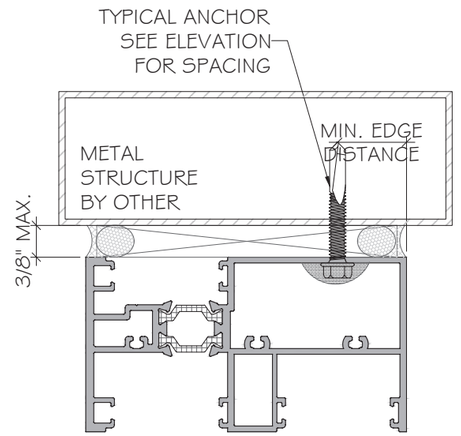
TYPE "B": 1/4" TEKS SELF-DRILLING SCREW (GRADE 5)
INTO FLORIDA APPROVED MULLIONS OR METAL STRUCTURES.
(3) THREAD MIN. PENETRATION BEYOND METAL STRUCTURE.
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PANTED).

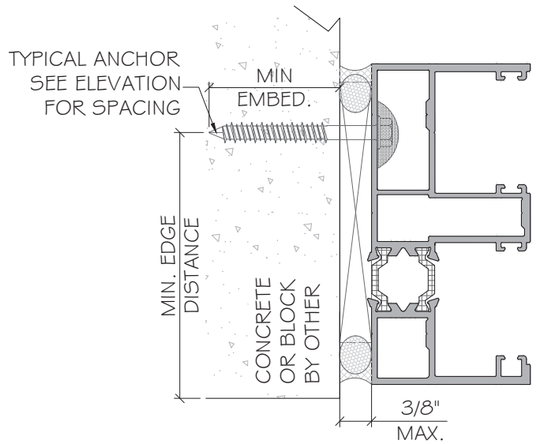
TYPICAL ANCHOR EDGE DISTANCE:
INTO CONCRETE = 2 1/2" MIN.
INTO METAL STRUCTURE = 2" MIN.

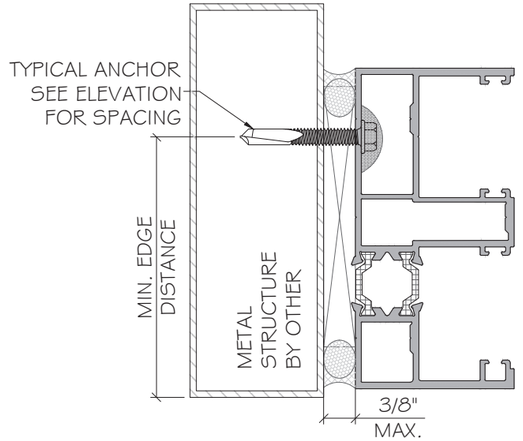
CONCRETE f'c = 3000 PSI MIN.
12 GA. MIN. (Fy=36 KSI MIN.)
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)

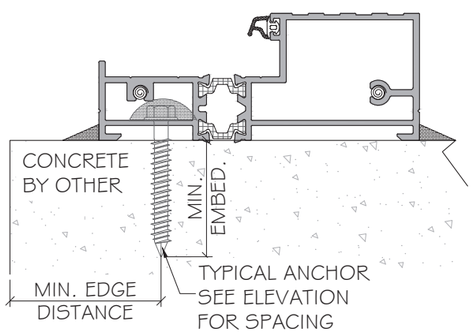
NOTE:METAL STRUCTURES BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

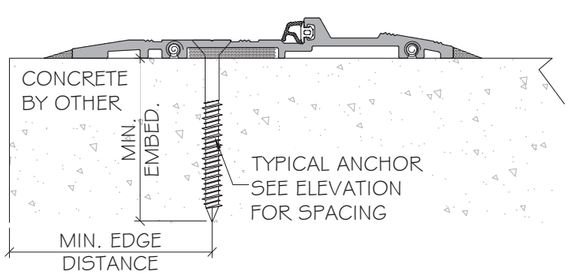












FLORIDA APPROVAL:
FL48484.1

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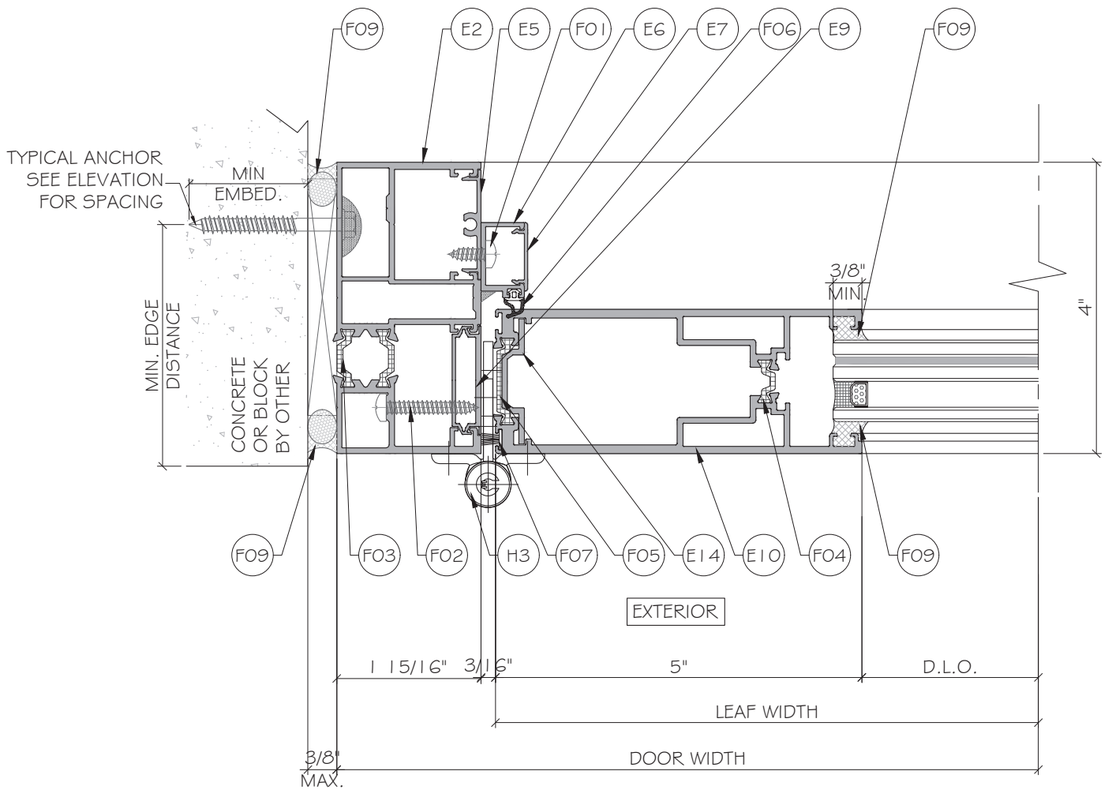
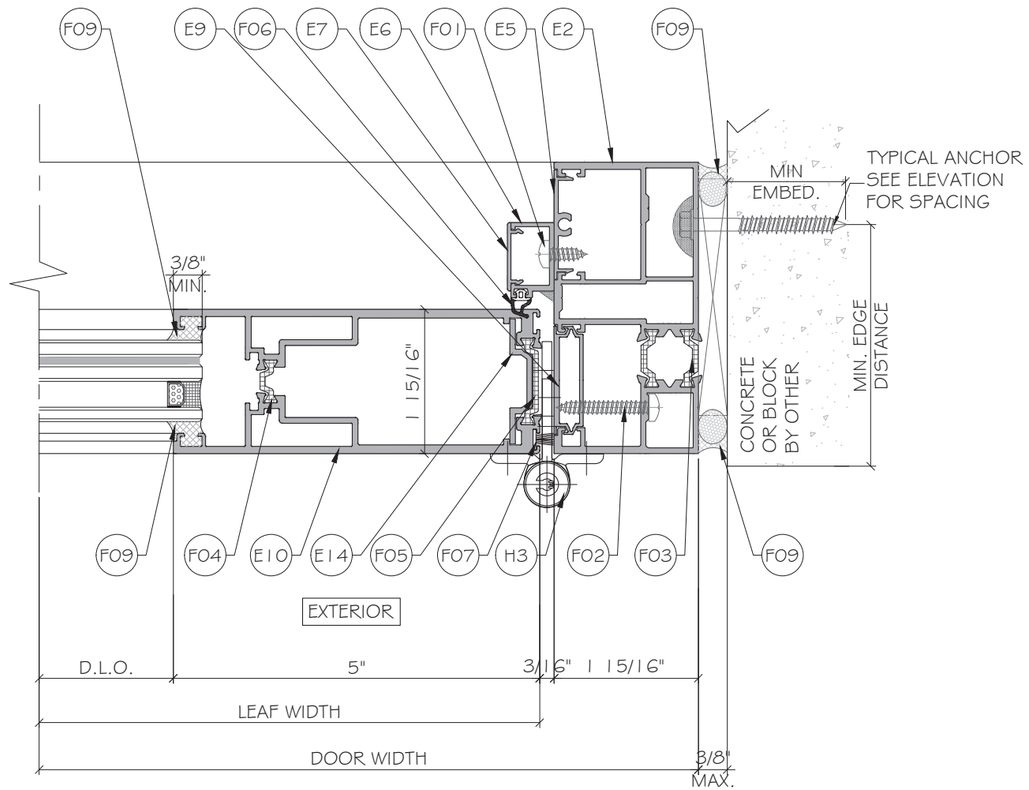


