

DISC VILLAGE, INC.

SL-1500 ROOF SYSTEM

FL # 11359

The product as described has demonstrated compliance with the
Florida Building Code 2023 8th ed, Sections 1504.3.2, 1507.4.3, 1507,
ASCE 7-22 COMPIANT

Over Min. 15/32" 4-Ply CDX Plywood or 16GA Steel OPEN FRAMING

Florida Product Approval #

Florida Building Code 2023

Per Rule 61G20-3

Category: Structural Components

Subcategory: ROOF DECK

Compliance Method: 61G20-3

Product Manufacturer:

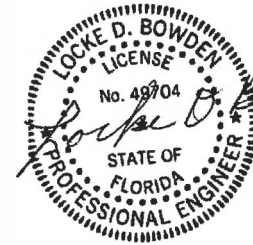
DISC VILLAGE, Inc.

2967 Natural Bridge Rd

Tallahassee, FL 32305

Engineer Evaluator:

Locke Bowden, P.E. # 49704
9450 Alysbery place
Montgomery, AL. 36117



3/29/24

Validator:

Steven M Urich, P.E. # 57795
6154 Newgate Circle
Mechanicsburg, PA. 17050

NON_HVHZ

-50.1psf @ 1.0'o.c. clip spacing Zone 2 and 3
3.0' o.c. clip spacing Zone 1
Wind Zone 120

Certificate of Independence:

Locke Bowden, P.E. does not have, nor will acquire a financial interest in any company manufacturing or distributing products under this evaluation.

Locke Bowden, P.E. is not owned, operated, or controlled by any company, manufacturer or distributing products under report.

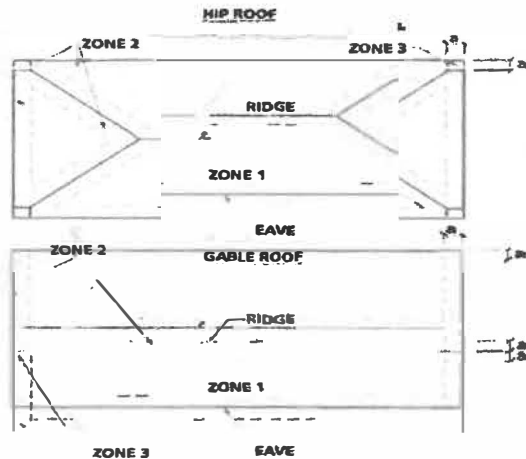
FL # 11359

SL-1500

24GA STEEL SNAP LOCK

16" WIDTH

Compliance Statement:	The product as described in this report has demonstrated compliance with the Florida Building Code 2023, 8th ed. Sections 1504.3.2, 1507.4.3
Product Description:	SNAP LOCK 24GA Steel Roofing Panel GRADE 50 - 50 KSI
Panel Material/Standards:	24GA STEEL To be in compliance with FBC 2023, 8th ed. Section 1507.4.3
Panel Dimension(s):	Corrosion Resistant. Paint Finish (with approved paint) Optional
Fastener:	16" Coverage Width Maximum application up to 120 wind zone, exp B. #12 x 1-1/2" pancake head fastener through 24GA 3" LONG steel clip spaced 1.0 ft. zone 2 and 3 or 3.0 ft. zone 1. Fastener goes through 15/32" CDX plywood or 16 GA steel purlins. SNAP LOCK w/clips forming 90 degree. Must be corrosion resistant. Option 1" hem at bottom of panel over the eave metal.
30# Asphalt saturated organic felt paper underlayment	A single layer was used with a 4" overlap between adjacent sheets,.
Approved Fire Barrier:	A single layer was used w/ 4" overlap between adjacent sheets, where required.
Substrate Description:	15/32" 4-Ply CDX Plywood Sheathing Attachment – use 8d coated ring shank nails spaced 4" o.c. over roof supports max. 24" spacing.
Design Uplift Pressures:	+50.1 /-50.1PSF @ 1.0'O.C. CLIP SPACING FOR ZONE 2 AND 3 & 3-0' O.C. CLIP SPACING FOR ZONE 1



FL # 11359

Code Compliance:

Product Report Scope:

Performance Standards:

Reference Data:

Test Standard Equivalence:

Quality Assurance Entity:

Minimum Slope Range:

Installation:

Underlayment:

Roof Panel Fire Classification:

Shear Diaphragm:

Design Procedure:

The product herein has demonstrated compliance with the Florida Building Code 2023, 8th ed., Sections 1504.3.2 The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2023, 8th ed. as relates to Rule 61G20-3. The product described herein has demonstrated compliance with:

TEST REFERENCES ASTM E1592-05 Test Report 28195-1

Testing: Test Lab: CERNY AND IVEY ENGINEERS, INC

Dated: 10/11/08 ASTM E1592-05 IS EQUIVALENT TO ASTM E1592-17

The manufacturer has established compliance of roof panel products in accordance with the Florida Building Code and Rule 61G20-3 for manufacturing under a quality assurance program audited by an approved quality assurance entity.

