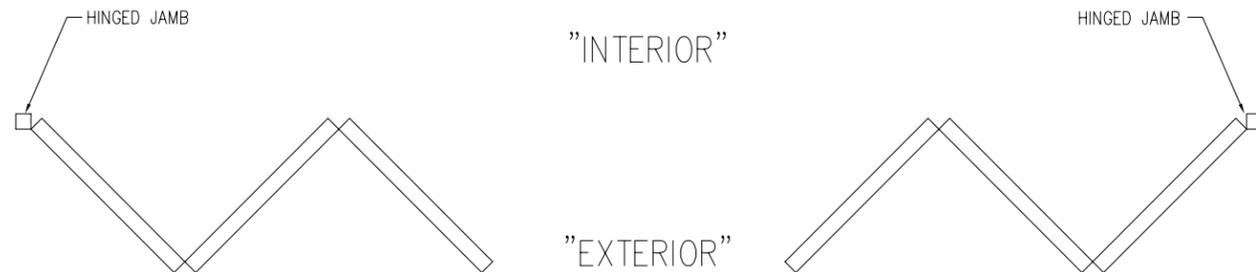


**FRONT EXTERIOR VIEW**

(6) PANELS SHOWN, UNLIMITED NUMBER OF PANELS IS APPLICABLE AS LONG AS INDIVIDUAL PANELS DO NOT EXCEED PANEL SIZE AS SHOWN

DESIGN PRESSURE RATING	IMPACT RATING
±60PSF	LARGE AND SMALL MISSILE IMPACT



**PLAN VIEW**

HINGE REQUIREMENTS	
X=FRAME HEIGHT(IN.)	# HINGES REQUIRED
80" ≤ X ≤ 100 1/2"	4

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	ELEVATION, ANCHORING AND NOTES
2	BILL OF MATERIALS AND GLAZING DETAILS
3 - 5	INSTALLATION DETAILS
6	COMPONENTS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

**NOTES:**

- 1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING CODE AND 2006 INTERNATIONAL RESIDENTIAL CODE WITH TEXAS STATE MODIFICATIONS.
- 2) WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 3) 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 4) FRAME MATERIAL: THERMALLY BROKEN 6063-T6 ALUMINUM ALLOY .100" THICK.
- 5) OUTFOLD PANEL MATERIAL: THERMALLY BROKEN 6063-T6 ALUMINUM ALLOY .150" THICK.
- 6) ALL FASTENERS, NUTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60KSI.
- 7) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
- 8) SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
- 9) FOR ANCHORING INTO CONCRETE USE 3/8" DIAMETER 2 1/2" LONG WEDGE BOLT ANCHOR BY POWERS FASTENERS TO ACHIEVE A 2" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 3 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATION DETAILS.
- 10) FOR ANCHORING INTO WOOD FRAMING, AT JAMBS USE #12 SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A 1 9/16" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 3/4" MINIMUM EDGE DISTANCE. AT HEAD 3/8" LAG BOLTS OF SUFFICIENT LENGTH TO ACHIEVE A 1 7/8" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATION DETAILS.
- 11) UNITS MUST BE GLAZED WITH 1 1/16" IGU LAMINATED GLASS OR 7/16" SINGLE LAMINATED GLASS PER ASTM E1300. SEE SHEET 2 FOR APPROVED GLASS TYPES.
- 12) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- 13) INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
  - A. WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42
  - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI.
  - C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).

