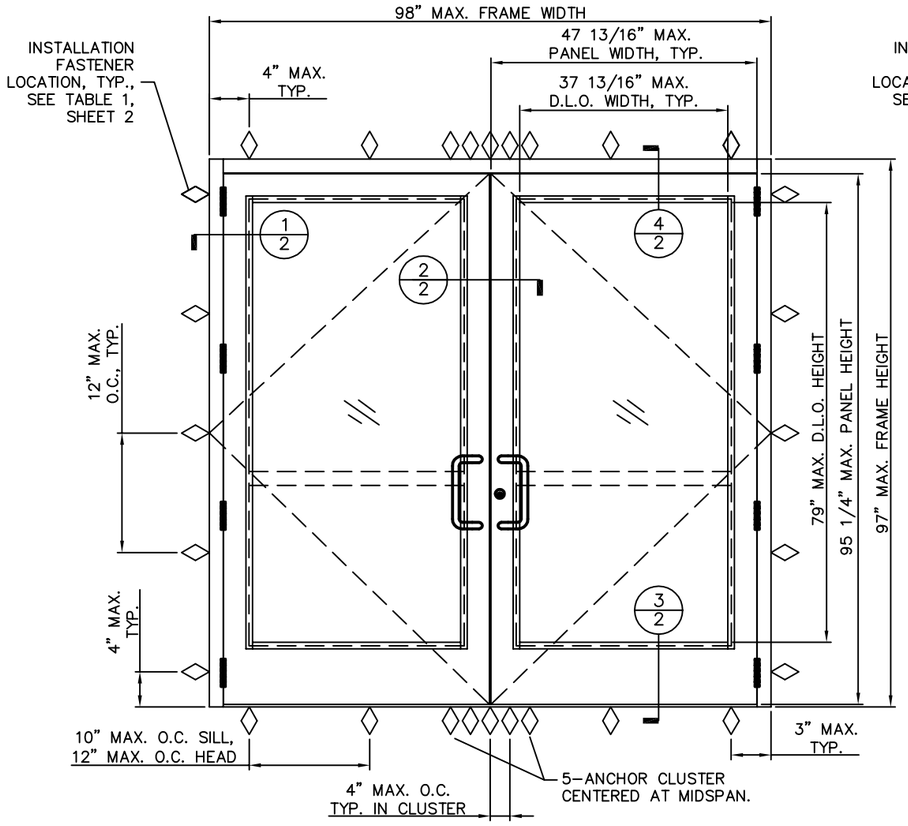
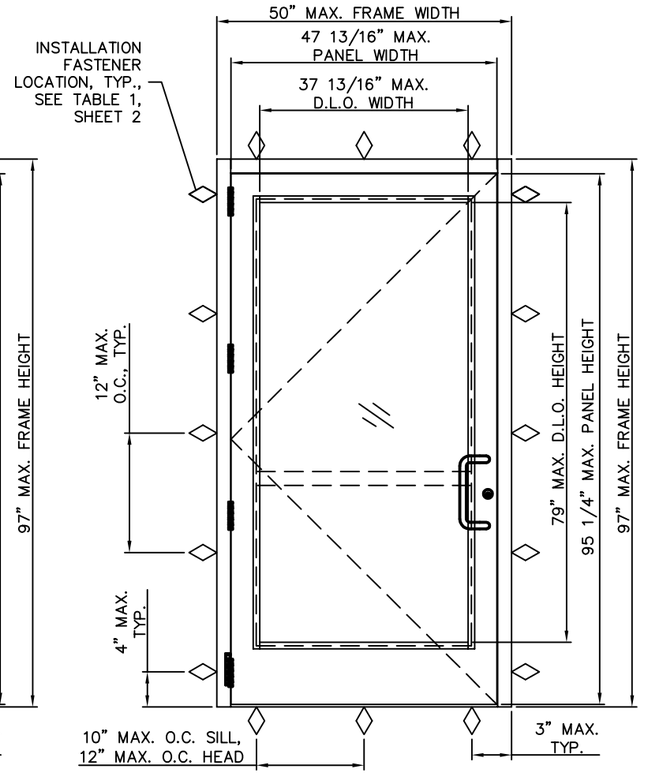


