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

HY40
ALUMINUM SLIDING GLASS DOOR

DESIGN LOAD RATING FOR DOORS TO BE AS PER CHARTS SHOWN ON SHEET 2.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH 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.

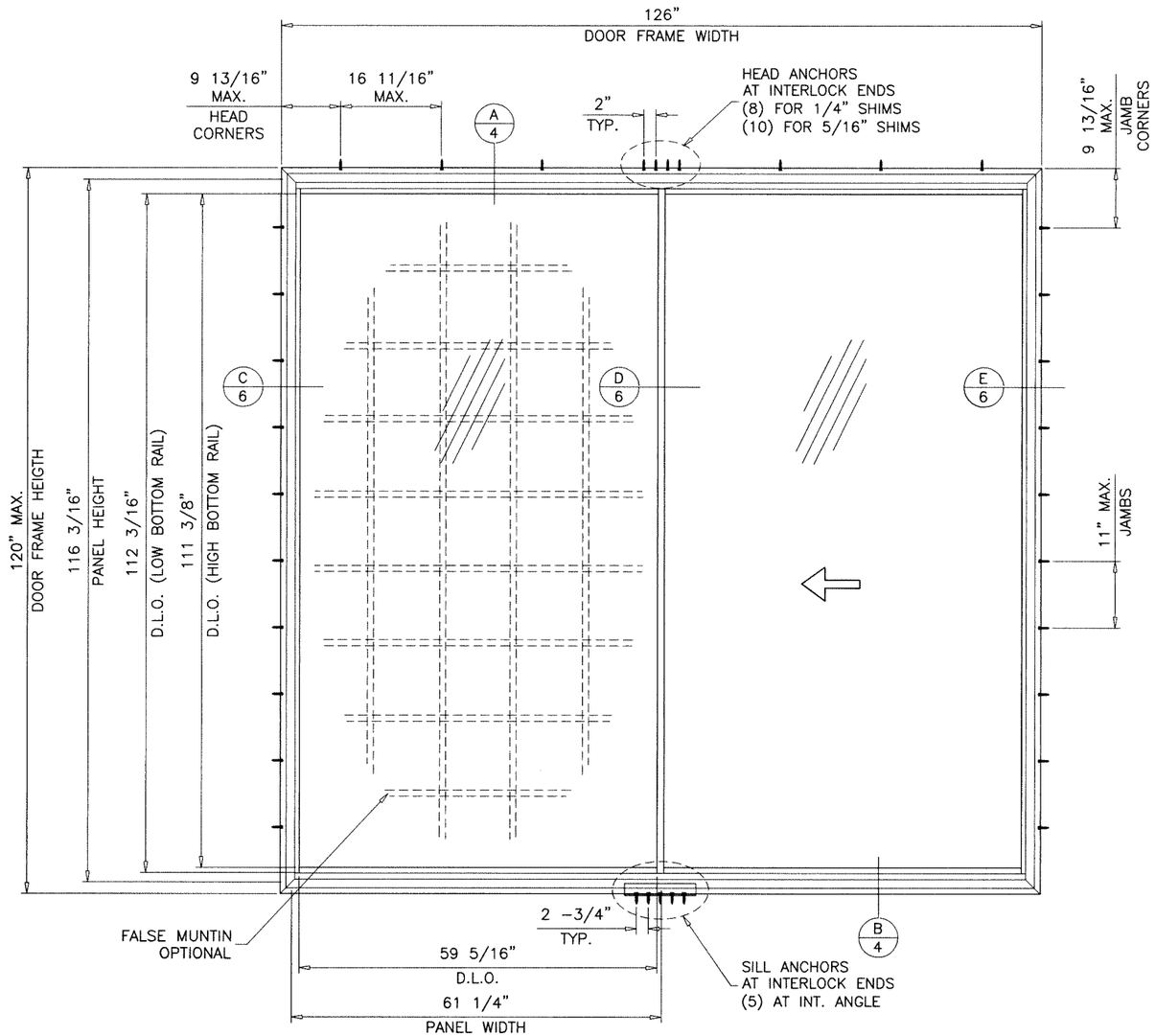
ALL SHIMS TO BE LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 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)'.

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.



TYPICAL ELEVATION
TESTED UNIT (OX)

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

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FL #48409

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 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.

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AL-FAROOQ CORPORATION
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TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538

COMP-ANL\26-24F-HBS

HY40 ALUM SLIDING GLASS DOOR (L.M.I.)

HYLINE BSI
Zona Industrial de Esposende
Rua Dr. Francisco Sá Carneiro, 475 C
4740-473 Esposende, Portugal
PHONE: +351 253 968 486/7 info@hyline-bsi.com