**SOLAR INNOVATIONS, INC.**

31 ROBERTS RD  
PINE GROVE, PA 17963

5000 ST ALL WALL OUTFOLDING DOOR  
36" x 96" PANELS  
ELEVATION AND NOTES

DRAWN: TJH	DWG NO. 08-01073	REV -
SCALE NTS	DATE 08/05/10	SHEET 1 OF 6



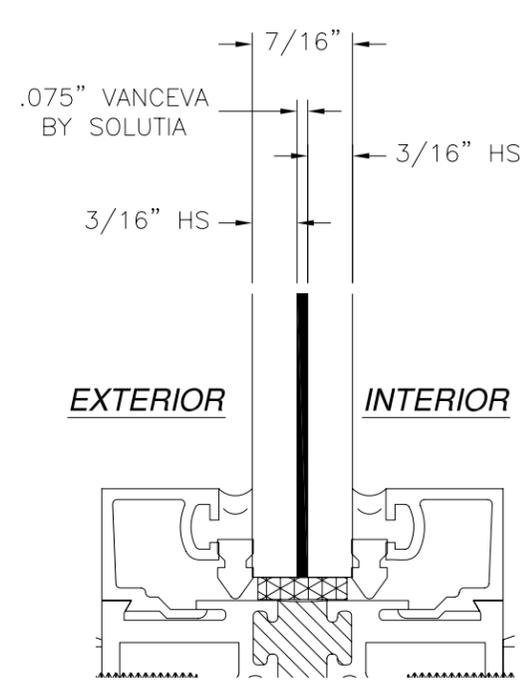
Luis R. Lomas P.E.  
Texas No. 101889

PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	S34709	INFOLD HEAD/SILL	KEYMARK	ALUMINUM 6063-T6
2	S34711	HEAD/SILL STOP	KEYMARK	ALUMINUM 6063-T6
3	H07558	FRAME	KEYMARK	ALUMINUM 6063-T6
4	S34937	FRAME CAP	KEYMARK	ALUMINUM 6063-T6
5	H07559	FRAME LUG	KEYMARK	ALUMINUM 6063-T6
6	S34713	1" GLASS STOP	KEYMARK	ALUMINUM 6063-T6
7	H07560	HINGE EXTENSION	KEYMARK	ALUMINUM 6063-T6
8	S34716	TROLLY BODY	KEYMARK	ALUMINUM 6063-T6
9	S34717	IDLER BODY	KEYMARK	ALUMINUM 6063-T6
10	H07606	HINGE	KEYMARK	ALUMINUM 6063-T6
11	S34841	HINGE COVER	KEYMARK	ALUMINUM 6063-T6
12	H07562	HINGE BARREL	KEYMARK	ALUMINUM 6063-T6
13	S34938	HANDLE	KEYMARK	ALUMINUM 6063-T6
14	S34714	9/16" GLASS STOP	KEYMARK	ALUMINUM 6063-T6
15	1079-01-00	SETTING BLOCK 1/8" x 1" x 2"		85DUROMETER EPDM
16	5088-02-00	PERIMETER BULD 70 DUROMETER		EPDM/EPG
17	5089-02-00	DOOR SWEEP 70 DUROMETER		EPDM/EPG
18	5285-01-00	HANDLE GUARD 65 DUROMETER		SANTOPRENE/EPG
19	5754-02-00	ENLARGED JAMB 60 DUROMETER		EPDM/EPG
20		3/16" ARROW SHIM		
21		3 POINT LOCK SET		GU/BRASS
22	HD50016100	TROLLY BEARING 1" DIAMETER		
23	HD50016000	TROLLY BEARING 5/8" DIAMETER		
24	HD50016302	FLUSHBOLTS		ALUMINUM/STEEL
25	HD500016509	HINGE BUSHING MP2 GLASS GRAPHITE		PTFE
26	HD50016400	HINGE PIN 1/4" DIA. x 4 1/8"		STAINLESS STEEL
27		FLUSHBOLT TIP		STEEL
28		#10 x 1/2" FH SCREW		STAINLESS STEEL
29		#10-32 x 3/4" FH SCREW		STAINLESS STEEL
30		#10-32 x 1" FH SCREW		STAINLESS STEEL
31		#8-32 x 1/8" SET SCREW		STAINLESS STEEL
32		3/8"-16 x 4" SH CAP SCREW		STAINLESS STEEL
33		#8 x 3/4" PH SMS		STAINLESS STEEL
34		#10 x 3/4" PH TEK SCREW		STAINLESS STEEL
35		#10 x 3/4" FH TEK SCREW		STAINLESS STEEL
36		3/8" x 2 1/2" WEDGE BOLT	POWERS FASTENERS	CARBON STEEL
37		3/8" x 2 1/2" MIN. LAG SCREW		STAINLESS STEEL
38		#12 x 4" FH SMS		STAINLESS STEEL
39		1 1/16" LAMINATED IGU		
40		7/16" LAMINATED GLASS		

