



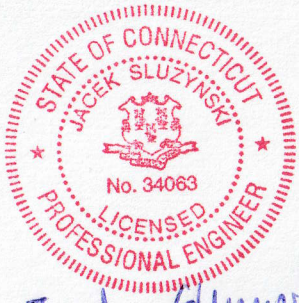
**BOL CABLE RAILING SYSTEM  
IBC 2018 AND IRC 2018**

**1/16/2023**

**JACEK SLUZYNSKI, P.E.  
BARRETTE OUTDOOR LIVING  
2401 CORPORATE BLVD • BROOKSVILLE, FL 34604  
(352) 754-8555**



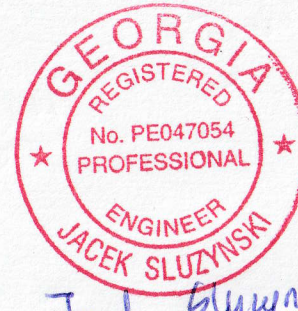
Jacek Sluzynski  
11/6/2023



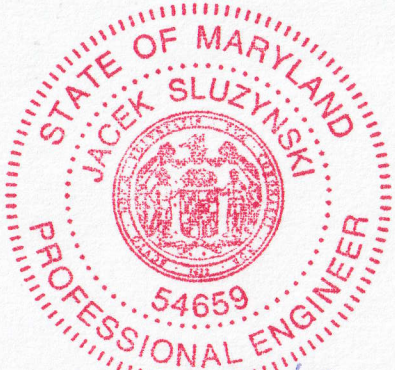
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11/6/2023

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
License No. 54659 Expiration Date: 7/11/2023

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.

Signature: Jacek Sluzynski

Typed or Printed Name: JACEK SLUZYSKI

Date: 11/6/2023 License Number: 57350



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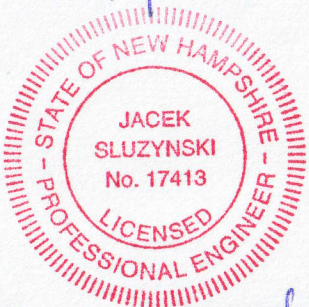
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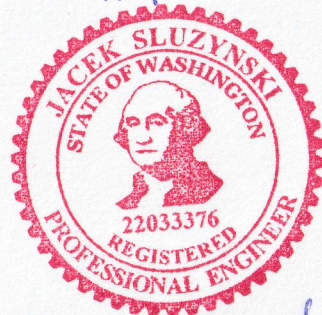
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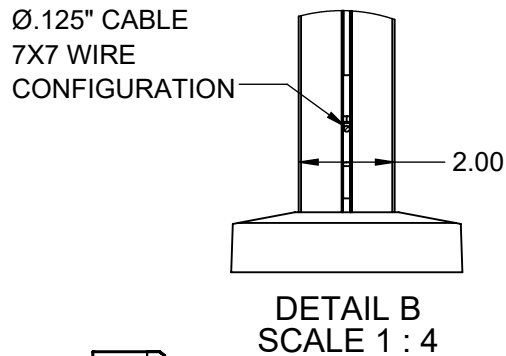
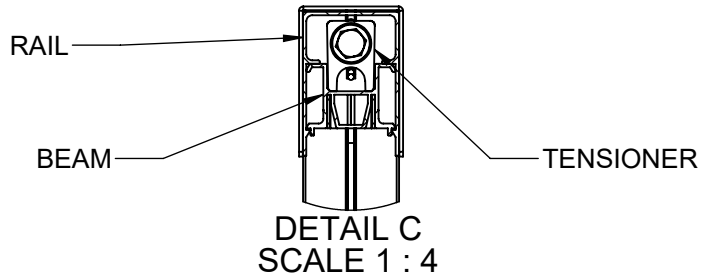
EXPIRES: 06/30/2024

