



MECHANICAL SEAM (10FT)

Technical drawing of an extruded aluminum profile. The profile is 1/2" wide and 1 1/2" high. The drawing shows the profile's cross-section with various dimensions:

- Top flange width: 1/2"
- Top flange height: 3/8"
- Vertical distance from top flange to first step: 1 5/8"
- Horizontal distance from first step to second step: 1 1/4"
- Horizontal distance between the two central steps: 15/16"
- Horizontal distance between the two central steps: 11/16"
- Horizontal distance from the second step to the end: 1 1/4"
- End flange height: 3/8"
- End flange width: 1 1/2"
- Horizontal distance from the first step to the end: 12" to 24"
- Horizontal distance from the second step to the end: 1/8"

Technical drawing of a mechanical part with the following dimensions:

- Top left corner: $7/8"$ (width) and $3/8"$ (height).
- Left side: $2\ 1/8"$ (height).
- Bottom left corner: $1\ 1/4"$ (width).
- Bottom center: $12"$ to $20"$ (length).
- Bottom right corner: $1\ 1/4"$ (width).
- Right side: $2"$ (height).
- Top right corner: $1/4"$ (width) and $5/8"$ (height).
- Internal features: $15/16"$ and $11/16"$ (widths) and $1/8"$ (width).

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General Information

Guide Information

This installation guide is a reference tool for the installation of Mechanical Seam systems. The installation details provided may not apply to all building codes, designs, or production applications. It is the responsibility of the installer to confirm the installation details meet their local code requirements.

Vantage Metal Works, Inc. reserves the right to change any information in this guide without notice. If you have any questions or concerns, please contact your Vantage Metal Works representative or the main office:

Vantage Metal Works, Inc.
www.VantageMetal.com
1350 SE Shelton Street
Dallas, OR 97338
503-751-1990

Claims

It is the responsibility of the customer to review the condition and quantity of an order upon delivery or pickup. Claims for the shortages or damages must be filed immediately for pickup orders, or within 7 days after the order has been delivered. **Vantage Metal Works, Inc.** is not responsible for any claims filed after these time frames.

Returns

Vantage Metal Works, Inc., does not accept returns of any custom-ordered materials, special ordered accessories, or fabricated metal products. Only stock accessories may be returned upon Vantage Metal Works, Inc.'s discretion.

Pre-Installation Prep

Storage

If the materials cannot be installed right away, please store materials as follows. Store metal materials in a covered, dry, well-ventilated area ensuring moisture and direct sunlight are kept away. If stored outside, elevate one end of the bundle to let any accumulated moisture run off. Then wrap a tarp loosely around the material bundles to let air circulate freely to avoid moisture build-up. Never store material in direct contact with the ground. Additionally, if any trim packages have a protective film, it must be removed within 90 days.

Handling

Handle all panels and trim with care. Use gloves as panel and trim edges are assumed to be sharp. Do not drag panels across each other as this can cause scratches. When moving loose panels, carry them vertically by the edge ensuring no excessive bending occurs. Trim bundles may be heavy and/or awkward. Separate trim bundles if necessary.

Foot traffic

Care of metal panels and trims must be exercised throughout the installation. Foot Traffic on the panels can cause distortions and damage to the finish and therefore should be kept to a minimum. When walking on panel is unavoidable, walk in the flats only. Walking on any ribs, striations, or seams will damage the panel. Installers are recommended to wear soft-sole shoes to prevent scratching.

Installation Safety

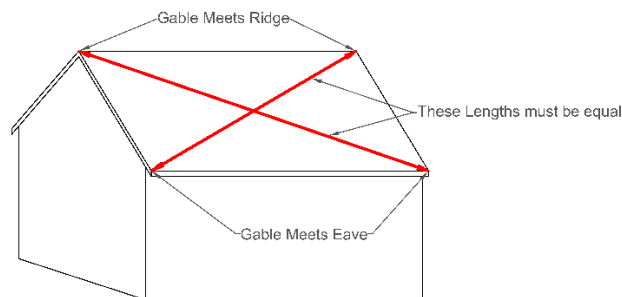
Safety should be a major concern in any installation. Personal Protective Equipment and Fall Protection should be always used. Always be aware of your surroundings and your coworkers. Assume all metal edges are sharp and use gloves. Never install metal roofing during stormy days. Metal materials are good conductors of electricity, i.e. lightning and electrical wiring. Wind may lift unsecured panels with the possibility of pushing installers off the roof or becoming a sharp projectile. Metal parts and panels can be slippery in wet or dusty conditions. Installers are recommended to wear soft-sole shoes to increase traction.

Field Cutting Panels

Tin Snips or nibblers are recommended for cutting metal panels and trim. All cut metal shavings should be removed immediately to prevent damage to the finish. Never cut panels on top of existing panels. When using a circular saw to cut metal panels, always cut from the underside of the panel to keep metal shavings from marring the paint. Always wear gloves, eye and hearing protection! Debris should be removed periodically to avoid unsightly rust stains. Failure to remove the metal particles from the panel will void any warranty!

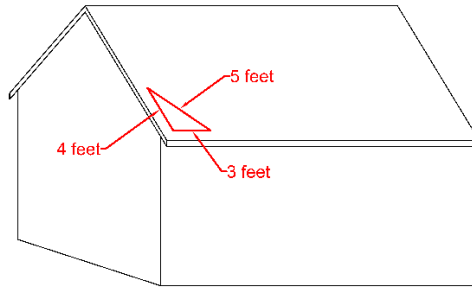
Roof Preparation

The roof must be plumb and square for best installation. Two methods can be used to determine if the roof is square. If the roof is small, measure the two diagonals where the gable meets the roof and the gable meets the eave. If these two diagonals are equal, the roof is square.



Small Roof Diagonal Method

If the roof is larger, use the 3-4-5 method. Measure and mark 3 feet parallel to the eave, i.e. horizontally. At your mark closest to the gable, measure and mark 4 ft parallel to the gable, i.e. vertically. The measurement from the top point to the diagonally bottom point **MUST** be 5 ft to ensure squareness. See figures below.



Large Roof 3-4-5 Method

In prepping for an existing roof, it is recommended that the existing roofing material should be removed down to the roof deck. This includes, but is not limited to removal of moss and debris, hip caps, ridge caps, penetration flashing, etc. Stripping the roof is key to finding any defects that need repair or replacement. Next, determine if there are any warped, waves, or buckles in the deck. This may result in replacement of wood sheathing. These issues must be corrected before installation. Also, the removal of any materials (i.e. nails, screws, staples, etc.) down to the wood sheathing to ensure the correct installation of waterproofing. Checking for squareness on an existing roof is the same procedure mentioned above. Any out of square conditions up to 3 inches can be covered by the gable trim.

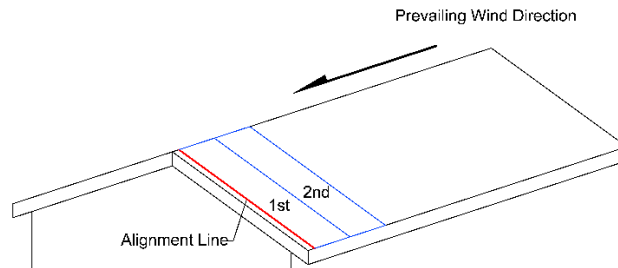
After squareness has been achieved, all necessary penetrations must be cut prior to metal roof installation. This includes, but is not limited to ridge vents, plumbing vents, and electrical conduits. If the installation includes ridge venting, make sure that there is a 2-inch gap from the roof ridge. Check for protruding nails and other objects that may puncture the underlayment and roofing panels. Clean all foreign materials from the roof.

Place a high-temperature ice & water membrane underlayment in areas where snow, ice, rain, and water can accumulate, such as valleys and eaves. Cover the rest of the roof deck with an approved moisture barrier such as 30lb felt or synthetic underlayment. Please note that roofs under a 3:12 pitch require a high temp ice and water shield on the entire roof deck. Beginning at the eave, unroll the underlayment horizontally. Overlap the next strip by minimum 3 inches. If the installation includes ridge venting, make sure that the approved moisture barrier is installed to edge of the vented roof deck.

Panel Installation

Determine which trim pieces are in the installation, paying close attention to Valleys, Eaves, and Transitions. These trim pieces need to be installed prior to panel installation. Reference for purchased trim pieces with trim details found in this document.

It is always recommended to install your panels into the prevailing wind as seen below.

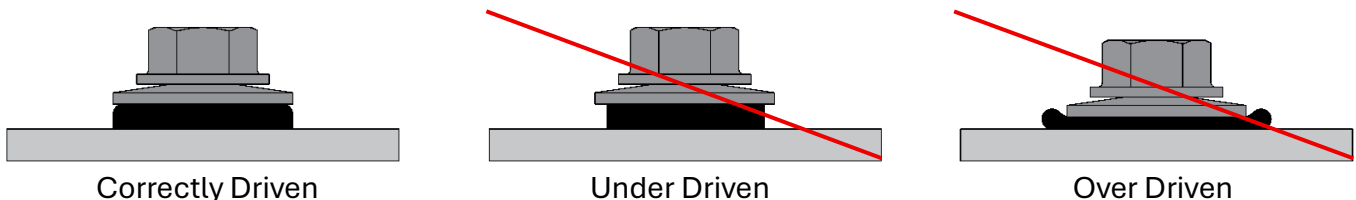


Scribe an alignment line square along the gable edge. This alignment line can be up to 3 inches off the gable edge if the roof is not completely square. This spacing can be adjusted with gable trim pieces. Place the first panel on the alignment line with 1 to 2 inch overhanging the eave. Fasten the panel by the fastener's placement and spacing guide on page 7. Install fasteners starting at the eave edges and work towards the ridge. After laying down the next panel, check for the alignment for squareness. If panels misalign, stretch or shrink the panel by pulling the top or bottom of the panel to make up the distance. If the distance is more than ¼ inch, this distance should be made up over multiple panels. After all panels are installed, the rest of the trim pieces and flashing can be installed. All trim pieces and flashing should overlap by a minimum of 2 inches. Refer to correlated trim details for installation.

Fastener Installation

Panel Attachment screws must be long enough to fully penetrate through the wood roof decking, steel purlins, or penetrate solid lumber by at least 1 inch. All screws must be coated to provide protection against corrosion. **SELF-SEALING FASTENERS** must have sealing washers and should be the same color as the parts they attach. **SELF-SEALING FASTENERS** must be properly driven to ensure proper seal and holding strength. Do not underdrive or overdrive the **SELF-SEALING FASTENERS**.

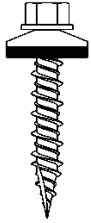
Proper Installation of **SELF SEALING FASTENERS**



Fastener Selection Guide

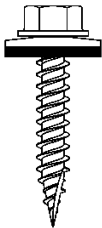
Self Sealing Fastener

Woodfast Screw



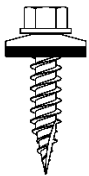
- NO. 10 x A, Type 17
- Available sizes: 1", 1 ½", 2"
 - Additional sized available upon request
- ¼" Hex Head
- Use: Panel to dimensional lumber and trim attachment

Plywood Screw



- No. 14 x A, Type 17
- Available sizes: 1", 1 ½"
 - Additional sized available upon request
- 5/16" Hex Head
- Use: Panel to plywood/OSB substrate and trim attachment

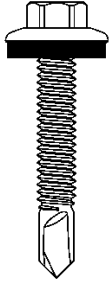
Stitch Screw



- No. 12 x A
- Available size: ¾"
- ¼" Hex Head
- Use: Trim attachment and stitching lap seams together (29 gauge).

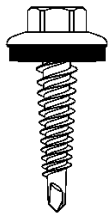
Compatible with No. 10 and No. 14 wood screws

Tek Screw



- No. 12 x A
- Available sizes: 1 ¼"
 - Additional sized available upon request
- 5/16" Hex Head
- Use: Panel to Purlin (up to 3/16" steel)

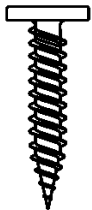
Lap Tek Screw



- No. 14 x A
- Available size: 7/8"
- 5/16" Hex Head
- Use: Trim attachment and stitching Lap Seams together

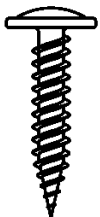
Hidden Fasteners

Pancake Screw



- No. 10 x A
- Available sizes: 1" and 1 ½"
 - 2" available by special order
- Philips head
- Use: To fasten standing seam panels and trims into wood deck (unexposed).

Modified Truss Screw



- No. 8 x A
- Available sizes: 1" and 1 ½"
 - 2" available by special order
- Philips head
- Use: To fasten standing seam panels and trims into wood deck (unexposed).

Panel Information

Panel Installation

Panels should be installed in the opposite direction of the prevailing wind. Panel to Panel installation should use Pancake or Modified Truss screws. Refer to Trim Details for correct fastener usage.

Panel Details

Panel Installation: Can be installed on solid wood decking, open frame steel purlins, steel decking, or steel decking with polyiso board.

Minimum Slope: 3:12¹

Ratings: Fire Resistance: UL263, 790 Fire Tests (Class A)

Uplift Resistance: UL 580 Wind Uplift

Impact Resistance UL 2218 Impact Resistance

Available Gauges: 24 and 26

Finishes and Substrates: 26ga uses SMP Paint with Limited 40 year paint warranty

24ga uses PVDF Paint with Limited 40 year paint warranty

Corrosion Protection on Substrate:

AZ-50 (ASTM A792) for painted Galvalume®

AZ-55 (ASTM A792) for unpainted, acrylic coated Galvalume®

G-60 (ASTM A653) for painted Galvanized

G-90 (ASTMA653) for unpainted, acrylic coated Galvanized

¹ For slopes lower than 3:12 require additional waterproofing. Please inquire with your Vantage Metal sales person.

Panel and Trim Index

Roof and Siding Panels

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2" PANEL	PAGE 15

Roof Trims

Eave Trims

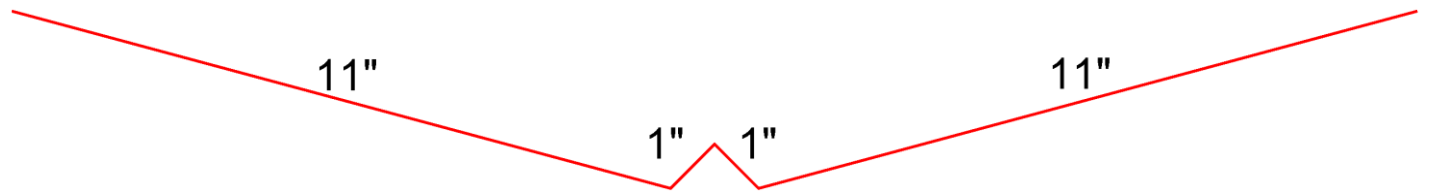
STANDARD EAVE	PAGE 19	RETURN EAVE	PAGE 21

W-Valley Trims

20" W-VALLEY TRIM	PAGE 23

24" W-VALLEY TRIM

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Sidewall Trims

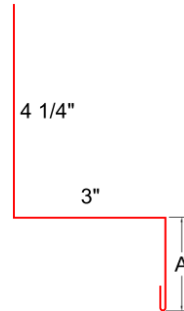
STANDARD SIDEWALL

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3" COMPENSATING SIDEWALL

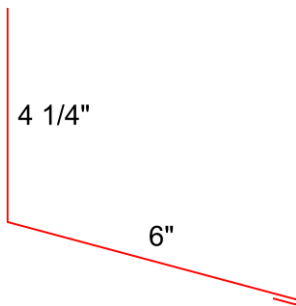
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Endwall Trims

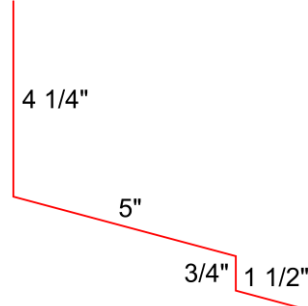
STANDARD ENDWALL

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VENTED ENDWALL

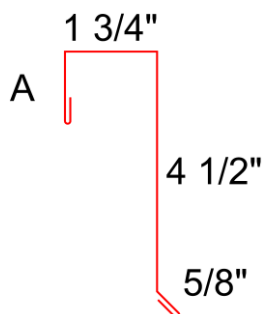
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Gable Trims

