

WILLARD

SHUTTER COMPANY, INC.

LOUVER MODEL: W6 WDR

LARGE MISSILE IMPACT RESISTANT RATED

GENERAL NOTES:

FLORIDA BUILDING CODE 2023 - 8th EDITION HVHZ & NON HVHZ

LARGE MISSILE IMPACT RATED

- 1- CODE: THIS PRODUCT HAS BEEN TESTED UNDER TAS 201 (LARGE MISSILE), 202 AND 203 AND DESIGNED IN ACCORDANCE WITH THE FBC 2023 - 8TH EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2- DEFINITION: THIS PRODUCT IS AN ALUMINUM IMPACT RESISTANT LOUVER DESIGNED, CONSTRUCTED AND TESTED FOR THE PURPOSE OF PROVIDING PROTECTION FROM HURRICANE FORCE WINDS AND WIND BORNE DEBRIS (LARGE MISSILE) WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL.
- 3- POSTING: A PERMANENT LABEL SHALL BE PROVIDED AS PER FBC. IT SHALL BE LOCATED ON THE EXTERIOR OR OUTSIDE AND A MINIMUM OF ONE LABEL PER OPENING.

"WILLARD SHUTTERS - MIAMI - FLORIDA
SERIES W6 WDR ALUMINUM LOUVERS
LARGE MISSILE IMPACT RATED
- 4- LOADS: DESIGNED LOAD CALCULATED BASED ON THE ASCE 7-22 AND PROVIDED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE PRESSURES HERE IN SPECIFIED. THE DESIGN PRESSURES, AS DETERMINED FROM ASCE 7-22, ARE TO BE MULTIPLE BY 0.6
- 5- MATERIAL: ALL EXTRUDED ALUMINUM PARTS TO BE 6063-T6 ALLOY OR AS NOTED ON THIS APPROVAL.
- 6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL.
- 7- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:

7.1- THE STABILITY OF THE STRUCTURE WHERE THE PRODUCT IS TO BE ATTACHED ENSURING PROPER ANCHORAGE.

7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.

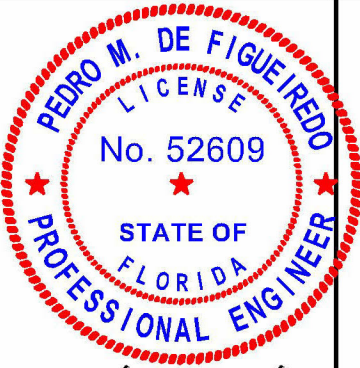
7.3- THAT THIS APPROVAL IS ADEQUATE FOR A SPECIFIC PROJECT.
- 8- DISSIMILAR MATERIALS: WHERE ALUMINUM IS IN CONTACT OR FASTENED TO DISSIMILAR MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL, INSTALLATION SHALL MEET THE REQUIREMENTS OF CHAPTER M.7 OF THE ALUMINUM DESIGN MANUAL 2020.
- 9- BLADE CAN BE INSTALLED UPSIDE DOWN FOR THE PURPOSE OF SIGHT BLOCKING.
- 10- THIS SYSTEM HAS NOT BEEN TESTED FOR WIND DRIVEN RAIN RESISTANCE AND CANNOT BE INSTALLED IN AREAS WHERE NO WATER INTRUSION IS REQUIRED.

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3	SECTION DETAILS
4	LOUVER MANUFACTURER COMPONENTS, BILL OF MATERIALS AND ANCHOR SCHEDULE

DRAWING INSTRUCTIONS TO VERIFY PRODUCT ALLOWABLE PRESSURE

- STEP 1 - SHEET 1: GENERAL NOTE 4: DETERMINE PROJECT DESIGNED PRESSURE (DP) AS INDICATED.
- STEP 2 - SHEET 2: SELECT LOUVER ALLOWABLE PRESSURE USING TABLE 1 FUNCTION OF DIMENSIONS
- STEP 3 - SHEET 2: SELECT FRAME ANCHORING ALLOWABLE DESIGN PRESSURE CAPACITY FROM TABLE 2
- STEP 4 - THE LOWEST ALLOWABLE DESIGNED PRESSURE FROM STEP 2 AND 3 SHALL APPLY TO THE ENTIRE SYSTEM AND MUST BE GREATER OR EQUAL THAN THE PROJECT DESIGN PRESSURE (DP) FROM STEP 1