XX EXTERIOR ELEVATION



X EXTERIOR ELEVATION

DESIGN PRESSURE RATING	IMPACT RATING
+65.0/−60.0 PSF	LARGE AND SMALL MISSILE IMPACT

APPROVED PANEL LOCKING HARDWARE:

2) JACKSON 2086 CONCEALED VERTICAL ROD EXIT DEVICE WITH 30-1084 TOP STRIKE, 30-821J CYLINDER, AND RYADON P573-C2 RIM CYLINDER

APPROVED HINGES:

1) MORTISED HAGNER BUTT HINGE P1558-C2 WITH TWO BUTT HINGE REINFORCEMENTS (PART #P2093) PER HINGE, 4 PER DOOR PANEL

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED TO ASTM E 283, ASTM E 330, AND ASTM E 1886/1996, AND MEETS THE REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING CODE AND INTERNATIONAL RESIDENTIAL CODE, WITH 2006 TEXAS REVISIONS EFFECTIVE JANUARY 1, 2008. THIS PRODUCT IS NOT RATED FOR WATER INFILTRATION RESISTANCE.
2. THIS PRODUCT IS LARGE MISSILE IMPACT RESISTANT AND DOES NOT REQUIRE THE USE OF SHUTTERS IN WINDBORNE DEBRIS REGIONS.
3. ALLOWABLE CONFIGURATIONS: X (SINGLE PANEL) OR XX (DOUBLE PANEL).
4. THE DESIGN PRESSURE RATING OF THIS PRODUCT, +65/-60 PSF, IS AS LIMITED BY ASTM E-1300 02/04 GLASS TABLES, AND TESTED PRESSURES.
5. THIS PRODUCT IS NOT TESTED FOR WATER INFILTRATION RESISTANCE AND IS INTENDED FOR USE ONLY IN DRY LOCATIONS OR THOSE WITH A 1:1 OVERHANG. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER PERFORMANCE OF INSTALLED PRODUCTS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTRUCTIONS AND ARE THE RESPONSIBILITY OF OTHERS.
6. THE 4/3 ALLOWABLE STRESS INCREASE HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF WOOD SUBSTRATE ONLY.
7. STRUCTURAL SUITABILITY OF THE OPENING TO RECEIVE LOADS IMPARTED FROM THIS PRODUCT TO BE VERIFIED BY THE DESIGN PROFESSIONAL FOR EACH PROJECT. BUCKING, OPENINGS & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
8. DISSIMILAR MATERIALS THAT COME INTO CONTACT, INCLUDING BUT NOT LIMITED TO FASTENERS IN PRESSURE TREATED WOOD, SHALL BE COATED OR OTHERWISE PROTECTED PER FBC TO PREVENT GALVANIC REACTIONS.
9. INSTALLATIONS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS UNLESS OTHERWISE APPROVED BY A LICENSED DESIGN PROFESSIONAL.