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1/16/2023

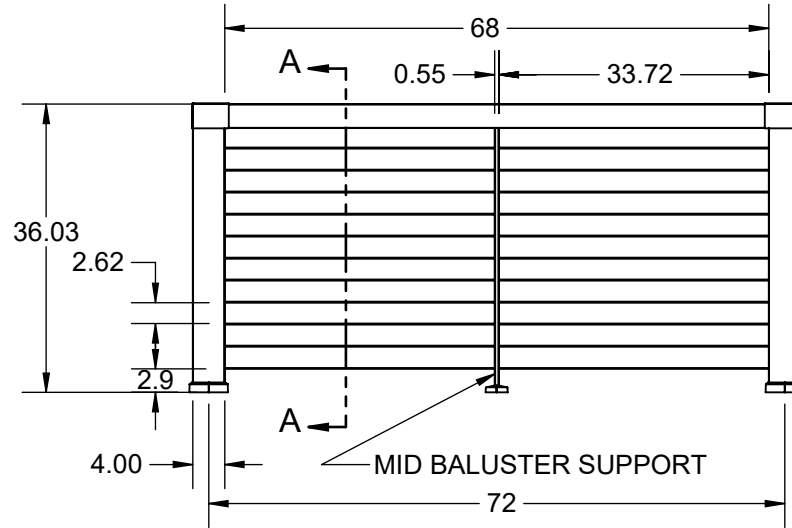
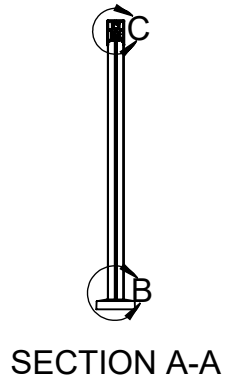
## **GENERAL NOTES**

1. The "Cable Railing" (*guard*) meets or exceeds 2018 International Building Code (IBC) section 1607.8.1. 1 & 1607.8.1.2. (for one and two family dwellings) and 2018 International Residential Code (IRC) section R301.5.
2. Loads:
  - 2.1. The top railing of the *guard* is capable of transferring to the anchoring connection a point load of 200 pounds (Residential applications).
  - 2.2. The infill (cable) are capable of transferring to the anchoring connection a horizontally applied normal load of 50 pounds exerted over 1 square foot.
3. The professional engineer (PE) is responsible for the design of the *guard* to the bottom of the base plate, to the bottom of the post, and to the mounting surface of the upper and lower railing wall brackets. The PE is not responsible for the design of the anchoring substrate, such as, concrete or wood. Except for the fasteners specified, the PE is not responsible for the selection or location of the anchoring fasteners.
4. The use of this specification indemnifies and saves harmless the PE from all cost and damages including legal fees and appellate fees resulting from material and part fabrication, manufacturing, assembly, system design and erection, construction practices, and Barrette warranties. Neither the PE nor Barrette shall be held responsible or liable in any way for the use of this product in applications other than shown on this drawing.
5. Materials and manufacturing of the guard shall be in accordance with the Aluminum Association's 2015 "Aluminum Design Manual".
6. All *guard* extrusions shall be aluminum 6005-T5. Cables and brackets 316 SS.
7. All *guard* fasteners are 410 stainless steel.
8. Barrette manufacturing tolerances for the guard are equal to or tighter than allowed by the IBC and IRC. Contact Barrette for specific tolerances.
9. All concrete shall be uncracked only, with a minimum compressive strength of 3000psi and shall be minimum 1.5X thicker than any anchor embedment. All epoxy and grout shall meet or exceed compressive strength of the concrete and shall be iron-free, non-shrink and non -reactive. Concrete footers shall contain min 0.1% fiber mesh admixture per CY.
10. All wood shall be pressure treated No. 2 Southern Yellow Pine with minimum specific gravity,  $G=0.55$