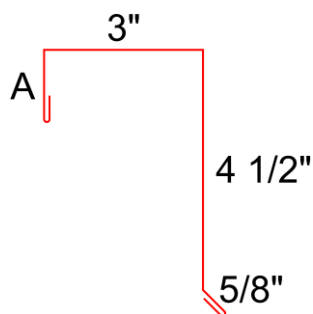
STANDARD GABLE

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3" COMPENSATING GABLE

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Ridge Caps

STANDARD RIDGE CAP	PAGE 39
FULL VENTED RIDGE CAP	PAGE 41

Clerestory Trim

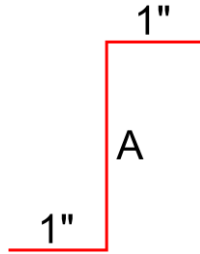
STANDARD CLERESTORY TRIM	PAGE 43	VENTED CLERESTORY TRIM	PAGE 45

Roof Accessory Trim

TOP PAN TRIM	PAGE 47	REGLET TRIM	PAGE 48

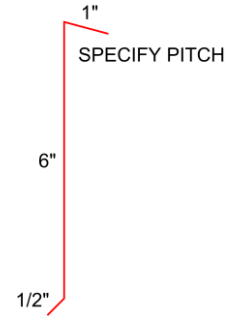
ZEE CLOSURE

PAGE 29, 43, AND 45



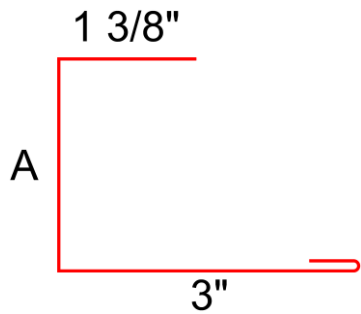
CLERESTORY CLEAT

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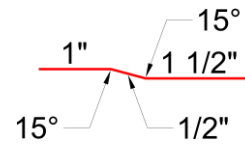
SUPPORT FLASHING

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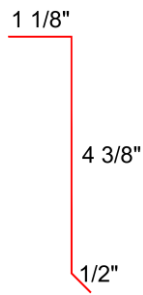
OFFSET CLEAT

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GABLE SUPPORT CLEAT

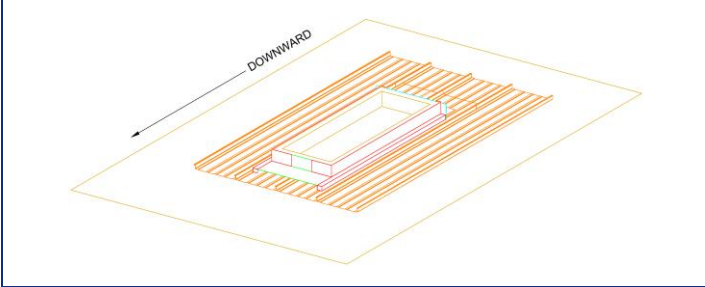
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Chimney and Skylight

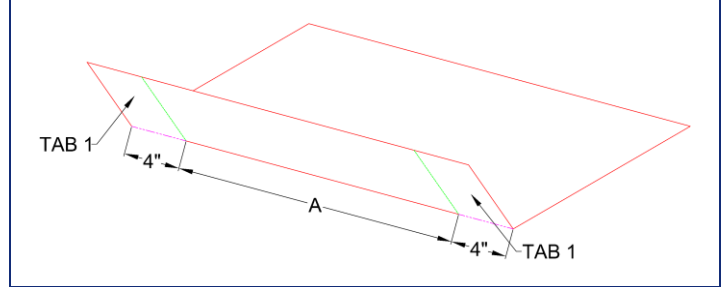
OVERVIEW

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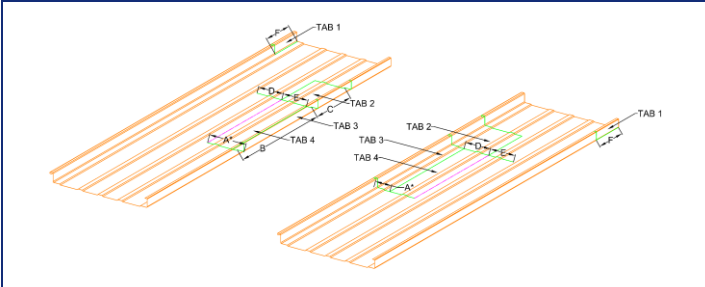
TOP PAN TRIM

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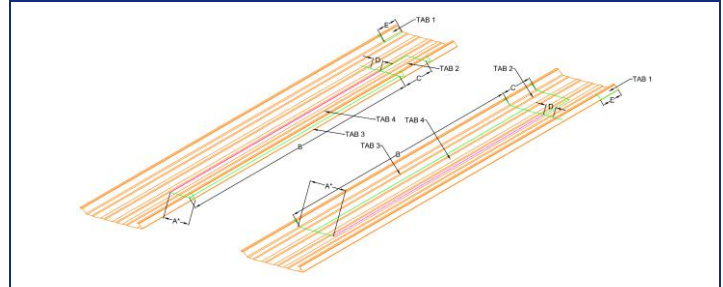
LOWER ROOF PANELS - CHIMNEY

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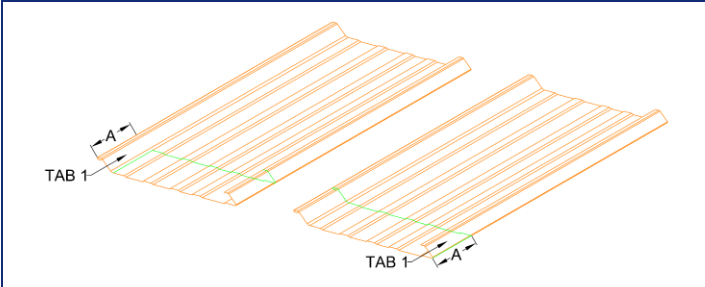
LOWER ROOF PANELS - SKYLIGHT

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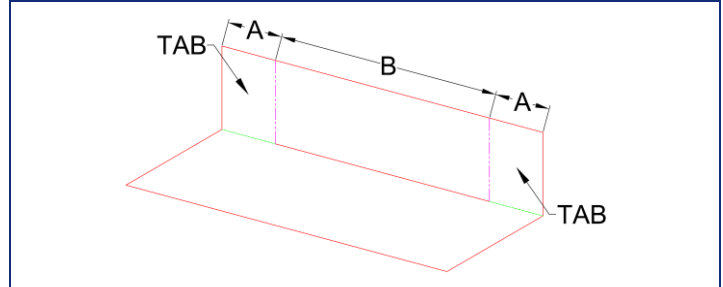
UPPER ROOF PANELS

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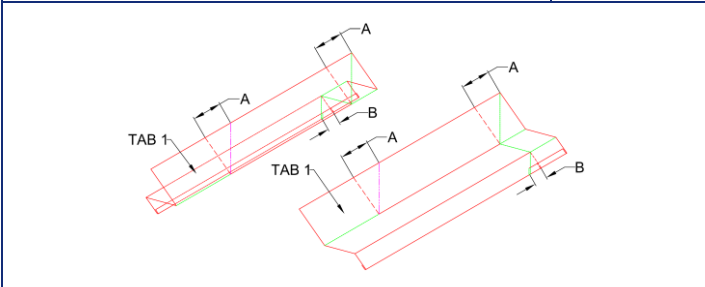
ENDWALL TRIM

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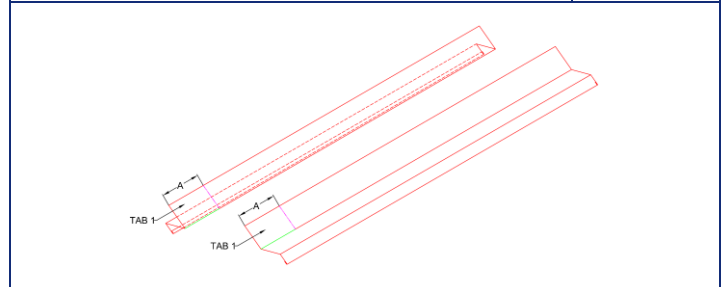
SIDEWALL TRIM - CHIMNEY

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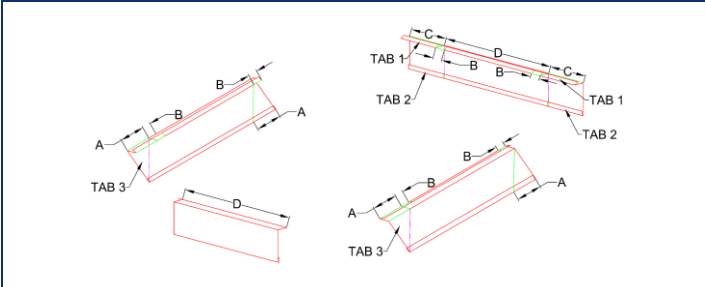
SIDEWALL TRIM - SKYLIGHT

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REGLET TRIM

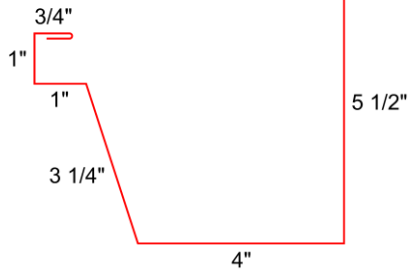
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Siding Accessory Trims

BOX GUTTER TRIM

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GUTTER HANGER TRIM

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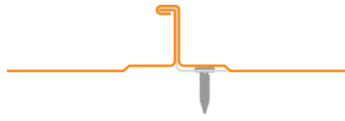
VANTAGE METAL
WORKS, INC.

MECHANICAL SEAM

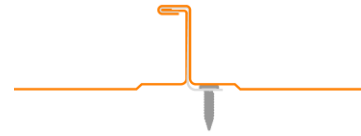
ROOF PANELS TERMINATION

PANEL INSTALLATION DIRECTION →

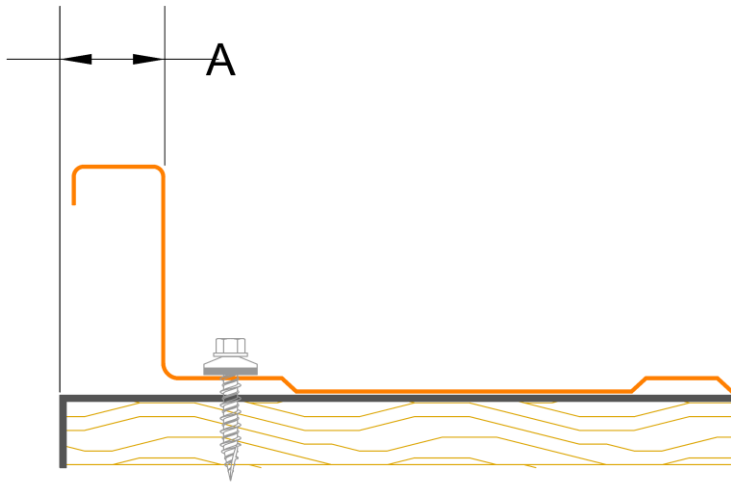
← PREVAILING WIND DIRECTION



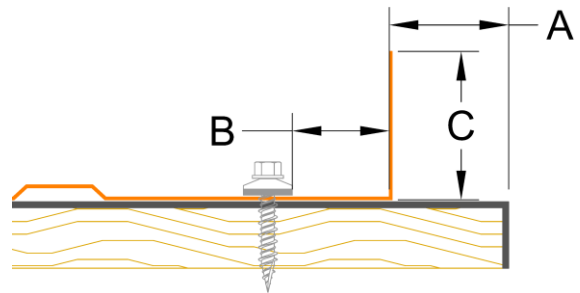
1.5"



2"



FIRST PANEL



LAST PANEL

PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. USE **MECHANICAL SEAMER** TO CRIMP THE MAJOR RIBS USING MANUFACTURER'S INSTRUCTIONS.
3. INSTALL **FIRST PANEL** USING **SELF SEALING FASTENER** SPACED 24" AND CENTERED ON FIRST FLAT AS SHOWN.
4. IF **LAST PANEL** IS OVER HANGS THE GABLE EDGE, CUT EXCESS AND BEND TERMINATION VERTICAL AS SHOWN.
5. INSTALL **LAST PANEL** USING **SELF SEALING FASTENER** SPACED 24" ALONG **MAJOR RIB** AS SHOWN.

NOTES:

- **DIMENSION A** IS BASED ON **GABLE TRIM** USED.
- **DIMENSION B** IS MAXIMUM 1" FROM **MAJOR RIB**.
- **DIMENSION C** MINIMUM 1" WITH MAXIMUM BASED ON **ROOF PANEL** USED.

	Standard Gable	3" Compensating Gable
Dimension A Maximum	1.75 "	3"

	1.5"	2"
Dimension C Maximum	1.25"	1.75"



VANTAGE METAL
WORKS, INC.

MECHANICAL SEAM

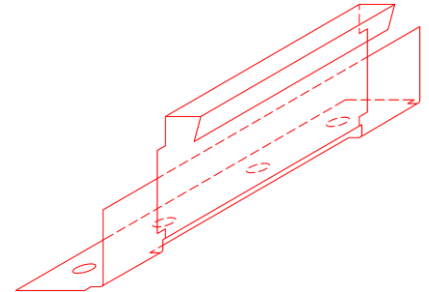
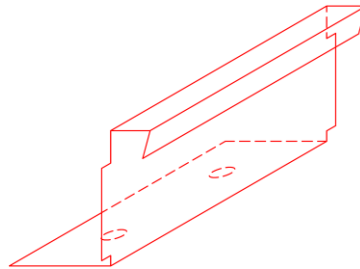
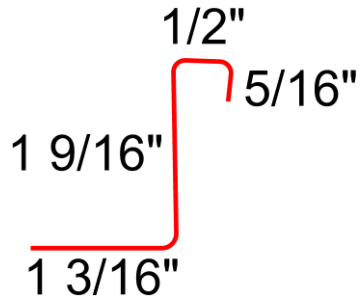
ROOF PANELS CLIPS

DIMENSIONS

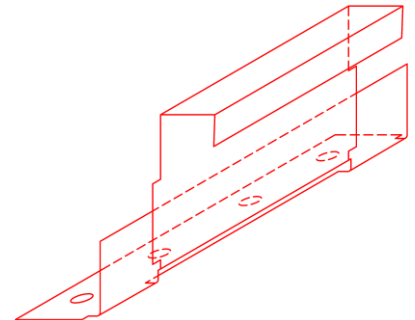
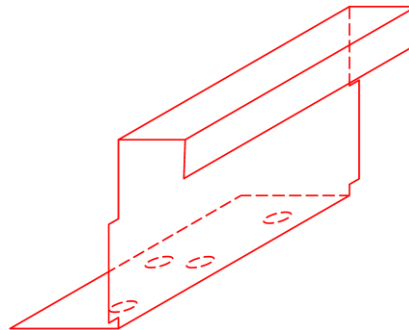
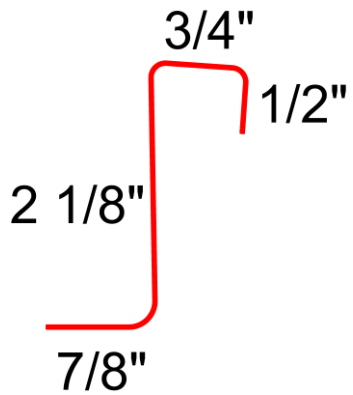
STATIONARY CLIP

EXPANSION CLIP

1.5" PANELS



2" PANELS



PROCEDURES:

1. INSTALL CLIPS USING AT LEAST 2 HIDDEN FASTENERS PER CLIP.

NOTES:

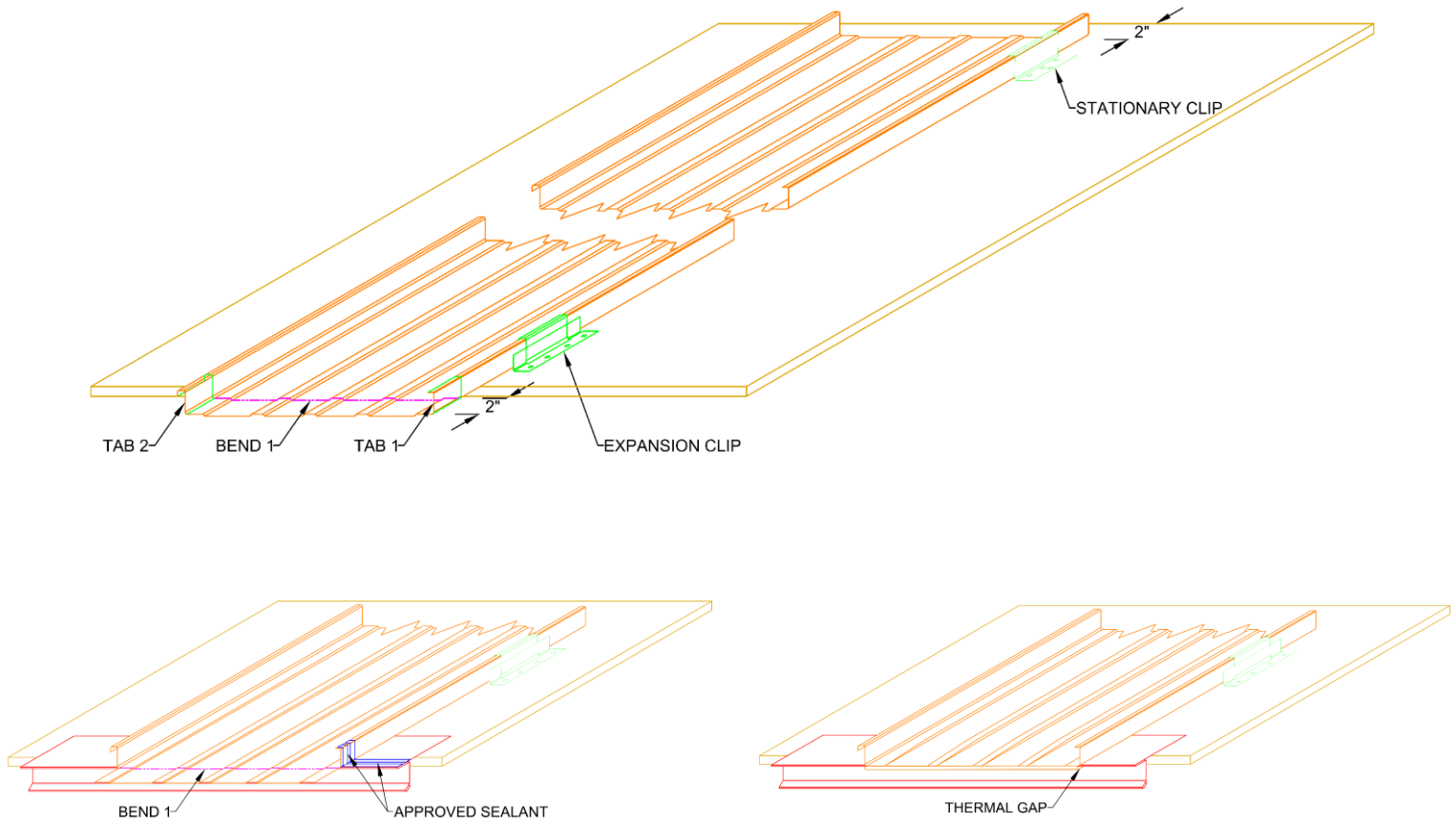
- EXPANSION CLIPS ARE USED FOR ROOF PANELS LONGER THAN 20 FEET.



VANTAGE METAL
WORKS, INC.

MECHANICAL SEAM

ROOF PANELS BENDS



PROCEDURES:

1. INSTALL **CLIPS** SPACED A MINIMUM OF **12"** FROM THE TOP AND BOTTOM OF THE **ROOF PANEL**.
2. INSTALL **CLIPS** SPACED **36"** ALONG **ROOF PANEL** LENGTH.
3. CUT ALL GREEN LINES, REMOVING **TAB 1 AND 2**
4. **BEND 1** 180° CREATING A **LOOP**
5. APPLY 2 LINES OF **APPROVED SEALANT** ALONG **EAVE TRIM** AND THE **MAJOR RIB** THAT WAS JUST CLIPPED IN.
6. INSERT THE **LOOP** OVER THE TRIM LIKE THE **RETURN EAVE TRIM** SHOWN.

NOTES:

- THE **LOOP** IS USED ON TRIMS LIKE **RETURN EAVE, STANDARD EAVE, AND W-VALLEY TRIMS**.
- KEEP A **THERMAL GAP** FOR THERMAL EXPANSION DUE TO TEMPERATURE CHANGES.

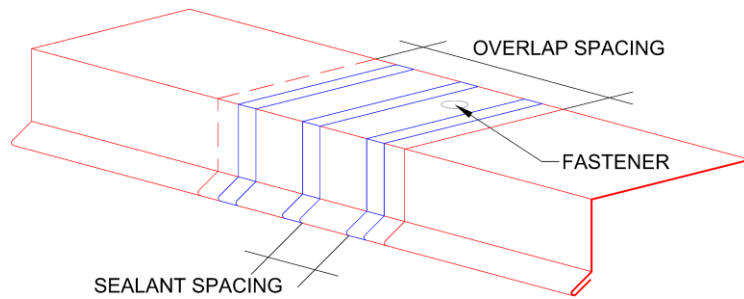


VANTAGE METAL
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MECHANICAL SEAM

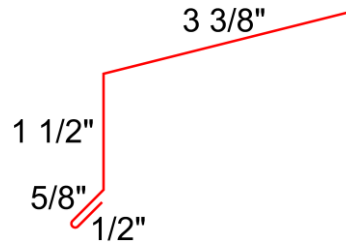
EAVE TRIM STANDARD

OVERLAPPING DETAILS

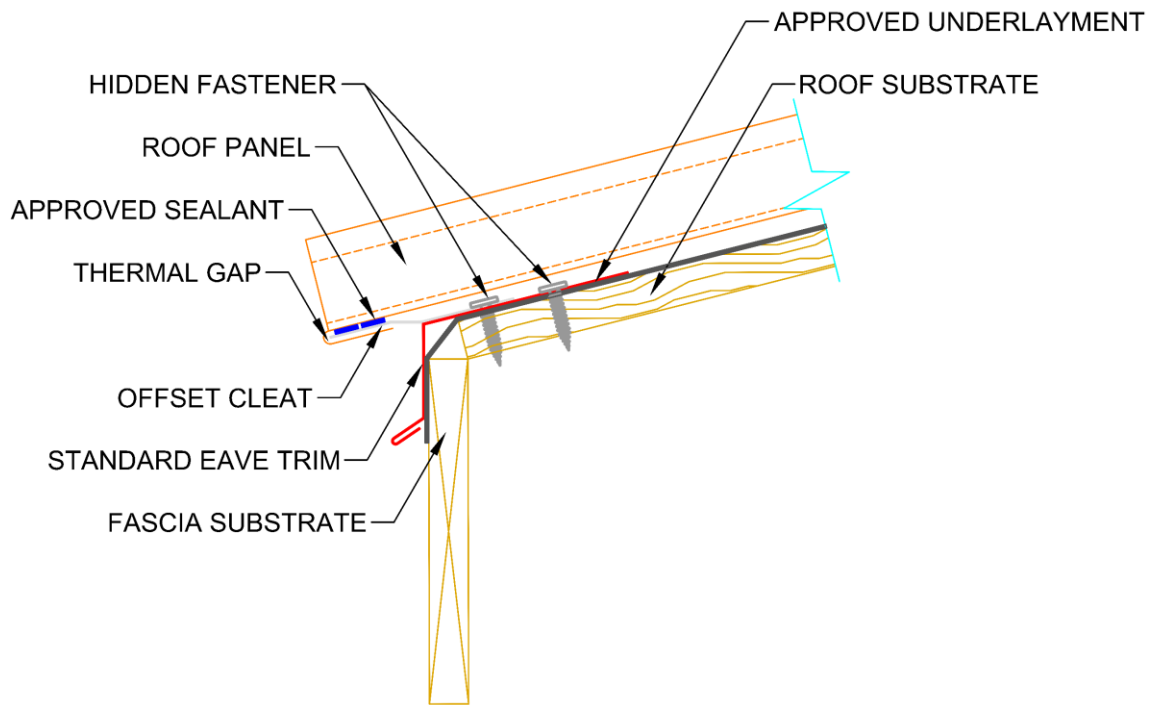
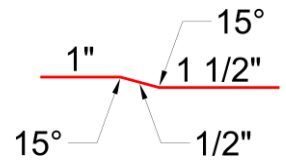


DIMENSIONS

STANDARD EAVE TRIM



OFFSET CLEAT



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE
2. INSTALL **APPROVED UNDERLAYMENT** USING MANUFACTURER'S INSTRUCTIONS.
3. INSTALL **STANDARD EAVE TRIM** USING **HIDDEN FASTENERS** SPACED 24" ALONG TRIM AND 1" FROM TRIM EDGE.
4. INSTALL **OFFSET CLEAT** USING **HIDDEN FASTENERS** SPACED 24" ALONG CLEAT.
5. APPLY **APPROVED SEALANT** ON OUTER CLEAT FACE.
6. INSTALL **ROOF PANEL** USING TYPICAL INSTALLATION
7. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALLATION . REMOVE ALL **SWarf**: CLIPPINGS, FILINGS, SHAVINGS, TRIMMINGS, ETC.

OVERLAPPING NOTES:

- **OVERLAP SPACING** IS 4".
- APPLY 3 ROWS OF **APPROVED SEALANT** SPACED 1" APART.
- USED **HIDDEN FASTENERS** CENTERED ON TRIM FACE AS SHOWN.

NOTES:

- WHEN INSTALLING **ROOF PANEL**, LEAVE A **THERMAL GAP**, ALLOWING FOR **THERMAL EXPANSION**.

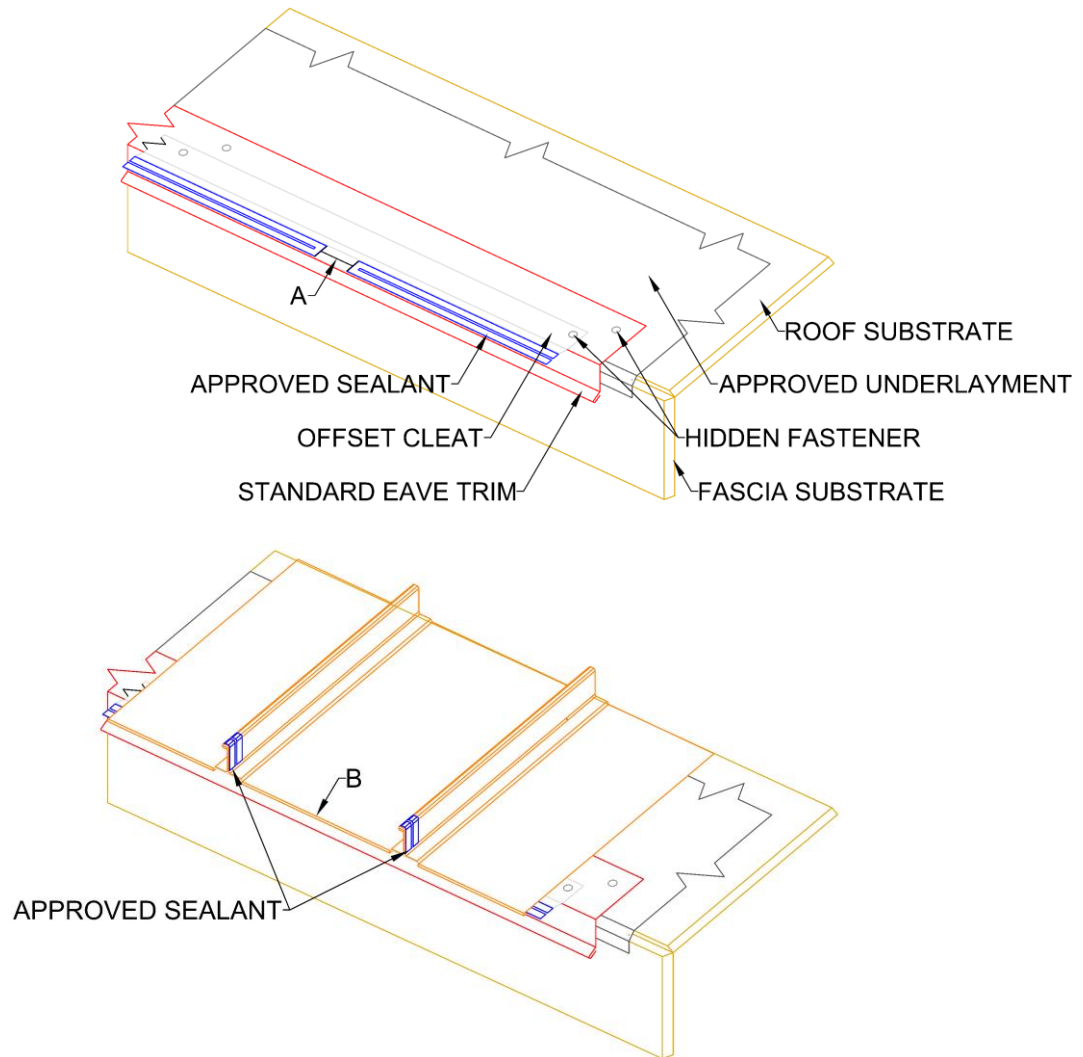
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MECHANICAL SEAM

EAVE TRIM STANDARD E



NOTES:

- WHEN APPLYING **APPROVED SEALANT**, LEAVE A **GAP (LOCATION A)** CENTERED ON THE FLATS OF THE **ROOF PANEL (LOCATION B)**
- APPLY 2 ROWS OF **APPROVED SEALANT** ON THE EDGE OF EACH **MAJOR RIB** BETWEEN EACH **ROOF PANEL** *BEFORE* CRIMPING AS SHOWN.

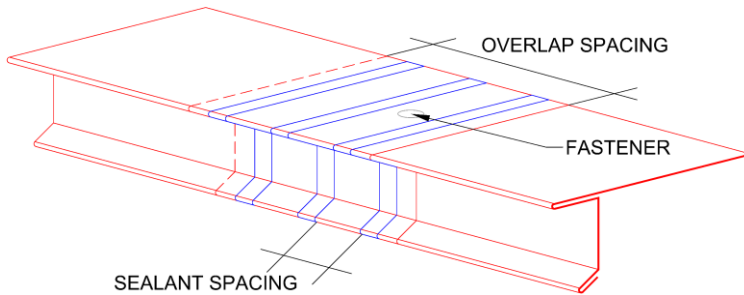


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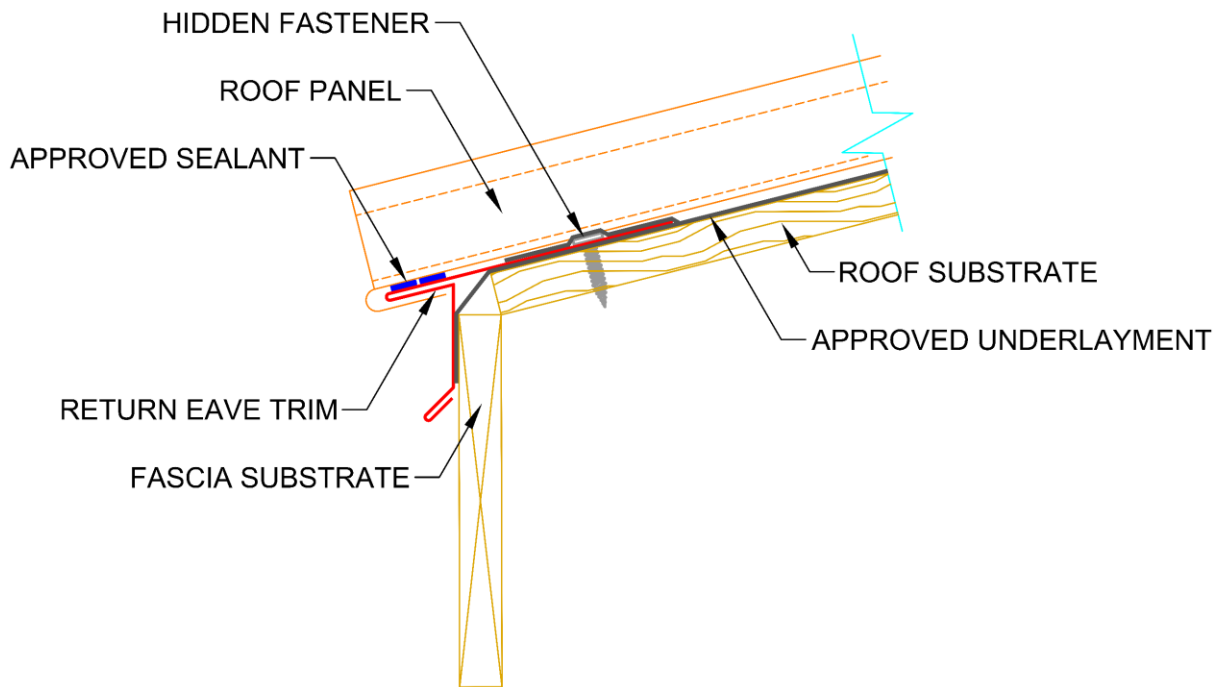
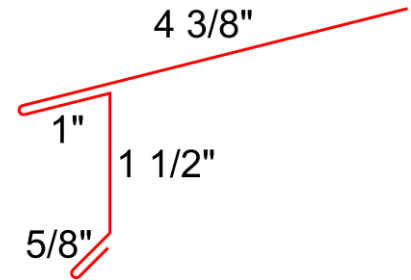
MECHANICAL SEAM

EAVE TRIM RETURN

OVERLAPPING DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE
2. INSTALL **APPROVED UNDERLAYMENT** USING MANUFACTURER'S INSTRUCTIONS.
3. INSTALL **RETURN EAVE TRIM** USING **HIDDEN FASTENERS** SPACED 24" ALONG TRIM AND 1" FROM TRIM EDGE.
4. APPLY **APPROVED SEALANT** ON **RETURN EAVE TRIM** AS SHOWN..
5. INSTALL **ROOF PANEL** USING TYPICAL INSTALLATION.
6. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALLATION . REMOVE ALL **SWarf**: CLIPPINGS, FILINGS, SHAVINGS, TRIMMINGS, ETC.