STATE OF TEXAS
LUCAS A. TURNER
115094
LICENSED
PROFESSIONAL ENGINEER

Lucas A. Turner
2015-07-20
12:55-04:00

7/11/2015
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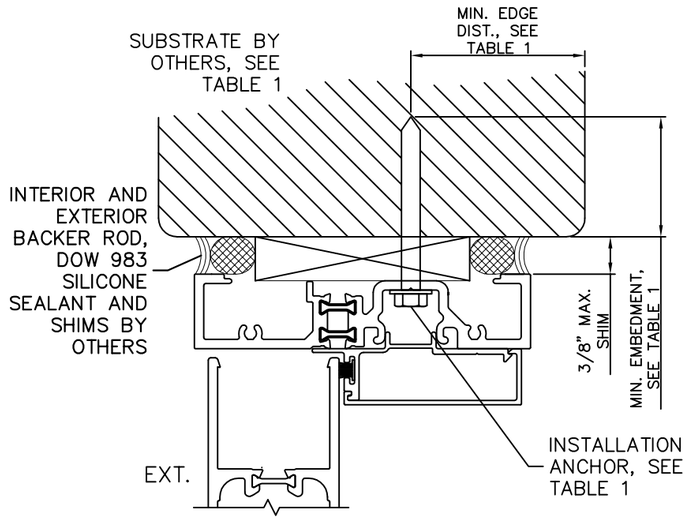
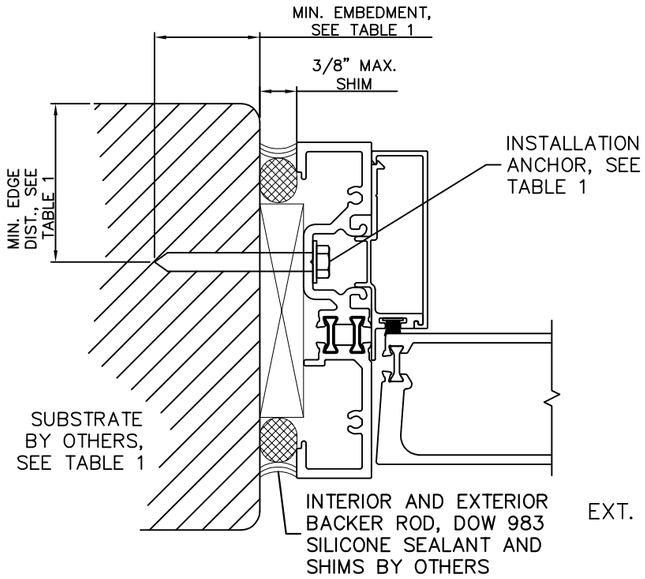
REVISION HISTORY:

REV	DATE	DRAWN	DESCRIPTION
0	7.10.15	HLP/LT	ORIGINAL RELEASE

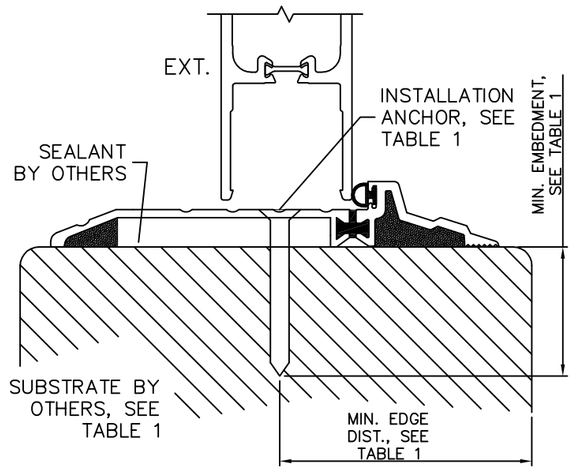
DATE: 07.10.15
DRAWING NUMBER: TDI-THERMAL
DRAWN: HLP/LT
FINAL REVIEW:
SCALE: N.T.S.
REVISION: 0
SHEET NAME: NOTES, HARDWARE
SHEET: 1 OF 5