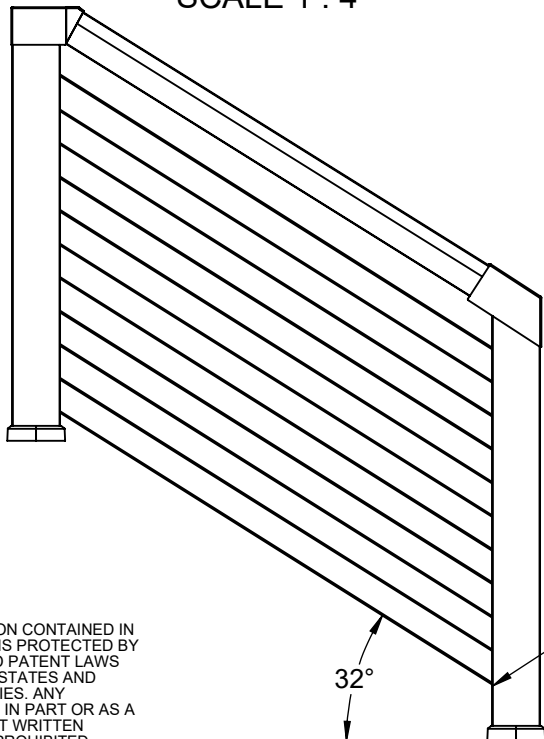
11. Surrounding soil to be compacted to 98% optimum density, 2500 psf minimum and
12. Insulate aluminum from dissimilar metals to prevent electrolysis. Insure all bare metal is protected from corrosive environments such as installation near the ocean.
13. Neither the PE nor Barrette is responsible for construction tolerances, field dimensions, or installation of the *guard*.
14. No changes are allowed without written authorization from the engineer.
15. Copies of this drawing without an original signature and seal of the engineer are invalid.
16. No inspection was made at this jobsite and the design depicted herein is based upon data supplied by the contractor. This engineer is to not be held liable or in any way responsible for the use of any inaccurate information supplied by others. The contractor shall field verify all measurements and information used in this design before any changes are made to field condition, fabrication and the installation of the materials.



## ELEVATION RAIL DETAILS



NOTE:  
 (A) FINISHED RAIL HEIGHT = 36"  
 (B) PANEL LENGTH = 68"  
 (C) MAX IRC SPAN = 72" X 36"



NOTE:  
 (A) MAX STAIR RAIL LENGTH = 60"

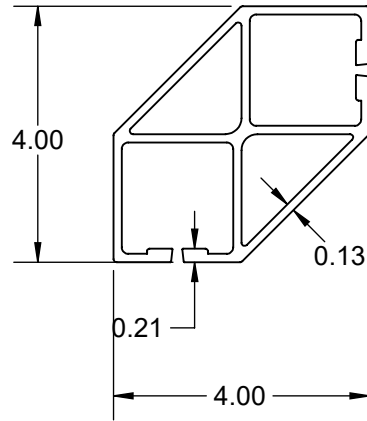
STAIR SECTIONS HAVE  
 A WORKING RANGE OF  
 26-38 DEGREES

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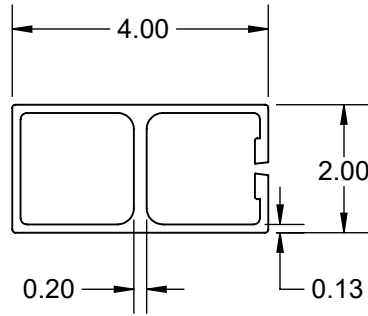
<b>Barrette</b> OUTDOOR LIVING		
DRAWN: CH	DATE: 05/11/2022	APPROVED:
DESCRIPTION: <b>ELEVATION LEVEL AND STAIR RAIL</b>		
SHEET 1 OF 7	REVISION	PART NUMBER
SCALE 1:24	0	N/A
WEIGHT: N/A		

# POSTS AND RAILS

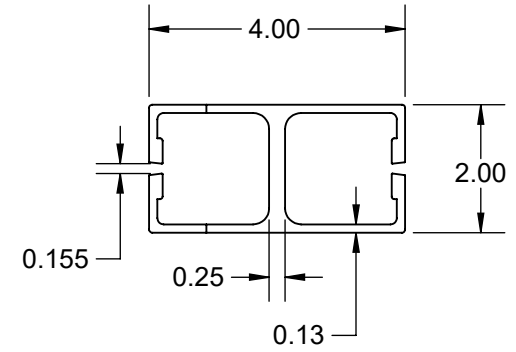
CORNER



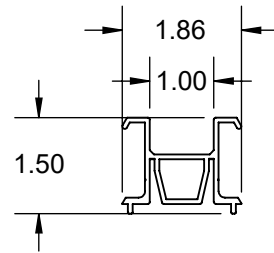
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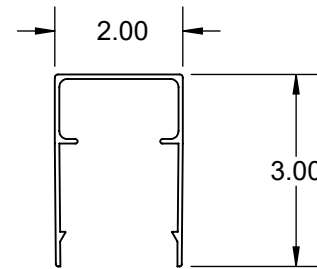
LINE