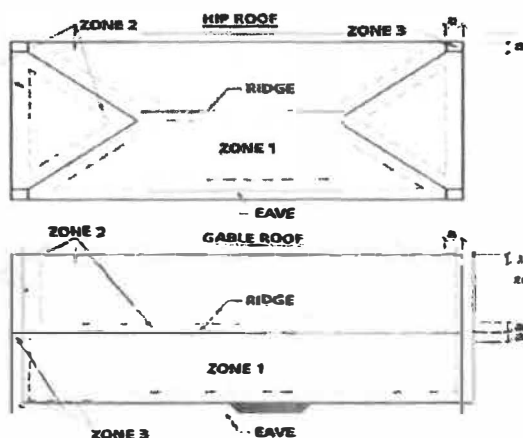
Minimum Slope shall comply with Florida Building Code 2023 8th ed., including Section 1515.2 and in accordance with manufacturer's recommendations. Install per manufacturer's recommended details.

NON-HVHZ MIN. SLOPE 2/12

Shall comply with Florida Building Code 2023 8th ed., Section 1507, Table 1507.

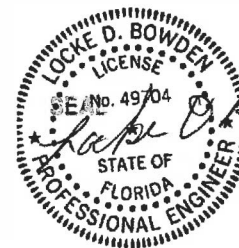
Any approved fire barrier having a current FLPA or NOA. Fire classification is not part of this acceptance.

Shear Diaphragm values are outside the scope of this report. For roofs within the parameters listed, fastening pattern must at a minimum meet those listed for the applicable wind zone. For all roofs outside the parameters listed, design wind loads shall be determined for each project in accordance with FBC 2023 8th ed., Section 1609 or ASCE 7-22 using allowable stress design. The maximum fastener spacing listed herein shall not be exceeded.



Note: Dimension [a] is defined as 10% of the minimum width of the building or as 40% of the mean height of the roof, whichever is smaller.

NOTE: [a] cannot be less than either 4% of the minimum width of the building or three [3] feet.



Locke Bowden P.E. # 49704

DISC VILLAGE

SL-1500 ROOF SYSTEM INSTALLATION MANUAL

Overview

These instructions provide a detailed procedure for the installation of the SL-1500 standing seam roof system used by Disc Village.

Panel:

SL-1500 panels used by Disc Village are 16" wide roll-formed, 24 Ga., 50 KSI Galvalume.

Structural:

The SL-1500 roof system is applied to a structural frame designed to withstand a 120 MPH wind load. Structural calculations are signed and sealed by a structural engineer.

Fastening:

METHOD ONE:

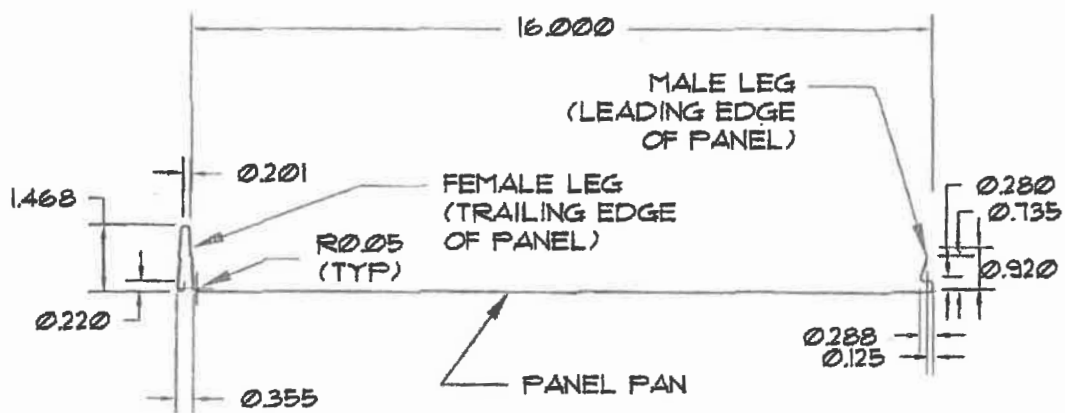
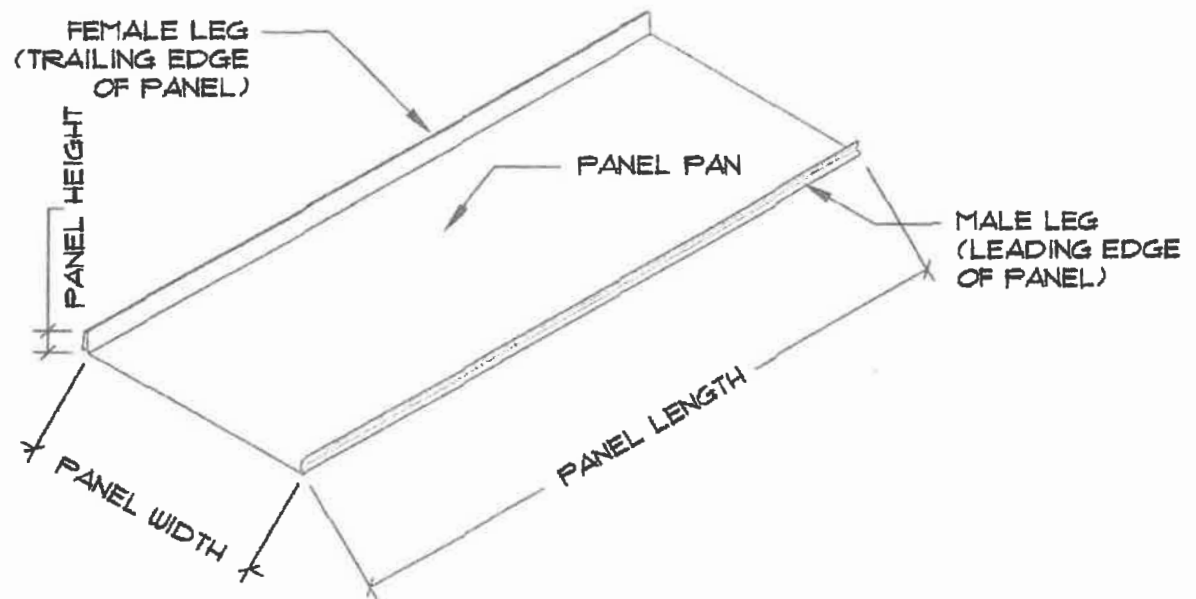
The roof system is attached to the 16GA structural frame with concealed clips and tek screws.