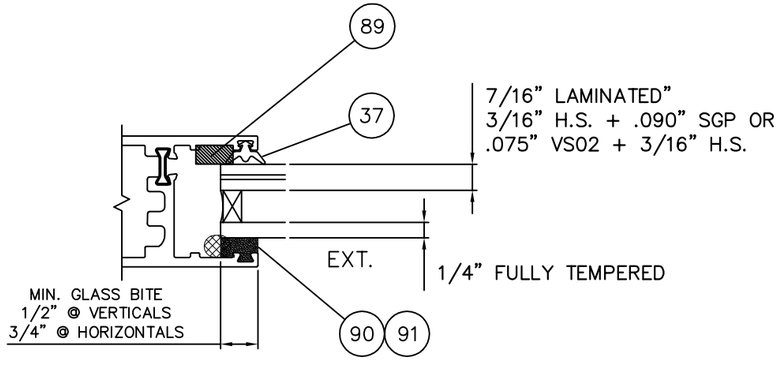
TYPICAL HEAD ANCHORAGE



TYPICAL JAMB ANCHORAGE



TYPICAL THRESHOLD ANCHORAGE



TYPICAL GLAZING DETAIL

TABLE 1. QUALIFIED ANCHOR INFORMATION

ID	SUBSTRATE	ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE
A	CONCRETE OR GROUT-FILLED CMU (2850 PSI MIN)	1/4" ELCO COATED CARBON STEEL ULTRACON	1 3/4"	2 1/2"
B	CONCRETE OR GROUT-FILLED CMU (2000 PSI MIN)	1/4" ITW COATED CARBON STEEL TAPCON	1 1/2"	3"
C	SOLID UNCRACKED CONCRETE (3000 PSI MIN)	1/4" ITW 410 STAINLESS TAPCON	1 3/4"	2 1/2"
D	SOLID UNCRACKED CONCRETE (3000 PSI MIN)	1/4" HILTI COATED CARBON STEEL OR STAINLESS STEEL KWIK-CON II	1"	2 1/2"
E	HOLLOW OR GROUT-FILLED CMU (ASTM C-90)	1/4" HILTI COATED CARBON STEEL OR STAINLESS STEEL KWIK-CON II	1"	2 1/2"
F	2x MIN. SOUTHERN PINE WOOD (G=0.55 MIN)	1/4" GRADE 5 LAG SCREW	1 3/8"	1"
G	16 GAUGE (0.060") MIN. STEEL STUD 33 KSI YIELD MIN.	1/4-14 ITW TEKS, ELCO DRIL-FLEX, OR HILTI-KWIK FLEX	SEE NOTE 5	1/2"
H	1/8" ALUM. 6063-T5 MIN. OR 1/8" STEEL 33 KSI MIN.	1/4" GRADE 5 SELF-TAPPING / DRILLING SCREW	SEE NOTE 5	1/2"

ANCHORAGE NOTES:
1. SHIMS SHALL BE LOAD–BEARING (PLASTIC OR METALLIC) AND CAPABLE OF TRANSFERRING APPLIED LOADS FROM THE PRODUCTS TO THE OPENING SUBSTRATES.
2. SHIM EACH ANCHOR LOCATION WHERE GAP GREATER THAN 1/16" EXISTS BETWEEN PRODUCT FRAME AND OPENING SUBSTRATE.
3. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. MINIMUM ANCHOR SPACING SHALL BE 4"
5. ANCHORS THROUGH METAL SHALL BE OF SUFFICIENT LENGTH TO PROVIDE THREAD ENGAGEMENT THROUGH THE FULL METAL WALL THICKNESS