Pedro De Figueiredo

PE 52609

08/16/2023

Pedro Figueiredo

Digitally signed by Pedro Figueiredo

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PRODUCT:

W6 WDR

ALUMINUM LOUVERS

LARGE MISSILE IMPACT LEVEL

MANUFACTURER:

WILLARD

SHUTTER COMPANY, INC.

4420 NW 35TH COURT

MIAMI, FL 33142

Tel.: (305) 633-0162

Fax.: (305) 638-8634

SCALE:

NA

DATE:

08/16/2023

DRAWING #

23-131

SHEET

1 OF 4

ENGINEERING SERVICES - CA 32459

9715 W. BROWARD BLVD.

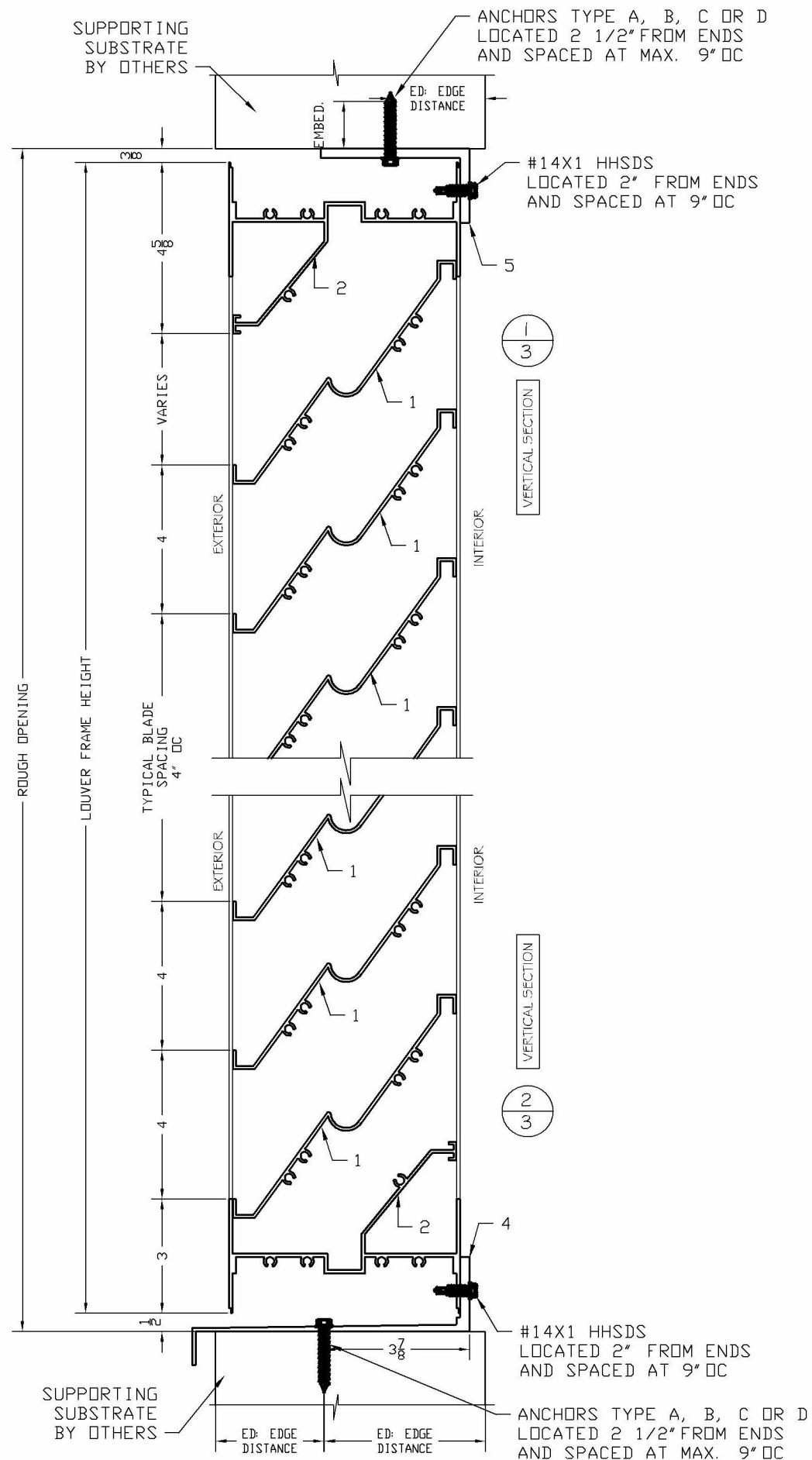
PLANTATION, FL 33324

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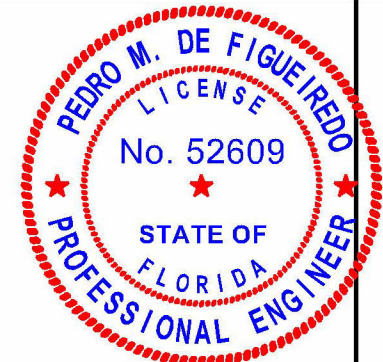
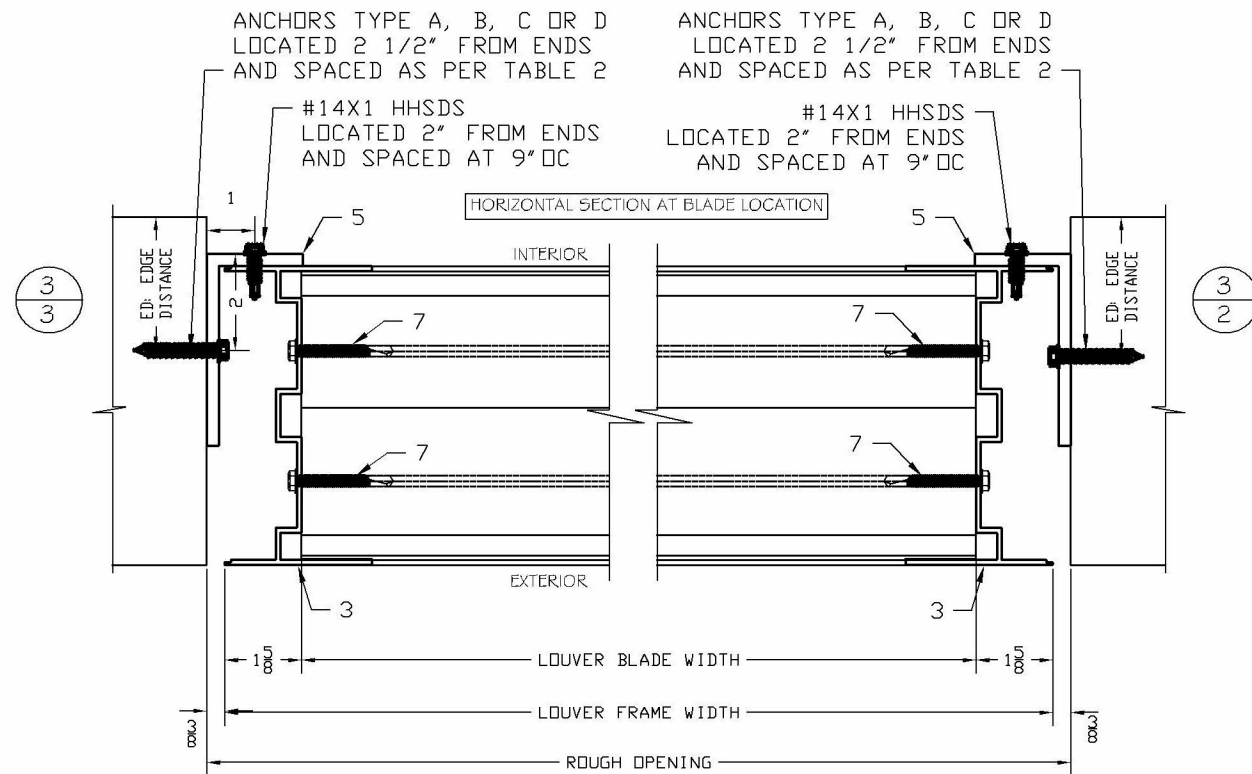
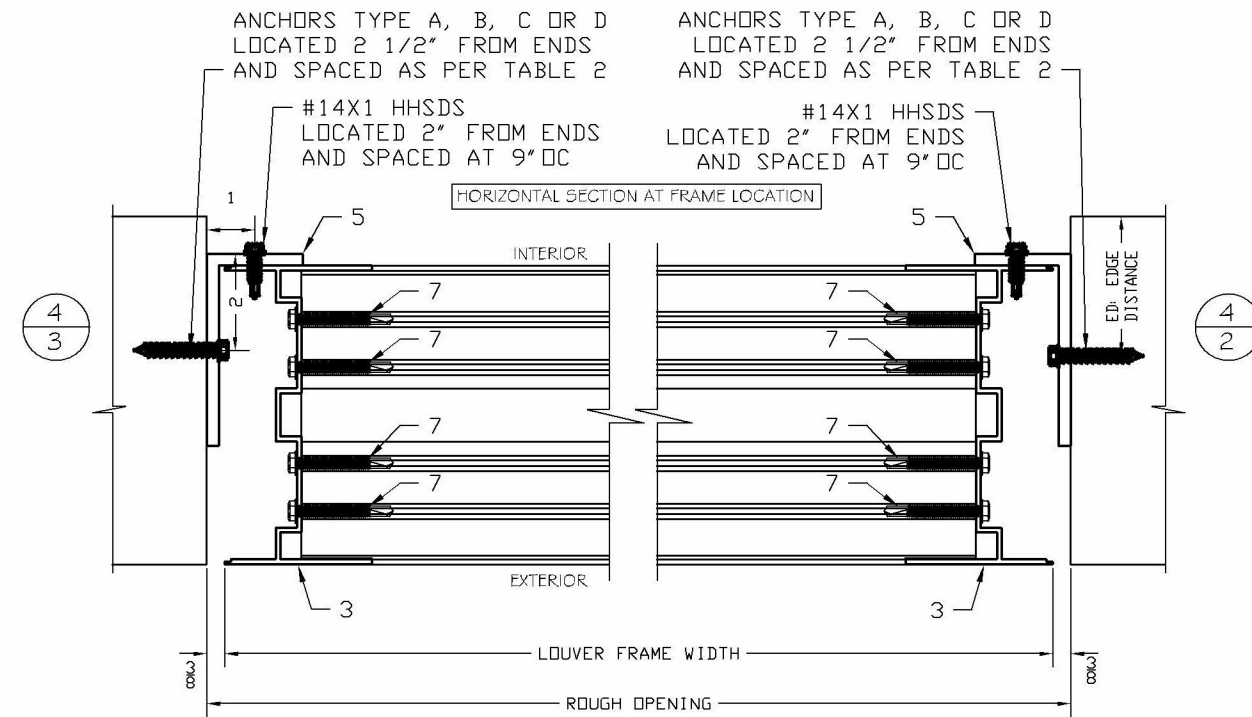
ENGINEER SEAL

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SECTION DETAILS



Pedro De Figueiredo
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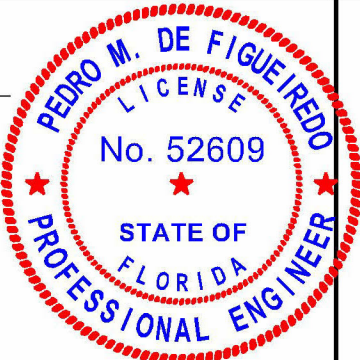
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SHEET

2 OF 4

LOUVER MANUFACTURE COMPONENTS

NOTE: MATERIAL FOR ALL COMPONENTS IS MIN TYPE 6063-T5
EXTRUDED ALUMINUM. ALL DIMENSIONS ARE INCHES.