1 / D1 DETAIL



2 / D1 DETAIL

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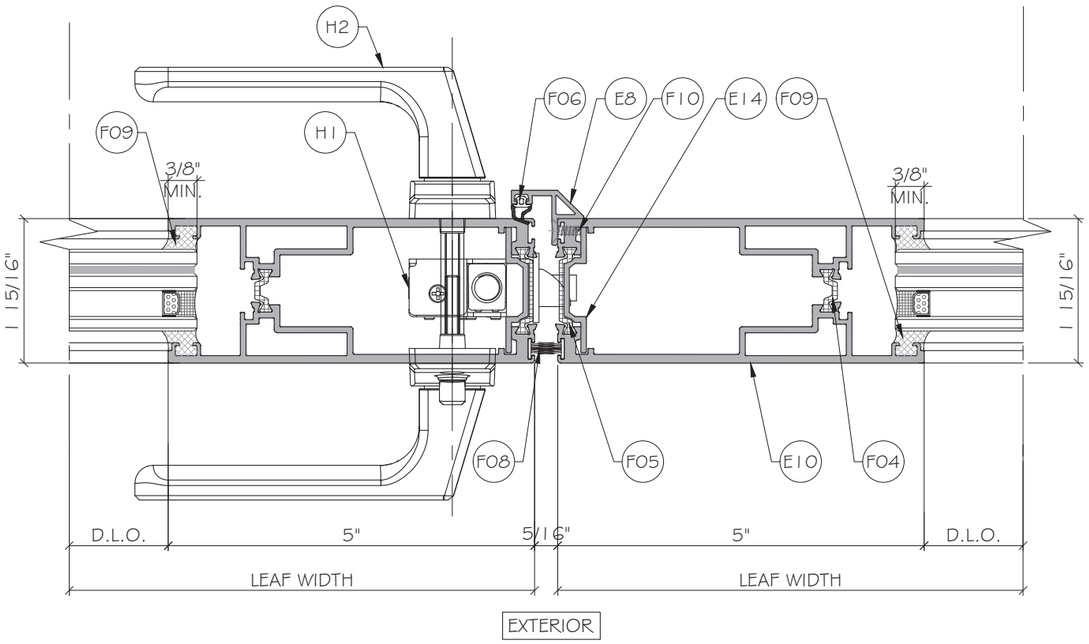
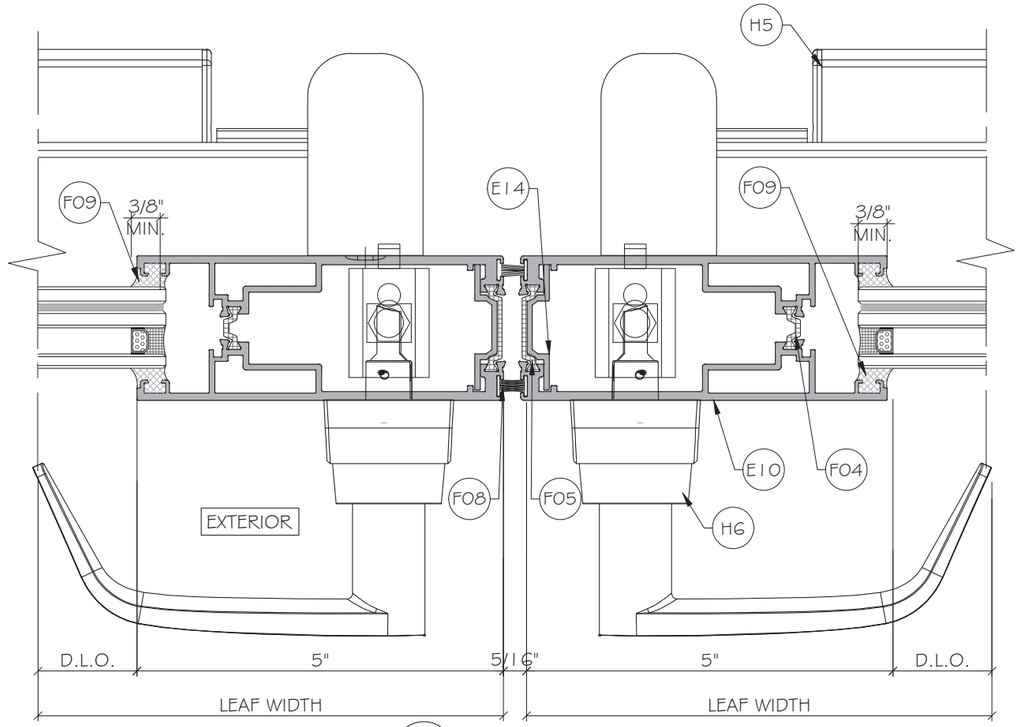
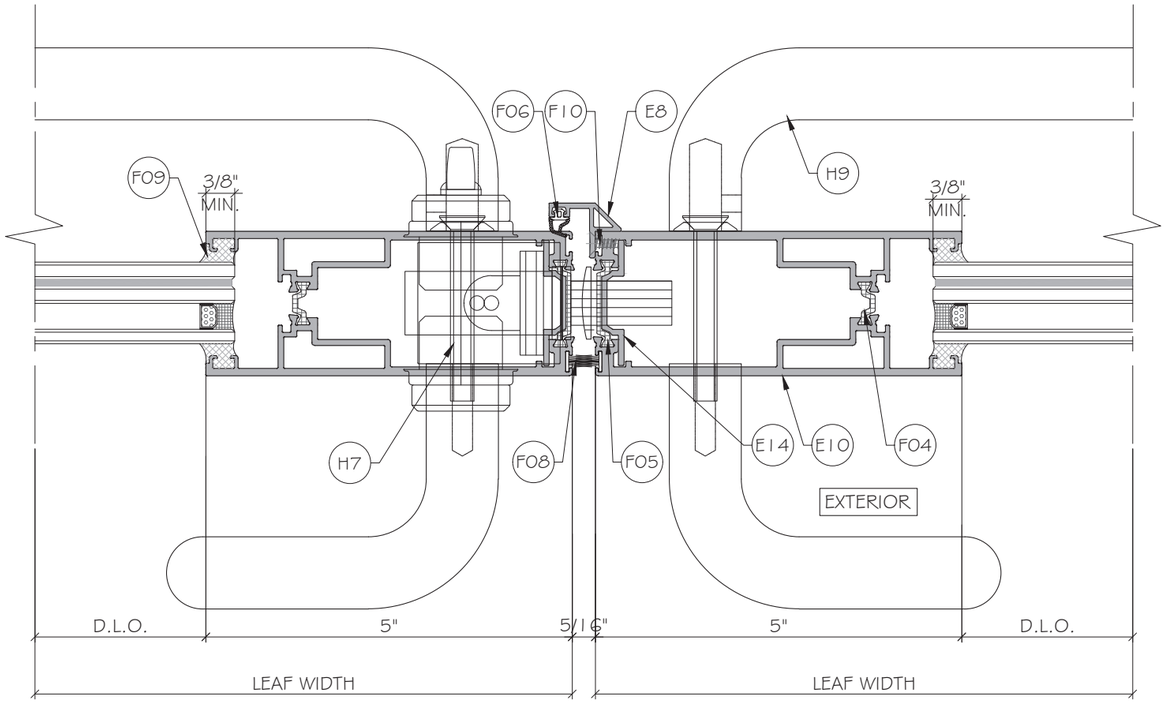


1/D2 DETAIL
APPROVED
FOR WATER
INFILTRATION



1/D2 OPTION
NOT APPROVED
FOR WATER
INFILTRATION



1/D2 OPTION
APPROVED FOR
WATER INFILTRATION

FLORIDA APPROVAL:
FL48484.1

YIPING WANG
STRUCTURAL
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STATE OF FLORIDA
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D2