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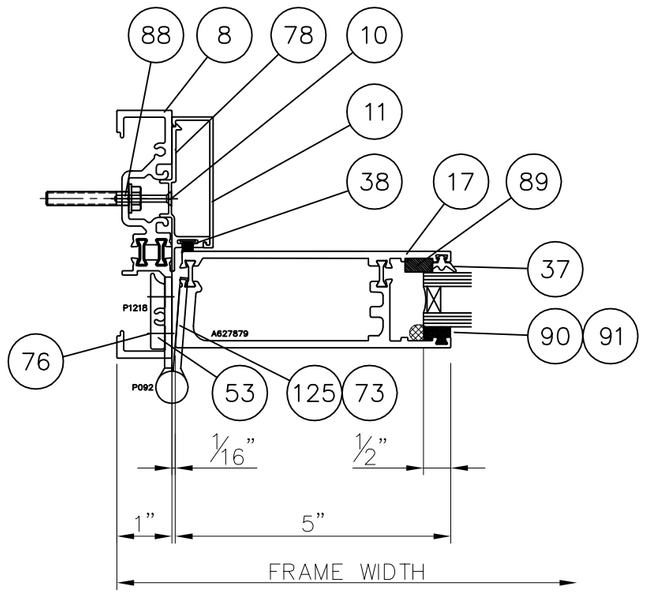
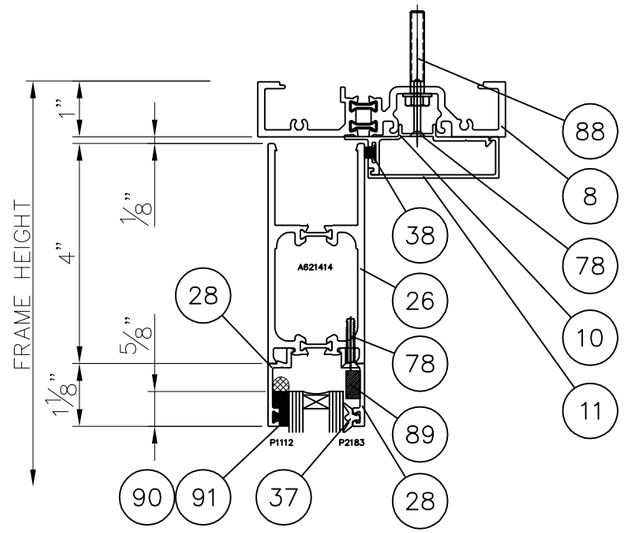
0	7.10.15	HLP/LT	ORIGINAL RELEASE

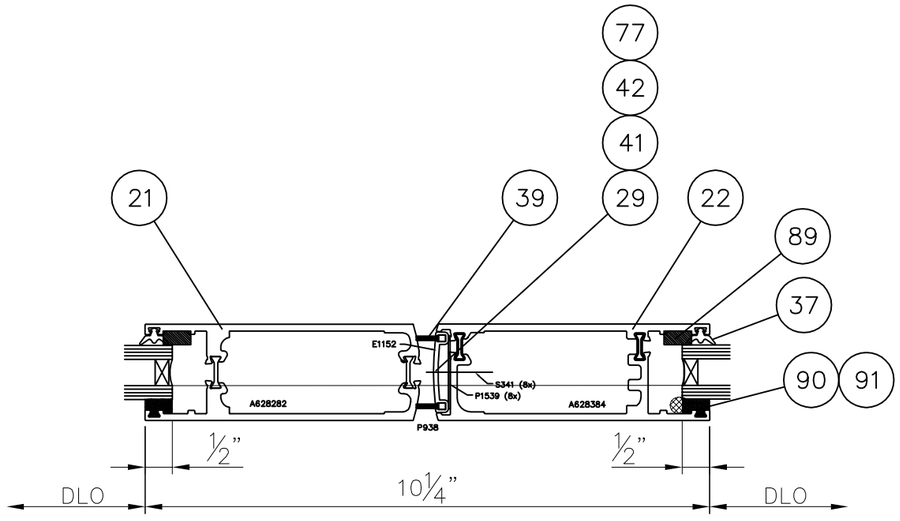
DATE: 07.10.15
DRAWING NUMBER: TDI-THERMAL
DRAWN: HLP/LT
FINAL REVIEW:
SCALE: N.T.S.
REVISION: 0
SHEET NAME: INSTALLATION, GLAZING DETAILS
SHEET: 2 OF 5