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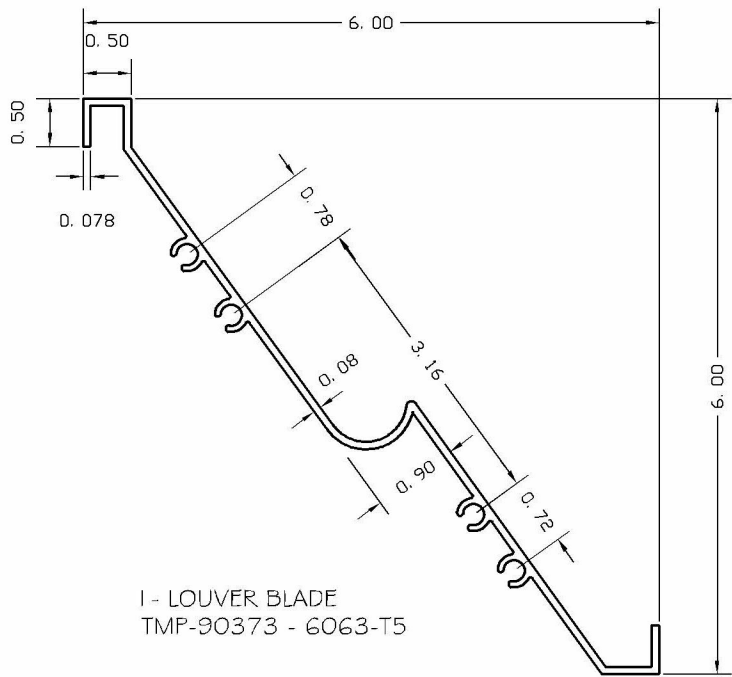


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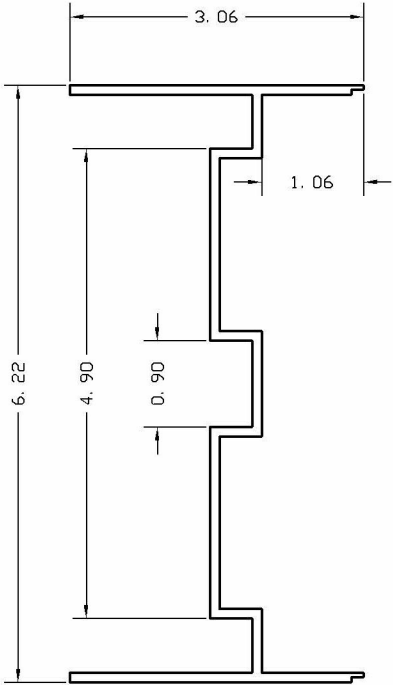
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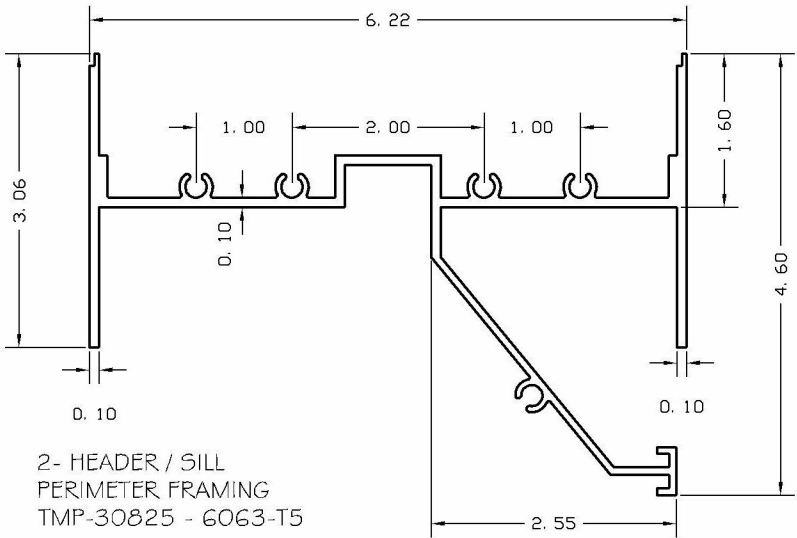
1 - LOUVER BLADE
TMP-90373 - 6063-T5