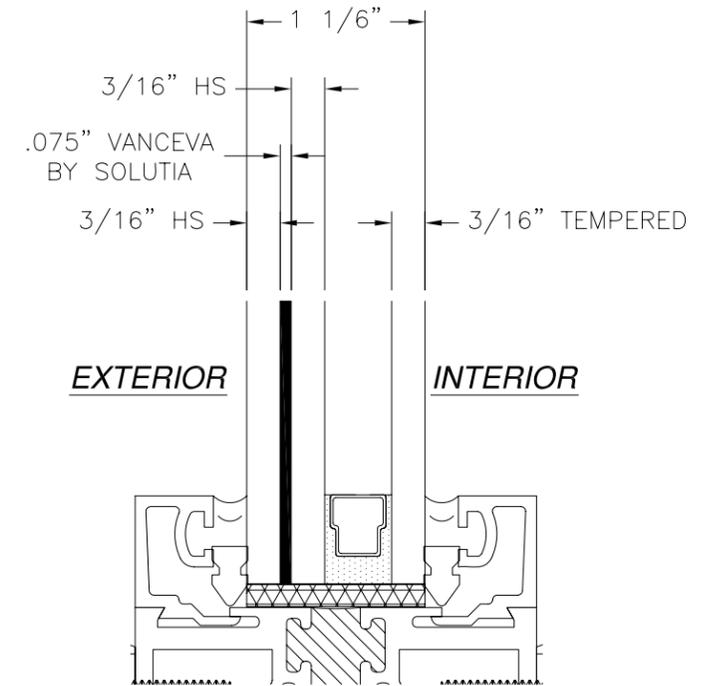
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
41		2 POINT LOCK SET AND HANDLES		GU/BRASS
42		#12 x 3/4" FH TEK SCREW		STAINLESS STEEL

ITEMS 17, 19, 25, 26, 27, AND 33 ARE USED BUT NOT SHOWN.



**7/16" CLEAR HEAT STRENGTHENED LAMINATED GLASS DETAIL**



**1 1/16" INSULATED GLASS DETAIL**

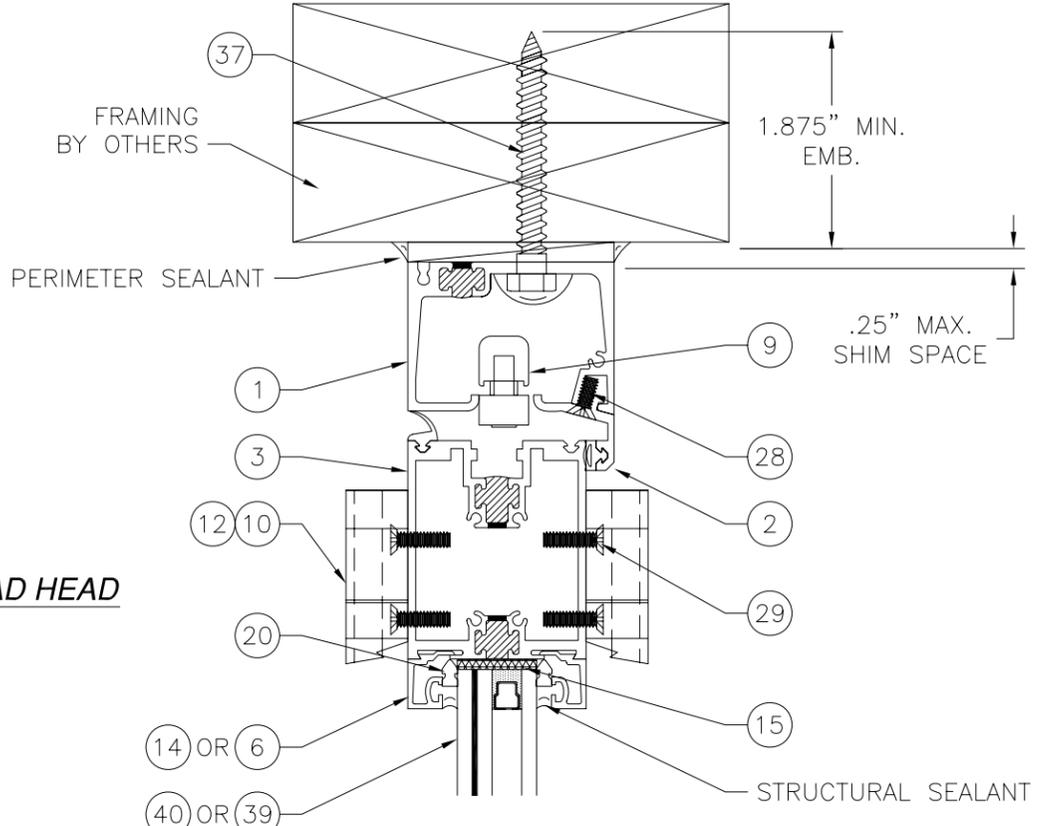
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 31 ROBERTS RD  
 PINE GROVE, PA 17963