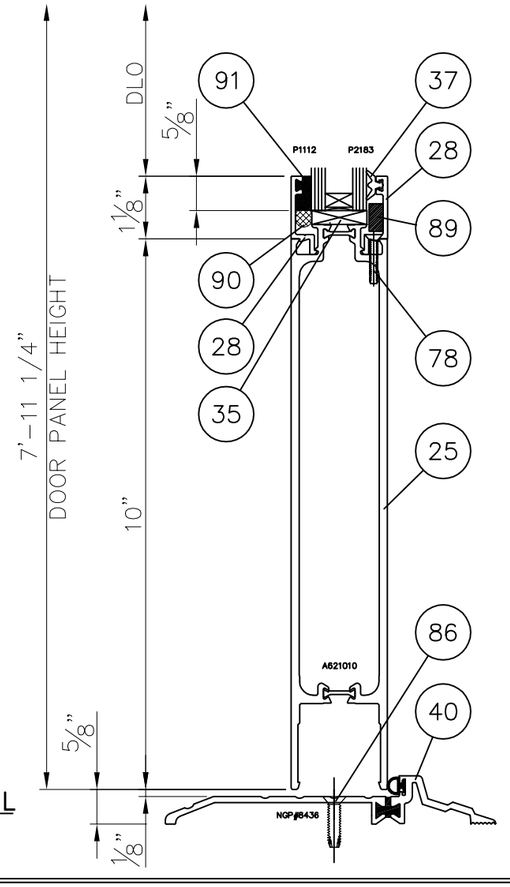
1/2 JAMB W/BUTT HINGE
MEDIUM STILE



4/2 HEAD RAIL ~ BUTT HINGE
MEDIUM STILE



2/2 THERMAL DOORS
MEDIUM STILE



3/2 BOTTOM RAIL
MEDIUM STILE

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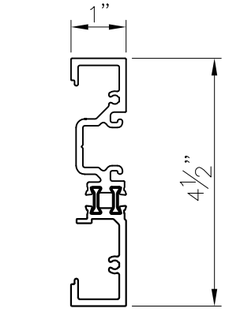
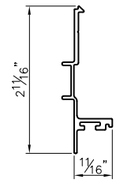
REVISION HISTORY:

REV	DATE	DRAWN	DESCRIPTION
0	7.10.15	HLP/LT	ORIGINAL RELEASE

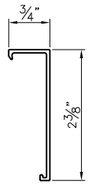
DATE: 07.10.15
DRAWING NUMBER: TDI-THERMAL
DRAWN: HLP/LT
FINAL REVIEW:
SCALE: N.T.S.
REVISION: 0
SHEET NAME: SECTION VIEWS
SHEET: 3 OF 5



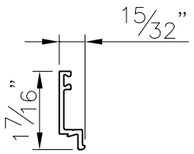
ITEM 8 –EA626667
THERMAL SUB–FRAME



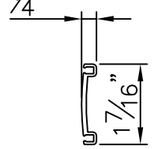
ITEM 10
E6640 INNER
DOOR STOP



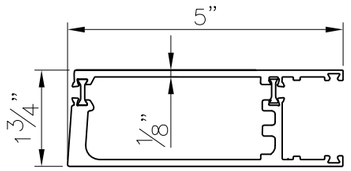
ITEM 11
E6641 CAP
DOOR STOP



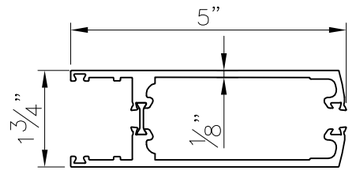
ITEM 28 –E6513
GLAZING STOP



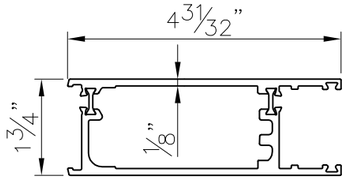
ITEM 29 – E1152
ASTRAGAL



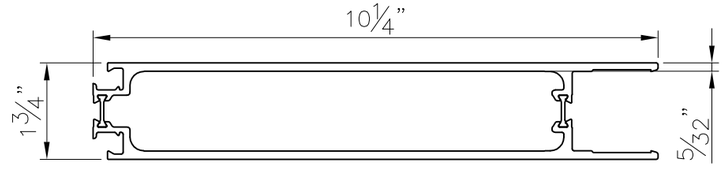
ITEM 17 – A627879
ASSEMBLY
MED STILE – HINGE