revisions:		
no	date	by description

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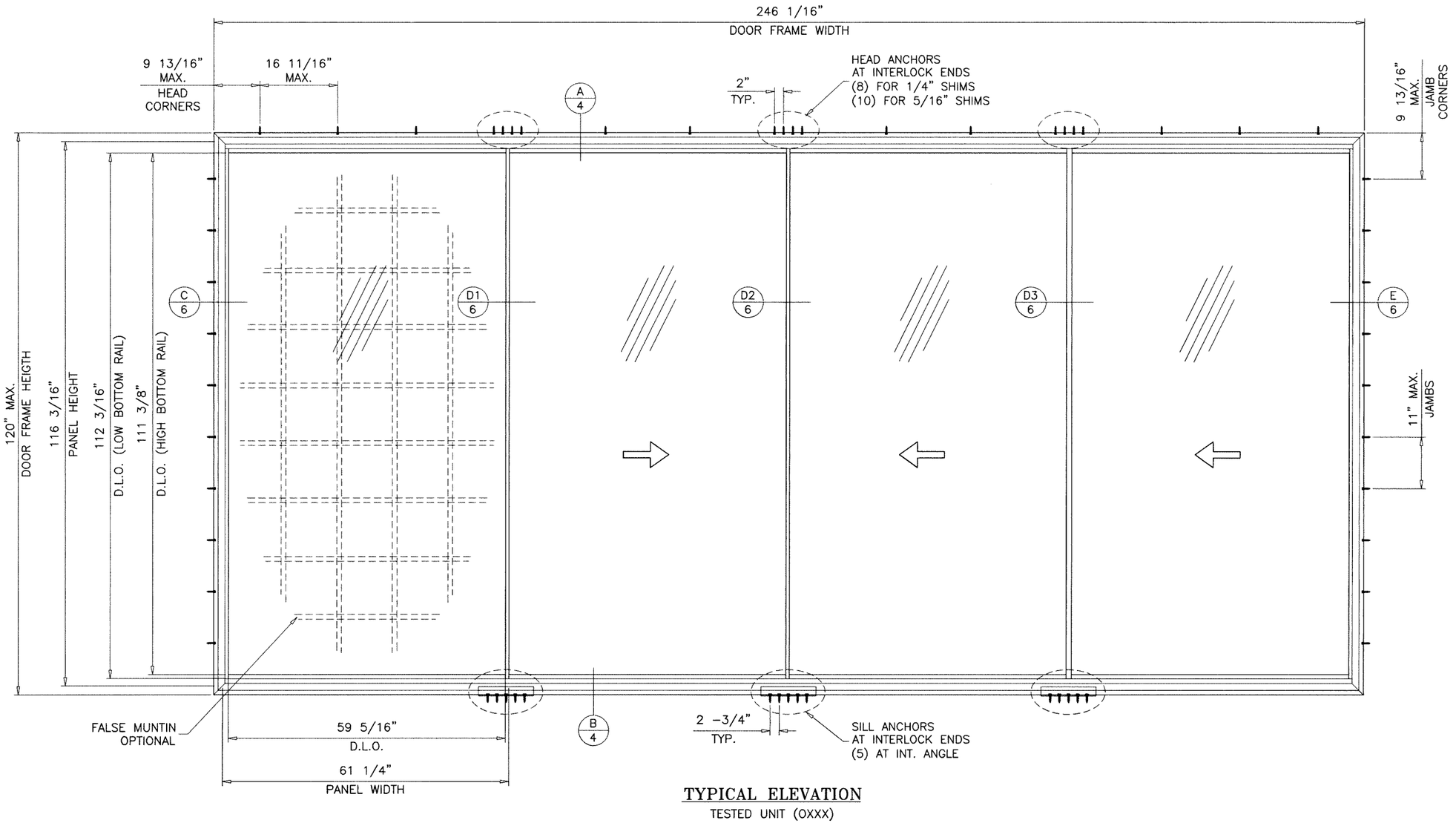
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no. 26-24F

sheet 1 of 9



TYPICAL ELEVATION

TESTED UNIT (OXXX)

Sealed: 9/4/2026

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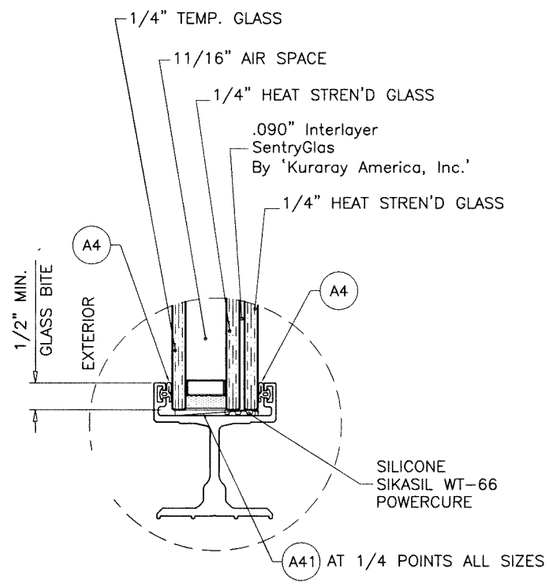
DOOR DESIGN LOAD CAPACITY – PSF TWO TRACK DOORS (XO, OX, XX, OXO, XXX, OXXX, XXXO, OXXO CONFIG.)			
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	1-1/2" OVERALL INSUL. LAM. GLASS	
		EXT.(+)	INT.(–)
48	102	55.7	65.2
54		55.7	65.2
60		55.7	65.2
66		55.7	65.2
72		55.7	65.2
48	108	55.7	65.2
54		55.7	65.2
60		55.7	65.2
66		55.7	65.2
48	120	55.7	65.2
54		55.7	65.2
60		55.7	65.2
61–1/4		55.7	65.2

$$\text{AVERAGE PANEL WIDTH} = \frac{\text{DOOR FRAME WIDTH}}{\text{NUMBER OF PANELS}}$$



GLAZING DETAIL

1–1/2" OVERALL INSUL. LAM. GLASS

11/16" AIR SPACE CONSISTING OF:

EDGE SPACER:

'TGI' FROM 'TECHNOFORM' (HY40)
AROUND THE PERIMETER OF THE GLASS.

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NOTE:
GLASS CAPACITIES ARE BASED ON
ASTM E1300–16 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05–DEC–219