5000 ST ALL WALL OUTFOLDING DOOR  
 36" x 96" PANELS  
 BILL OF MATERIALS AND GLAZING DETAILS

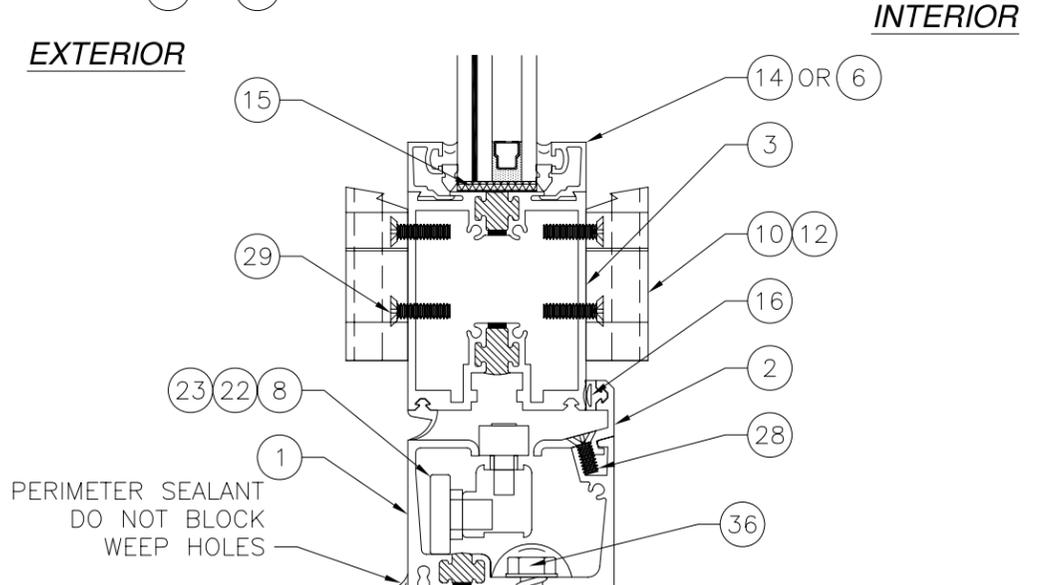
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SCALE NTS	DATE 08/05/10	SHEET 2 OF 6