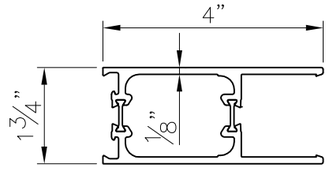
ITEM 21 – A628282
ASSEMBLY
MED RD FACE STILE



ITEM 22 – A628384
ASSEMBLY
MED STILE – LOCK W/ASTRAGAL



ITEM 25 – A621010
ASSEMBLY
BOTTOM RAIL



ITEM 26 – A621414
ASSEMBLY
MED STILE TOP RAIL

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REV	DATE	DRAWN	DESCRIPTION
0	7.10.15	HLP/LT	ORIGINAL RELEASE

DATE: 07.10.15
DRAWING NUMBER: TDI-THERMAL
DRAWN: HLP/LT
FINAL REVIEW:
SCALE: N.T.S.
REVISION: 0
SHEET NAME: EXTRUSION DRAWINGS
SHEET: 4 OF 5

THERMAL SERIES MEDIUM STILE DOUBLE DOOR W/1" SUB-FRAME – PARTS LIST			MATERIAL
ITEM	PART NUMBER	DESCRIPTION	
1			
2			
3			
4			
5			
6			
7			
8	A626667	EXTRUSION ASSEMBLY, 1" SUB-FRAME JAMB & HEAD	ALUMINUM – 6063-T5
9			
10	E6640	EXTRUSION INNER DOOR STOP PRE-DRILLED	ALUMINUM – 6063-T5
11	E6641	EXTRUSION OUTER DOOR STOP	ALUMINUM – 6063-T5
12			
13			
14			
15			
16			
17	A627879	EXTRUSION ASSEMBLY, STILE MED, HINGE LEFT	ALUMINUM – 6063-T5
18			
19			
20			
21	A628282	EXTRUSION ASSEMBLY, STILE, MED, (DOOR)	ALUMINUM – 6063-T5
22	A628384	EXTRUSION ASSEMBLY, STILE, MED, LOCK LEFT	ALUMINUM – 6063-T5
23			
24			
25	A621010	EXTRUSION ASSEMBLY, RAIL, BOTTOM 10" (DOOR)	ALUMINUM – 6063-T5
26	A621414	EXTRUSION ASSEMBLY, RAIL, TOP 4" (DOOR)	ALUMINUM – 6063-T5
27			
28	E6513	EXTRUSION GLASS STOP TOP & BOTTOM RAIL	ALUMINUM – 6063-T5
29	E1152	EXTRUSION ASTRICAL (DOOR)	ALUMINUM – 6063-T5
30			
31			
32			
33			
34			
35	P1912	BLOCK, SETTING, ¼ X ½ X 4" LONG	P-PART – RUBBER
36	P1112	GASKET, GLASS, EPG	P-PART – RUBBER
37			
38	P1098A	PILE, DOOR STOP, AMESBURY GROUP	P-PART – PLASTIC/FAB.
39	P938	PILE, DOOR STOP, AMESBURY GROUP	P-PART – PLASTIC/FAB.
40	P6545-0R	THRESHOLD NATIONAL GAURD PRODUCTS #8436N 96	P-PART – ALUMINUM
41	P1539	SPRING, STEEL, ASTRAGAL, ADJUSTABLE, (DOOR)	P-PART – HARDWARE
42	P1553	WASHER, SCREW & SHOULDER SCREW (DOOR)	P-PART – FASTENER
43	P518	LABEL, DOOR, GREEN BRUSHED SILVER (DOOR)	P-PART – LABEL
44			
45	P908	SCREW, 10-24 X ½ FH MACH PHIL (DOOR)	P-PART – FASTENER
46	P020B	ROD, THREADED TIE, ⅜" (DOOR)	P-PART – FASTENER
47			
48	P676	TAB – FOR MORTISED LOCKS (DOOR)	P-PART – HARDWARE
49			P-PART – HARDWARE
50			P-PART – HARDWARE
51	P853	WASHER, DOOR ROD (DOOR)	P-PART – HARDWARE
52			
53	P1218	HINGE, BUTT, REINFORCEMENT (P1218) (DOOR)	P-PART – HARDWARE
54			
55			