BEAM



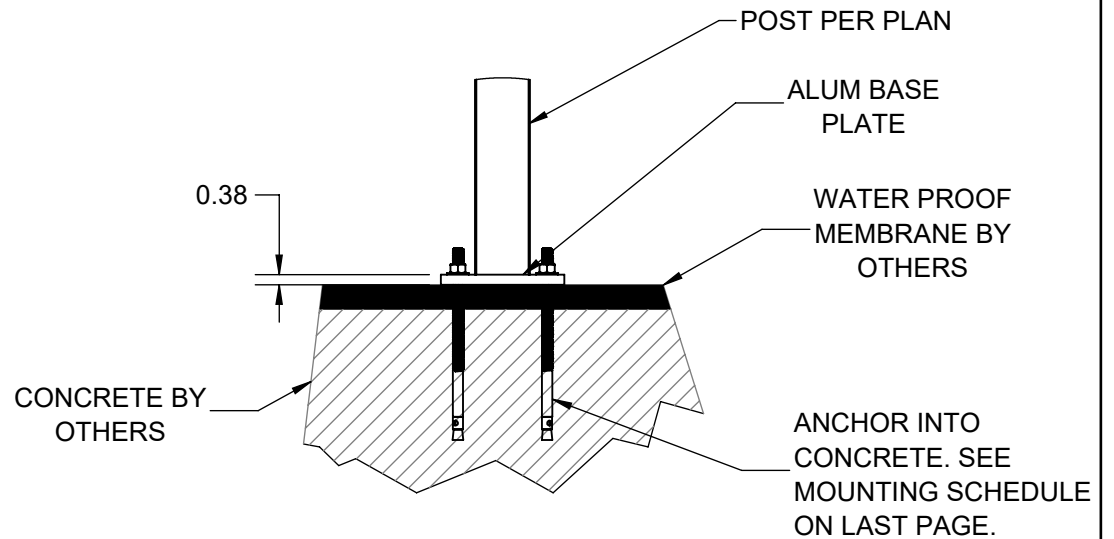
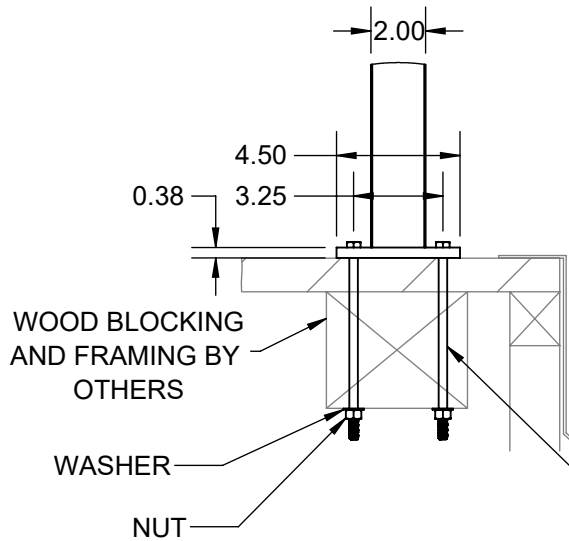
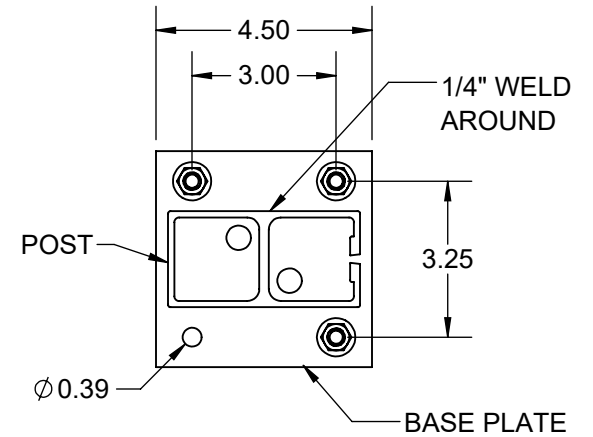
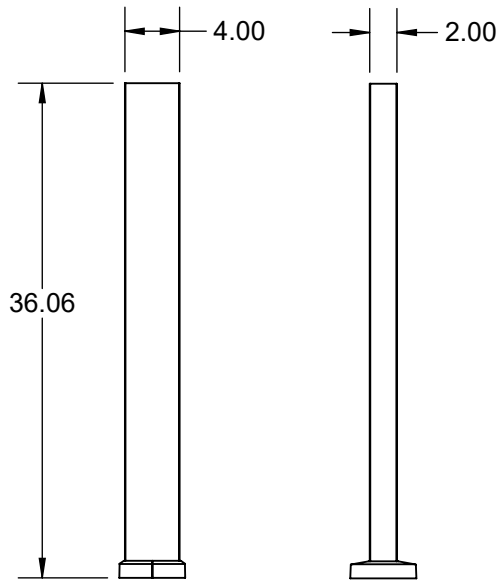
RAIL