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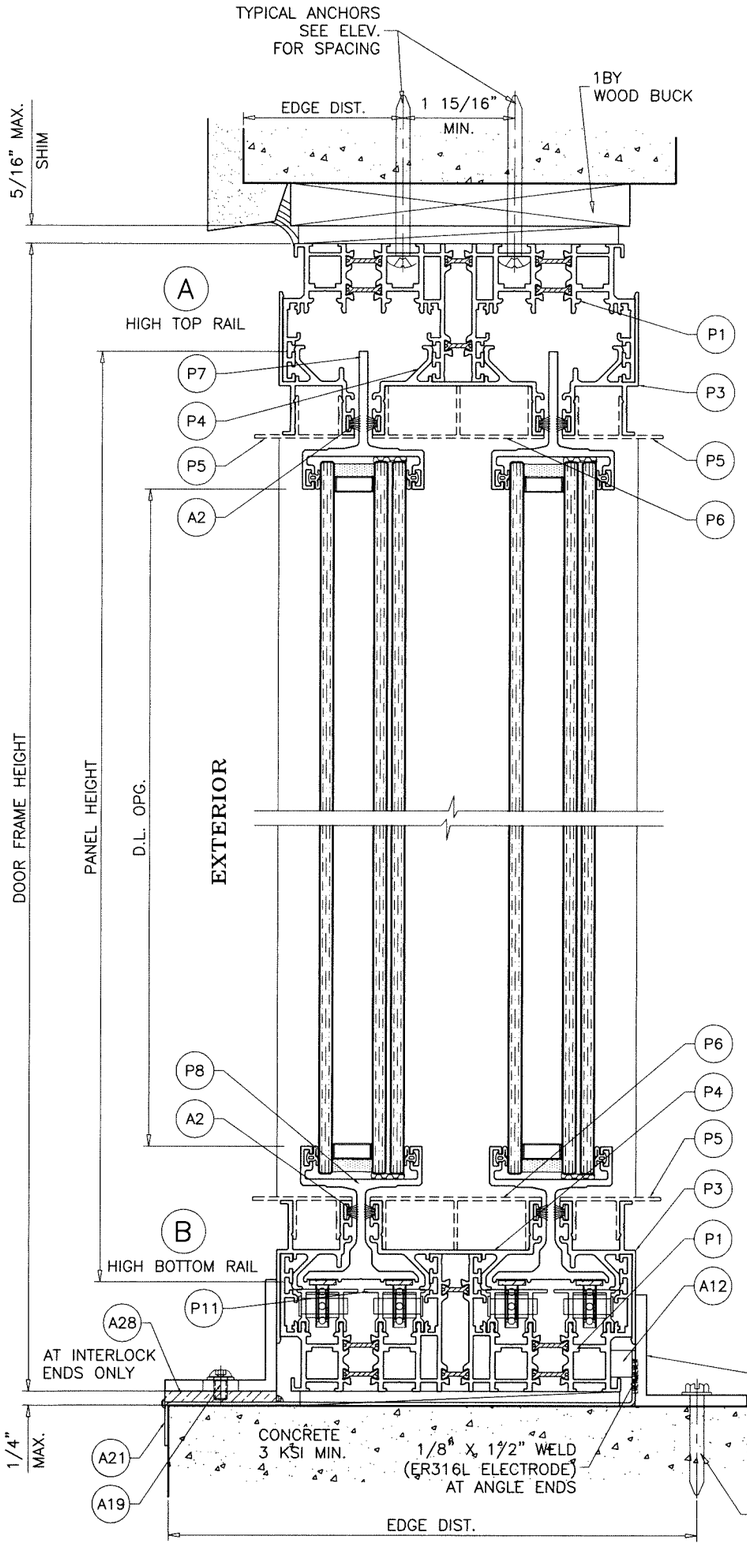
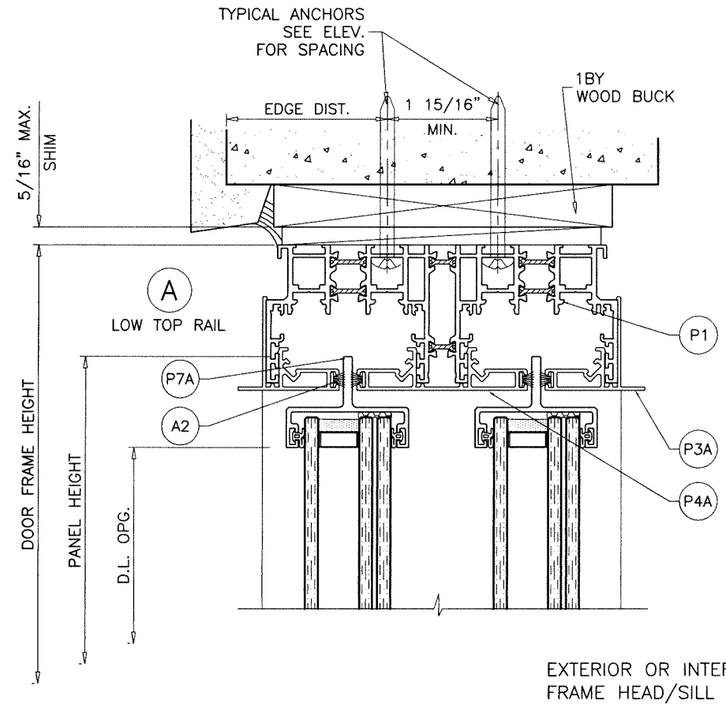
dr. by: TARIQ
chk. by:

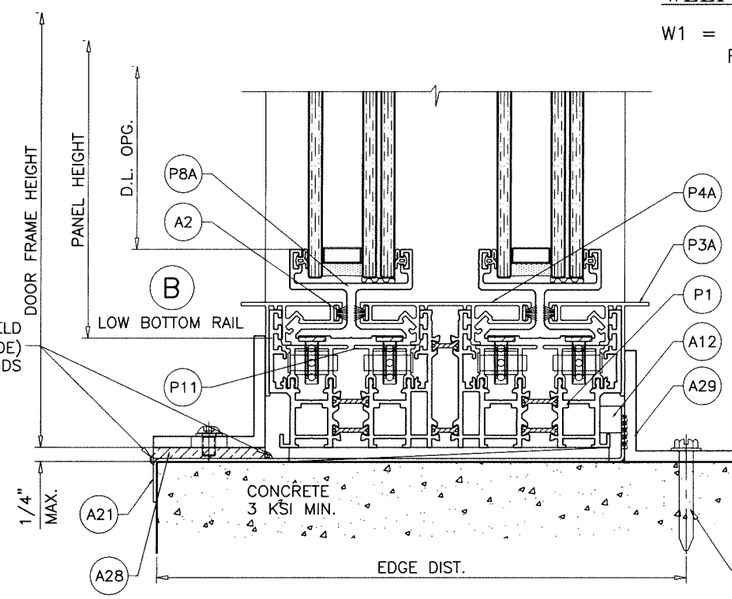
drawing no. 26–24F

sheet 3 of 9





EXTERIOR OR INTERIOR DECORATIVE FINISHES NOT BY 'HYLINE' FRAME HEAD/SILL CAN BE EXPOSED, FLUSH WITH FINISHES OR HIDDEN INSIDE FINISHES.