ITEM	PART NUMBER	DESCRIPTION	MATERIAL
60			P-PART – HARDWARE
61			P-PART – HARDWARE
62			P-PART – HARDWARE
63			P-PART – HARDWARE
64			P-PART – HARDWARE
65			P-PART – HARDWARE
66			P-PART – HARDWARE
67			
68	S202	SCREW, 10-24 X 1 TYPE 23 HEX HEAD PHIL SUB FRAME TO SUB FRAME	P-PART – HARDWARE
69			
70			
71	S193	SCREW, 1/4-20 X 5/8 PAN HEAD PHIL	P-PART – FASTENER
72	S092	SCREW, 1/4-20 X 1-1/2 FLAT HEAD PHIL	P-PART – FASTENER
73	S070	SCREW, FLAT HEAD, 12-24 X ½" (HINGE SCREW)	P-PART – FASTENER
74	S071	NUT, STUD, 3/8-16 X ⅜ (DOOR TIE ROD)	P-PART – FASTENER
75	S186	WASHER, ½ OD X ¼ ID X .062 ALUMINUM (DOOR)	P-PART – FASTENER
76	S161	SCREW, 10-24 X ½ FLAT HEAD PHIL (DOOR HINGE/FLUSH BOLTS)	P-PART – FASTENER
77	S341	SCREW, PHIL HEAD, 10-24 X ¾ (ASTRAGAL)	P-PART – FASTENER
78	S6504	SCREW, 6-32 X 1 FT HD PHIL, TYPE F (glass stop/dr stop)	P-PART – FASTENER
79			
80			
81			
82			
83			
84			
85			
86	S055	SCREW, #12 x 3" FLAT HEAD PHIL (threshold into wood)	P-PART – FASTENER
87			
88	BY OTHERS	SCREW, 1/4 X 2-1/2" LAG GALVINIZED (FOR WOOD SUBSTRATE)	P-PART – FASTENER
89		GLAZING TAPE	P-PART – TAPE
90		GLAZING 3/8"ø BACKER ROD	P-PART –
91	BY OTHERS	DOW 995 SILICONE BLACK FOR WET GLAZING	P-PART – SEALANT
92			
93			
94			
95			
125	P1558-C2	P1558-C2 BUTT HINGE (HAGNER)	P-PART-HARDWARE
139	P573-C2	P573-C2 RIM CYLINDER (RYADON)	P-PART-FASTENER
152	TBA	2086-47 X 96 CVR PANIC FIN-628 LHR (JACKSON)	P-PART-FASTENER
153	TBA	2086-47 X 96 CVR PANIC FIN-628 LHR (JACKSON)	P-PART-FASTENER
159	TBA	30-1084 TOP & BOTTOM STRIKE (JACKSON)	P-PART-FASTENER
160	TBA	30-821J CYLINDER KIT FIN -628 RHR (JACKSON)	P-PART-FASTENER

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0	7.10.15	HLP/LT	ORIGINAL RELEASE

DATE: 07.10.15
DRAWING NUMBER: TDI-THERMAL
DRAWN: HLP/LT
FINAL REVIEW:
SCALE: N.T.S.
REVISION: 0
SHEET NAME: BILL OF MATERIALS
SHEET: 5 OF 5