OVERLAPPING NOTES:

- **OVERLAP SPACING** IS 4".
- APPLY 3 ROWS OF **APPROVED SEALANT** SPACED 1" APART.
- USED **HIDDEN FASTENERS** CENTERED ON TRIM FACE AS SHOWN.

NOTES:

- WHEN INSTALLING **ROOF PANEL**, LEAVE A **THERMAL GAP**, ALLOWING FOR **THERMAL EXPANSION**.

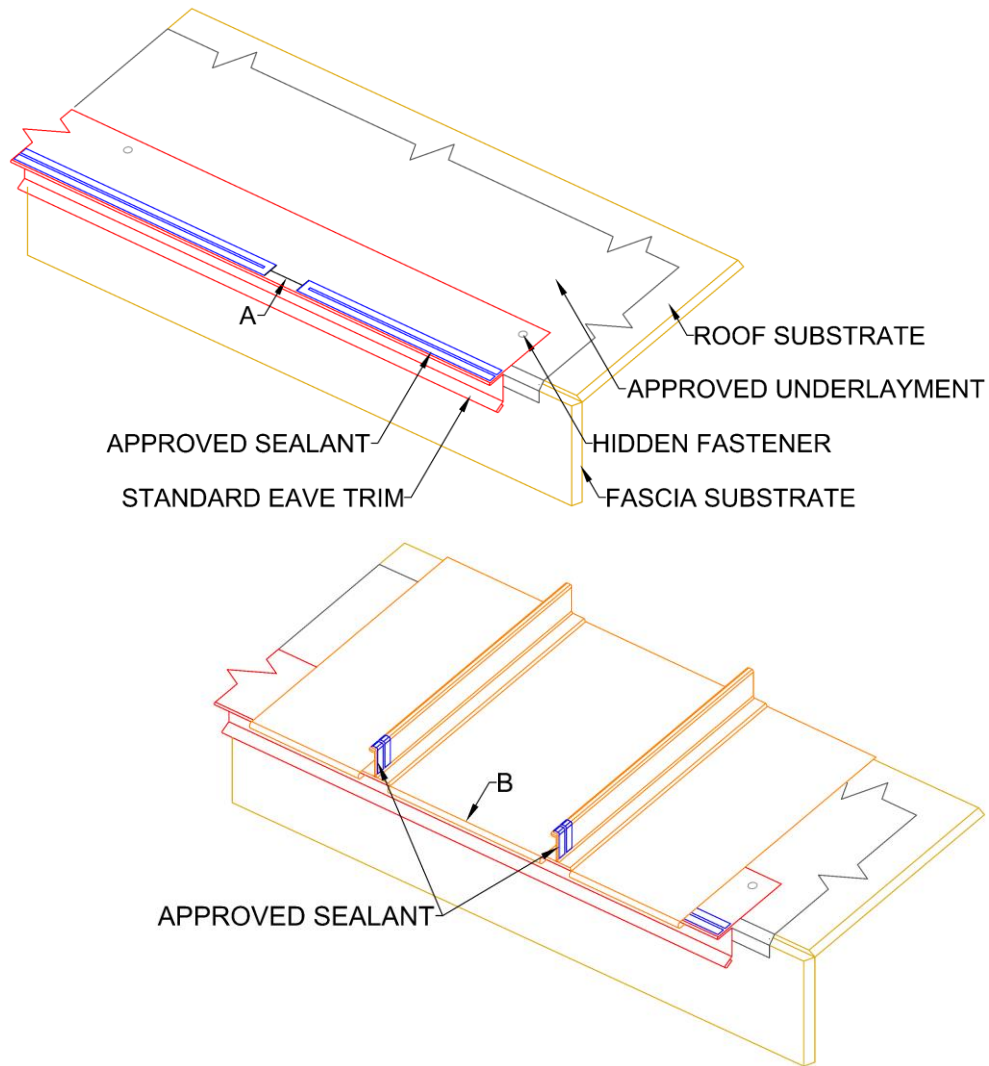
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MECHANICAL SEAM

EAVE TRIM RETURN



NOTES:

- WHEN APPLYING **APPROVED SEALANT**, LEAVE A **GAP (LOCATION A)** CENTERED ON THE FLATS OF THE **ROOF PANEL (LOCATION B)**
- APPLY 2 ROWS OF **APPROVED SEALANT** ON THE EDGE OF EACH **MAJOR RIB** BETWEEN EACH **ROOF PANEL** *BEFORE* CRIMPING AS SHOWN.

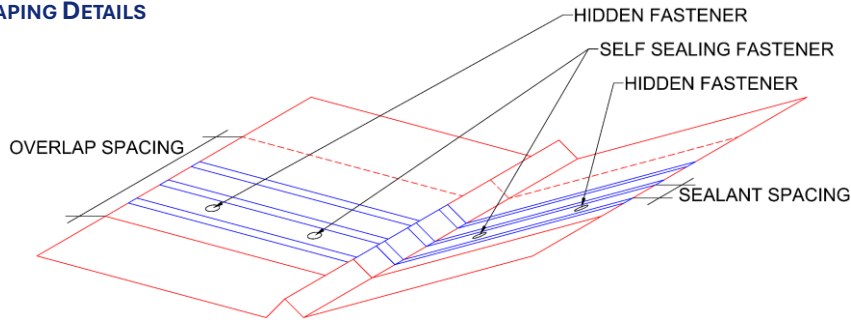


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MECHANICAL SEAM

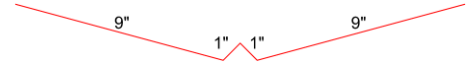
W-VALLEY TRIM 20" AND 24"

OVERLAPING DETAILS

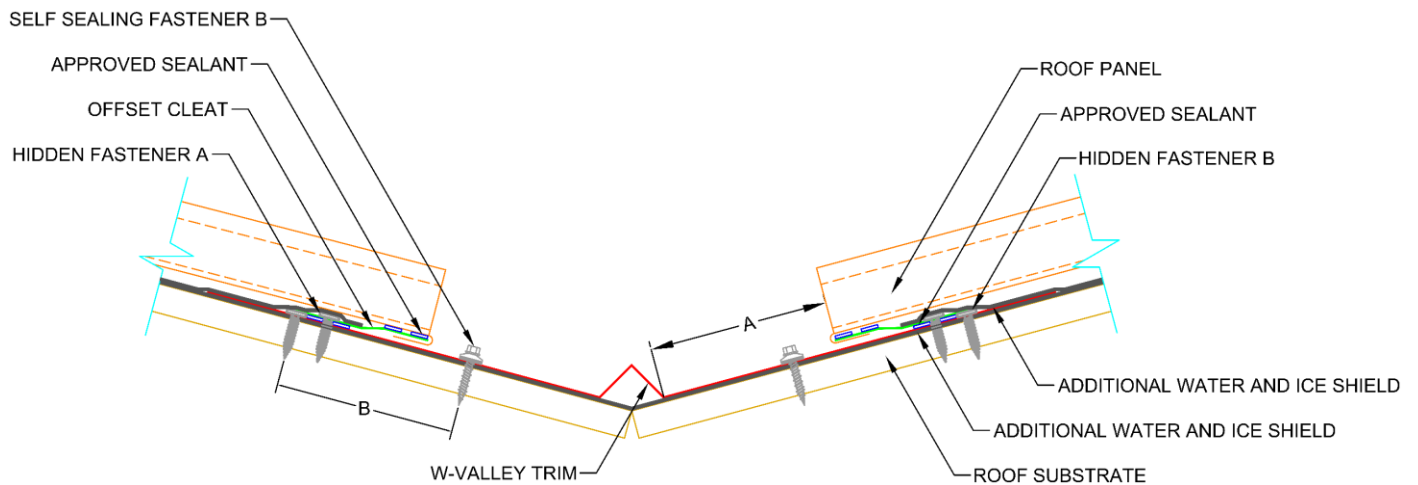
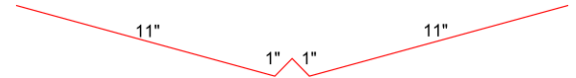


DIMENSIONS

20" W-VALLEY TRIM



24" W-VALLEY TRIM



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE
2. INSTALL **APPROVED UNDERLAYMENT** USING MANUFACTURER'S INSTRUCTIONS.
3. INSTALL **W-VALLEY TRIM** USING **HIDDEN FASTENER B** AND **SELF SEALING FASTENER B** SPACED **DIMENSION B** APART AND CENTERED ON THE **W-VALLEY TRIM'S** FLAT.
4. APPLY 2 ROWS OF **APPROVED SEALANT** UNDER LOWER FLAT OF **OFFSET CLEAT**.
5. INSTALL **OFFSET CLEAT** **DIMENSION A** FROM THE CENTER RIDGE USING **HIDDEN FASTENER A** SPACED **24"** ALONG **OFFSET CLEAT'S** LOWER FLAT.
6. INSTALL **ADDITIONAL WATER AND ICE SHIELD** ON TOP OF **OFFSET CLEAT'S** LOWER FLAT UP AND OVER **W-VALLEY TRIM**.
7. APPLY 2 ROWS OF **APPROVED SEALANT** ON TOP OF **OFFSET CLEAT'S** UPPER FLAT.
8. INSTALL **ROOF PANEL** USING TYPICAL INSTALLATION.
9. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALLATION . REMOVE ALL **SWarf**: CLIPPINGS, FILINGS, SHAVINGS, TRIMMINGS, ETC.

NOTES:

- **DIMENSION A** IS DEPENDS ON THE TRIM TYPE.
- **DIMENSION B** IS 4" CENTERED ON THE **W-VALLEY TRIM'S** FLAT.
- SEE **NEXT PAGE** FOR ADDITIONAL INFORMATION.

	20" TRIM	24" TRIM
DIMENSION A	4" AND 5"	4" AND 7"

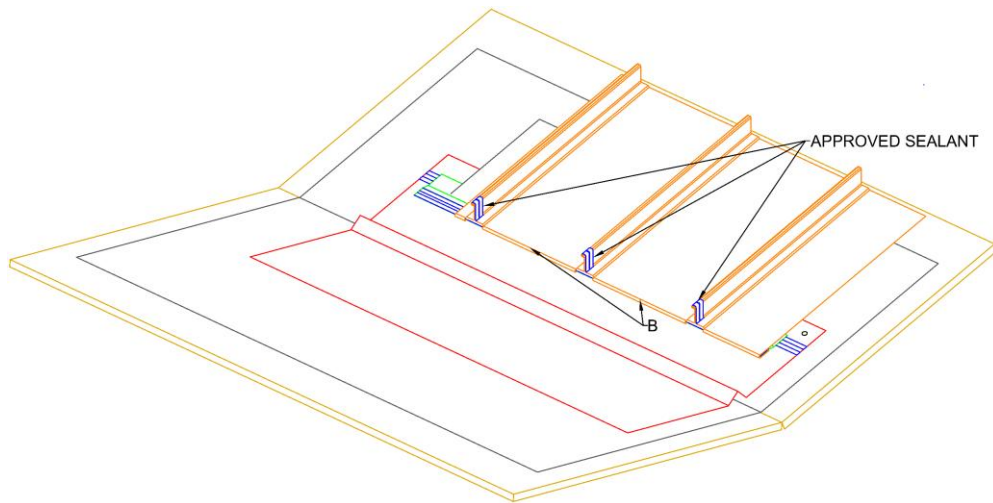
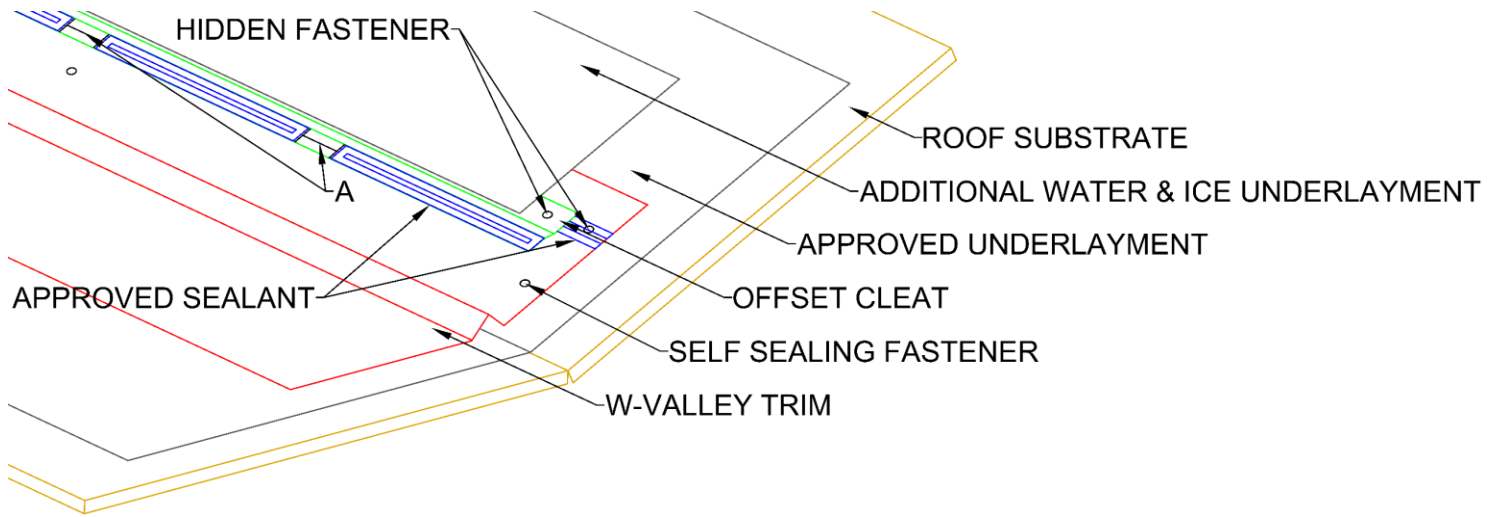
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MECHANICAL SEAM

W-VALLEY TRIM
20" AND 24"



NOTES:

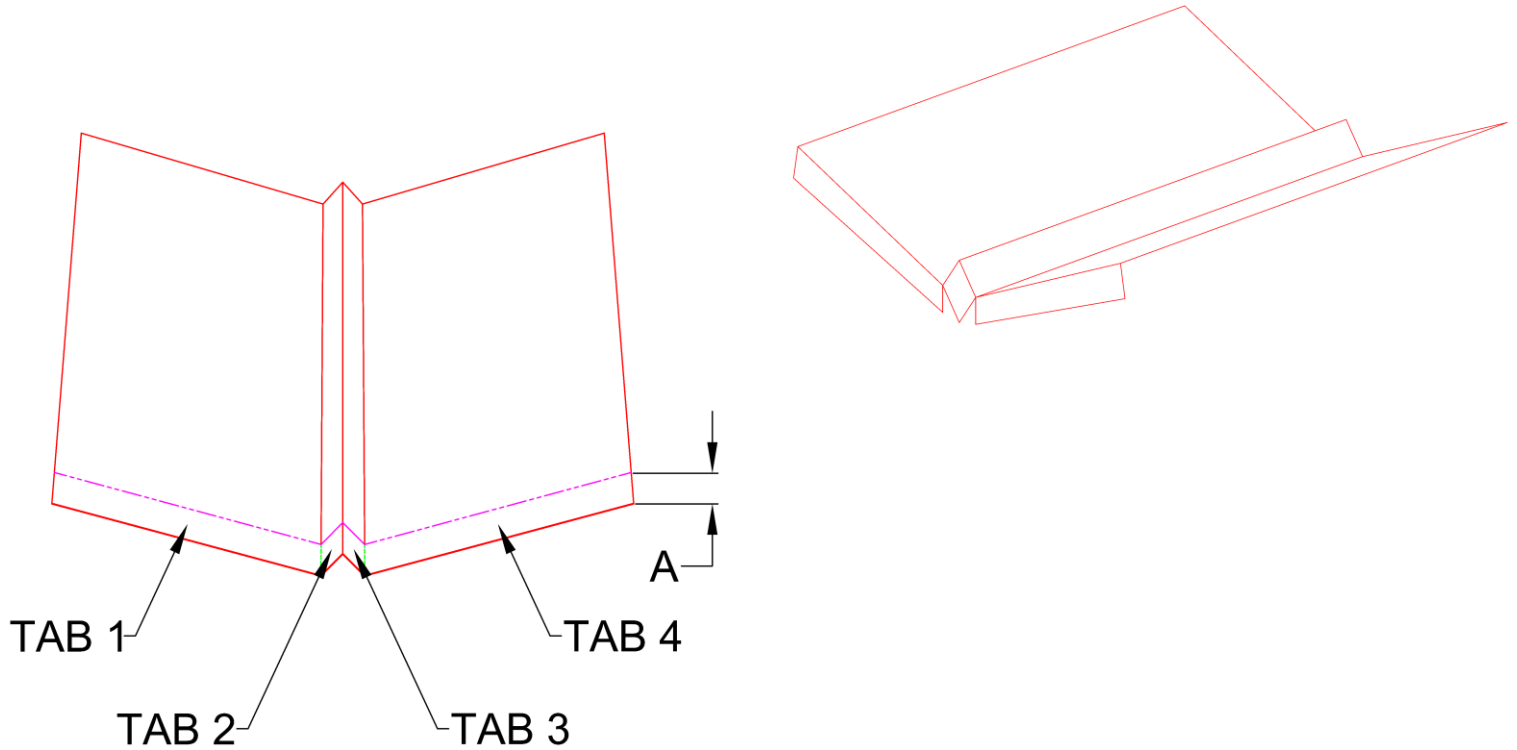
- **DIMENSION A** IS 2" SPACED ON THE CENTER FLATS OF THE **ROOF PANEL (LOCATION B)**.
- APPLY **APPROVED SEALANT** TO THE **ROOF PANEL'S MAJOR RIB'S** EDGE AS SHOWN.