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<b>Barrette</b> OUTDOOR LIVING		
DRAWN: CH	DATE: 05/11/2022	APPROVED:
DESCRIPTION: <b>POST AND RAIL DETAILS</b>		
SHEET 2 OF 7	REVISION	PART NUMBER
SCALE 1:12		N/A
WEIGHT: N/A		

## SURFACE MOUNT DETAILS



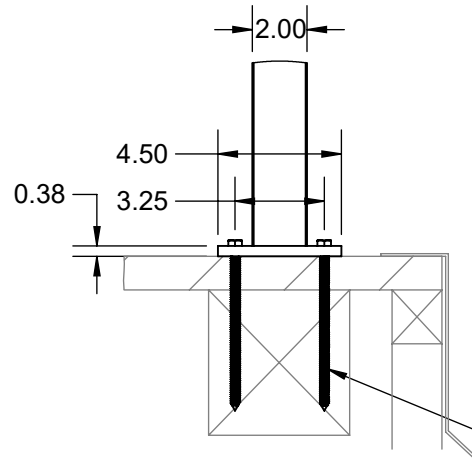
3/8" DIAMETER THROUGH BOLTS INTO SOLID WOOD .  
SEE MOUNTING SCHEDULE ON LAST PAGE.

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DRAWN: CH	DATE: 05/11/2022	APPROVED:
DESCRIPTION: <b>SURFACE MOUNT DETAILS</b>		
SHEET 3 OF 7	REVISION	PART NUMBER
SCALE 1:1	0	<b>N/A</b>
WEIGHT: N/A		



## SURFACE MOUNT DETAILS



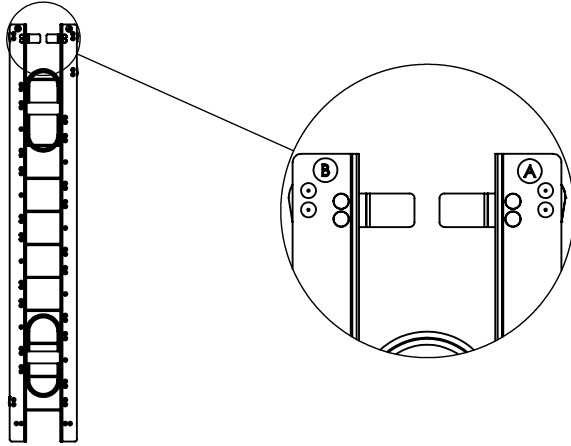
4 LAG BOLTS INTO SOLID  
WOOD 3/8" DIAMETER MINIMUM.  
SEE MOUNTING SCHEDULE ON  
LAST PAGE