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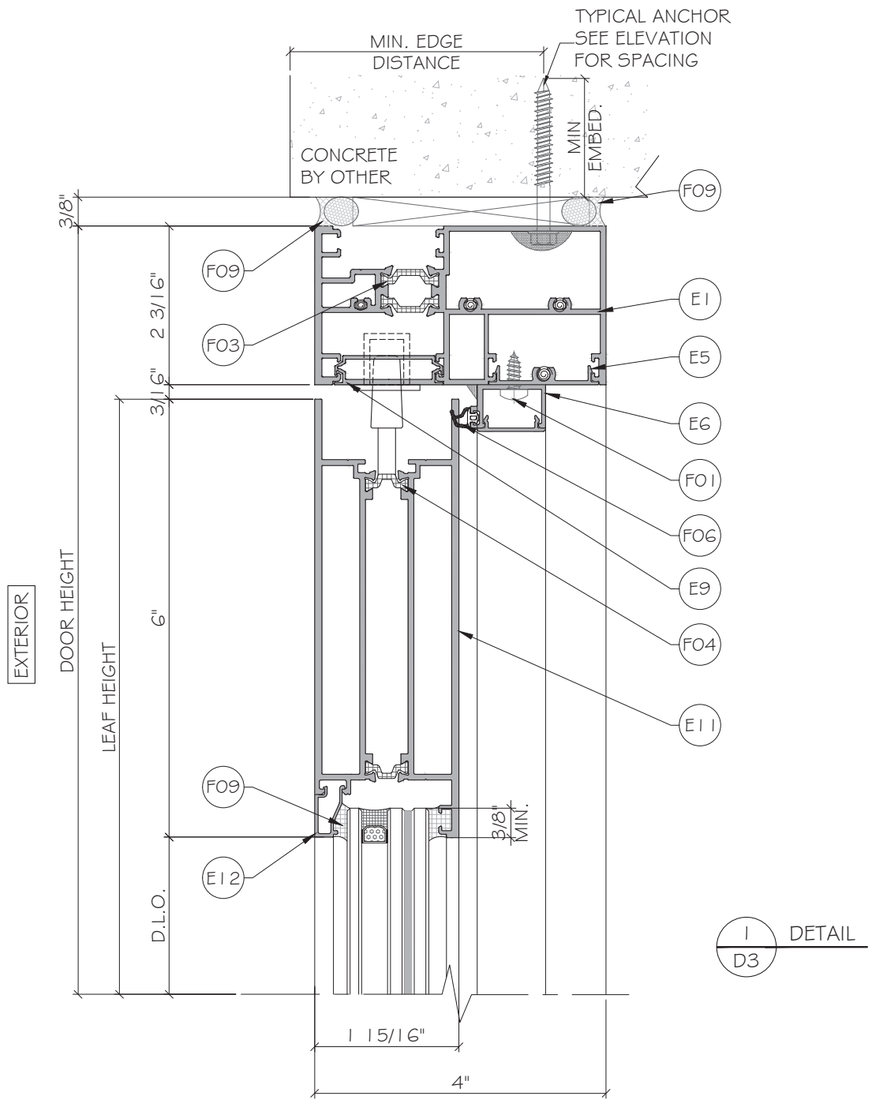
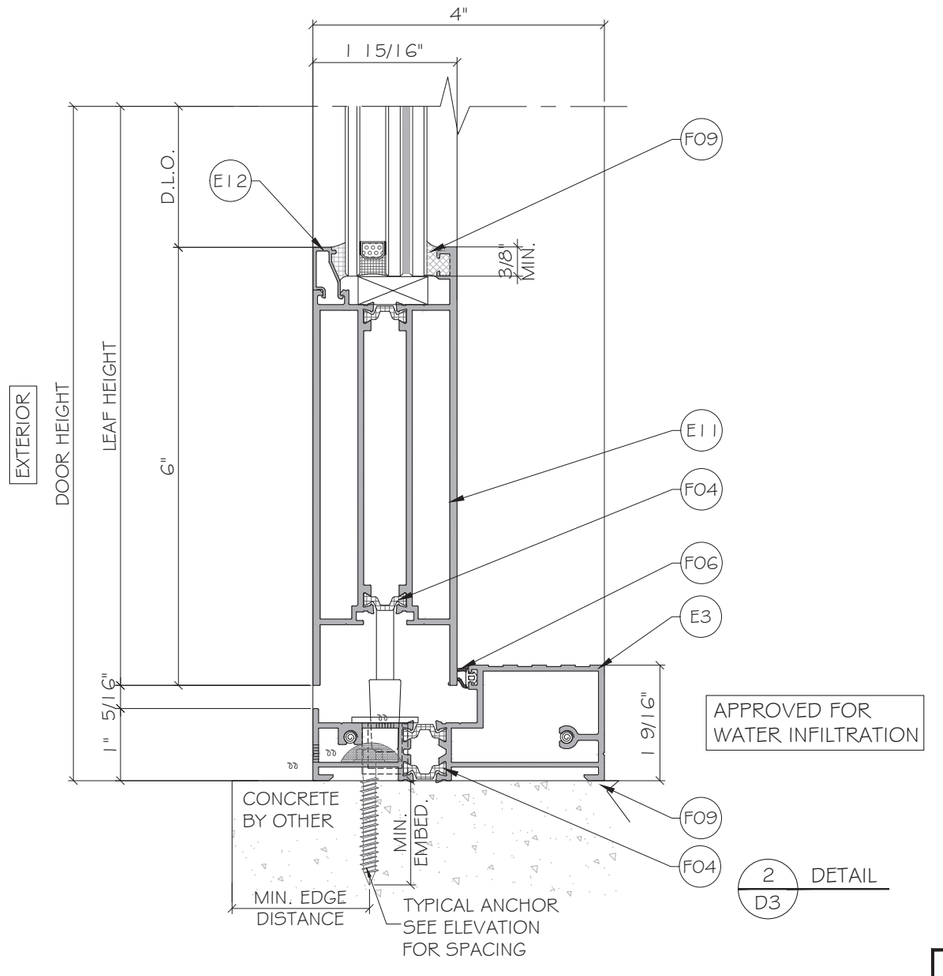


1 / D3 DETAIL



2 / D3 DETAIL

FLORIDA APPROVAL:

FL48484.1

YIPING WANG
FLORIDA REGISTRATION
L.C.A.N. 28677

STATE OF FLORIDA
PROFESSIONAL ENGINEER
YIPING WANG
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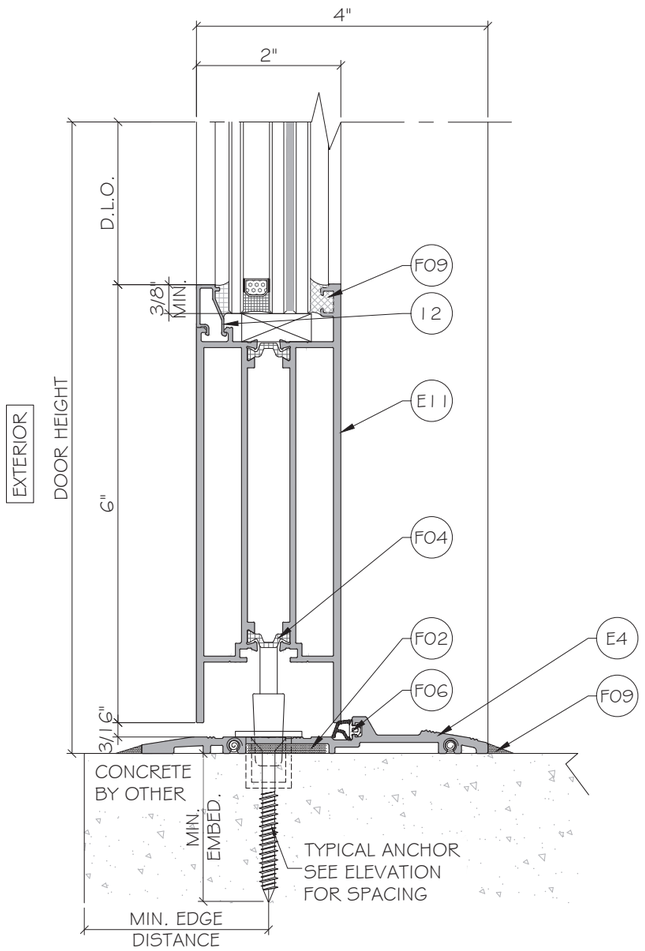
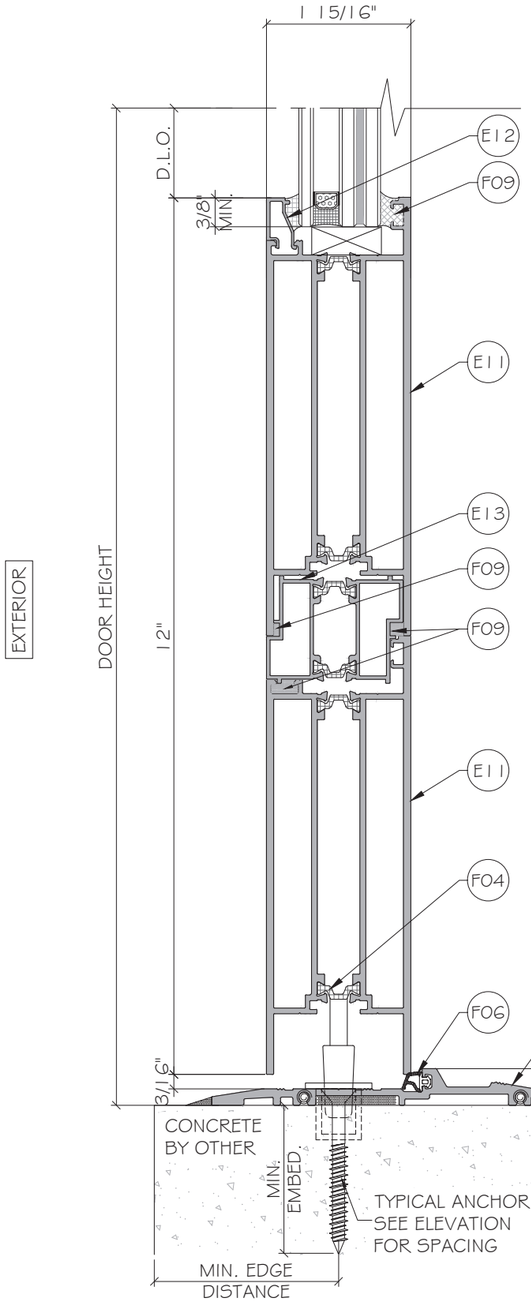