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MECHANICAL SEAM

W-VALLEY TRIM
20" AND 24"



PROCEDURES:

1. CUT ALL GREAL LINES
2. BEND **TAB 1 AND 4** DOWNWARDS
3. BEND **TAB 2 AND 3** DOWNWARDS OVERLAPPING **TAB 2** OVER **TAB 3**

NOTES:

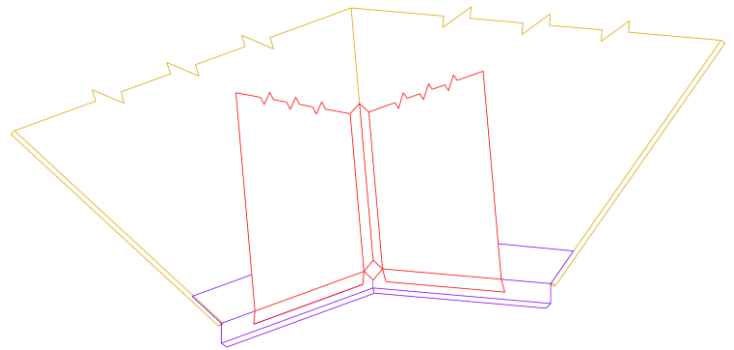
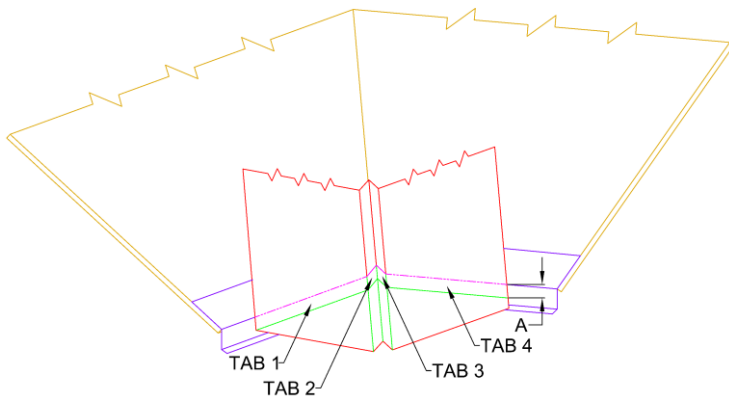
- **DIMENSION A** is 1".



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MECHANICAL SEAM

W-VALLEY TRIM
20" AND 24"



PROCEDURES:

1. CUT ALL GREAL LINES.
2. BEND **TAB 1 AND 4** DOWNWARDS
3. BEND **TAB 2 AND 3** DOWNWARDS OVERLAPPING **TAB 2** OVER **TAB 3**

NOTES:

- **DIMENSION A** IS 1".

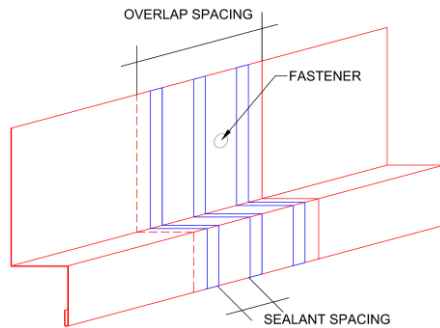


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MECHANICAL SEAM

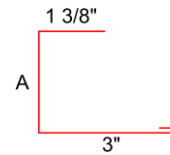
SIDEWALL TRIM STANDARD

OVERLAPING DETAILS

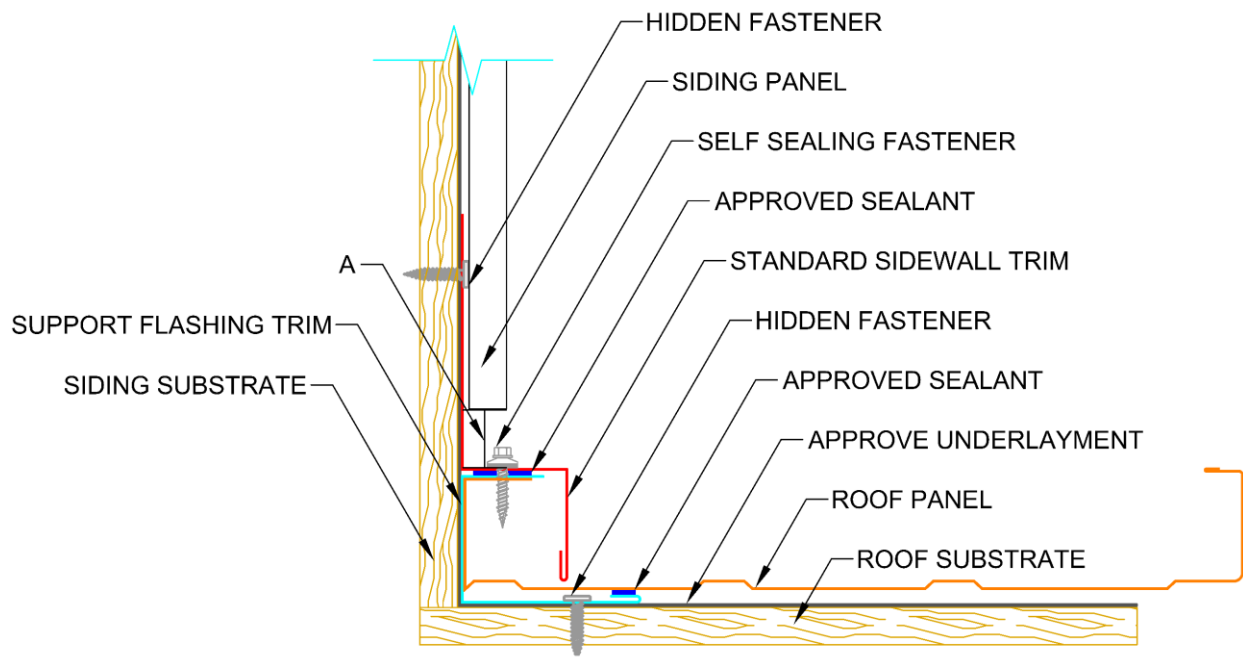


DIMENSIONS

SUPPORT FLASHING



SIDEWALL TRIM



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **SUPPORT FLASHING TRIM** INTO THE CORNER USING **HIDDEN FASTENERS** SPACED 24" ALONG THE TRIM.
3. APPLY **APPROVED SEALANT** ON THE LOWER HEM OF THE **SUPPORT FLASHING TRIM** AS SHOWN.
4. INSTALL **ROOF PANELS** USING TYPICAL INSTALLATION.
5. APPLY **APPROVED SEALANT** ON THE UPPER FLAT OF THE **SUPPORT FLASHING TRIM** AS SHOWN
6. INSTALL **STANDARD SIDEWALL TRIM** ONTO **SUPPORT FLASHING TRIM** AS SHOWN
7. USE **SELF SEALING FASTENERS** SPACED 24" ALONG TRIM INTO **SUPPORT FLASHING TRIM**
8. INSTALL **STANDARD SIDEWALL TRIM** USING **HIDDEN FASTENERS** SPACED 24" ALONG TRIM INTO **WALL SUBSTRATE**.
9. INSTALL **SIDING PANEL** USING MANUFACTURER'S INSTRUCTIONS.
10. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAP DIMENSIONAL NOTES:

1. MINIMUM **OVERLAP SPACING** IS 4".
2. USE THREE LINES OF **APPROVED SEALANT** WITH MINIMUM 1" **SEALANT SPACING**.
3. USE **HIDDEN FASTENERS** FOR OVERLAPPING PURPOSES.
4. **DIMENSION A** IS BASED ON THE **ROOF PANEL**.

ROOF PANEL STYLE	2"	1.5"
DIMENSION A	1 3/8"	1 7/8"

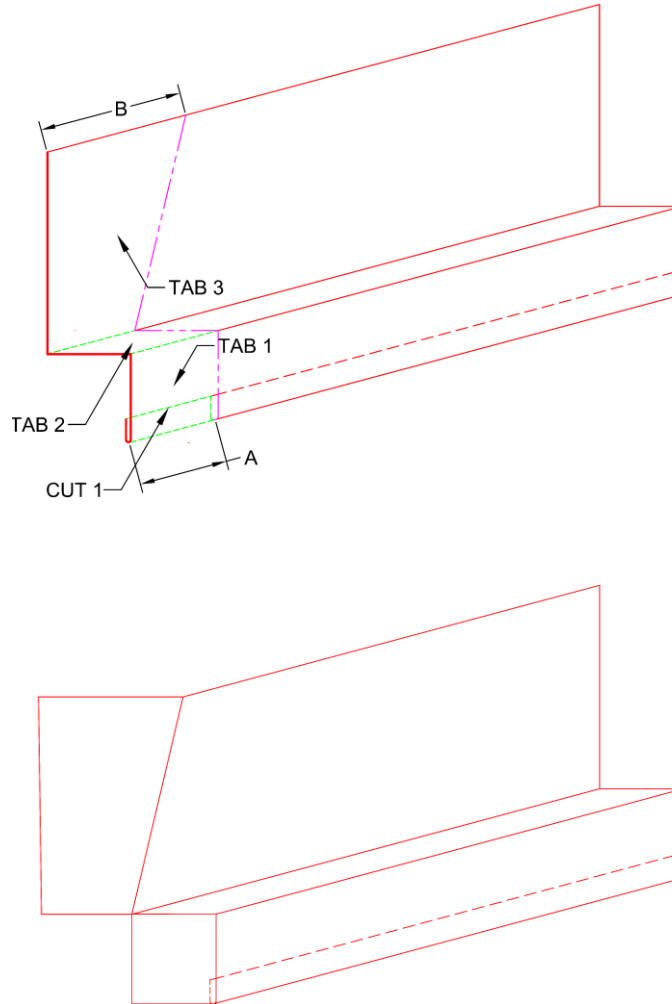
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MECHANICAL SEAM

SIDEWALL TRIM
STANDARD E



PROCEDURE:

1. CUT ALL **GREEN LINES**.
2. BEND **TAB 1** BACKWARDS ALONG THE **PURPLE LINE**.
3. BEND **TAB 3** BACKWARDS ALONG THE **PURPLE LINE**.
4. BEND **TAB 2** DOWNWARDS ALONG THE **PURPLE LINE**.

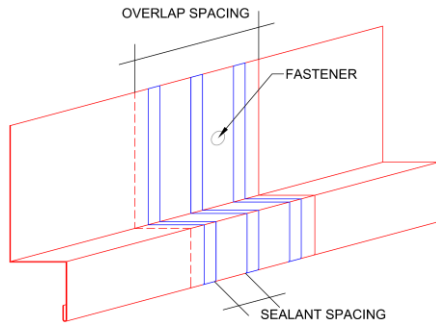


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MECHANICAL SEAM

SIDEWALL TRIM 3" COMPENSATING

OVERLAPPING DETAILS

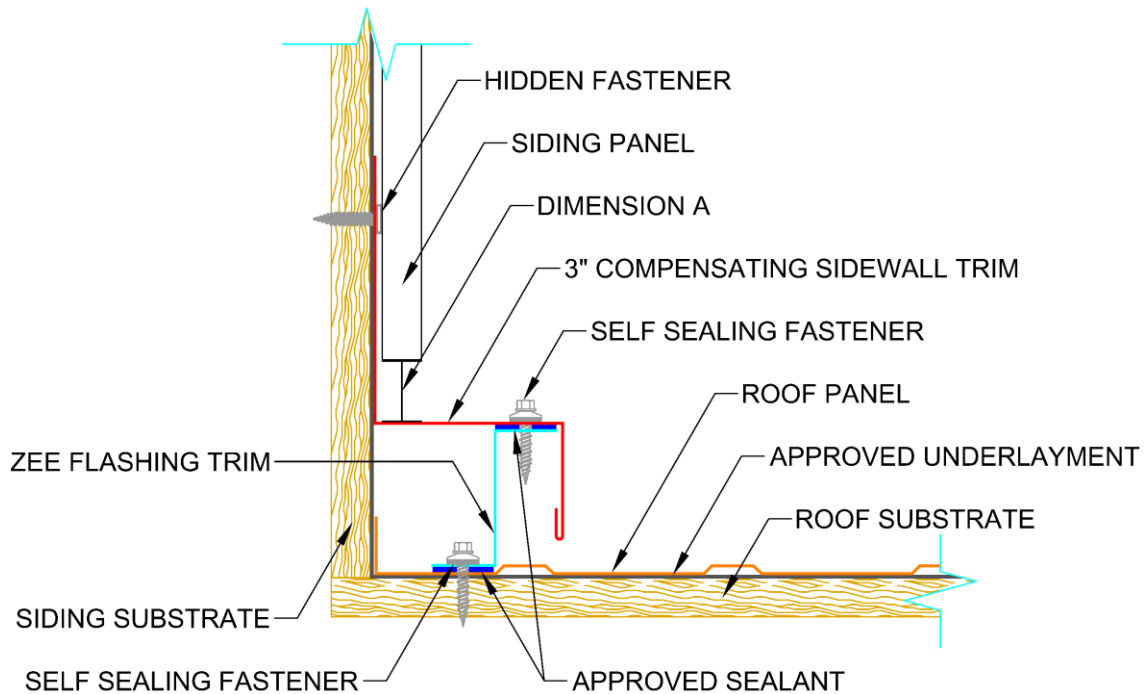
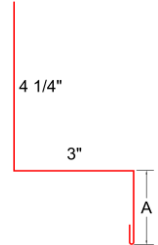


DIMENSIONS

ZEE FLASHING



3" COMP SIDEWALL



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **ROOF PANEL** USING STANDARD INSTRUCTION.
3. APPLY **APPROVED SEALANT** ON THE EXPOSED TOP OFF **ZEE CLOSURE TRIM** AS SHOWN.
4. INSTALL **ZEE CLOSURE TRIM** MAXIMUM 1" FROM **WALL SUBSTRATE** USING **SELF-SEALING FASTENERS**, SPACED **24"** ALONG TRIM.
5. INSTALL **3" COMPENSATING SIDEWALL TRIM** ONTO **ZEE CLOSURE TRIM** USING **SELF SEALING FASTENERS**, SPACED **24"** ALONG TRIM AS SHOWN
6. USE **HIDDEN FASTENERS** SPACED **24"** ALONG TRIM INTO **WALL SUBSTRATE**.
7. INSTALL **SIDING PANEL** USING MANUFACTURER'S INSTRUCTIONS.
8. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWARF**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAPPING NOTES:

1. MINIMUM **OVERLAP SPACING** IS 4".
2. USE THREE LINES OF **APPROVED SEALANT** WITH MINIMUM 1" **SEALANT SPACING**.
3. USE **HIDDEN FASTENERS** FOR OVERLAPPING PURPOSES.
4. **DIMENSION A** IS BASED ON THE **ROOF PANEL**.