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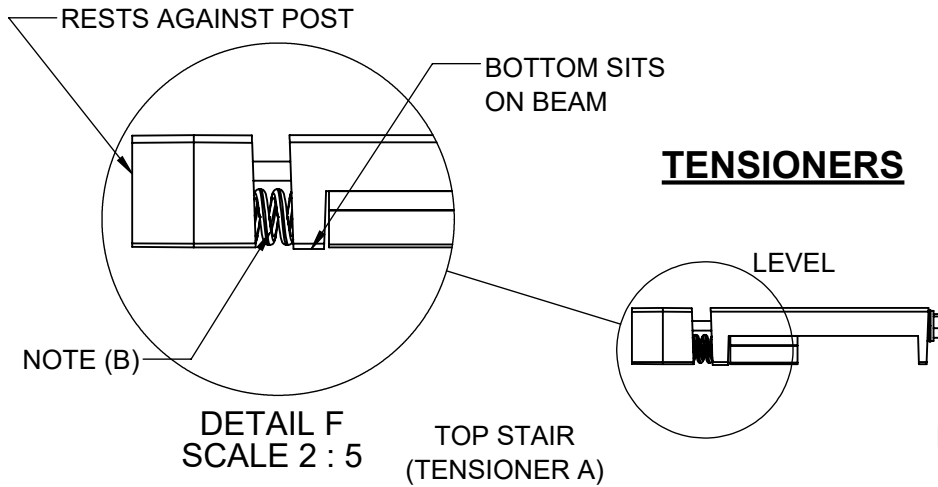
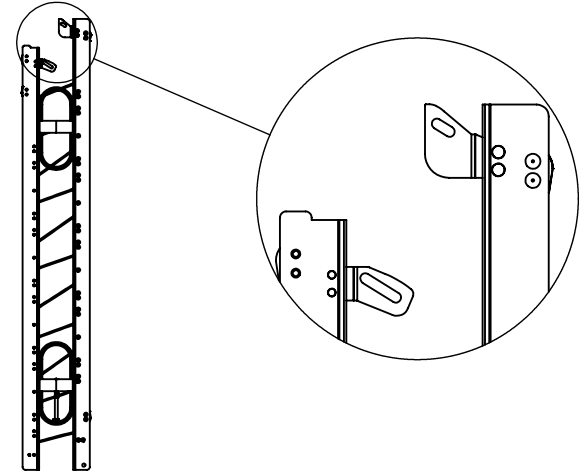
<b>Barrette</b> OUTDOOR LIVING		
DRAWN: CH	DATE: 05/11/2022	APPROVED:
DESCRIPTION: <b>SURFACE MOUNT DETAILS</b>		
SHEET 4 OF 7	REVISION	PART NUMBER
SCALE 1:1		<b>N/A</b>
WEIGHT: N/A		

# BRACKETS & ACCESSORIES

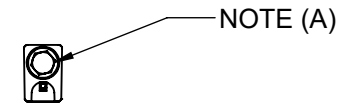
## LEVEL CABLE GUIDES



## STAIR CABLE GUIDES



NOTE:  
 (A) 9/16" SOCKET OR WRENCH USED TO TURN BOLT TO TENSION CABLES  
 (B) SPRING WILL COMPRESS AND SPACE WILL CLOSE ONCE 250LB LIMIT IS REACHED



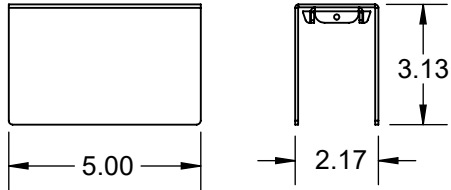
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<b>Barrette</b> OUTDOOR LIVING		
DRAWN: CH	DATE: 05/11/2022	APPROVED:
DESCRIPTION: <b>BRACKETS &amp; ACCESSORIES</b>		
SHEET 5 OF 7	REVISION	PART NUMBER
SCALE 1:2	0	<b>N/A</b>
WEIGHT: N/A		