1 / D4 DETAIL

ADA SILL NOT APPROVED FOR WATER INFILTRATION



1 / D4 OPTION

ADA SILL NOT APPROVED FOR WATER INFILTRATION

FLORIDA APPROVAL:

FL48484.1

YIPING WANG LICENSE # 55883 L.C.A.N. 28677 STATE OF FLORIDA PROFESSIONAL ENGINEER No 55883

Oct 08th, 2026

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027 P: 305 588 5224
www.MCYEngineering.com mcy@mcyengineering.com

SERIES YY100 THERMAL BREAK HINGED DOOR-LARGE MISSILE IMPACT

SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD
LEVEL 5, BUILDING 10, NO.8666 HUNAN RD, PUDONG NEW AREA
Shanghai, China
TEL.86 021-5822 0630 CELL.86 135-8572-3609

Rev. No.	Date	Drawn By	Description
R0	10.08.2026	JAMES	NEW APPLICATION

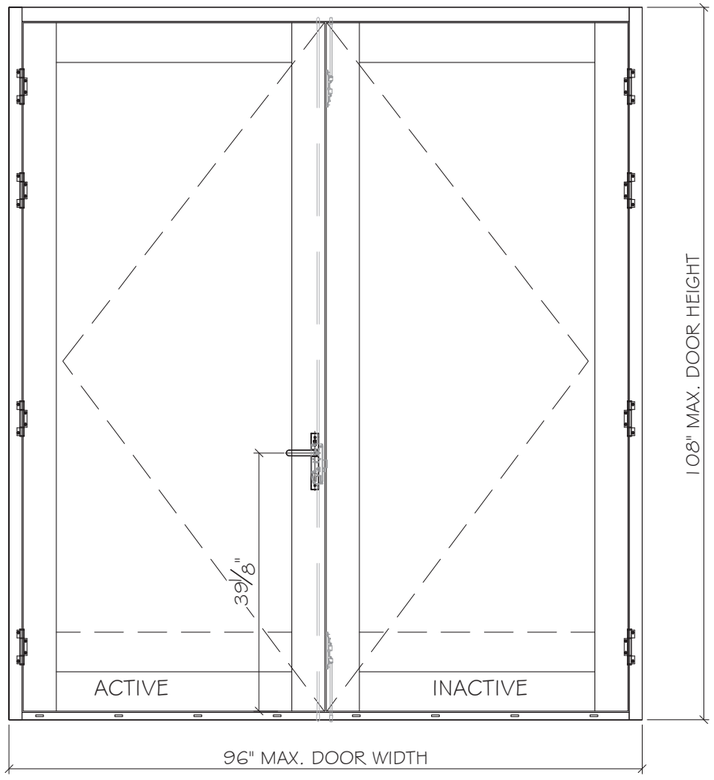
Drawn Date: 10.08.2026
Drawn By: James

DRAWING NO.
AD26-44

D4

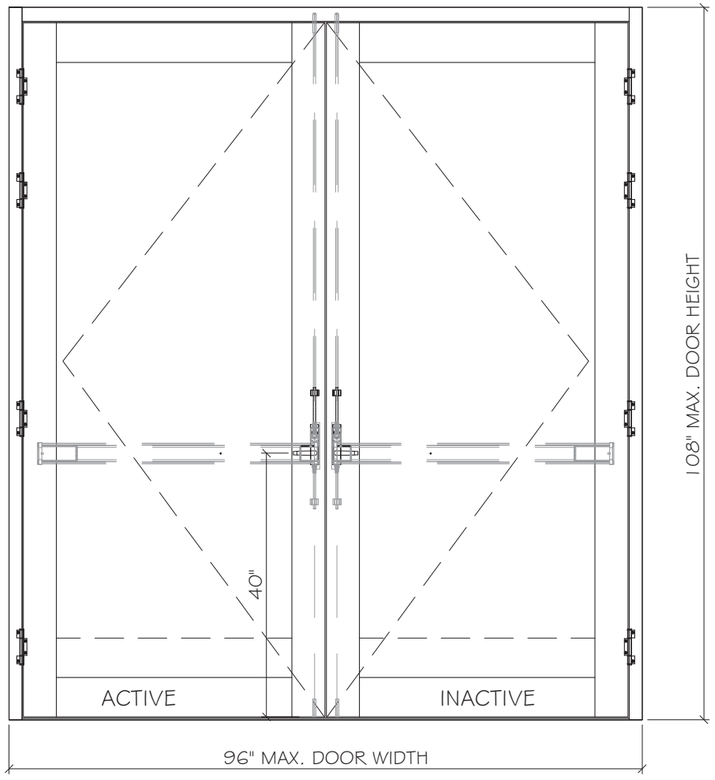
Sheet No.
8 OF 15

FRENCH DOOR HARDWARE



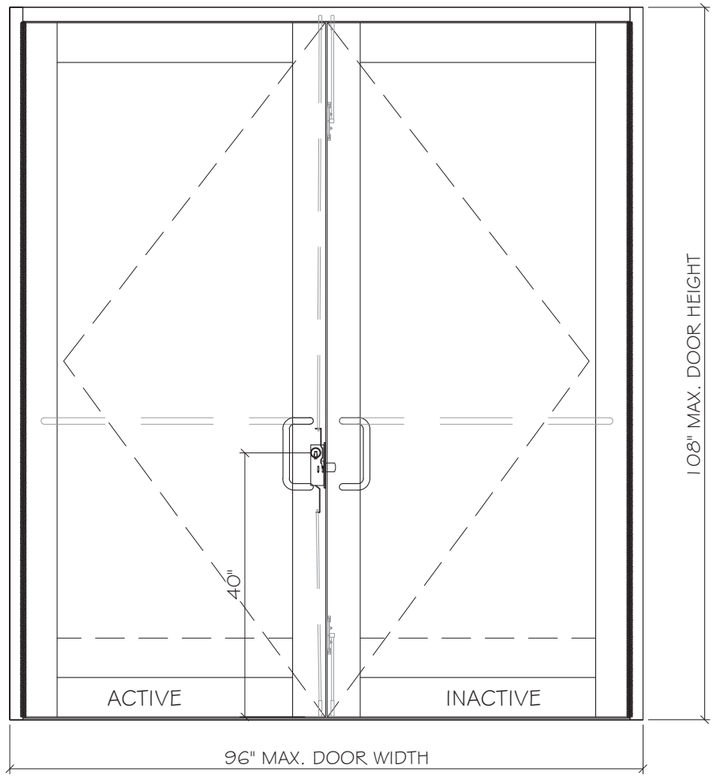
HARDWARE TYPE A

MAX. DESIGN LOAD: +/- 80 PSF



HARDWARE TYPE B

MAX. DESIGN LOAD: +/- 80 PSF



HARDWARE TYPE C

MAX. DESIGN LOAD: +/- 80 PSF

FLORIDA APPROVAL:

FL48484.1

YIPING WANG
LICENSE
No 55883
STATE OF FLORIDA
PROFESSIONAL ENGINEER

YIPING WANG, P.E.
FLORIDA REGISTRATION
#55883
C.A.N. 028877

Oct.08th, 2026

MCY ENGINEERING, INC.
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Drawn Date: 10.08.2026
Drawn By: James