WEEPHOLES:

W1 = 1/2" DIA. WEEP HOLES AT 10"
FROM EACH END AND AT PANEL MID-SPAN

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chk. by:

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sheet 4 of 9

1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'HYLINE' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

AT HEAD

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

THRU 1BY BUCKS INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
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)

AT SILL

5/16" DIA. ULTRACON+ BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
2" MIN. EMBED INTO CONCRETE

AT JAMBS

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

THRU 1BY BUCKS INTO CONC. OR FILLED BLOCK
1-3/4" MIN. EMBED INTO CONCRETE
1-3/4" MIN. EMBED INTO FILLED BLOCKS

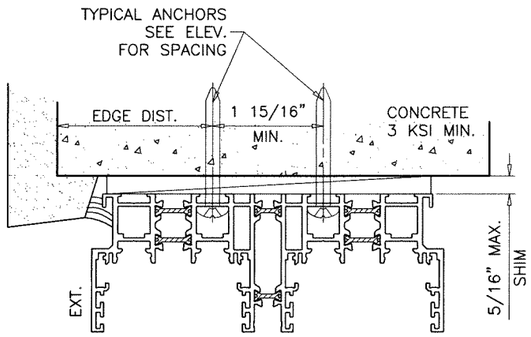
1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS

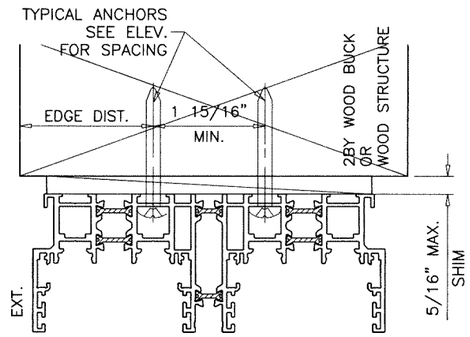
1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

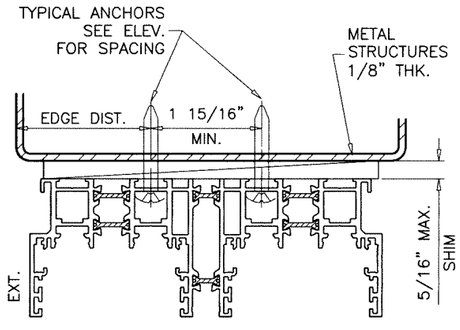
ANCHOR EDGE DISTANCES

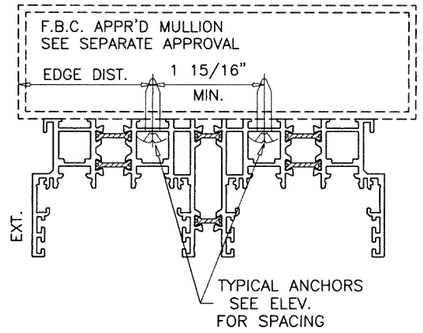
INTO CONCRETE AND MASONRY = 2-1/2" MIN. (HEAD/JAMBS)
INTO CONCRETE = 3-1/8" MIN. (SILL)
WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD 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.