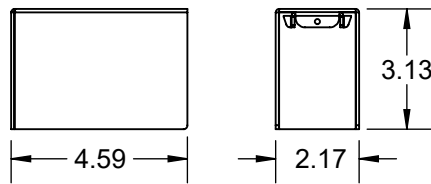
# BRACKETS & ACCESSORIES

## POST CAPS

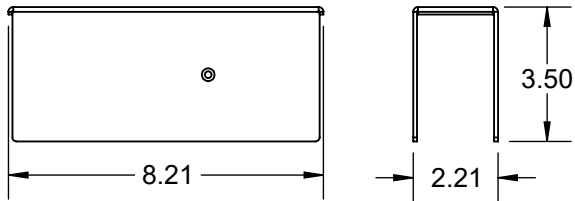
LEVEL LINE CAP



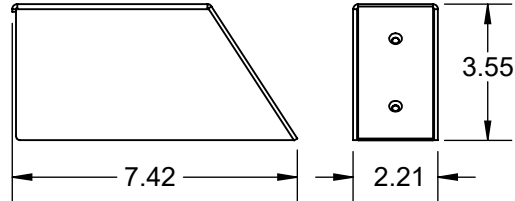
LEVEL END CAP



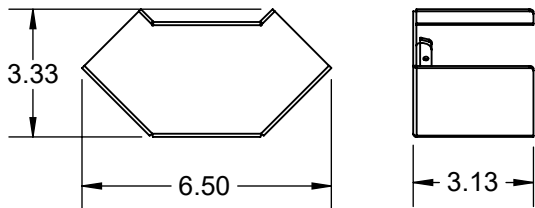
STAIR LINE CAP



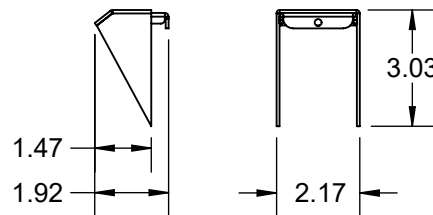
STAIR END CAP



CORNER CAP

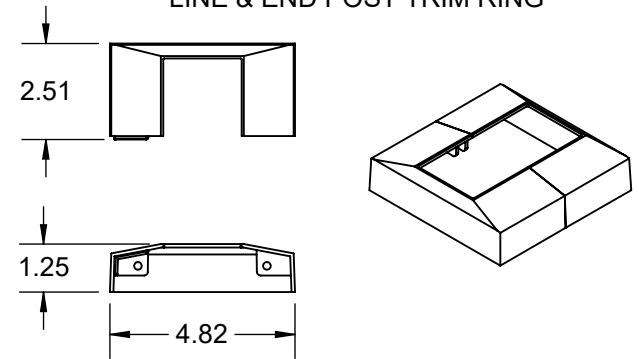


STAIR ADAPTER

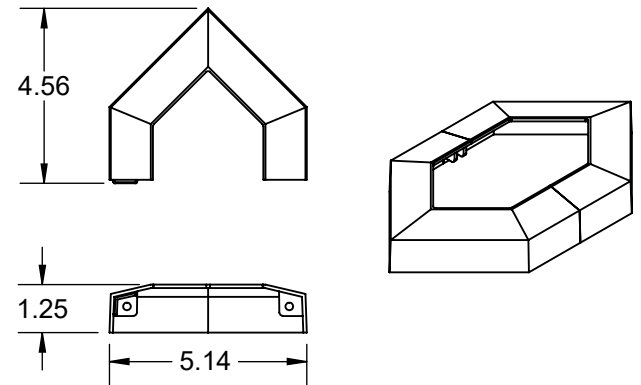


## POST TRIMS

LINE & END POST TRIM RING



CORNER POST TRIM RING





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<b>Barrette</b> OUTDOOR LIVING		
DRAWN: CH	DATE: 05/11/2022	APPROVED:
DESCRIPTION: <b>BRACKETS &amp; ACCESSORIES</b>		
SHEET 6 OF 7	REVISION	PART NUMBER
SCALE 1:5	0	N/A
WEIGHT: N/A		

## MOUNTING SCHEDULE

FOR RESIDENTIAL APPLICATIONS 36" HIGH					
PANEL WIDTH	LOAD	RECOMMENDED BOLT APPLICATION	FOR LAG BOLT APPLICATION 3/8" DIA. SCREW. MINIMUM EMBEDDED SCREW THREAD LENGTH REQUIRED	FOR THROUGH BOLT APPLICATION	FOR CONCRETE ANCHOR APPLICATION 3/8" TITAN HD ANCHOR MINIMUM REQUIRED LENGTH (MINIMUM DISTANCE OF 4" FROM EDGE REQUIRED)
6FT	200LBS	LAG BOLT -OR- THROUGH BOLT -OR- CONCRETE ANCHOR	3IN	3/8" HEX BOLT 3/8" FLAT WASHER 3/8" LOCK WASHER 3/8" NUT	3IN
4FT			2.5IN		3IN

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DRAWN: CH	DATE: 05/11/2022	APPROVED:
DESCRIPTION: <b>MOUNTING SCHEDULE</b>		
SHEET 7 OF 7	REVISION	PART NUMBER
SCALE 1:1		<b>N/A</b>
WEIGHT: N/A		