

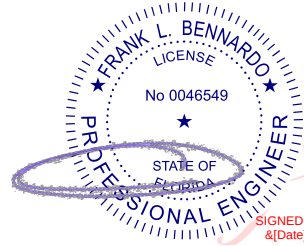
# MORGAN WINDOW & GLASS, INC.

SERIES M3100I AND M3100N FIXED WINDOWS

LARGE MISSILE IMPACT RESISTANT AND NON-IMPACT RESISTANT WINDOWS  
NON-HVHZ

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.

FRANK BENNARDO, P.E.  
PE# 0046549 CA# 9885



Digitally signed by  
Frank Bennardo  
Date: 2023.10.19  
17:13:40 -04'00'

**MAXIMUM ALLOWABLE  
DESIGN PRESSURES (A.S.D.):**

+ 60 PSF  
- 60 PSF

## GENERAL NOTES

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, PER AAMA/NWWDA 101/I.S.2-97 & ASTM E1886/E1996.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR  $C_D=1.6$  HAS BEEN USED FOR WOOD ANCHOR DESIGN.
3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
4. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
5. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
6. ALL EXTRUSIONS SHALL BE 6063-T5 ALUMINUM ALLOY, UNLESS NOTED OTHERWISE.
7. ENSURE MINIMUM 2-1/2" EDGE DISTANCE FOR ALL ANCHORS TO CONCRETE & TO GROUT-FILLED BLOCK.
8. WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2x (MIN) WOOD STUD (i.e. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING).
9. EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
10. UNITS GLAZED WITH 1" OVERALL INSULATED GLASS (1/4" ANNEALED + 1/2" GAP + 1/4" ANNEALED) ARE NOT IMPACT RESISTANT AND REQUIRE PROTECTION FROM WIND-BORNE DEBRIS WHERE APPLICABLE.
11. UNITS GLAZED WITH 1.020" LAMINATED GLASS (1/8" HEAT STRENGTHENED + 1/10" PVB + 1/8" HEAT STRENGTHENED + 1/2" GAP + 3/16" ANNEALED) ARE LARGE MISSILE IMPACT RESISTANT AND DO NOT REQUIRE IMPACT RESISTANT SHUTTERS.
12. EXTERIOR SEAM OF FRAME CORNERS SHALL BE SEALED WITH SILICONE.
13. ALL CONCRETE/BLOCK ANCHORS SHALL BE PER MANUFACTURER'S SPECIFICATIONS U.N.O. ALL SCREWS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI. ALL 3/16"Ø OR 1/4"Ø POP RIVETS SHALL BE 5056-H32 ALUMINUM ALLOY OR STRONGER.
14. ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED.

## ANCHOR SCHEDULE:

### TO GROUT-FILLED BLOCK OR CONCRETE:

- 1/4" DEWALT ULTRACON THRU WOOD 1X BUCKS OR DIRECTLY INTO UNCRACKED CONCRETE ( $f'_c=2846$  PSI MIN.) OR GROUT FILLED CELL (ASTM C90) WITH 1-3/4" EMBED.
- 1/4" ITW TAPCON (STAINLESS STEEL) THRU WOOD 1X BUCKS OR DIRECTLY INTO UNCRACKED CONCRETE ( $f'_c=3192$  PSI MIN.) WITH 1-3/4" EMBED. OR GROUT FILLED CELL (ASTM C90) WITH 1-1/4" EMBED.

### TO WOOD BUCK OR WOOD HOST STRUCTURE:

- 1/4" DEWALT ULTRACON OR ITW TAPCON (STAINLESS STEEL) WITH 1-1/2" THREAD PENETRATION INTO WOOD ( $G=0.55$  MIN.)
- #12 WOOD SCREWS W/ 1-1/2" THREAD PENETRATION INTO WOOD ( $G=0.55$  MIN.)