METHOD TWO:

The roof system is attached to plywood decking with a minimum thickness of 15"-32,".

DRAWINGS PROVIDED BY BARKLEY
CONSULTING ENGINEERS

William M. Hall
9-30-8

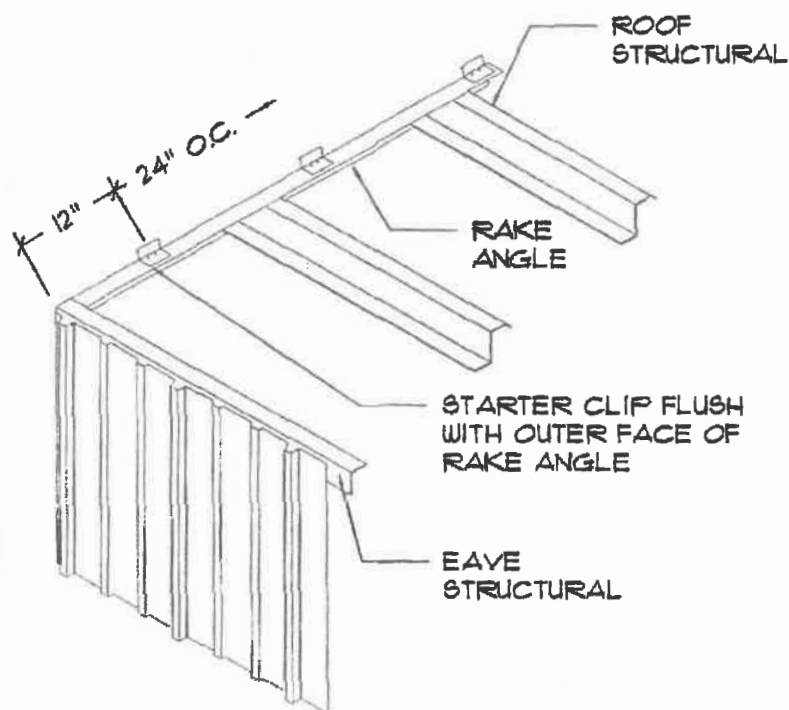


PANEL SECTION

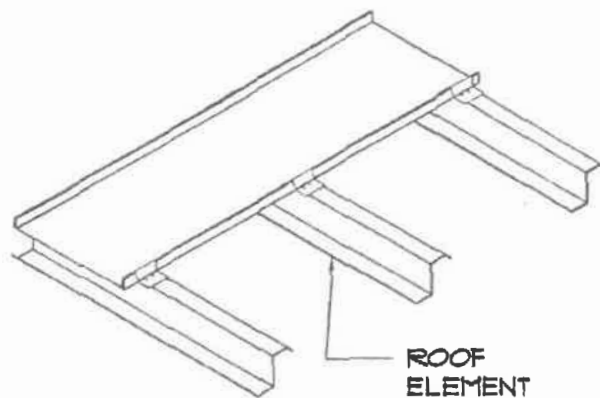
SL-1500 PANEL

SL-1500

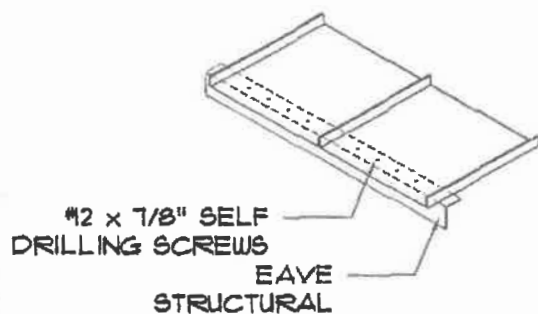
METHOD ONE:



Starter clips, spaced as shown above, are attached to the rake angle with (2) #12 pan-head teks, must be corrosion resistant.