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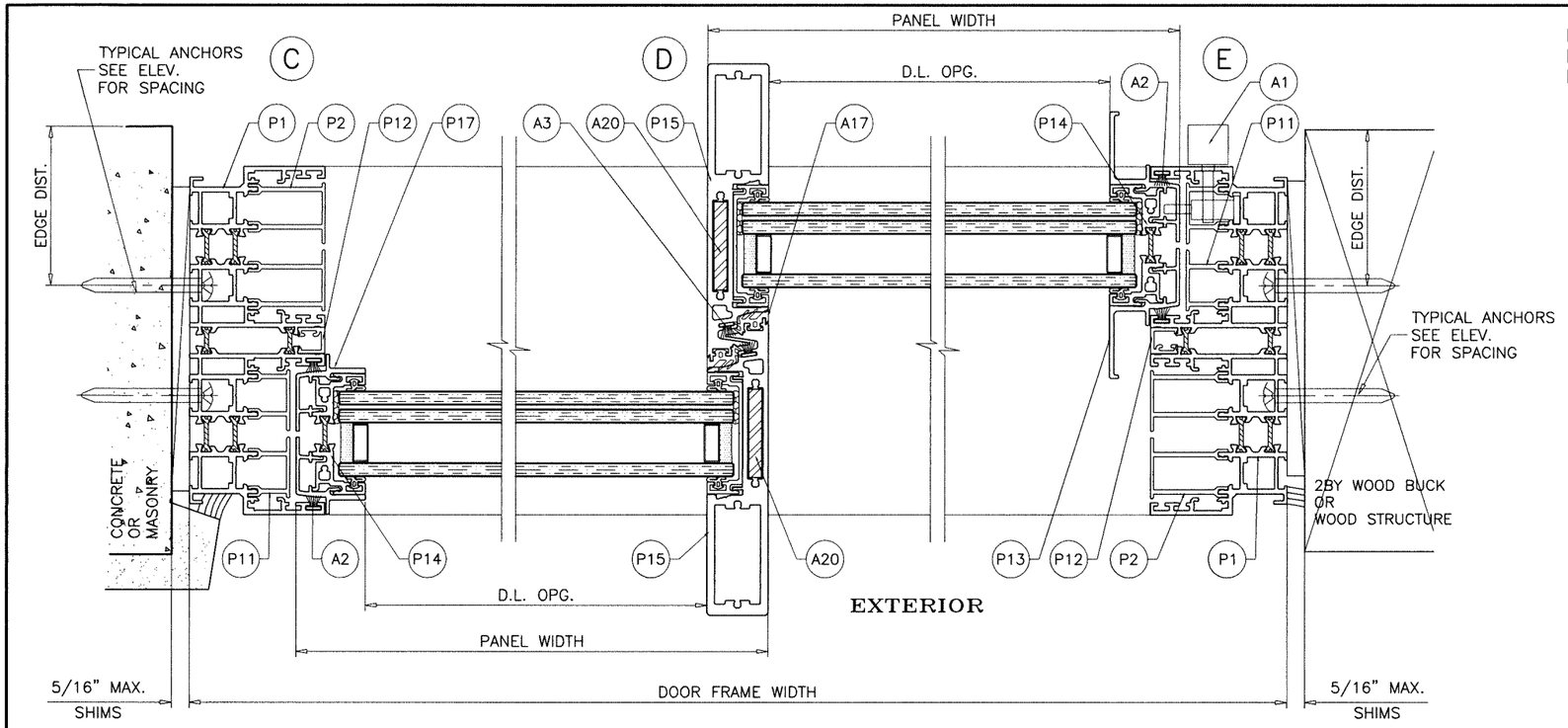
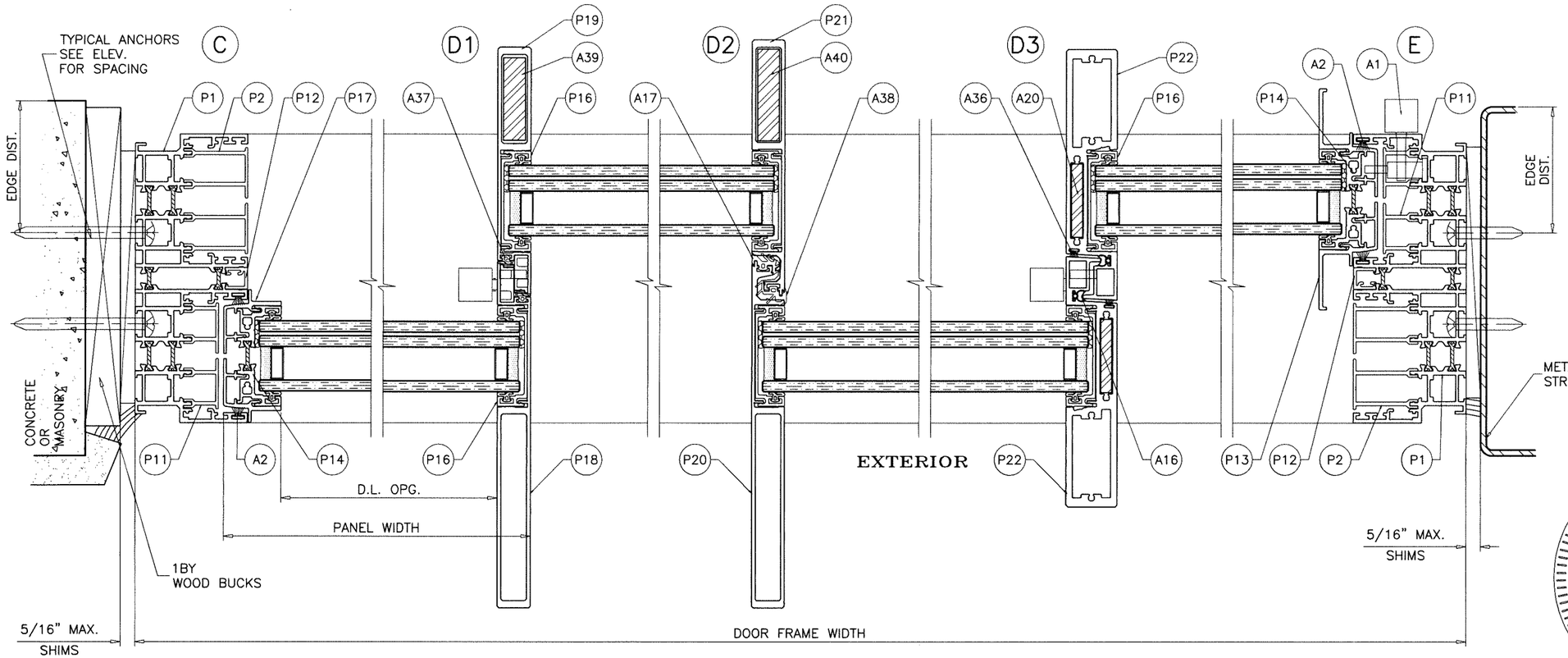
sheet 5 of 9



EXTERIOR OR INTERIOR DECORATIVE FINISHES NOT BY 'HYLINE' FRAME JAMBS CAN BE EXPOSED, FLUSH WITH FINISHES OR HIDDEN INSIDE FINISHES.



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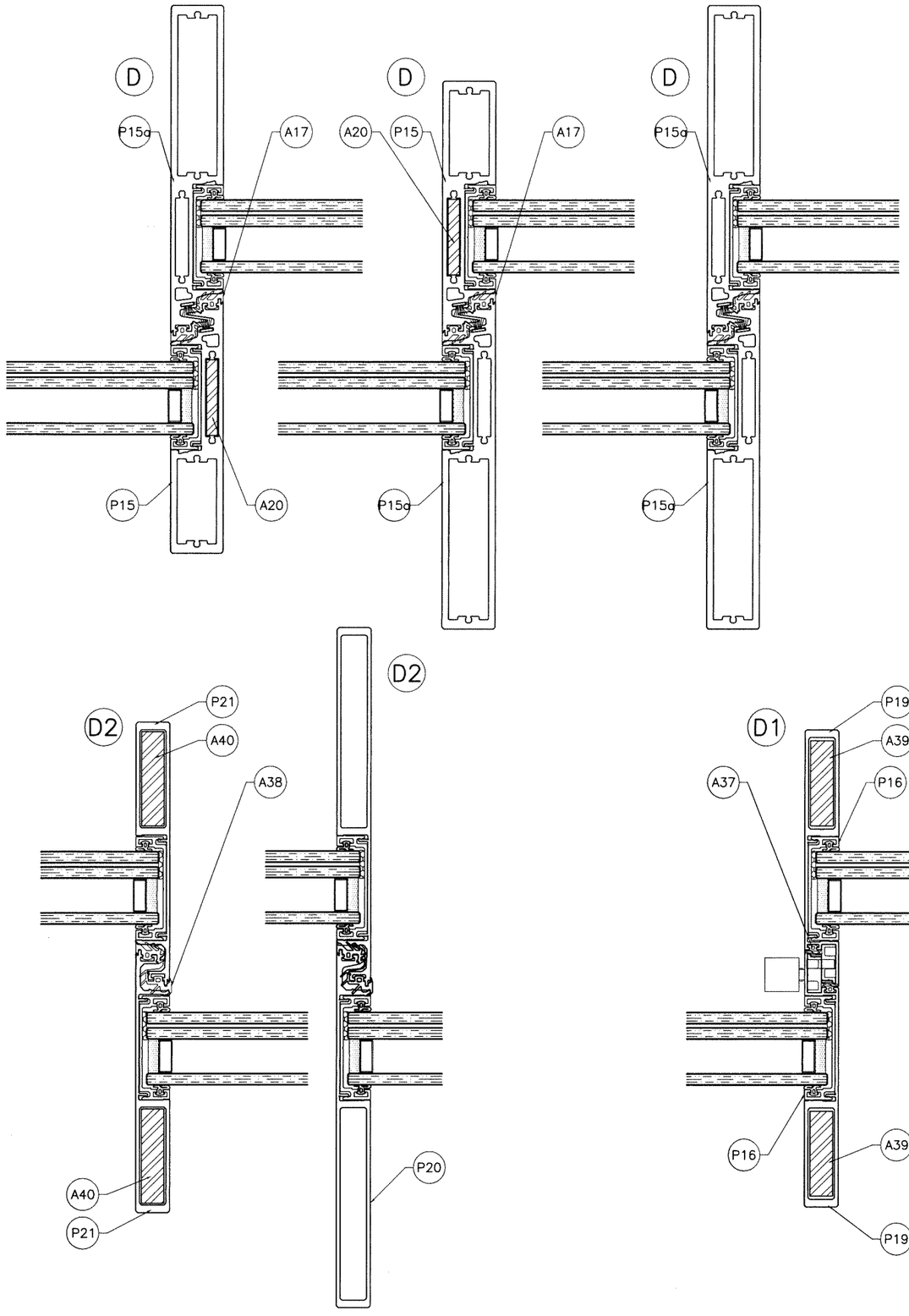