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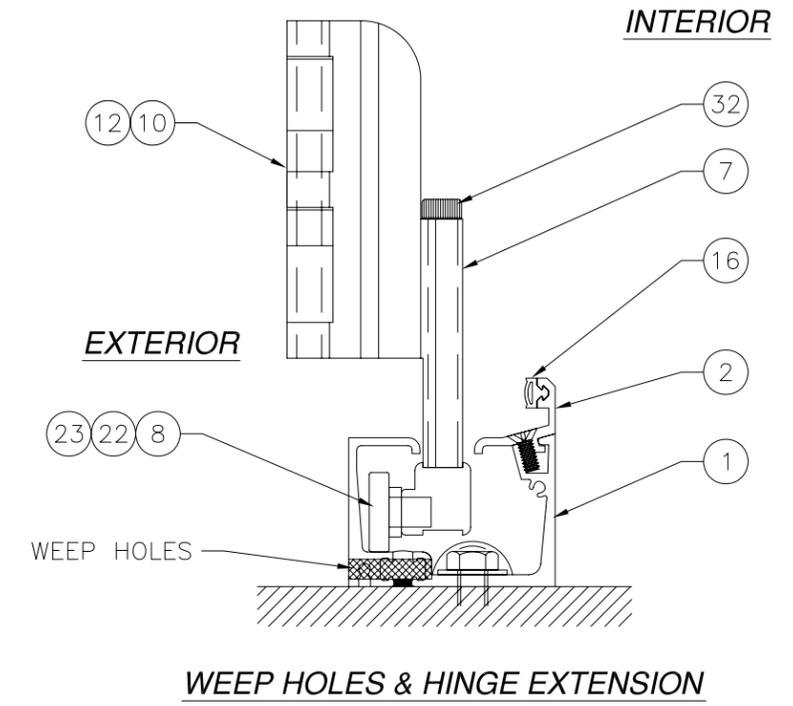
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