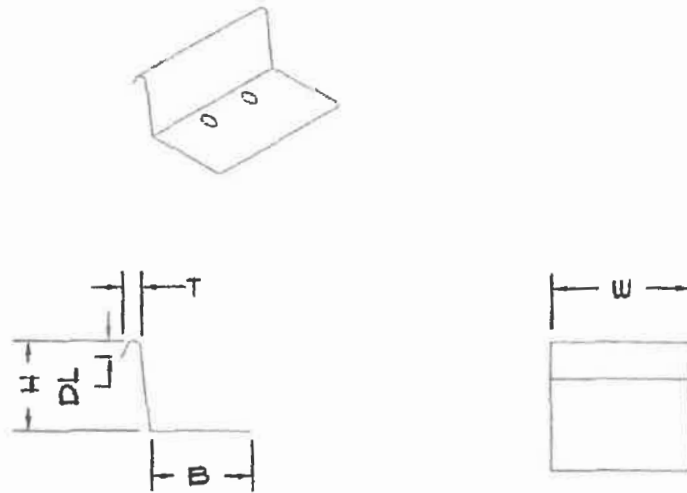
Clips are installed against the male leg of the panel at each structural element and are fastened to the purlins with (2) #12 pan-head self drilling screws.



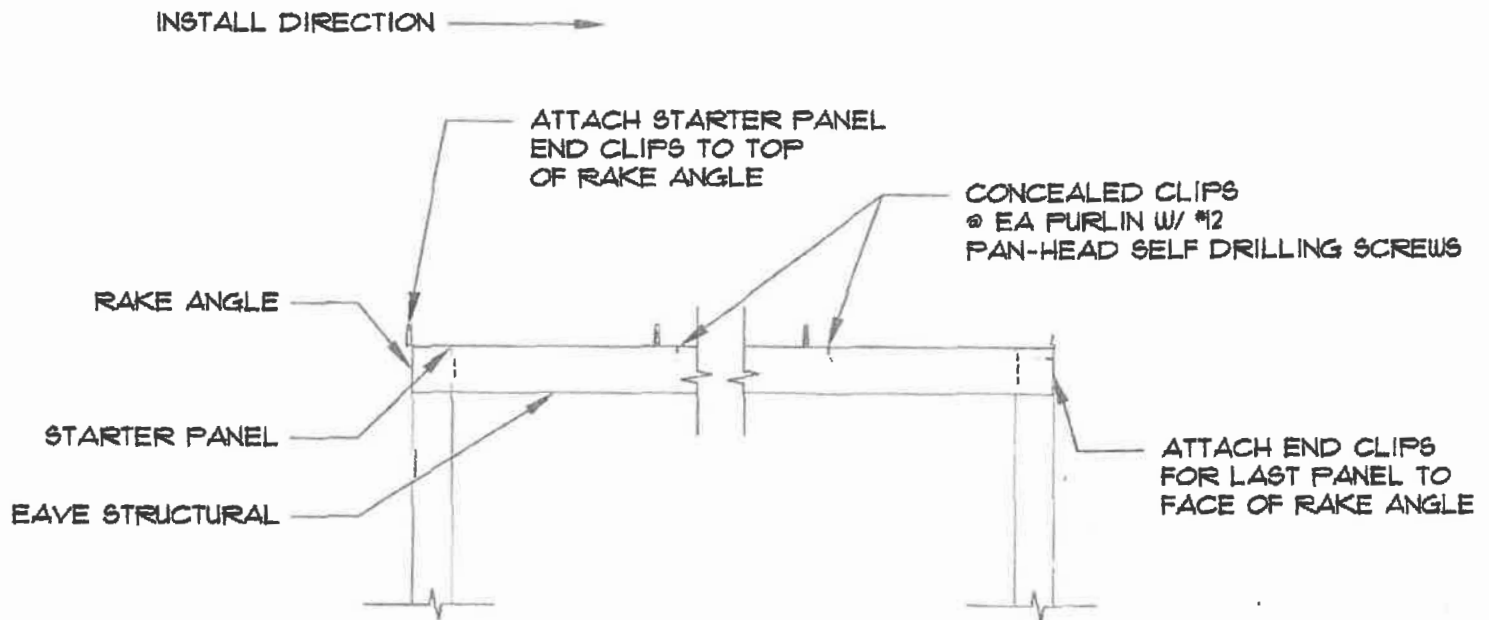
Panels are fastened to the eave structural with no less than (4) self drilling screws per panel.

Option 1" hem at bottom of panel over the eave metal, as stated on evaluation report.

$H = 1"$
 $W = 3"$
 $DL = \frac{1}{4}"$
 $T = \frac{1}{4}"$
 $B = 1 \frac{3}{4}"$