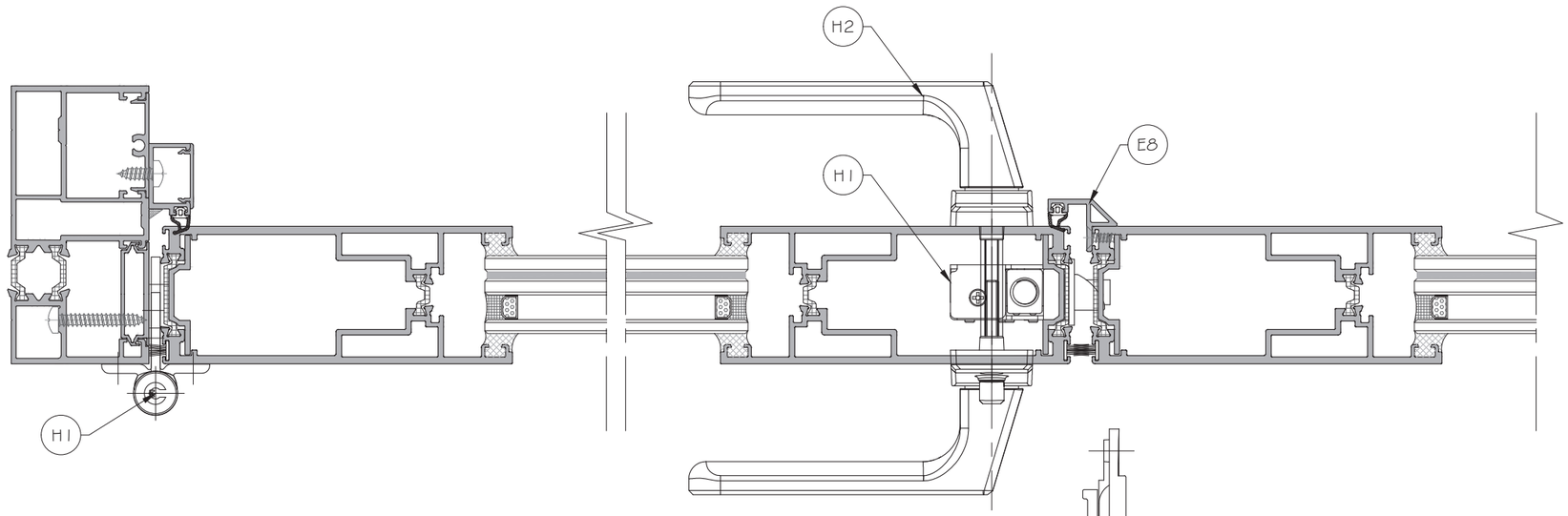
DRAWING NO.
AD26-44

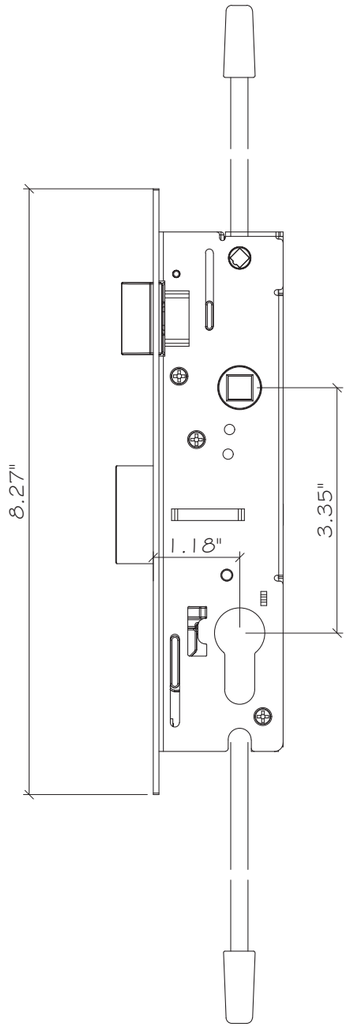
HARDWARE

Sheet No.
9 OF 15

HARDWARE TYPE A

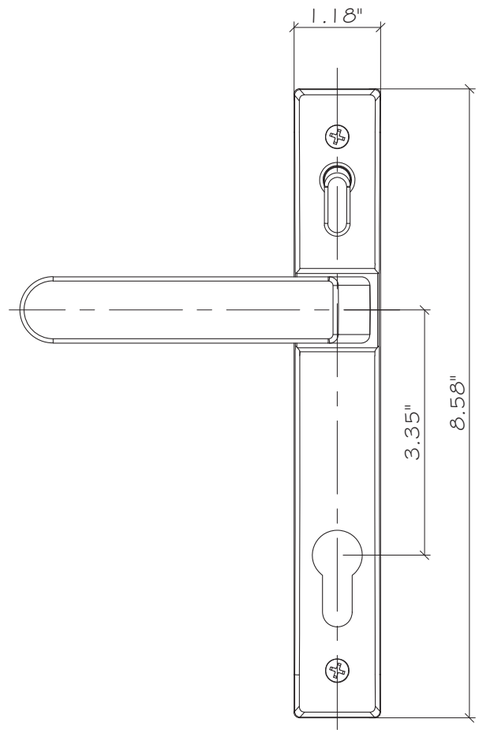
FRENCH DOOR HARDWARE





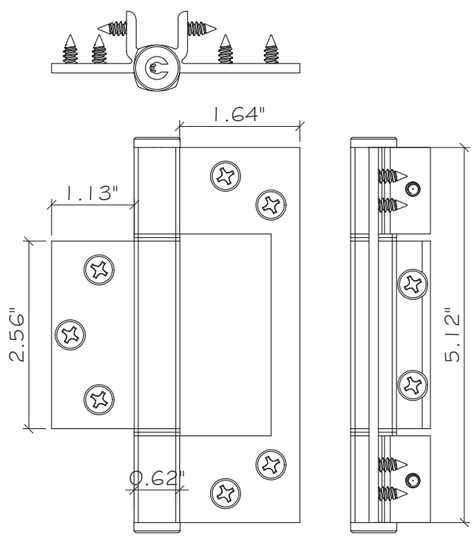
H1 LOCK BODY

ARCHIE (S7041-1)



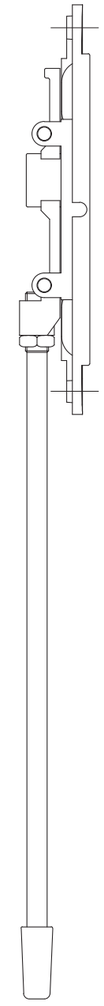
H2 HANDLE

ARCHIE (ASHDX/DCLD-BK)



H3 HINGE

CODE: CIILOCK 4408



H4 LOCK BOLT TOP & BOTTOM

CODE: KINLONG KFJ51220

FLORIDA APPROVAL:

FL48484.1

YIPING WANG LICENSE No 55883 STATE OF FLORIDA PROFESSIONAL ENGINEER

Oct 08th, 2026

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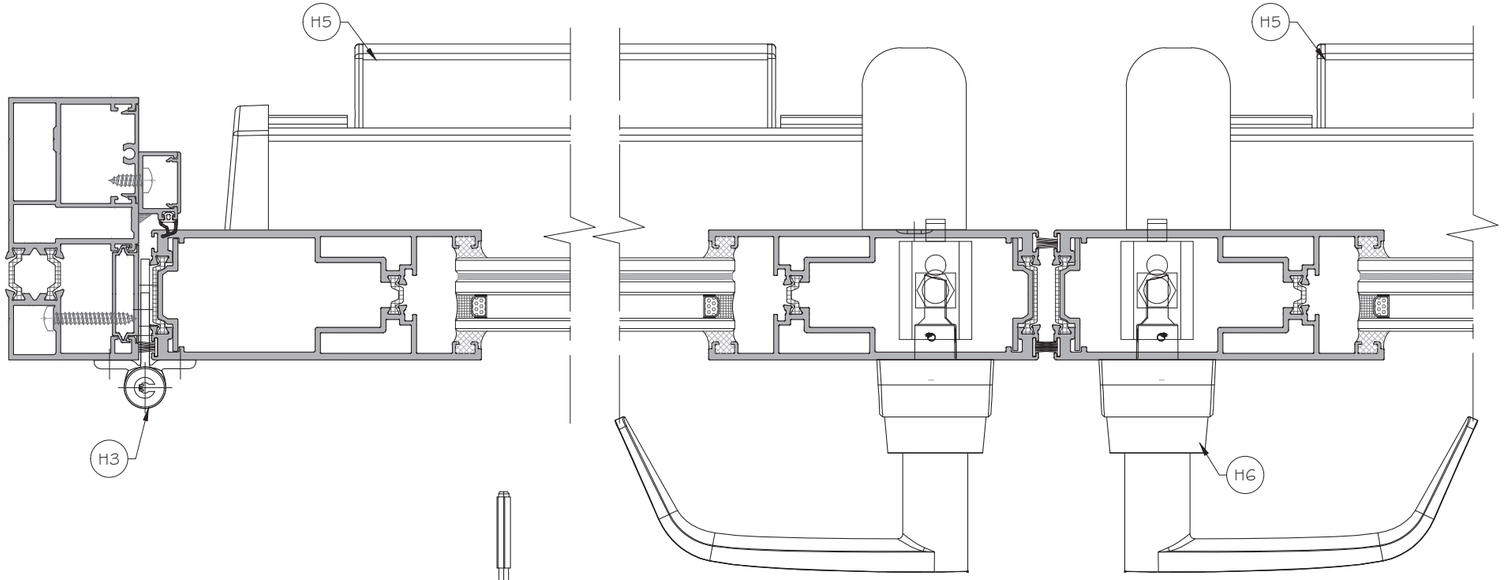
H1

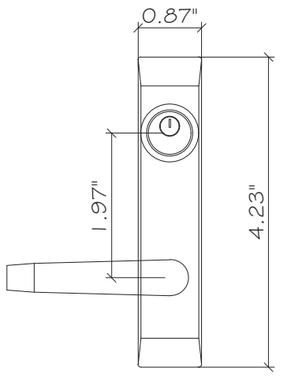
Sheet No.