ALTERNATE INTERLOCK OPTIONS

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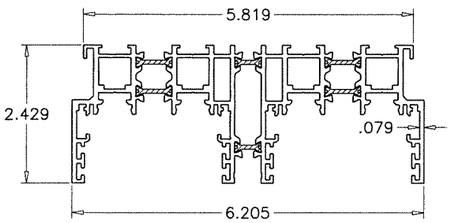
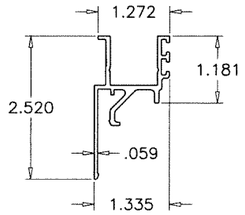
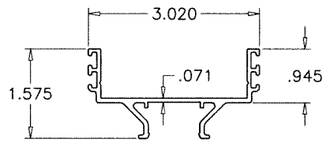


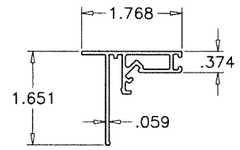
P1 FRAME HEAD/SILL/JAMB
HL40.004



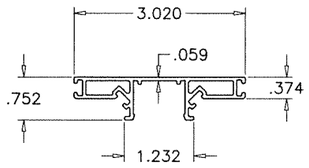
P3 EXT. INTEGRATED FLOOR
HL00.176



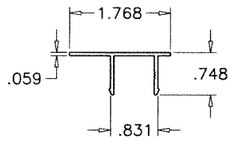
P4 INTEGRATED FLOOR CENTER PROFILE TYPE A
HL00.177



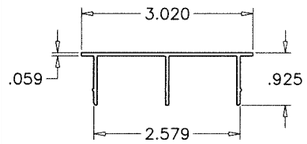
P3A EXT. FLUSH FLOOR
HL00.495



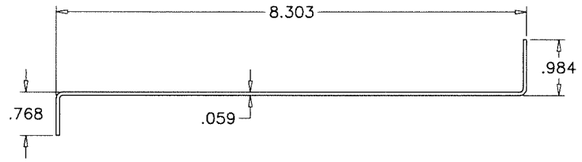
P4A FLUSH FLOOR CENTER PROFILE
HL00.497



P5 EXT. FLOOR COVER
HL00.180



P6 CENTER FLOOR COVER
HL00.181



A21 DRAIN PAN
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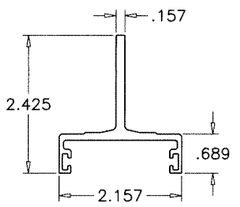
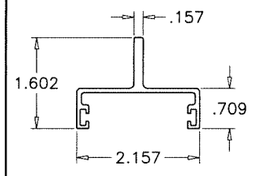
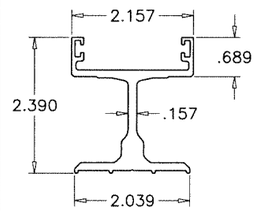