ROOF PANEL STYLE	2"	1.5"
DIMENSION A	1 3/8"	1 7/8"

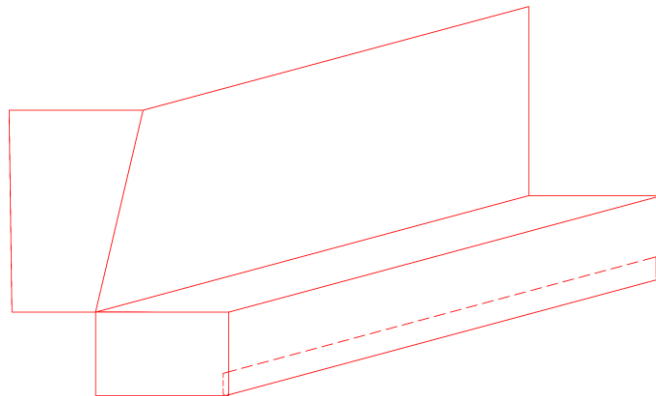
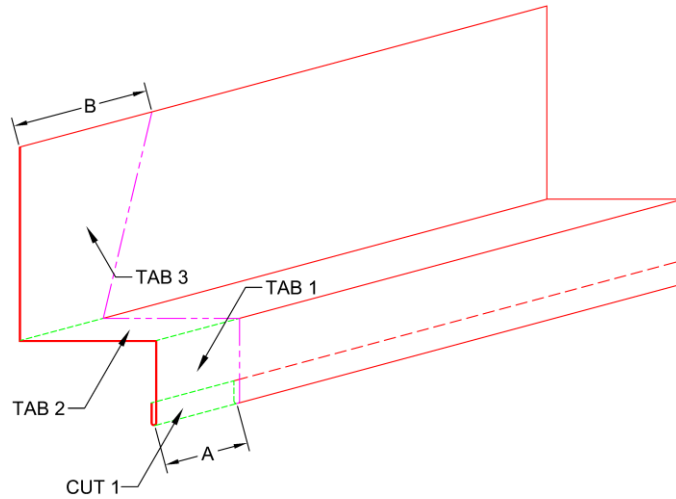
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MECHANICAL SEAM

SIDEWALL TRIM
3" COMPENSATING



PROCEDURE:

1. CUT ALL **GREEN LINES**.
2. BEND **TAB 1** BACKWARDS ALONG THE **PURPLE LINE**.
3. BEND **TAB 2** DOWNWARDS ALONG THE **PURPLE LINE**.
4. BEND **TAB 3** BACKWARDS ALONG THE **PURPLE LINE**.

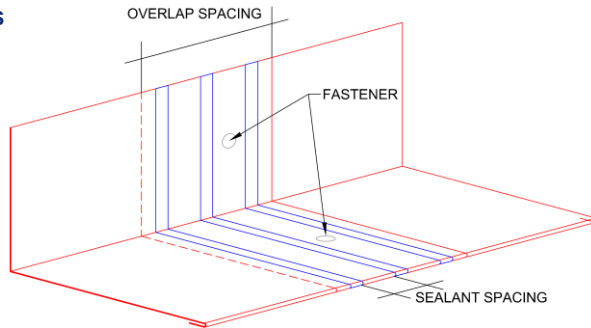


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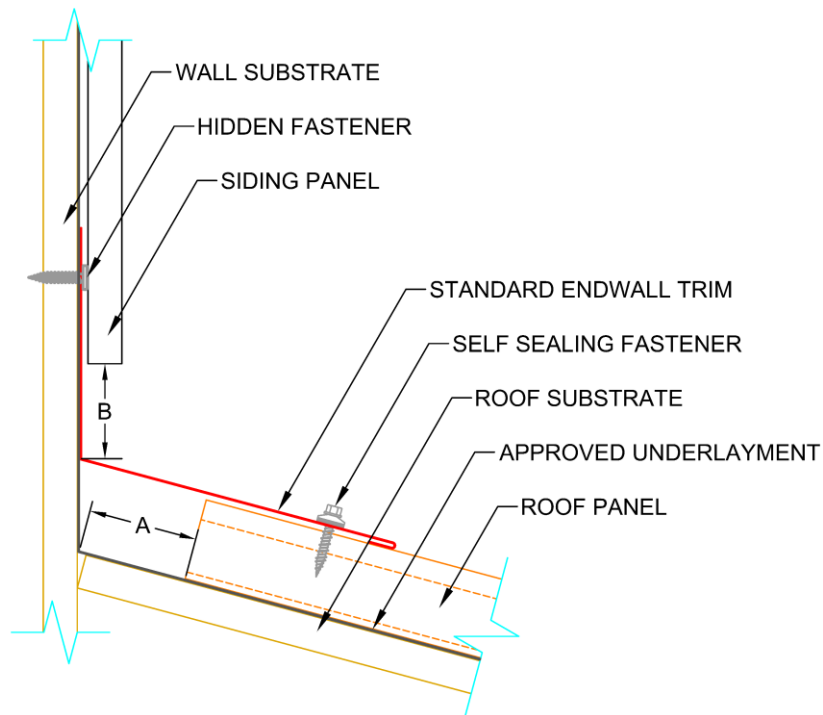
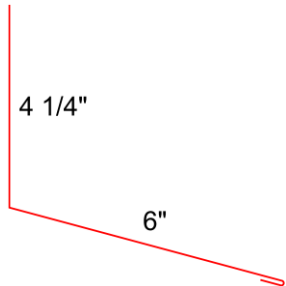
MECHANICAL SEAM

ENDWALL TRIM STANDARD

OVERLAPING DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE
2. INSTALL **APPROVED UNDERLAYMENT** USING MANUFACTURER'S INSTRUCTIONS.
3. INSTALL **ROOF PANEL** USING TYPICAL INSTALLATION.
4. INSTALL **STANDARD ENDWALL TRIM** USING **HIDDEN FASTENER** SPACED 24" ALONG THE TOP OF THE TRIM EDGE.
 - a. USE **SELF SEALING FASTENER** SPACED 24" INTO THE **ROOF PANEL'S MAJOR RIB**.
5. INSTALL **SIDING PANEL** USING TYPICAL INSTALLATION.
6. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALLATION . REMOVE ALL **SWarf**: CLIPPINGS, FILINGS, SHAVINGS, TRIMMINGS, ETC.

OVERLAPPING NOTES:

- **OVERLAP SPACING** IS 4".
- APPLY 3 ROWS OF **APPROVED SEALANT** SPACED 1" APART
- USE **HIDDEN FASTENER** ON **VERTICAL FACE** OF **STANDARD ENDWALL TRIM**.
- USE **SELF SEALING FASTENER** ON **LOWER FACE** OF **STANDARD ENDWALL TRIM**.

NOTES:

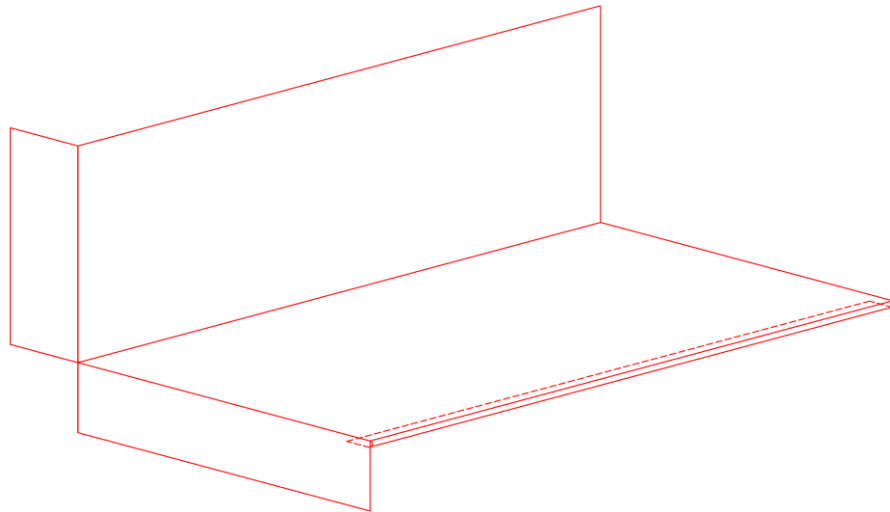
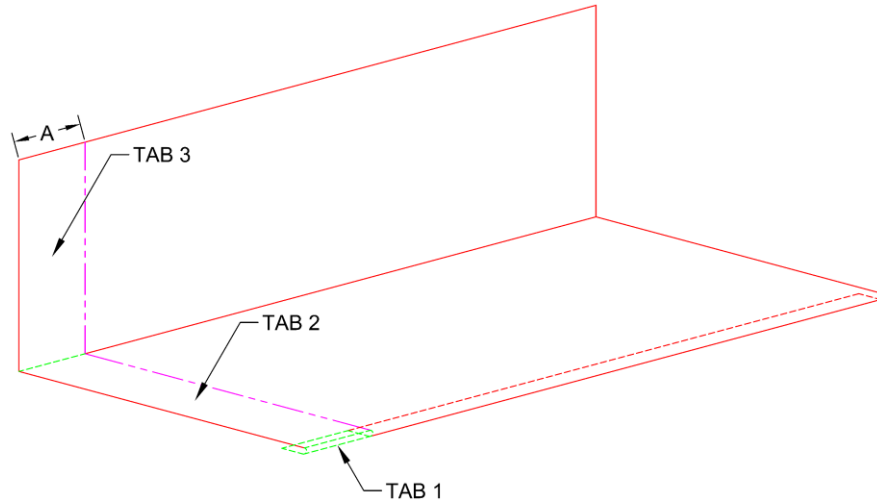
- **DIMENSION A** IS MAXIMUM 2".
- **DIMENSION B** IS MAXIMUM 1".



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MECHANICAL SEAM

ENDWALL TRIM STANDARD



PROCEDURES:

1. CUT ALL GREEN LINES REMOVING **TAB 1**.
2. BEND **TAB 2** DOWNWARDS.
3. BEND **TAB 3** BACKWARDS.

NOTES:

- **DIMENSION A** IS BASED ON **ROOF PANEL TYPE**.

	ROOF PANEL TYPE	
	1.5"	2"
DIMENSION A	1.5"	2"

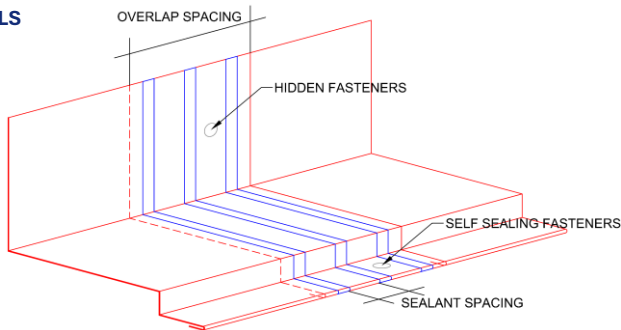


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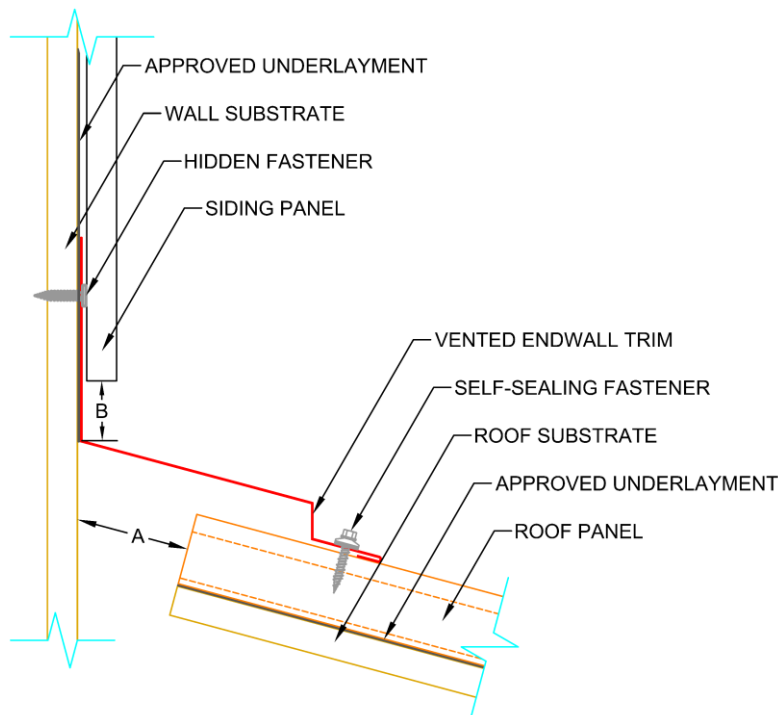
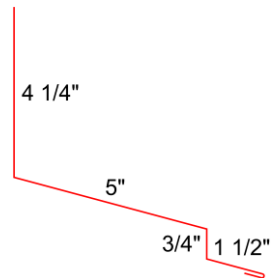
MECHANICAL SEAM

ENDWALL TRIM VENTED

OVERLAPING DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE
2. INSTALL **APPROVED UNDERLAYMENT** USING MANUFACTURER'S INSTRUCTIONS.
3. INSTALL **ROOF PANEL** USING TYPICAL INSTALLATION.
4. INSTALL **STANDARD ENDWALL TRIM** USING **HIDDEN FASTENER** SPACED 24" ALONG THE TOP OF THE TRIM EDGE.
 - a. USE **SELF SEALING FASTENER** SPACED 24" INTO THE **ROOF PANEL'S MAJOR RIB**.
5. INSTALL **SIDING PANEL** USING TYPICAL INSTALLATION.
6. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALLATION . REMOVE ALL **SWarf**: CLIPPINGS, FILINGS, SHAVINGS, TRIMMINGS, ETC.

OVERLAPPING NOTES:

- **OVERLAP SPACING** IS 4".
- APPLY 3 ROWS OF **APPROVED SEALANT** SPACED 1" APART
- USE **HIDDEN FASTENER** ON **VERTICAL FACE** OF **STANDARD ENDWALL TRIM**.
- USE **SELF SEALING FASTENER** ON **LOWER FACE** OF **STANDARD ENDWALL TRIM**.

NOTES:

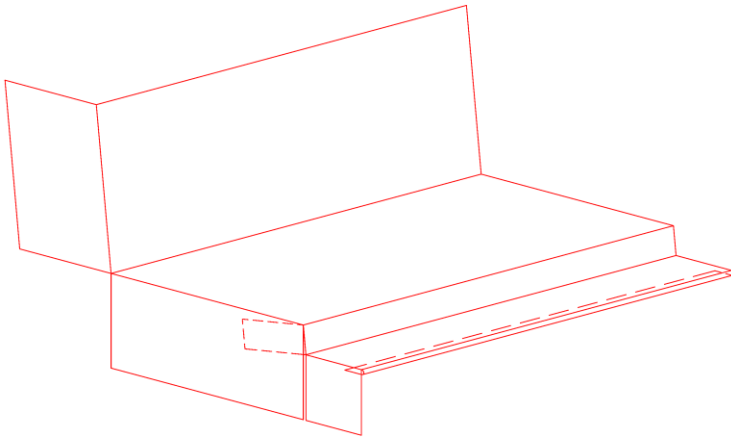
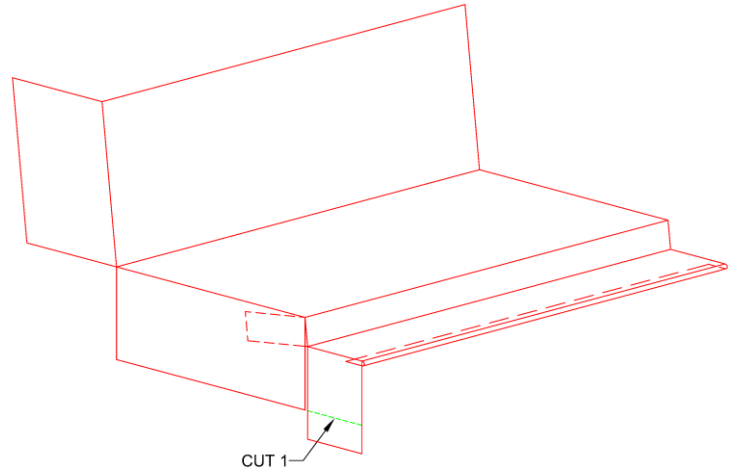
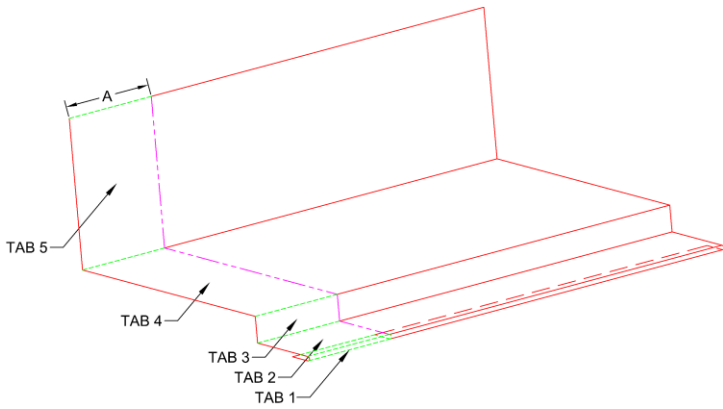
- **DIMENSION A** IS MAXIMUM 2".
- **DIMENSION B** IS MAXIMUM 1".