10 OF 15

HARDWARE TYPE B

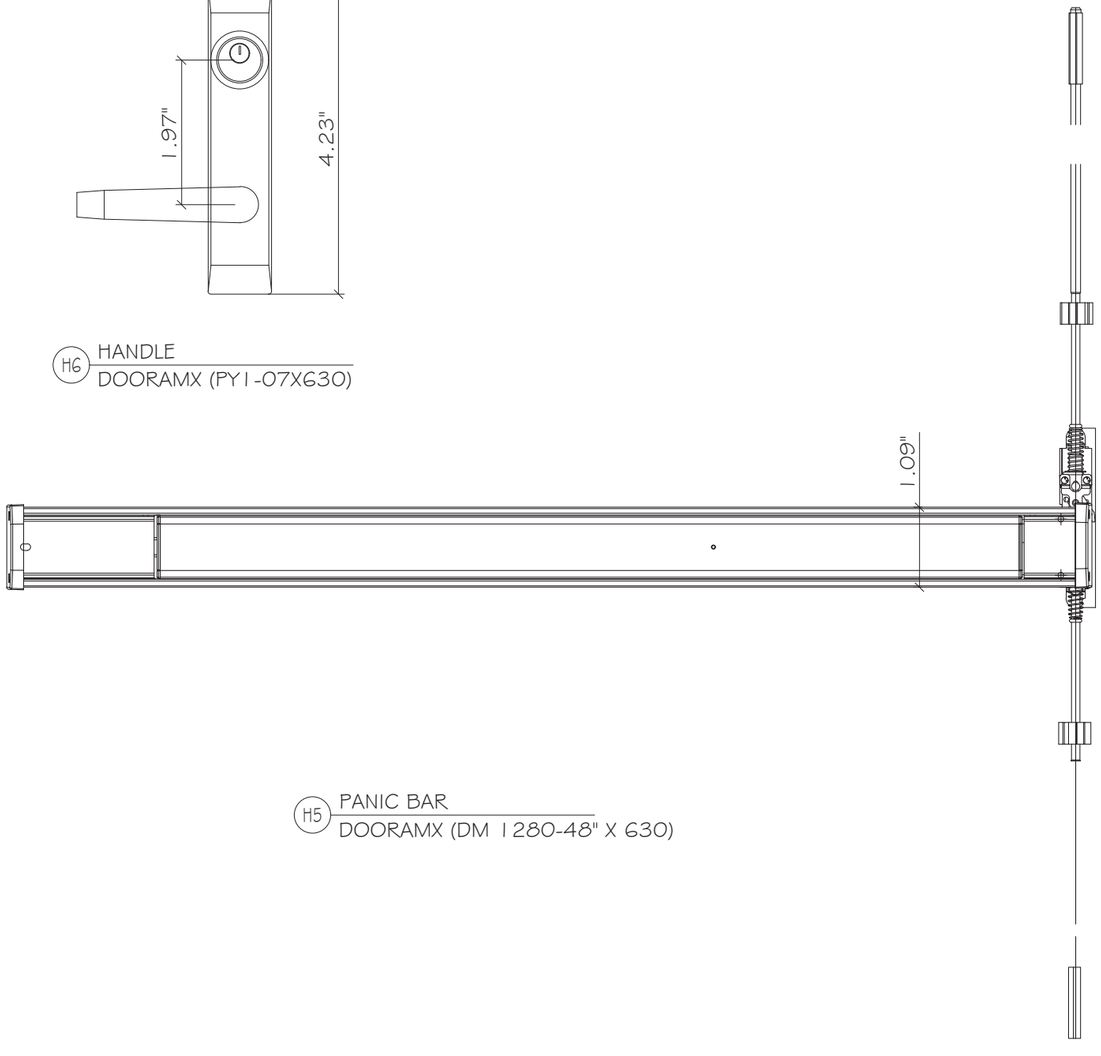
FRENCH DOOR HARDWARE





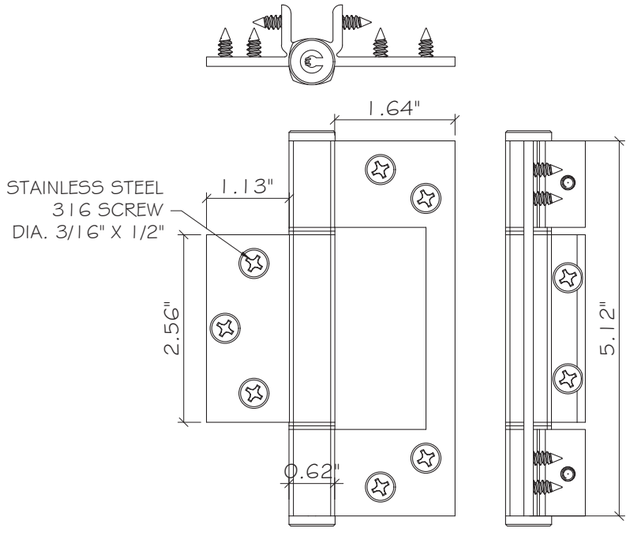
H6 HANDLE

DOORAMX (PY1-07X630)



H5 PANIC BAR

DOORAMX (DM 1280-48" X 630)



H3 HINGE

CODE:CIILOCK 4408

FLORIDA APPROVAL:

FL48484.1

YIPING WANG
FLORIDA REGISTRATION
L.A.N. 28677
LICENSE
No 55989
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Oct.08th, 2026

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DRAWING NO.

AD26-44

H2

Sheet No.

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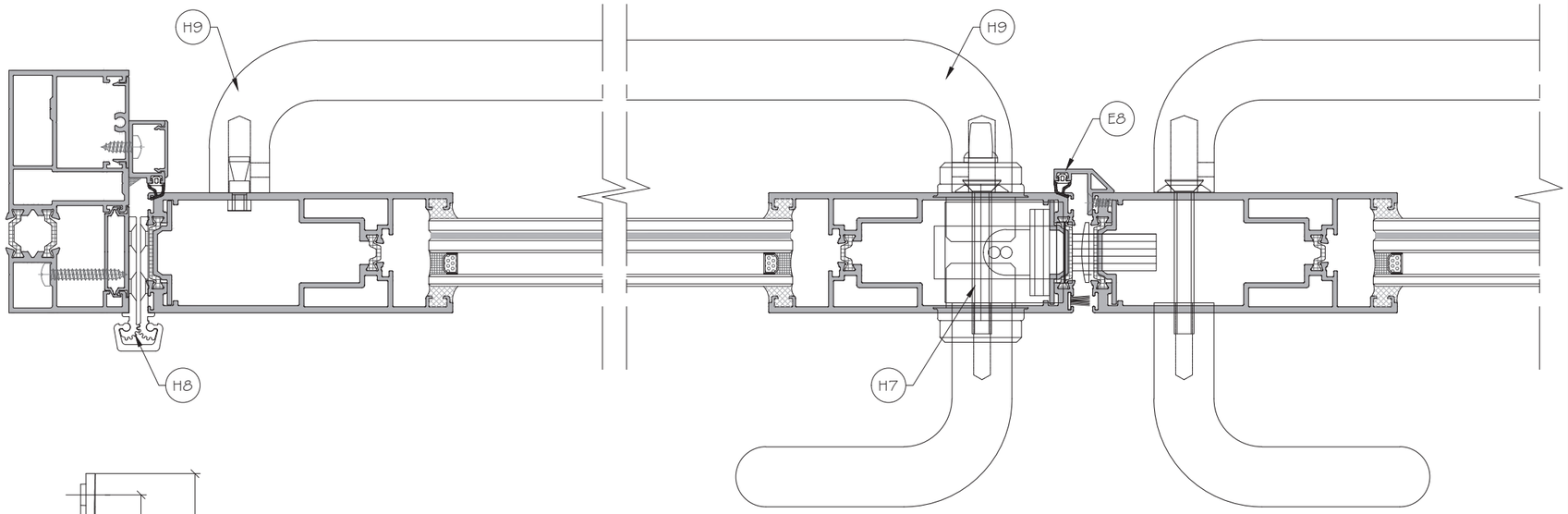
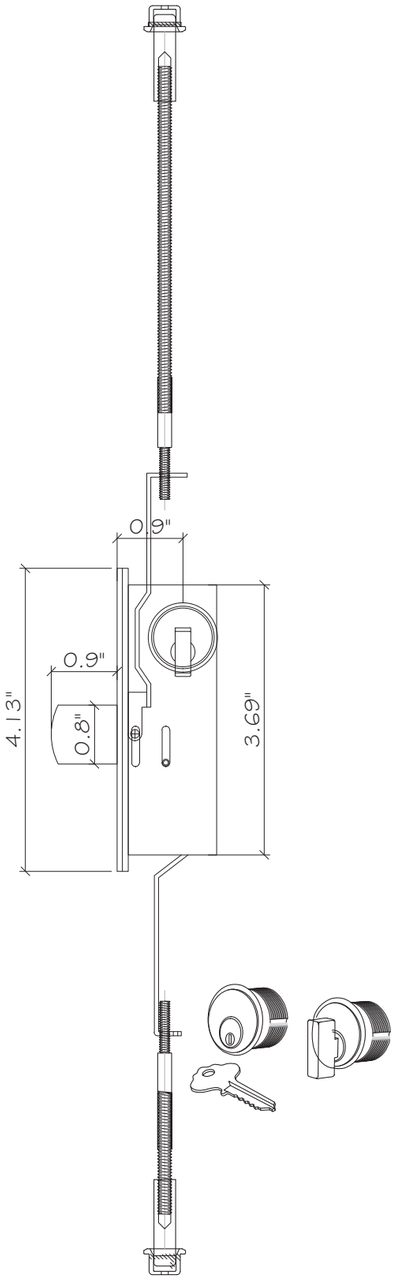
HARDWARE TYPE C