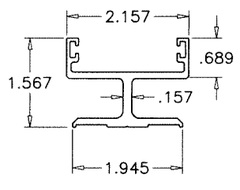
P7 HIGH TOP RAIL
HL00.579



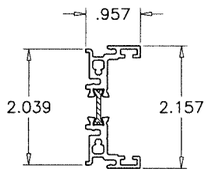
P7A LOW TOP RAIL
HL00.384



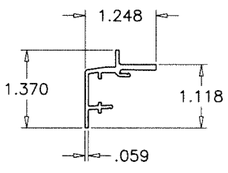
P8 HIGH BOTTOM RAIL
HL00.175



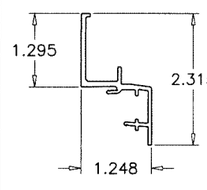
P8A LOW BOTTOM RAIL
HL00.311



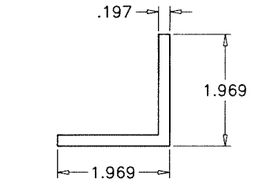
P14 JAMB STILE
HL40.013



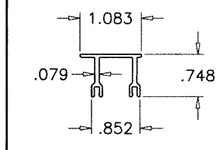
P17 TABLESS HANDLE COVER
HL00.062



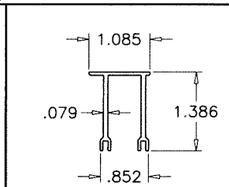
P13 HANDLE COVER
HL00.061



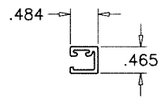
A29 SILL ANGLE
–



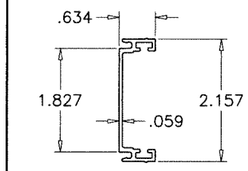
P11 LOW COVER
HL00.040



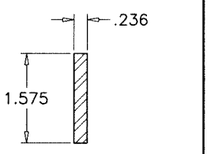
P2 HIGH COVER
HL00.042



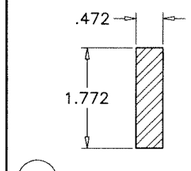
P12 CHANNEL COVER
HL00.141



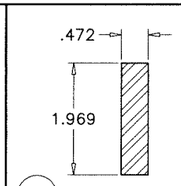
P16 GLASS PROFILE
HL00.146



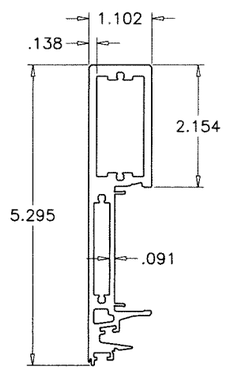
A20 28mm INTERLOCK REINF.
HY–A350.2.666



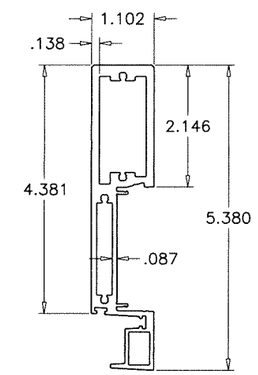
A39 18mm INTERLOCK REINF.
–



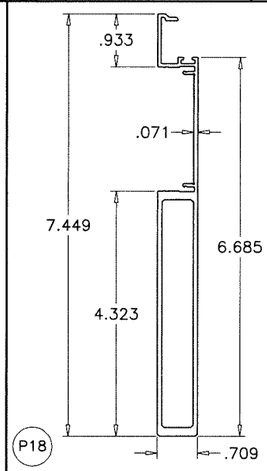
A40 18mm INTERLOCK REINF.
–



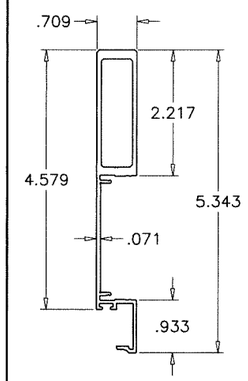
P15 28mm INT./EXT. INTERLOCK
HL00.710



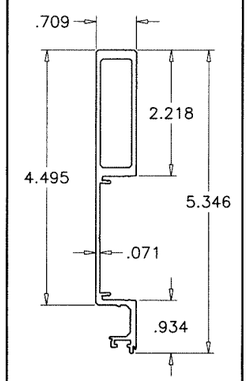
P22 28mm INT./EXT. INTERLOCK
HL00.713



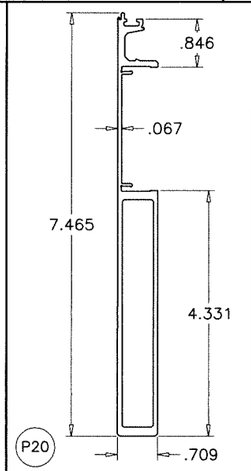
P18 18mm EXT. INTERLOCK
HL00.707



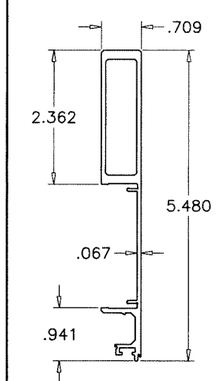
P19 18mm INT. INTERLOCK
HL00.189



P19a 18mm INT. INTERLOCK
HL00.027



P20 18mm EXT. INTERLOCK
HL00.227



P21 18mm INT. INTERLOCK
HL00.474

Sealed: 9/4/2026

FL #48409

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538

COMP–ANL\26–24F–HBS

HY40 ALUM SLIDING GLASS DOOR (L.M.I.)

HYLINE BSI
Zona Industrial de Esposende
Rua Dr. Francisco Sá Carneiro, 475 C
4740–473 Esposende, Portugal
PHONE: +351 253 968 486/7 info@hyline–bsi.com