**1**  
**3** BOTTOM LOAD HEAD



**2**  
**3** BOTTOM LOAD SILL



WEEP HOLES & HINGE EXTENSION

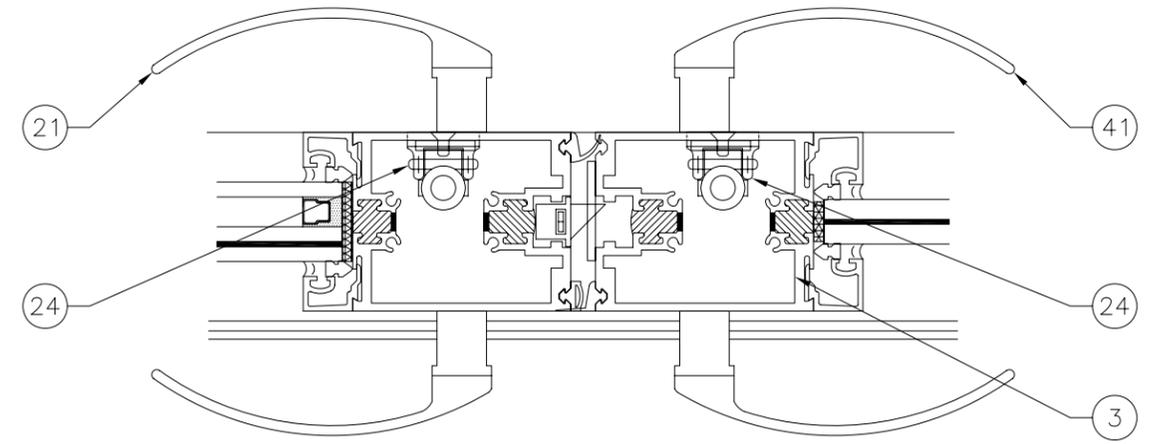
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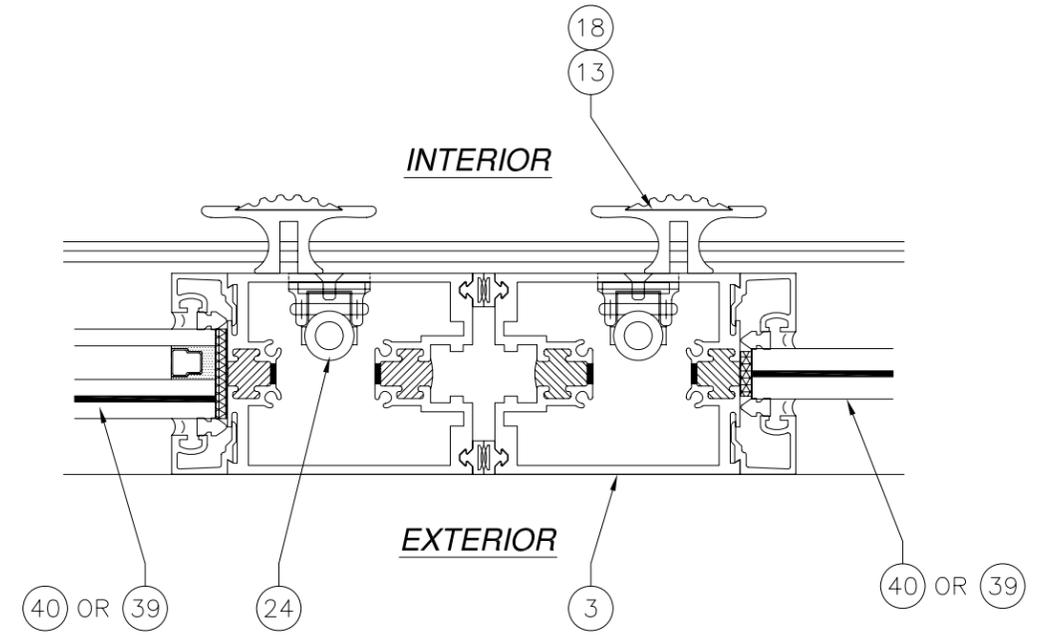
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Luis R. Lomas P.E.  
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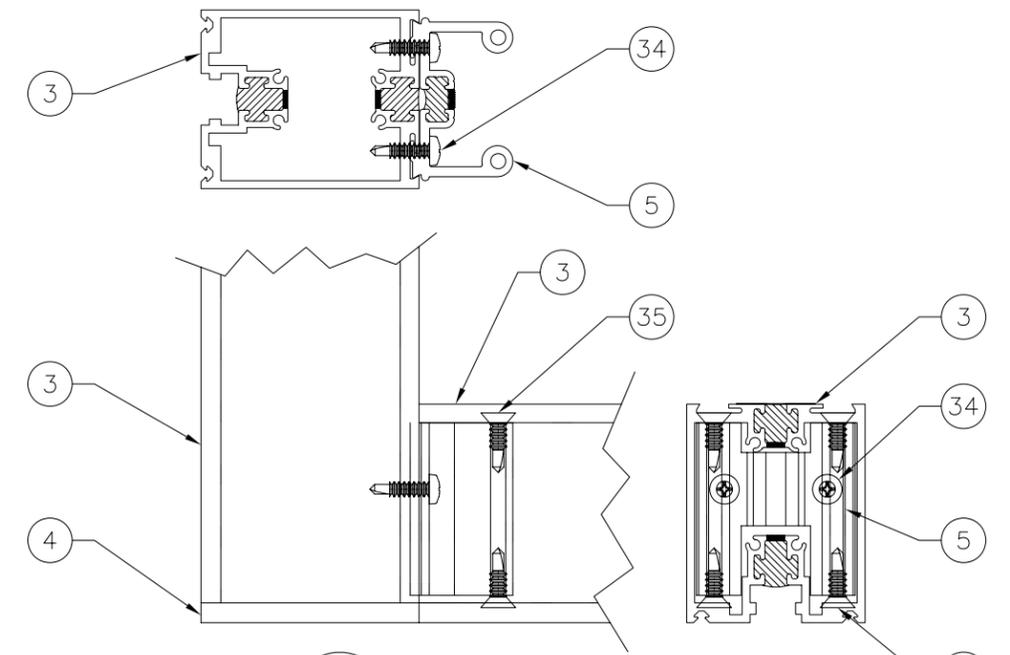
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