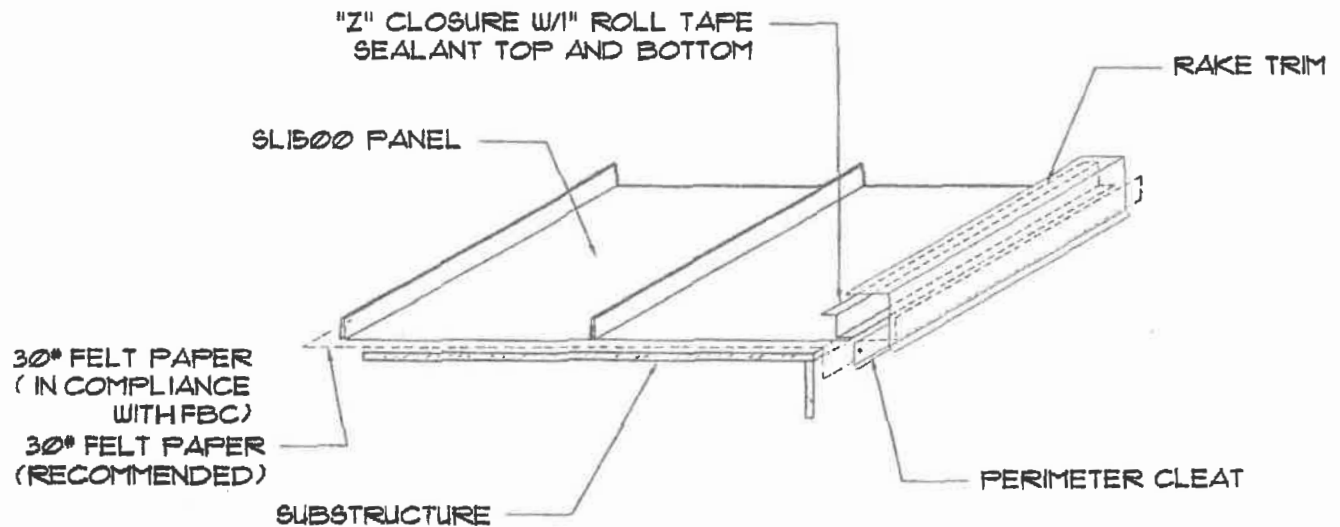
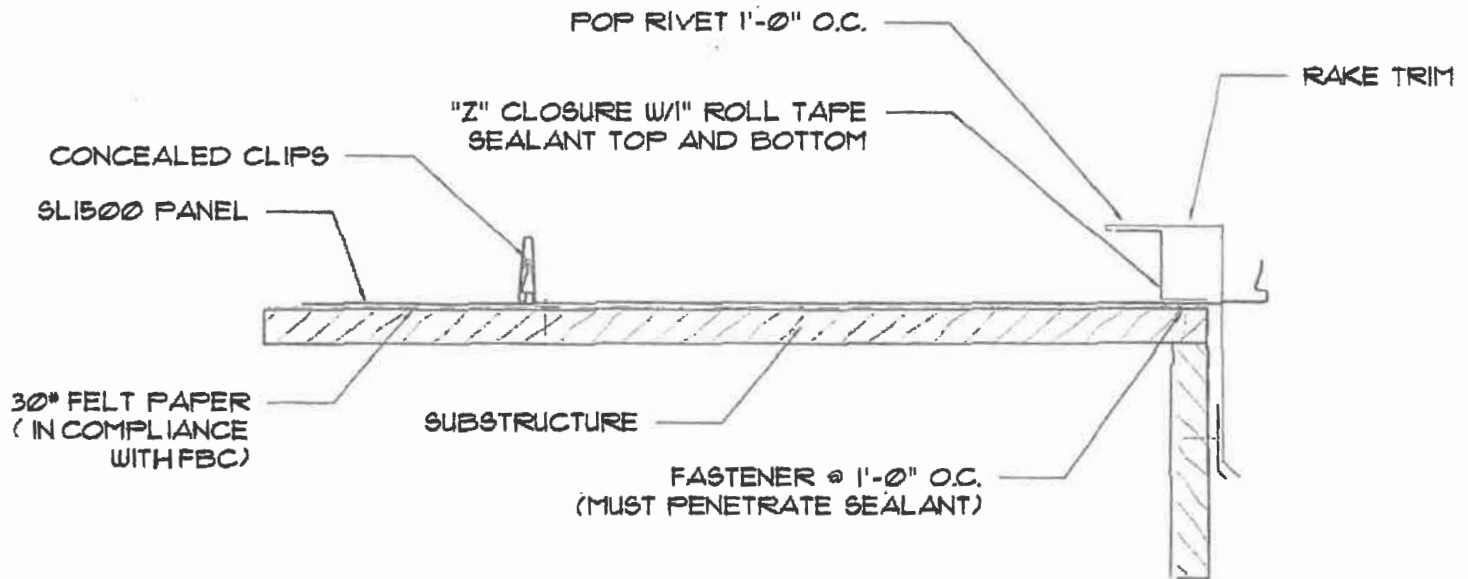
CONCEALED CLIP



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METHOD TWO:

RAKE - TERMINATING OFF MODULE W/O WALL PANELS

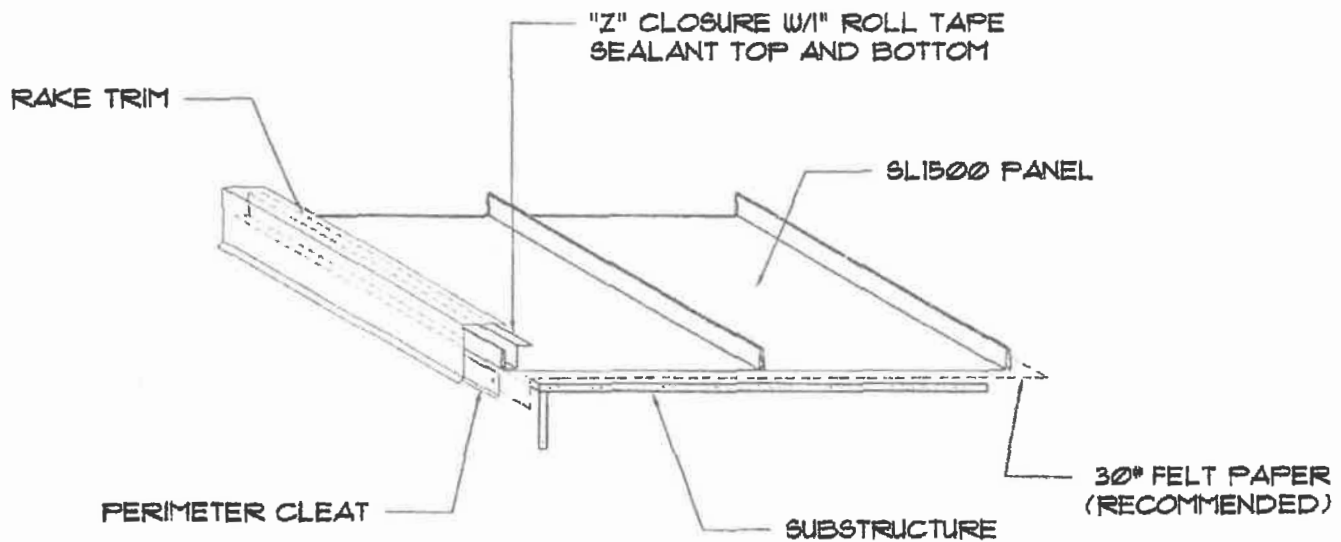
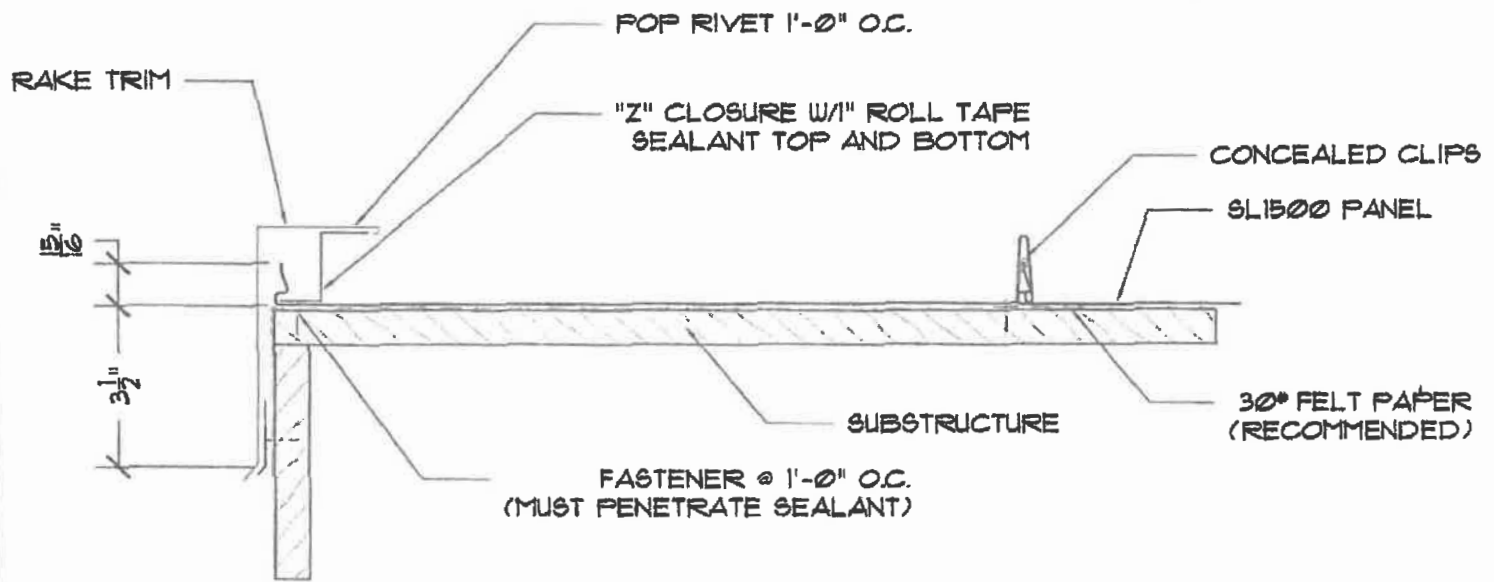


NOTES:

1. FIELD CUT PANEL AS REQUIRED.
2. APPLY A CONTINUOUS RUN OF 1" ROLL TAPE SEALANT UNDER "Z" CLOSURE BEFORE FASTENING.
3. ATTACH "Z" CLOSURE WITH FASTENERS ON 1'-0" CENTERS.
4. APPLY A CONTINUOUS RUN OF 1" ROLL TAPE SEALANT OVER "Z" CLOSURE BEFORE FASTENING RAKE TRIM.
5. FASTEN PERIMETER CLEAT AS SHOWN. FOLLOW ROOF SLOPE, AND THEN ATTACH RAKE TRIM.