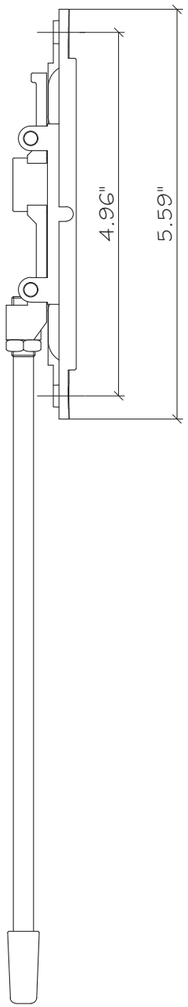
FRENCH DOOR HARDWARE





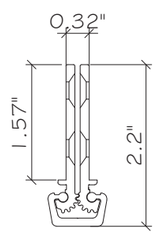
H7 LOCK BODY

SECUTOR #012,#018A,#019A



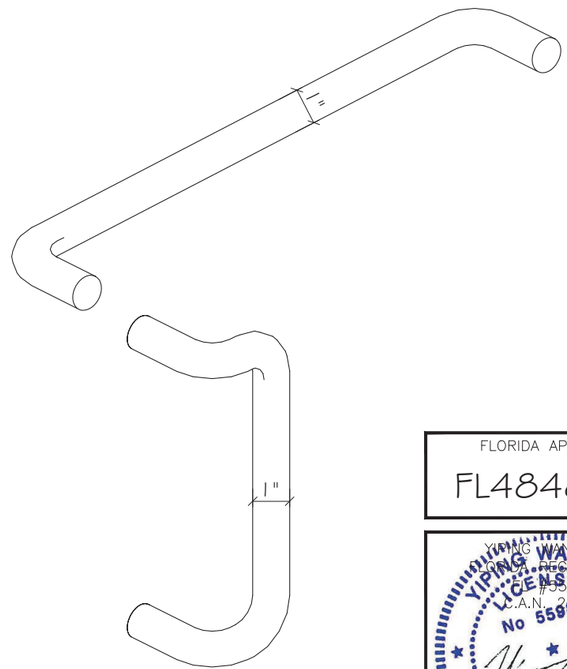
H4 LOCK BOLT TOP&BOTTOM

CODE:KINLONG KFJ51220



H8 CONTINUOUS HINGE

CODE:MEIHE YHG004



H9 HANDLE

BOTONHD 30640,30665

FLORIDA APPROVAL:

FL48484.1

YIPING WANG LICENSE NO.55883 C.A.N. 28677 STATE OF FLORIDA PROFESSIONAL ENGINEER

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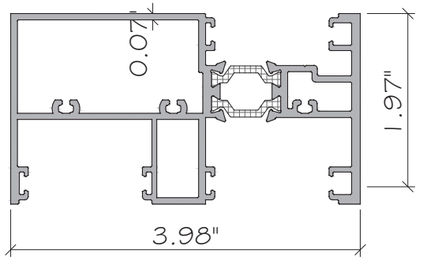
DRAWING NO.

AD26-44

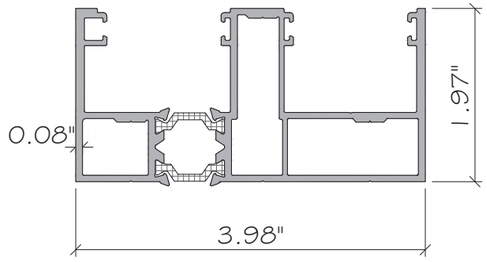
H3

Sheet No.

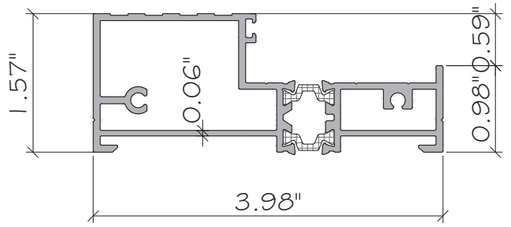
12 OF 15



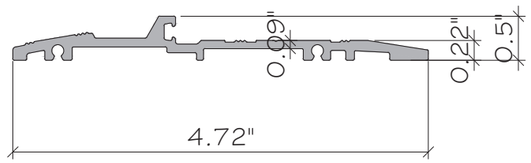
E1 TRANSOM
ALUM. 6063-T5



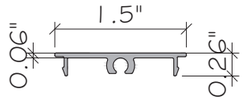
E2 FRAME JAMB
ALUM. 6063-T6



E3 SILL
ALUM. 6063-T5



E4 SILL
ALUM. 6063-T5



E5 SCREW CAP
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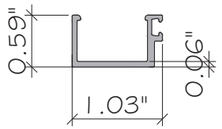
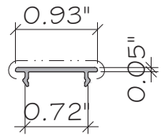
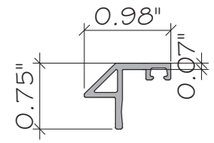


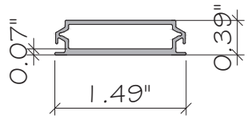
E6 DOOR STOP
ALUM. 6063-T5



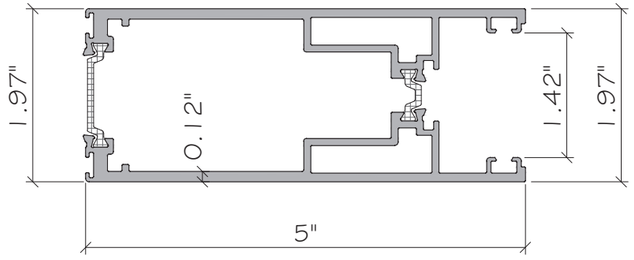
E7 DOOR STOP CAP
ALUM. 6063-T5



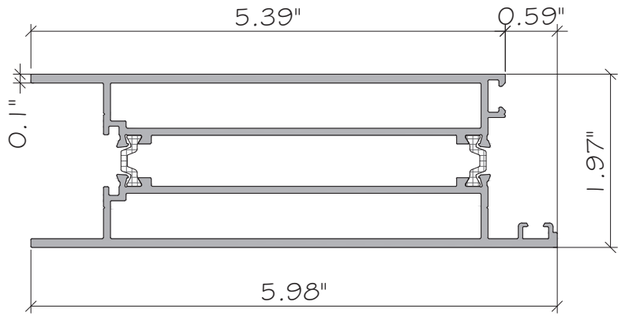
E8 MID DOOR STOP
ALUM. 6063-T5



E9 CAP
ALUM. 6063-T5



E10 SASH
ALUM. 6063-T6



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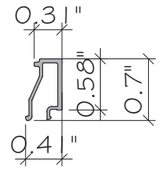
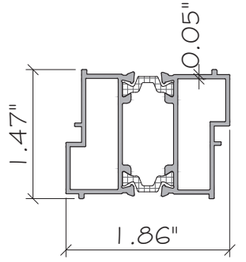
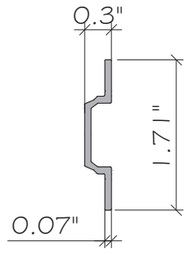
ALUM. 6063-T5



E12 GLASS BEAD
ALUM. 6063-T5



E13 CLIP
ALUM. 6063-T5



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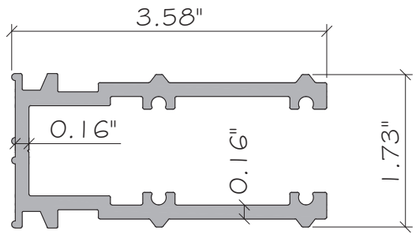
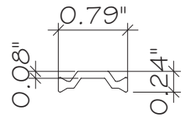
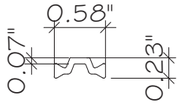
ALUM. 6063-T5



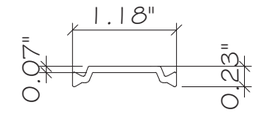
E15 JOINT
ALUM. 6063-T5



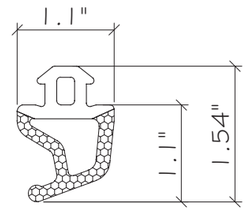
F03 THERMAL BREAK
TECHNOFORM



F04 THERMAL BREAK
TECHNOFORM



F05 THERMAL BREAK
TECHNOFORM



F06 GASKET
EPDM

FLORIDA APPROVAL:
FL48484.1

YIPING WANG LICENSE
No 55883
STATE OF FLORIDA
PROFESSIONAL ENGINEER
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Drawn By James