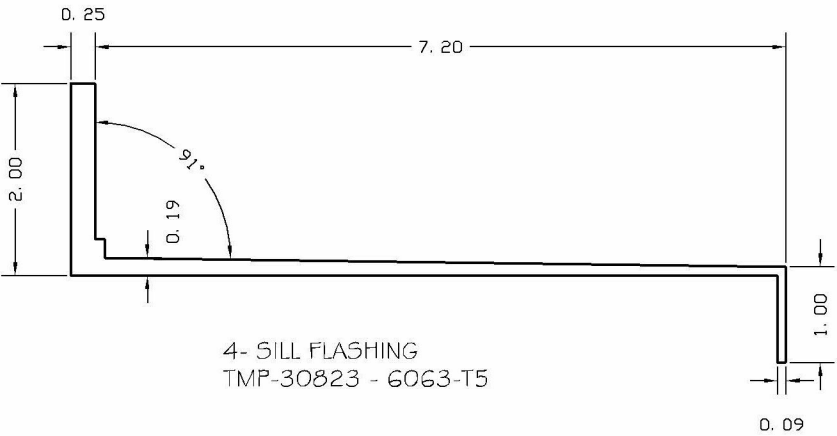
3 - JAMBS
PERIMETER FRAMING
TMP-30824 - 6063-T5

BILL OF MATERIALS:

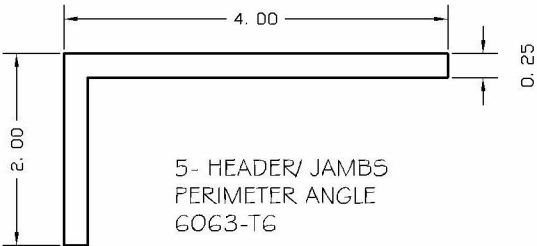
PART #	DESCRIPTION	MATERIAL	MANUFACTURER
TMP 90373	LOUVER BLADE	6063-T5 ALUMINUM	WILLARD
TMP 30825	FRAME HEADER/ SILL	6063-T5 ALUMINUM	WILLARD
TMP 30824	FRAME JAMB	6063-T5 ALUMINUM	WILLARD
TMP 30823	SILL FLASHING	6063-T5 ALUMINUM	WILLARD
5	PERIMETER ANGLE	6063-T5 ALUMINUM	WILLARD
6	#14X1 HHSDS	ZINC PLATED STEEL	GENERIC
7	#14X1 1/2 HHSDS	ZINC PLATED STEEL	GENERIC



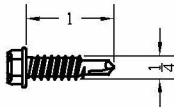
2 - HEADER / SILL
PERIMETER FRAMING
TMP-30825 - 6063-T5



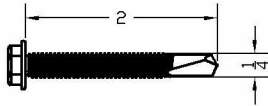
4 - SILL FLASHING
TMP-30823 - 6063-T5



5 - HEADER/ JAMBS
PERIMETER ANGLE
6063-T5



6 - PERIMETER FASTENER
#14X1 HHSDS



7 - BLADE/ FRAMING
ASSEMBLY SCREWS
#14X1 1/2 HHSDS