**3**  
**4** LOCKING MEETING RAIL



**5**  
**4** HORIZONTAL SECTION AT SPLIT WALL



**4**  
**4** FRAME LUG DETAIL

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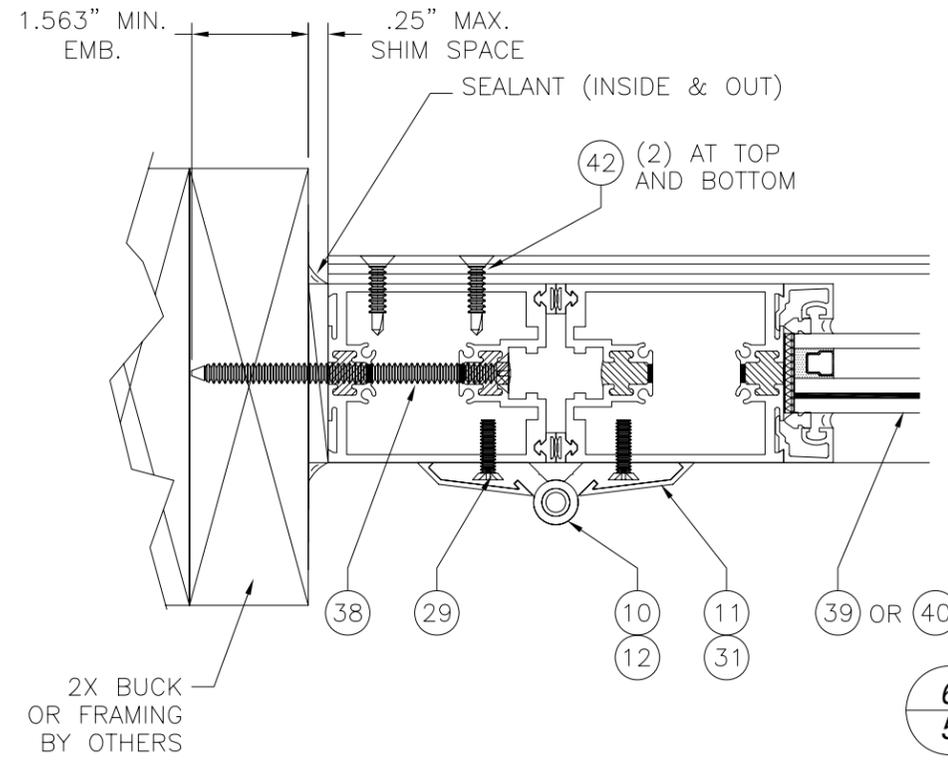
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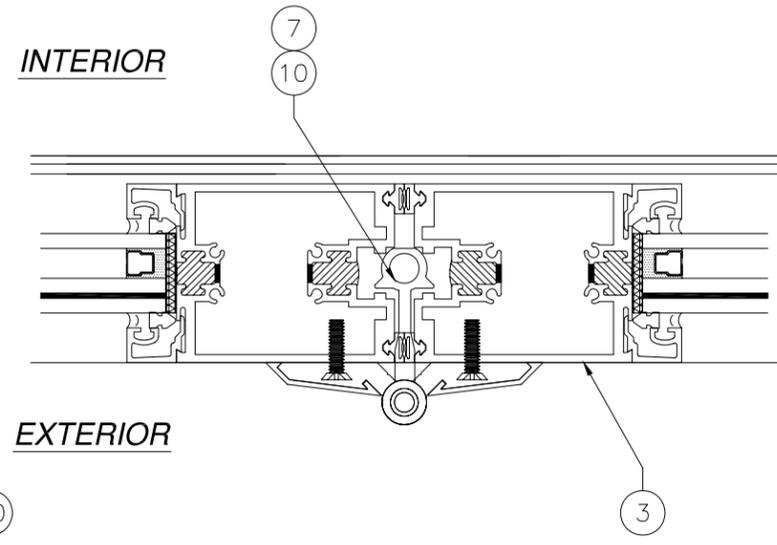


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**6**  
**5** HORIZONTAL SECTION



**7**  
**5** HORIZONTAL SECTION

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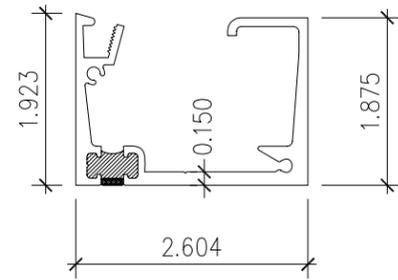
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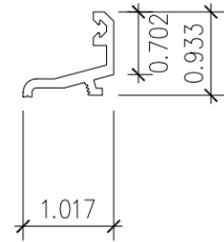