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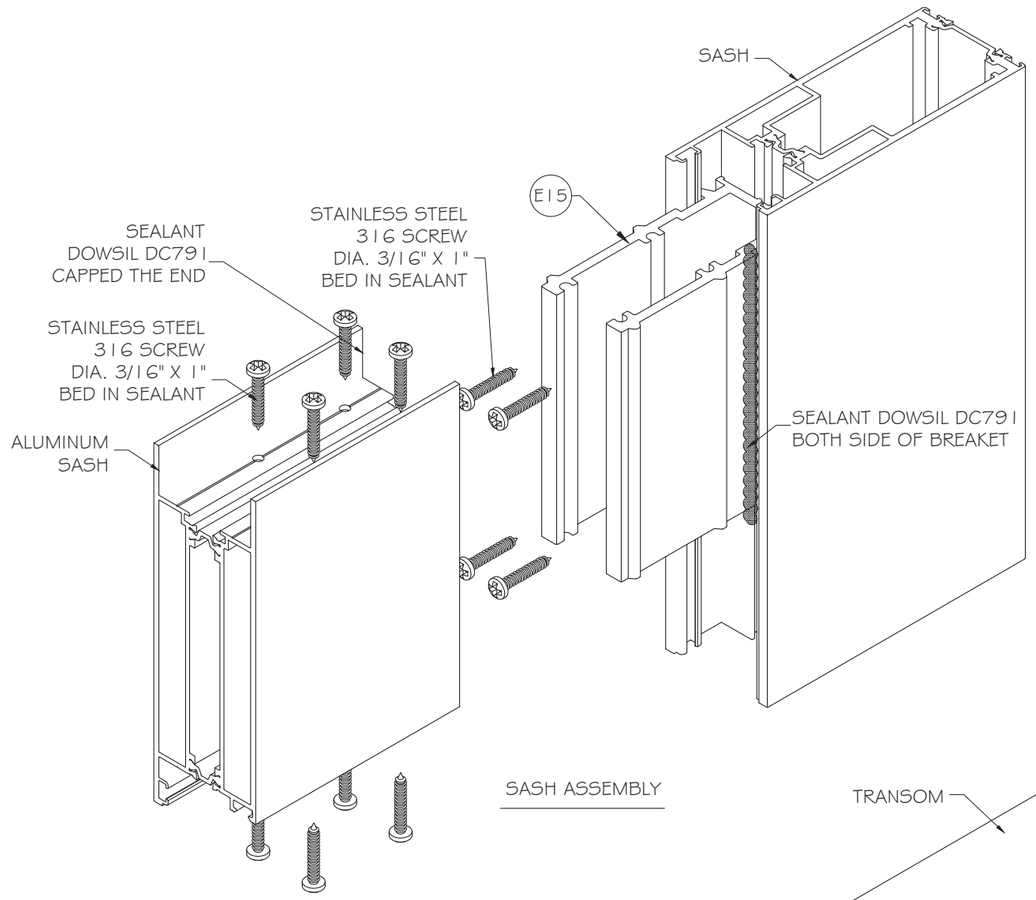
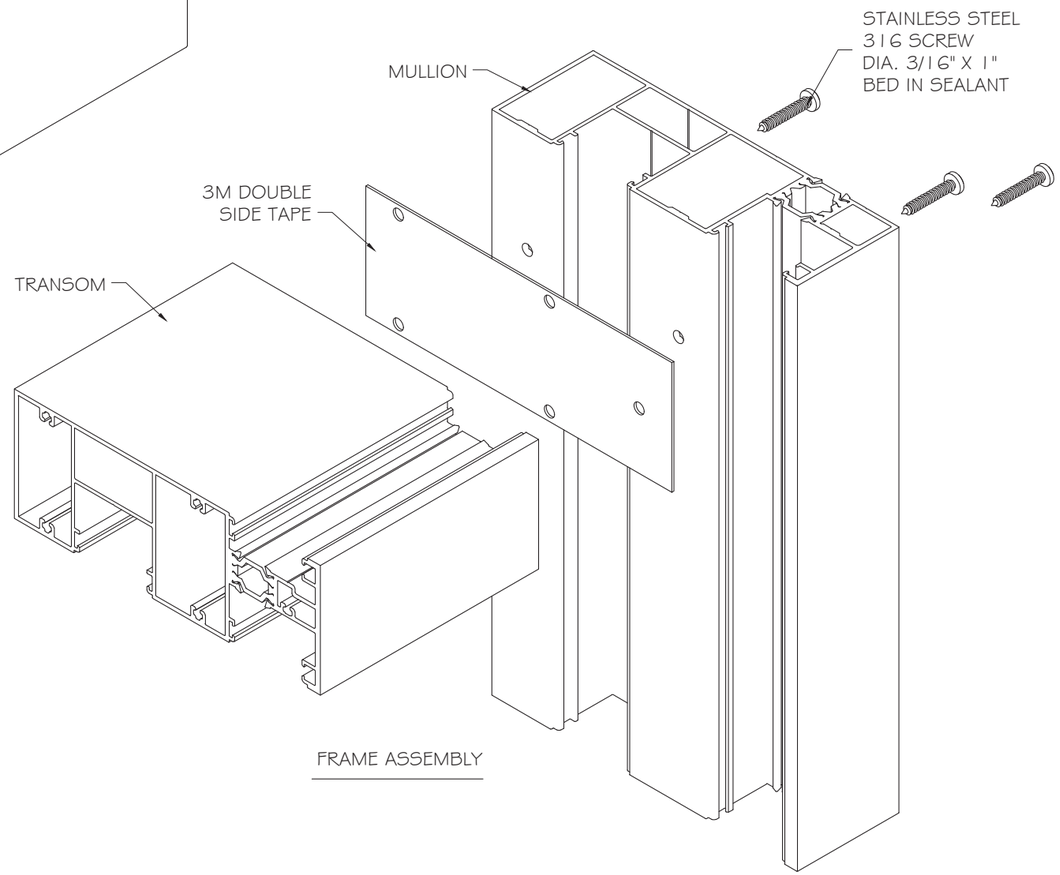
PART

Sheet No.
13 OF 15



SASH ASSEMBLY



FRAME ASSEMBLY

FLORIDA APPROVAL:

FL48484.1

YIPING WANG
FLORIDA REGISTRATION
No. 55989
L.C.A.N. 28677
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Oct 08th, 2026

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027 P: 305 588 5224
www.MCYEngineering.com mcy@mcyengineering.com

SERIES YY100 THERMAL BREAK HINGED DOOR-LARGE MISSILE IMPACT

SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD
LEVEL 5, BUILDING 10, NO.8666 HUNAN RD, PUDONG NEW AREA
Shanghai, China
TEL.86 021-5822 0630 CELL.86 135-8572-3609

Rev. No.	Date	Drawn By	Description
R0	10.08.2026	JAMES	NEW APPLICATION

Drawn Date: 10.08.2026
Drawn By: James

DRAWING NO.
AD26-44

ASSEMBLY

Sheet No.
14 OF 15

BILL OF MATERIAL

ITEM	DESCRIPTION	MATERIAL
E1	TRANSOM	ALUMINUM 6063-T5
E2	FRAME JAMB	ALUMINUM 6063-T6
E3	SILL	ALUMINUM 6063-T5
E4	SILL	ALUMINUM 6063-T5
E5	SCRERW CAP	ALUMINUM 6063-T5
E6	DOOR STOP	ALUMINUM 6063-T5
E7	DOOR STOP CAP	ALUMINUM 6063-T5
E8	MID DOOR STOP	ALUMINUM 6063-T5
E9	CAP	ALUMINUM 6063-T5
E10	SASH	ALUMINUM 6063-T6
E11	SASH	ALUMINUM 6063-T5
E12	GLASS BEAD	ALUMINUM 6063-T5
E13	CLIP	ALUMINUM 6063-T5
E14	CLIP	ALUMINUM 6063-T5
E15	JOINT	ALUMINUM 6063-T5

BILL OF MATERIAL

ITEM	DESCRIPTION	MATERIAL	MARK
F01	SELF TAPPING SCREW DIA. 3/16" X 1/2"	S.S316	--
F02	SELF TAPPING SCREW DIA. 3/16" X 1 1/4"	S.S316	--
F03	THERMAL BREAK (BRAND:TECHNOFORM)	PA66GF25	--
F04	THERMAL BREAK (BRAND:TECHNOFORM)	PA66GF25	--
F05	THERMAL BREAK (BRAND:TECHNOFORM)	PA66GF25	--
F06	EPDM GASKET	EPDM	--
F07	WEATHER STRIPPING	PP&SILICONIZED POLYPROPYLENE FIBER	--
F08	WEATHER STRIPPING	PP&SILICONIZED POLYPROPYLENE FIBER	--
F09	DOWSILL DC791	WEATHER SEALANT	DOWSIL
F10	SELF TAPPING SCREW DIA. 1/8" X 1 2"	S.S316	--
H1	LOCK BODY	ZINC ALLOY	ARCHIE
H2	HANDDLE	ZINC ALLOY	ARCHIE
H3	HINGE	ALUMINUM(PAINTED)	CIILOCK
H4	LOCK BOLT TOP&BOTTOM	ZINC ALLOY	KINLONG
H5	PANIC BAR	ZINC ALLOY	DOORMAX
H6	HANDDLE	ZINC ALLOY	DOORMAX
H7	LOCK BODY	ZINC ALLOY	SECUTOR
H8	CONTINUOUS HINGE	ALUMINUM(PAINTED)	MEIHE
H9	HANDDLE	S.S 316	BOTONHD

FLORIDA APPROVAL:

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