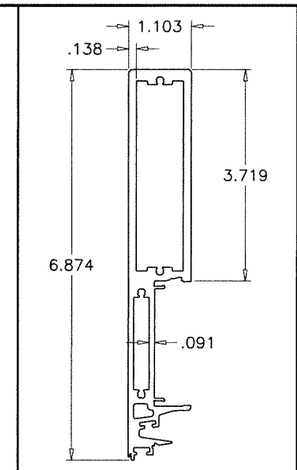
revisions:		
no	date	by description

date: 07–14–26
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

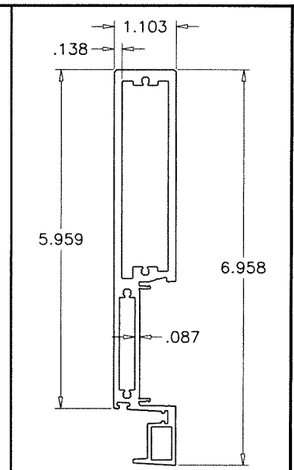
drawing no. 26–24F

sheet 8 of 9

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
P1	HL40.004	–	FRAME HEAD/SILL/JAMB	6060–T5	–
P2	HL40.042	–	HIGH COVER	6060–T5	–
P3	HL00.176	–	EXTERIOR INTEGRATED FLOOR (HIGH)	6060–T5	–
P3A	HL00.495	–	EXTERIOR FLUSH FLOOR (LOW)	6060–T5	–
P4	HL00.177	–	INTEGRATED FLOOR CENTER PROFILE	6060–T5	–
P4A	HL00.497	–	FLUSH FLOOR CENTER PROFILE (LOW)	6060–T5	–
P5	HL00.180	–	EXTERIOR FLOOR COVER (HIGH)	6060–T5	OPTIONAL
P6	HL40.004	–	CENTER FLOOR COVER (HIGH)	6060–T5	OPTIONAL
P7	HL00.579	–	HIGH TOP RAIL	6060–T5	–
P7A	HL00.384	–	LOW TOP RAIL	6060–T5	–
P8	HL00.175	–	PANEL BOTTOM RAIL (HIGH)	6060–T5	–
P8A	HL00.311	–	PANEL BOTTOM RAIL (LOW)	6060–T5	–
P11	HL00.040	–	LOW COVER	6060–T5	–
P12	HL00.141	–	CHANNEL COVER	6060–T5	–
P13	HL00.061	–	HANDLE COVER	6060–T5	–
P14	HL40.013	–	JAMB STILE	6060–T5	–
P15	HL00.713	–	28mm INT./EXT. INTERLOCK	6063–T6	–
P15a	HL00.337	–	28mm INT./EXT. INTERLOCK	6063–T6	–
P16	HL00.146	–	GLASS PROFILE	6060–T5	–
P17	HL00.062	–	TABLESS HANDLE COVER	6060–T5	–
P18	HL00.707	–	18mm EXTERIOR INTERLOCK	6063–T6	–
P19	HL00.189	–	18mm INTERIOR INTERLOCK	6063–T6	–
P19a	HL00.027	–	18mm INTERIOR INTERLOCK	6063–T6	–
P20	HL00.227	–	18mm EXTERIOR INTERLOCK	6063–T6	–
P21	HL00.474	–	18mm INTERIOR INTERLOCK	6063–T6	–
P22	HL00.710	–	28mm INTERIOR/EXTERIOR INTERLOCK	6063–T6	–
P22a	HL00.345	–	28mm INTERIOR/EXTERIOR INTERLOCK	6063–T6	–
A1	HY–A586.9.063B	–	LOCK	POLYAMIDE + ST. STEEL	–
A2	HY–A105.5.008B	–	7 X 7.5 BLACK BRUSH PILE	POLYPROPYLENE	–
A3	HY–A105.5.004	–	BRUSH PILE	POLYPROPYLENE	–
A4	HY–A100.5.003	–	SASH GASKET	EPDM	–
A5	HY–A520.2.028	–	STRIKER PLATE	ST. STEEL	–
A6	HY–A390.3.017	–	BAR 12 X 2 FOR VENT BOTTOM	BRASS	–
A7	HY–A400.9.022	–	5X BEARING 1000mm CASE	ALUMINUM	–
A11	HY–A495.5.570	–	INTERNAL VALVE DRAINAGE	PLASTIC	–
A12	HY–A150.8.020	–	GLUE AND SEAL	–	–
A16	HY–A100.5.012	–	GASKET FOR NORMAL MULLION	EPDM	–
A17	HY–A100.5.022	–	MULLION GASKET INTERIOR	EPDM	–
A19	1/4" X 3/8"	5/ ANGLE	SCREW WITH WASHER	ST. STEEL	–
A20	HY–A350.2.666	–	REINFORCEMENT BAR 40X6mm (28mm INTERLOCK)	ST. STEEL	–
A21	–	–	DRAIN PAN	ST. STEEL	–
A22	HY–A256.9.004	–	FIXED LIGHT RETENTION BLOCK KIT A	ALUMINUM	–
A23	HY–A300.2.016	–	ANGLE CORNER JOINT	ZAMAK	–
A24	HY–A300.2.015.03	–	ALIGNMENT CORNER JOINT	ST. STEEL	–
A27	HY–A256.9.005	–	FIXED LIGHT RETENTION BLOCK KIT B	ST. STEEL + ALUMINUM	–
A28	–	–	5mm X 50mm X 315mm BAR	ST. STEEL	AT INTERLOCK ENDS ONLY
A29	–	–	SILL INSTALLATION ANGLE (50mm X 50mm X 5mm X 315mm)	ST. STEEL	AT INTERLOCK ENDS ONLY
A31	HY–A125.9.216	–	WIND COVER FOR INTEGRATED FLOOR HY40	EPDM	–
A32	HY–A125.5.215	–	WIND COVER FOR HY40 BEARING CASES	EPDM	–
A33	HY–A155.5.004	–	DOUBLE SIDED ADHESIVE TAPE	–	–
A34	HY–A125.9.014	–	WIND COVER T2–L	EPDM + ONYX	–
A36	HY–A105.5.007B	–	7 X 5 BLACK BRUSH PILE	POLYPROPYLENE	–
A37	HY–A100.5.011	–	GASKET FOR INVERTED MULLION	EPDM	–
A38	HY–A100.5.002	–	MULLION GASKET EXTERIOR	EPDM	–
A39	HY–A350.2.207	–	REINFORCEMENT BAR 45 X 12mm	ST. STEEL	–
A40	HY–A350.2.002	–	REINFORCEMENT BAR 50 X 12mm	ST. STEEL	–
A41	–	2/ LITE	SETTING BLOCKS AT 1/4 POINTS	EPDM	DUROMETER 80±5, SHORE A



P15a
28mm INT./EXT. INTERLOCK
–



P22a
28mm INT./EXT. INTERLOCK
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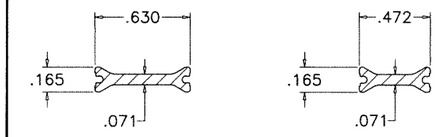

INSULBARS
SCALE 1:1

MATERIAL = POLYAMIDE
TENSILE STRENGTH = 13031 PSI
RATE OF BURN = .752 IN./MIN.
SELF IGNITION TEMP. = 793° F
FLASH IGNITION TEMP. – 781°C
SMOKE DENSITY = 1.63

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/BLACK/ALUMINUM COLORED SILICONE.

LOCKS:

SURFACE MOUNT METALLIC THREE PLY DUAL HOOK LOCK
AT 38–3/4" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #8 X 1–1/4" FH SELF DRILLING SCREWS

SURFACE MOUNT METALLIC KEEPER FACING LOCK AT 39" FROM BOTTOM
FASTENED WITH
(2) #8 X 1–1/4" FH SMS

Sealed: 9/4/2026

FL #48409

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COMP–ANL\26–24F–HBS

HY40 ALUM SLIDING GLASS DOOR (L.M.I.)

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info@hyline–bsi.com

revisions:

no	date	by	description

date: 07–14–26
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. 26–24F

sheet 9 of 9