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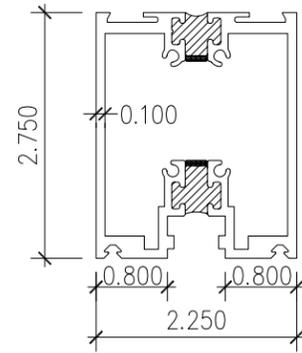
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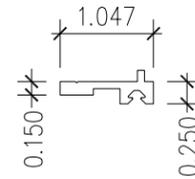
① **INFOLD HEAD/SILL**  
ALUMINUM 6063-T6  
.150" THICK



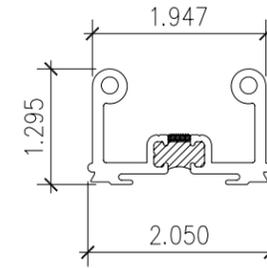
② **HEAD/SILL STOP**  
ALUMINUM 6063-T6  
.150" THICK



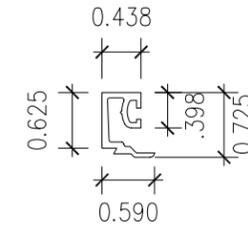
③ **FRAME**  
ALUMINUM 6063-T6  
.100" THICK



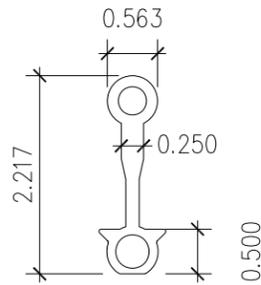
④ **FRAME CAP**  
ALUMINUM 6063-T6  
.080" THICK



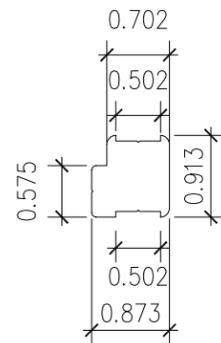
⑤ **FRAME LUG**  
ALUMINUM 6063-T6  
.130" THICK



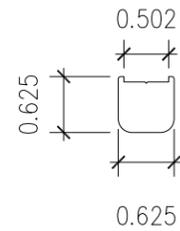
⑥ **1" GLASS STOP**  
ALUMINUM 6063-T6  
.070" THICK



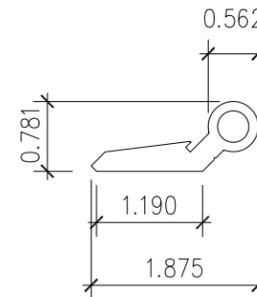
⑦ **HINGE EXTENSION**  
ALUMINUM 6063-T6  
.25" THICK



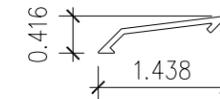
⑧ **TROLLEY BODY**  
ALUMINUM 6063-T6



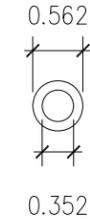
⑨ **IDLER BODY**  
ALUMINUM 6063-T6



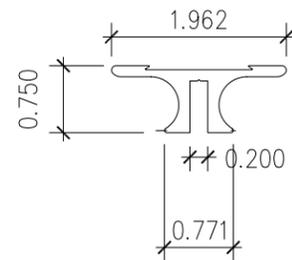
⑩ **HINGE**  
ALUMINUM 6063-T6



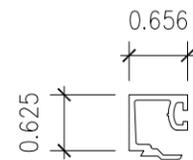
⑪ **HINGE COVER**  
ALUMINUM 6063-T6  
.060" THICK



⑫ **HINGE BARREL**  
ALUMINUM 6063-T6  
.100" THICK



⑬ **HANDLE**  
ALUMINUM 6063-T6  
.130" THICK



⑭ **9/16" GLASS STOP**  
ALUMINUM 6063-T6  
.060" THICK

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