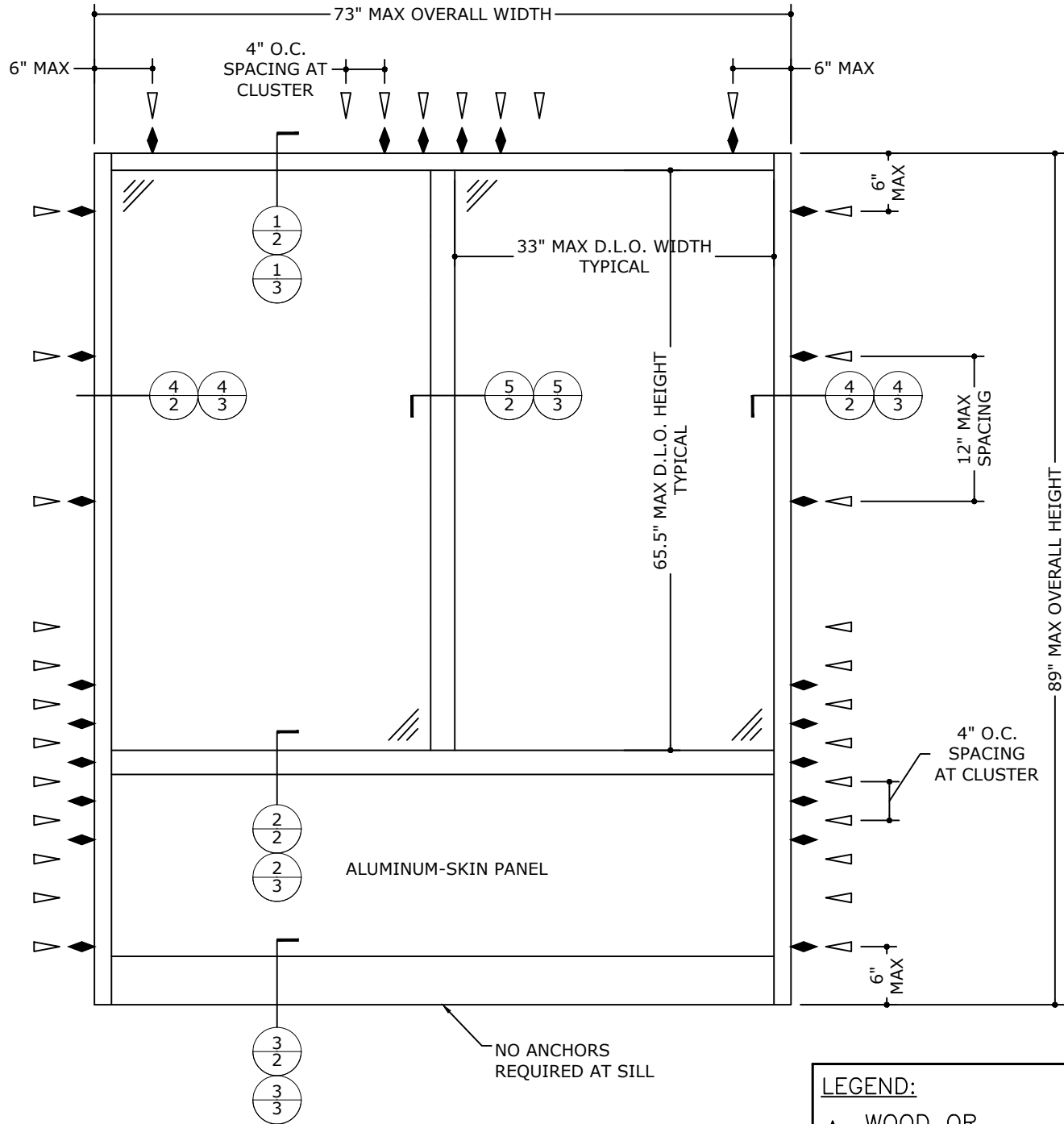
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FOR SITE-SPECIFIC DEVIATIONS  
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### LEGEND:

- ◆ WOOD OR CONC ANCHORS
- ▽ MASONRY ANCHORS

1 TYPICAL ELEVATION  
1 N.T.S. ELEV VIEW

FL# 8649.2

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MORGAN WINDOW & GLASS, INC.

207 INDUSTRIAL BLVD  
MCRAE, GA  
31055

M3100I FIXED WINDOW (LMT) AND M3100N  
FIXED WINDOW (NON-IMPACT) - FBC (2023)

FLORIDA STATEWIDE APPROVAL (FSA FL#8649.2)

| REMARKS                     | DRWN | CHKD | DATE     |
|-----------------------------|------|------|----------|
| 2007 FBC                    | RKB  | CL   | 02/02/09 |
| UPDATED CERTIFICATES        | KL   | FLB  | 03/29/11 |
| REV 2014 FBC (07-MW-0001)   | ZAR  | CSL  | 03/29/11 |
| REV 2017 FBC                | LAO  | FLB  | 08/11/17 |
| REV 2020 FBC                | JEM  | AJP  | 10/13/20 |
| REV 2023 FBC (REV 20-30902) | ANZ  | RS   | 10/17/23 |