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MECHANICAL SEAM

ENDWALL TRIM
VENTED



PROCEDURES:

1. CUT ALL GREEN LINES REMOVING **TAB 1**, THE HEM.
2. BEND **TAB 2** DOWNWARDS.
3. BEND **TAB 3** BACKWARDS.
4. BEND **TAB 4** DOWNWARDS.
5. BEND **TAB 5** BACKWARDS.
6. **CUT 1** HORIZONTALLY.

NOTES:

- **DIMENSION A** IS BASED ON **ROOF PANEL TYPE**.

	ROOF PANEL TYPE	
	1.5"	2"
DIMENSION A	2 3/8"	2 7/8"

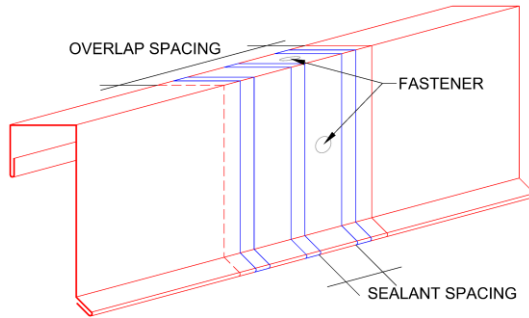


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MECHANICAL SEAM

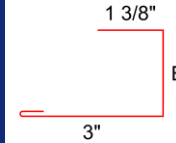
GABLE TRIM STANDARD

OVERLAPING DETAILS



DIMENSIONS

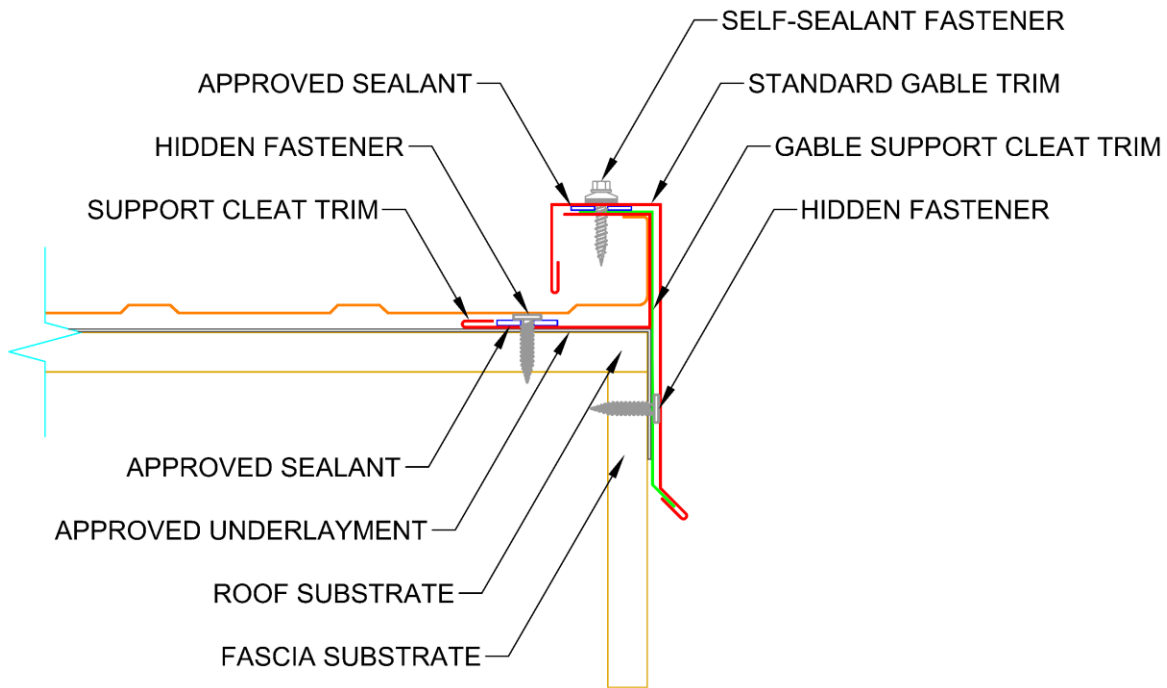
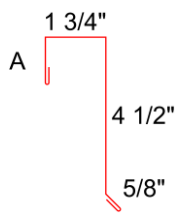
SUPPORT
FLASHING



GABLE SUPPORT
CLEAT



STANDARD
GABLE



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **APPROVED UNDERLAYMENT** USING MANUFACTURER'S INSTRUCTIONS.
3. INSTALL **SUPPORT CLEAT TRIM** ALONG THE **ROOF SUBSTRATE** EDGE USING **HIDDEN FASTENER** SPACED **24"** ALONG **HEM EDGE** AS SHOWN.
4. APPLY 2 LINES OF **APPROVED SEALANT** ALONG THE **HEM EDGE** AS SHOWN.
5. INSTALL **ROOF PANELS** USING TYPICAL INSTALLATION.
6. INSTALL **GABLE SUPPORT CLEAT TRIM** OVER THE **SUPPORT CLEAT TRIM** USING **HIDDEN FASTENERS** SPACED **24"** INTO FASCIA SUBSTRATE AS SHOWN.
7. APPLY 2 LINES OF **APPROVED SEALANT** ON TOP OF **GABLE SUPPORT CLEAT TRIM** AS SHOWN.
8. INSTALL **STANDARD GABLE TRIM** AS SHOWN USING **SELF-SEALING FASTENER** SPACING **24"** INTO **FASCIA SUBSTRATE** AND TOP OF TRIM AS SHOWN.
9. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAPPING NOTES:

- **OVERLAPPING SPACING** IS MINIMUM **4"**.
- APPLY 3 LINES OF **APPROVED SEALANT** SPACED **1"** APART.

USE **SELF SEALING FASTENERS** ON THE FLATS OF THE **3"** COMPENSATING GABLE TRIM.

NOTES:

- **DIMENSION A** IS BASED ON **ROOF PANEL TYPE**

ROOF PANEL TYPE	1.5"	2"
DIMENSION A	1 3/8"	1 7/8"

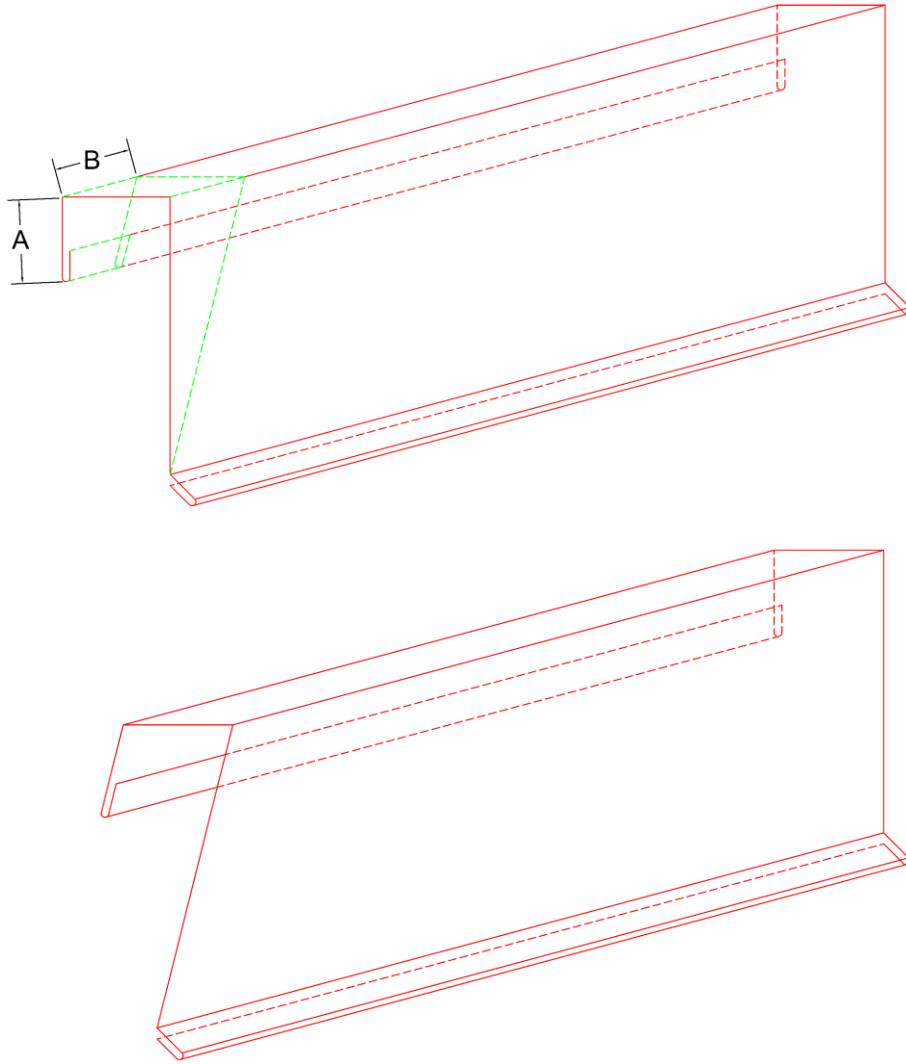
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WORKS, INC.

MECHANICAL SEAM

GABLE TRIM
STANDARD



PROCEDURE:

1. CUT ALL **GREEN LINES**.

NOTES:

- **DIMENSION A** IS BASED ON **ROOF PANEL TYPE**.
- **DIMENSION B** IS BASED ON **ROOF PITCH**.

ROOF PANEL TYPE	1.5"	2"
DIMENSION A	1 3/8"	1 7/8"

PITCH	DIMENSION B (INCH)
3:12	1 1/8
4:12	1 1/2
5:12	1 7/8
6:12	2 1/4
7:12	2 5/8
8:12	3
9:12	3 3/8
10:12	3 3/4
11:12	4 1/8
12:12	4 1/2

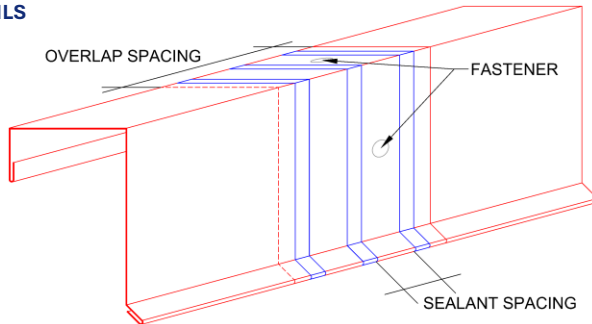


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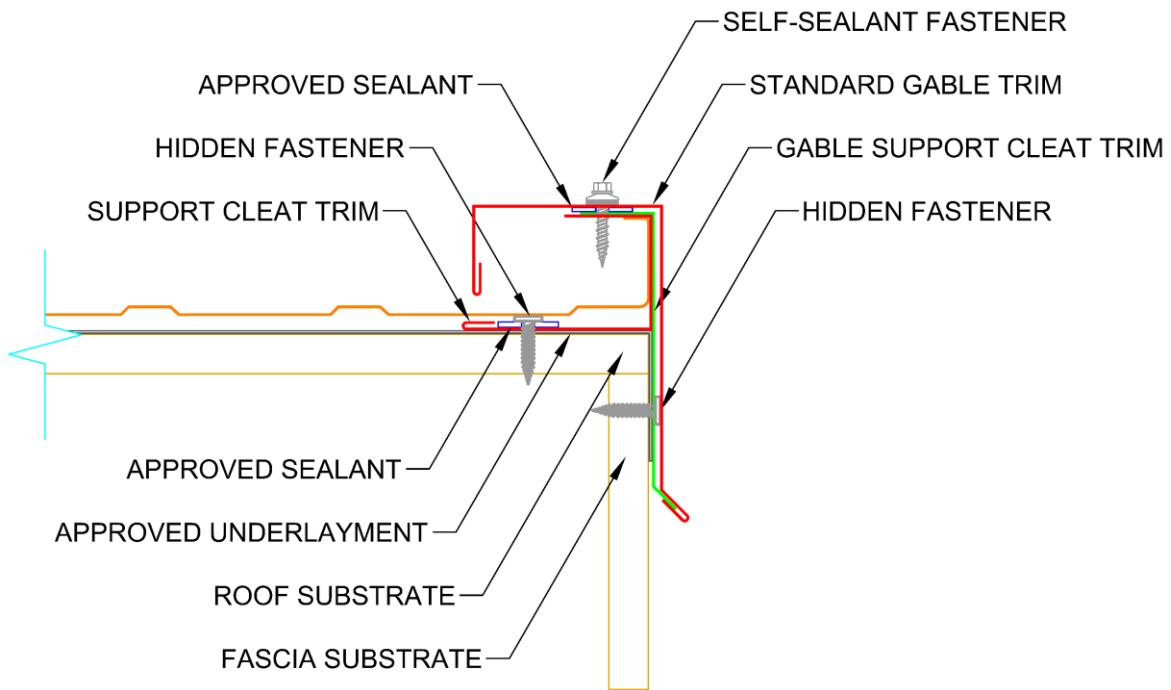
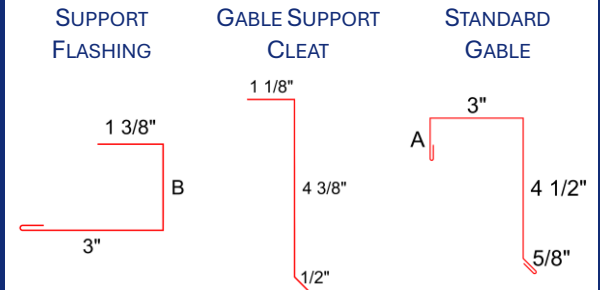
MECHANICAL SEAM

GABLE TRIM 3" COMPENSATING

OVERLAPPING DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **APPROVED UNDERLAYMENT** USING MANUFACTURER'S INSTRUCTIONS.
3. INSTALL **SUPPORT CLEAT TRIM** ALONG THE **ROOF SUBSTRATE** EDGE USING **HIDDEN FASTENER** SPACED **24"** ALONG **HEM EDGE** AS SHOWN.
4. APPLY 2 LINES OF **APPROVED SEALANT** ALONG THE **HEM EDGE** AS SHOWN.
5. INSTALL **ROOF PANELS** USING TYPICAL INSTALLATION.
6. INSTALL **GABLE SUPPORT CLEAT TRIM** OVER THE **SUPPORT CLEAT TRIM** USING **HIDDEN FASTENERS** SPACED **24"** INTO FASCIA SUBSTRATE AS SHOWN.
7. APPLY 2 LINES OF **APPROVED SEALANT** ON TOP OF **GABLE SUPPORT CLEAT TRIM** AS SHOWN.
8. INSTALL **3" COMPENSATING GABLE TRIM** AS SHOWN USING **SELF-SEALING FASTENER** SPACING **24"** INTO **FASCIA SUBSTRATE** AND TOP OF TRIM AS SHOWN.
9. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAPPING NOTES:

- **OVERLAPPING SPACING** IS MINIMUM **4"**.
- APPLY 3 LINES OF **APPROVED SEALANT** SPACED **1"** APART.
- USE **SELF SEALING FASTENERS** ON THE FLATS OF THE **3" COMPENSATING GABLE TRIM**.