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RAKE - STARTING ON MODULE W/O WALL PANEL

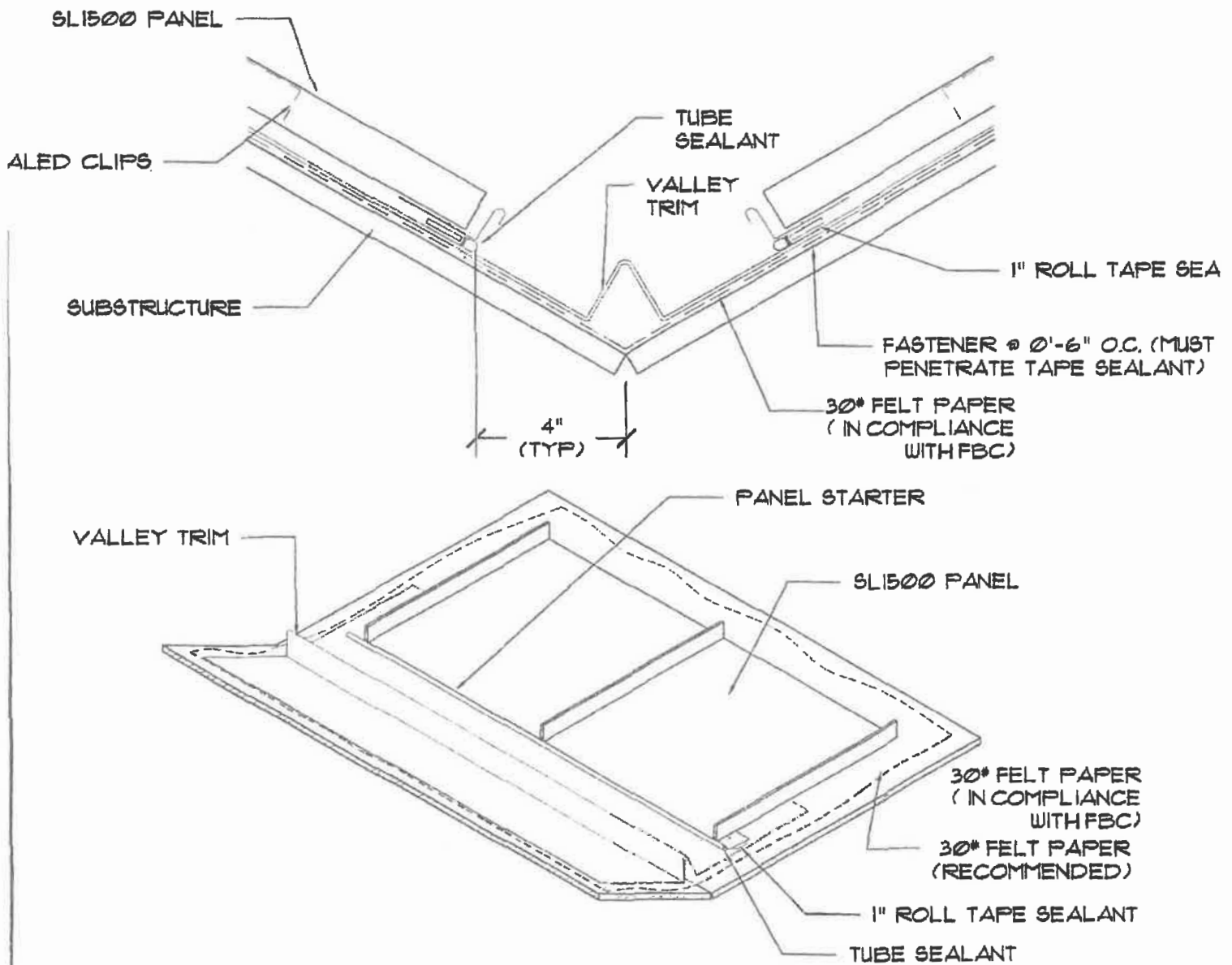


NOTES:

1. START A PANEL ON THE WOOD OR STEEL LINE AS SHOWN.
2. APPLY A CONTINUOUS RUN OF 1" ROLL TAPE SEALANT UNDER "Z" CLOSURE BEFORE FASTENING.
3. ATTACH "Z" CLOSURE WITH FASTENERS ON 1'-0" CENTERS.
4. APPLY A CONTINUOUS RUN OF 1" ROLL TAPE SEALANT OVER "Z" CLOSURE BEFORE FASTENING RAKE TRIM.
5. FASTEN PERIMETER CLEAT PER DIMENSION SHOWN. FOLLOW ROOF SLOPE, AND THEN ATTACH RAKE TRIM.