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SERIES M3100N

NON-IMPACT RESISTANT

FRANK BENNARDO, P.E.  
PE# 0046549 CA# 9885

FRANK L. BENNARDO

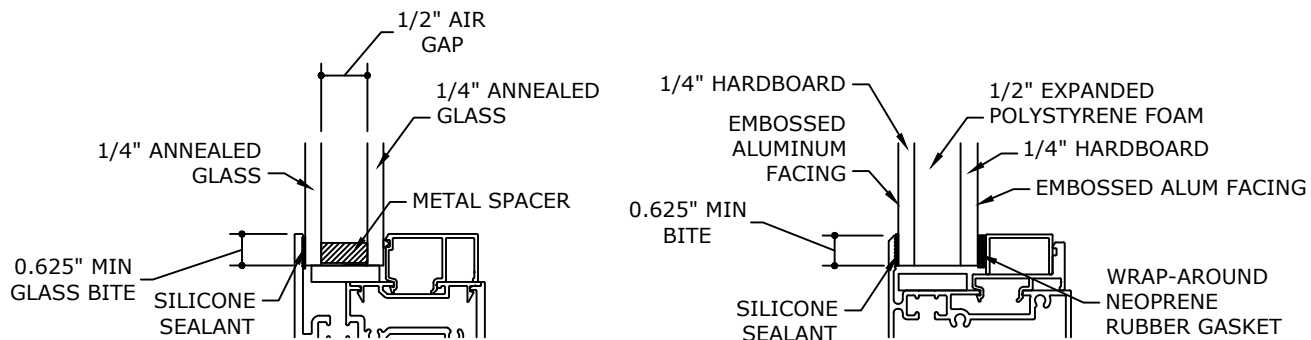
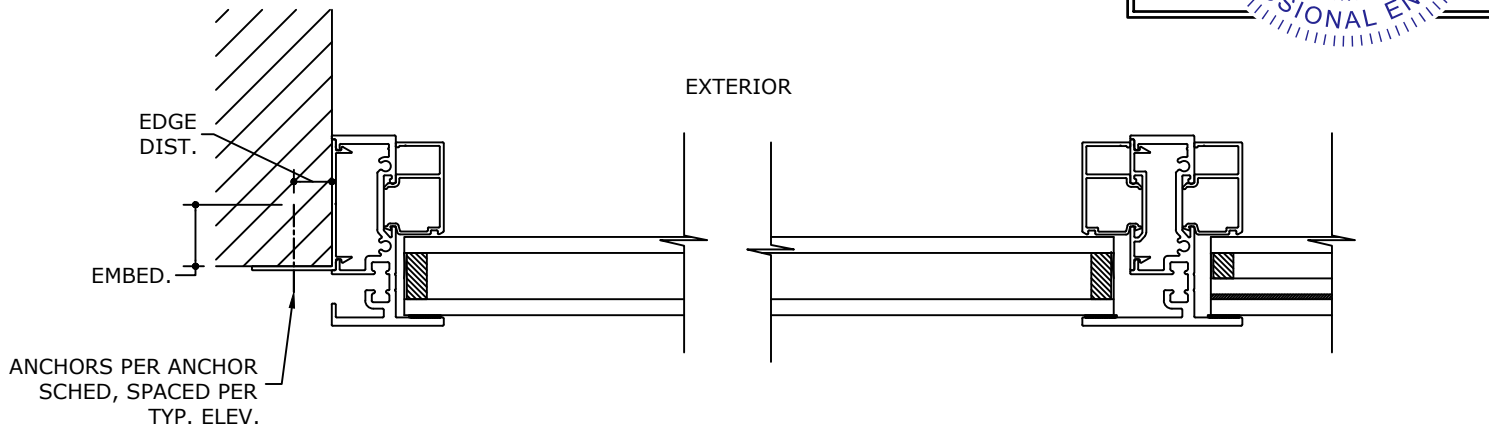
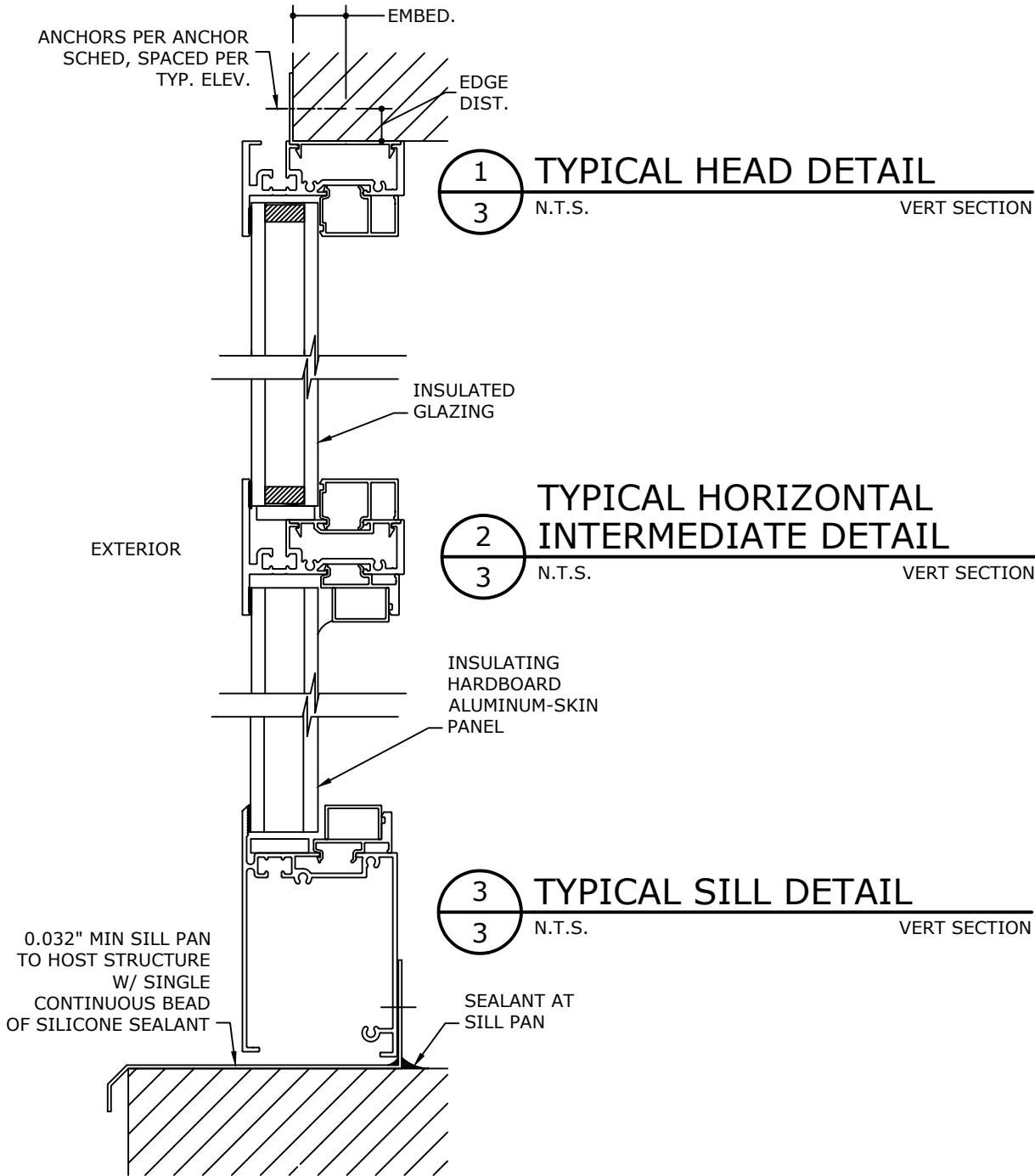
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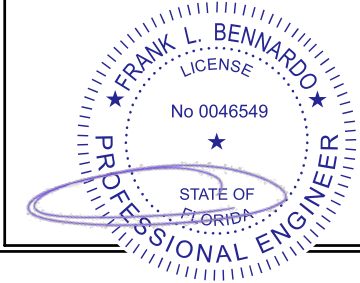
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OCTOBER 17, 2023