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VALLEY

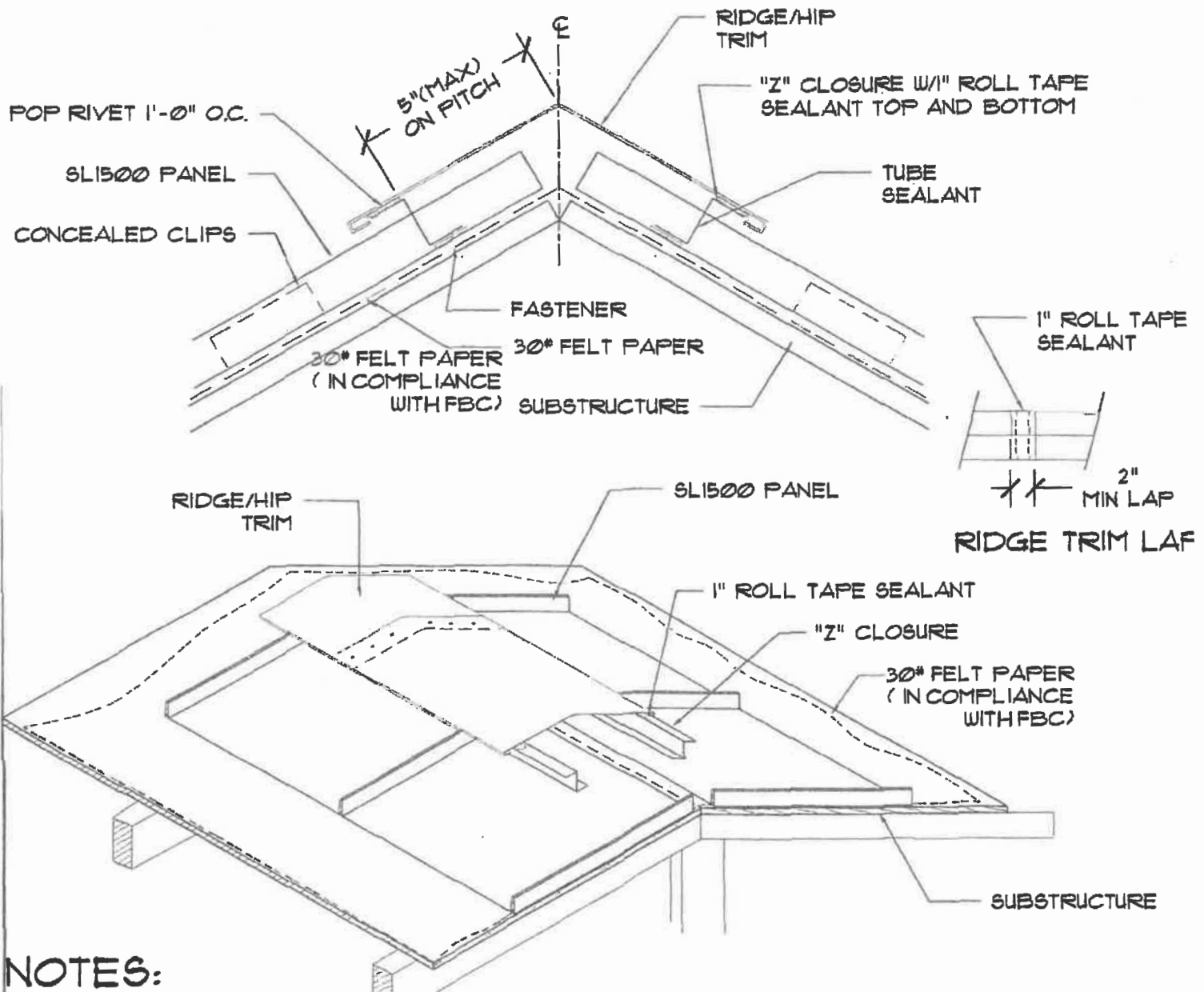


NOTES:

1. LOCATE VALLEY TRIM OVER SUBSTRUCTURE.
2. APPLY A CONTINUOUS RUN OF 1" ROLL TAPE SEALANT OVER VALLEY TRIM AND UNDER PANEL STARTER.
3. LOCATE PANEL STARTER TRIM APROX. 4" FROM CENTER OF VALLEY TRIM AND FASTEN THROUGH STARTER TRIM, SEALANT, VALLEY TRIM AND INTO SUBSTRUCTURE.
4. LOCATE A CLIP 6" FROM STARTER TRIM.
5. FIELD NOTCH $\frac{1}{2}$ " OFF LEG OF PANEL AND FIT INTO STARTER TRIM.
6. PLACE A CONTINUOUS RUN OF TUBE SEALANT TO PANEL STARTER.

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RIDGE / HIP



NOTES:

1. INSTALL PANELS W/ CLIP APROX 1'-0" DOWNHILL ON EA SIDE OF RIDGE OR HIP
2. APPLY A CONTINUOUS RUN OF 1" ROLL TAPE SEALANT BETWEEN THE PANEL LEGS ABOUT 5" MAX DOWN FROM CENTERLINE OF RIDGE.
3. FIELD CUT & ATTACH "Z" CLOSURE W/ (2) FASTENERS THROUGH CLOSURE, SEALANT, PANEL AND INTO SUBSTRUCTURE.
4. APPLY TUBE SEALANT TO "Z" CLOSURE AND HIGH RIBS.
5. APPLY A CONTINUOUS RUN OF 1" ROLL TAPE SEALANT.
6. ATTACH RIDGE/HIP TRIM TO "Z" CLOSURE W/ POP RIVET @ 6" O.C.
7. LAP RIDGE/HIP TRIM W/ 1" ROLL TAPE SEALANT AND POP RIVETS AS SHOWN. LAP AWAY FROM THE PREVAILING WIND DIRECTION. ATTACH W/ POP RIVETS 4" O.C. MAX..