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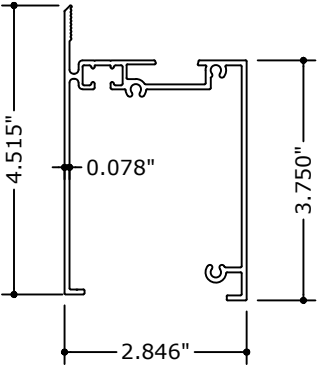
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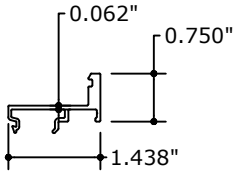
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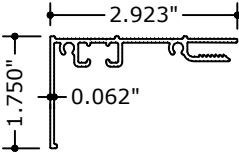
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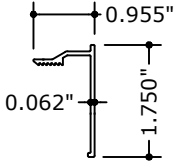
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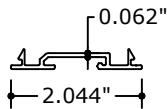
2 PANEL STOP  
N.T.S. 6063-T5



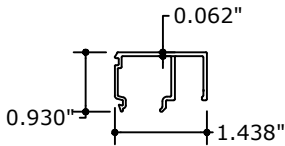
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N.T.S. 6063-T5



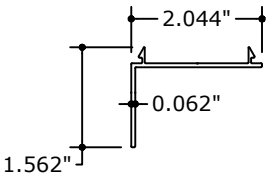
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N.T.S. 6063-T5



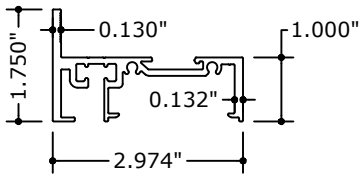
5 INTERMEDIATE  
SNAP PLATE  
N.T.S. 6063-T5



6 GLASS STOP  
N.T.S. 6063-T5



7 NAIL FIN  
N.T.S. 6063-T5



8 JAMB/HEAD/INTERMEDIATES  
N.T.S. 6063-T5