NOTES:

- **DIMENSION A** IS BASED ON **ROOF PANEL TYPE**

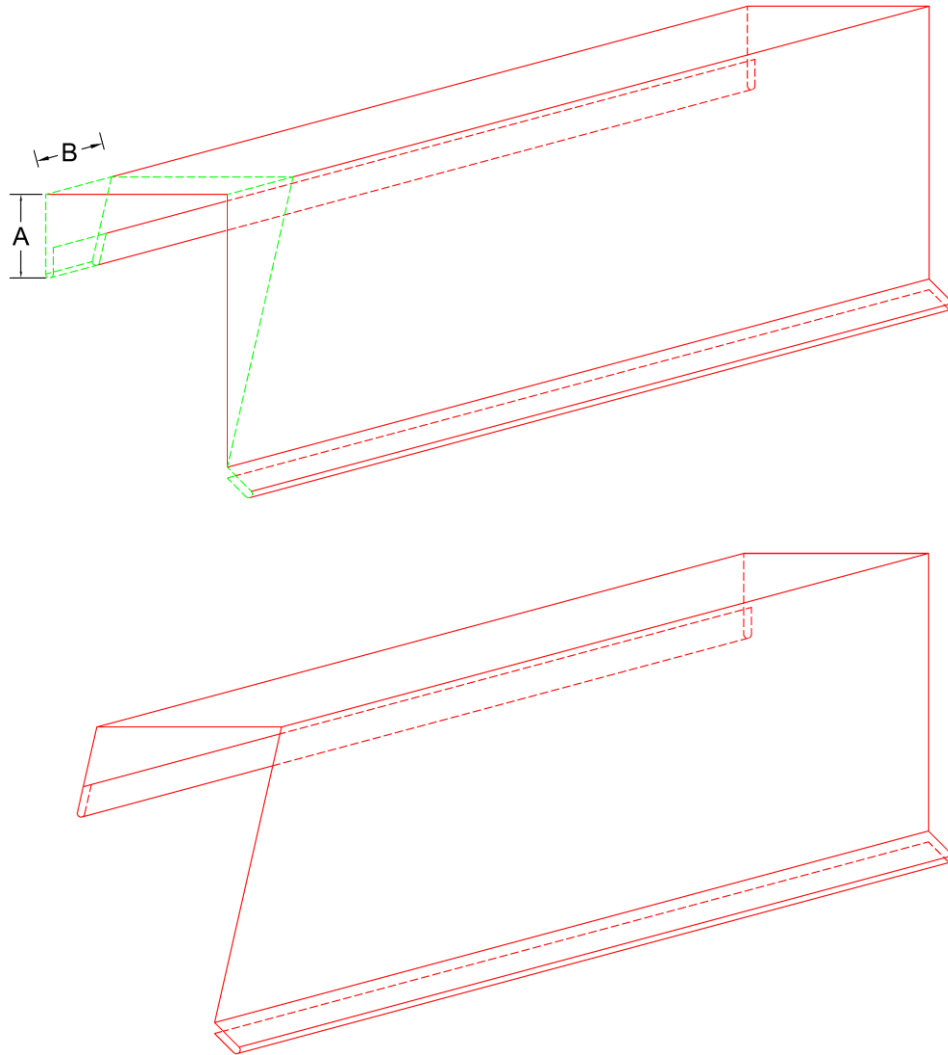
ROOF PANEL TYPE	1.5"	2"
DIMENSION A	1 3/8"	1 7/8"



VANTAGE METAL
WORKS, INC.

MECHANICAL SEAM

GABLE TRIM
3" COMPENSATING



PROCEDURE:

1. CUT ALL **GREEN LINES**.

NOTES:

- **DIMENSION A** IS BASED ON **ROOF PANEL TYPE**.
- **DIMENSION B** IS BASED ON **ROOF PITCH**.

ROOF PANEL TYPE	1.5"	2"
DIMENSION A	1 3/8"	1 7/8"

PITCH	DIMENSION B (INCH)
3:12	1 1/8
4:12	1 1/2
5:12	1 7/8
6:12	2 1/4
7:12	2 5/8
8:12	3
9:12	3 3/8
10:12	3 3/4
11:12	4 1/8
12:12	4 1/2

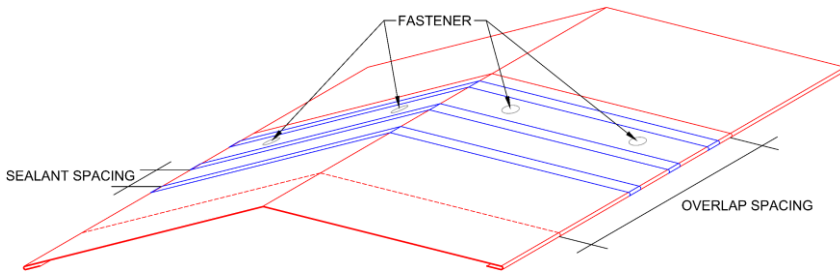


VANTAGE METAL
WORKS, INC.

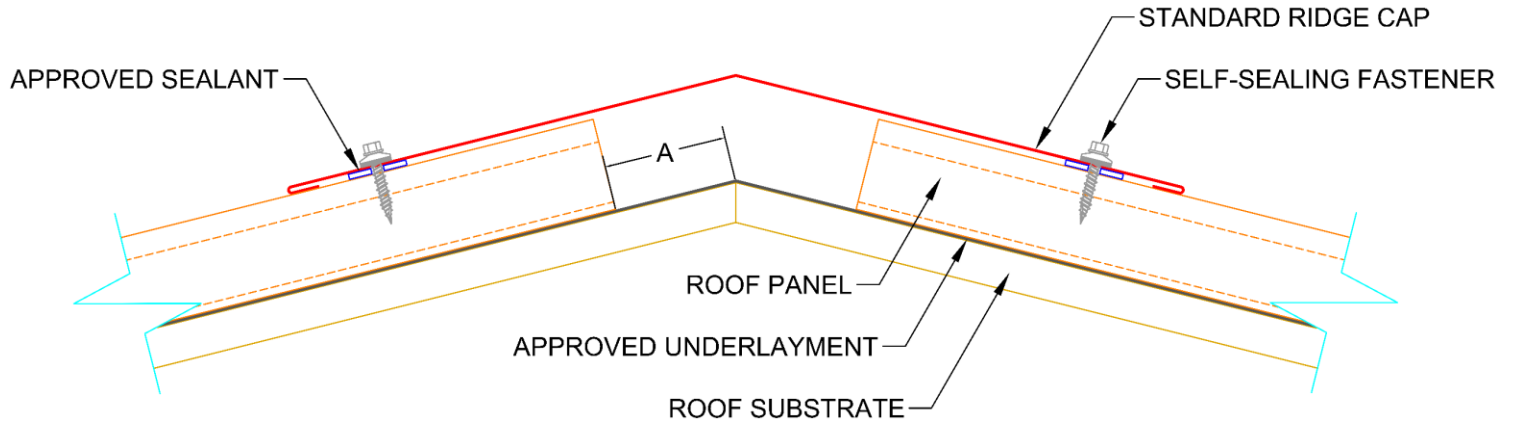
MECHANICAL SEAM

RIDGE CAP STANDARD

OVERLAPING DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **APPROVED UNDERLAYMENT** USING MANUFACTURER'S INSTRUCTION.
3. INSTALL **ROOF PANELS** USING TYPICAL INSTALLATION.
4. INSTALL **STANDARD RIDGE CAP** USING **APPROVED SEALANT** AND **SELF-SEALING FASTENERS, 24" O.C.** ON THE **MAJOR RIBS** OF THE **ROOF PANELS**.
5. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

NOTES:

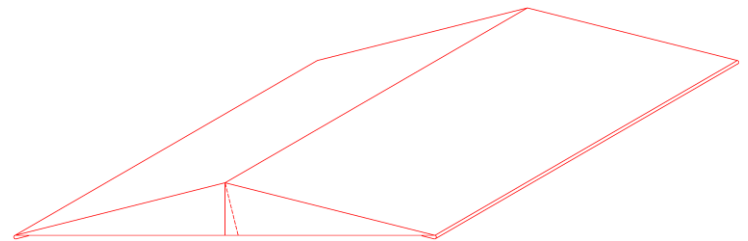
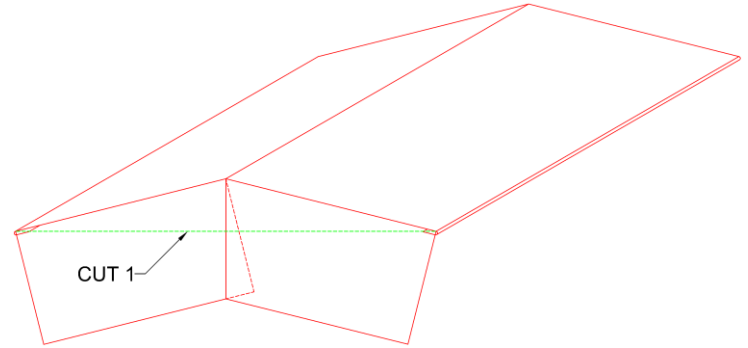
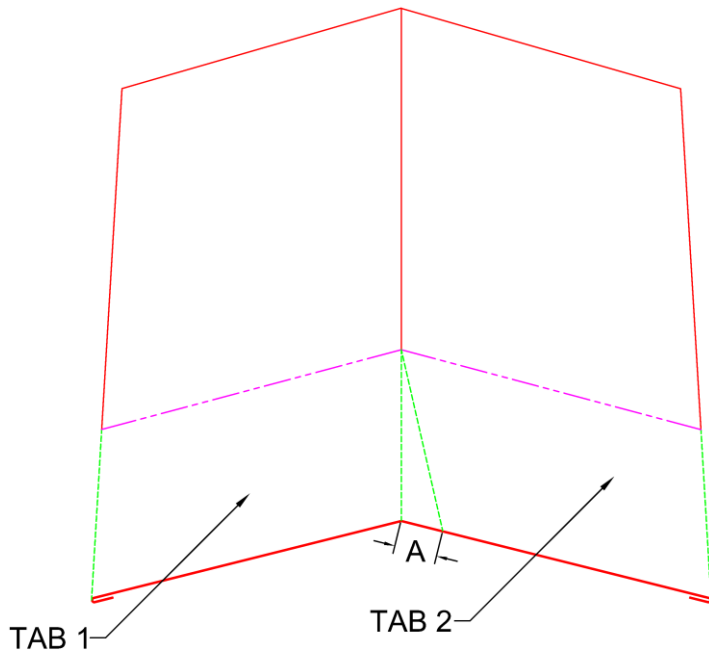
- **DIMENSION A** IS **1 1/2"**.
- **DIMENSION B** IS **MAXIMUM 5"** FROM THE **ROOF PEAK**.



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MECHANICAL SEAM

RIDGE CAP STANDARD



PROCEDURE:

1. CUT ALL **GREEN LINES**.
2. BEND **TAB 1** DOWNWARDS ALONG THE **PURPLE LINE**.
3. BEND **TAB 2** DOWNWARDS ALONG THE **PURPLE LINE**.
4. CUT THE HORIZONTAL **GREEN LINE**.

NOTES:

- **DIMENSION A** IS BASED ON **ROOF PITCH**.

ROOF PITCH	DIMENSION B (INCH)
3:12	1
4:12	1 5/16
5:12	1 11/16
6:12	2
7:12	2 5/16
8:12	2 5/8
9:12	3
10:12	3 5/16
11:12	3 5/8
12:12	3 15/16

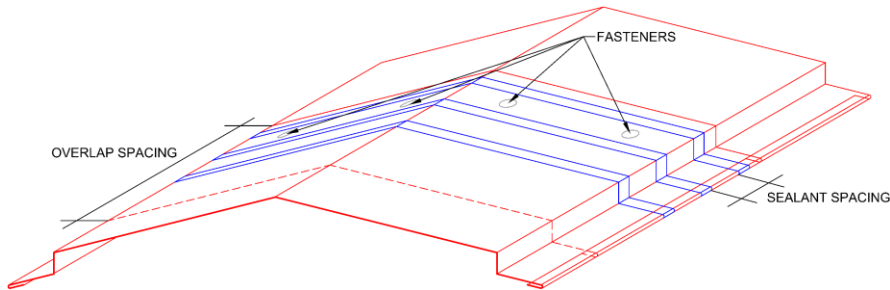


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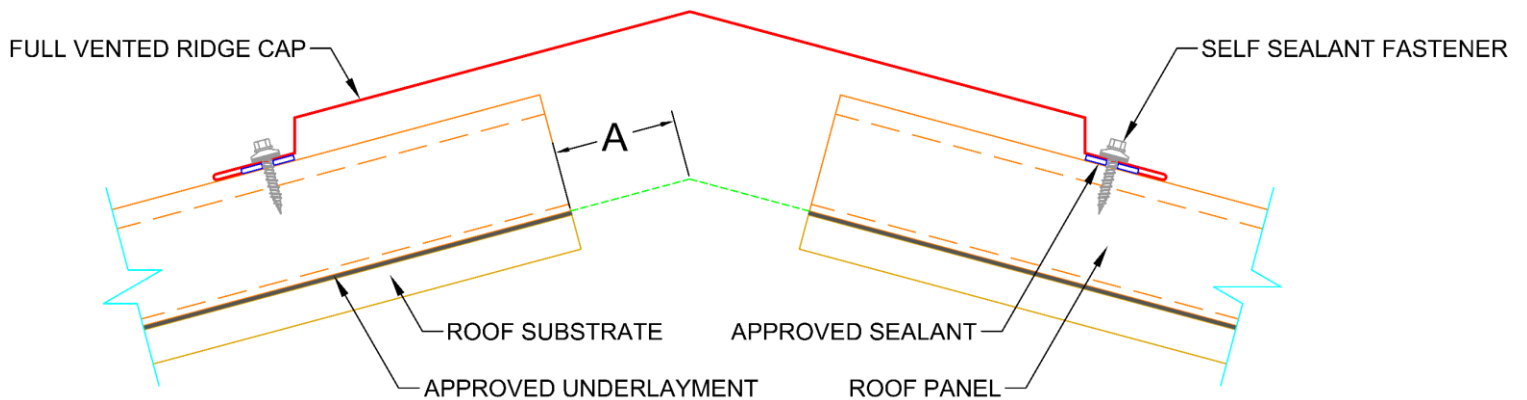
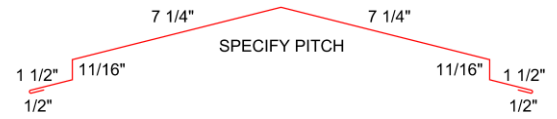
MECHANICAL SEAM

RIDGE CAP FULL VENTED

OVERLAP DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **APPROVED UNDERLAYMENT** USING MANUFACTURER'S INSTRUCTION.
3. INSTALL **ROOF PANELS** USING TYPICAL INSTALLATION.
4. INSTALL **FULL VENTED RIDGE CAP** USING **APPROVED SEALANT** AND **SELF-SEALING FASTENERS, 24" O.C.** ON THE **MAJOR RIBS** OF THE **ROOF PANELS**.
5. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

NOTES:

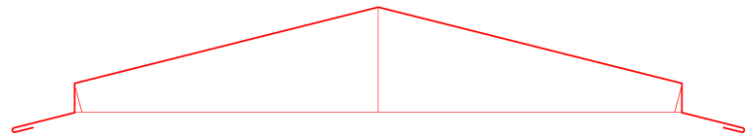
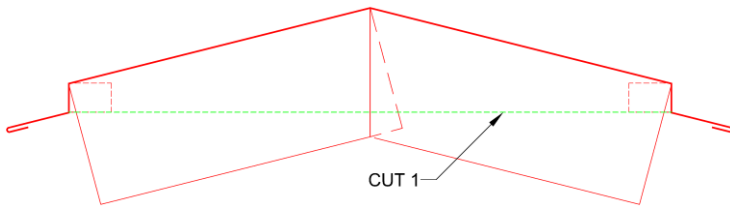
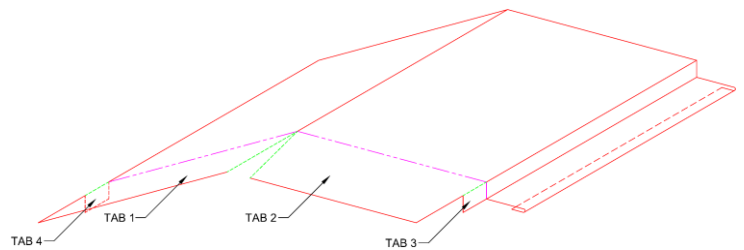
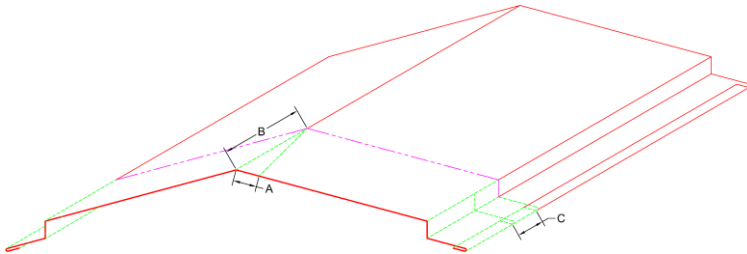
- **DIMENSION A** IS BETWEEN **2"** AND **4"** FROM THE **ROOF PEAK**.



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MECHANICAL SEAM

RIDGE CAP
FULL VENTED



PROCEDURE:

1. CUT ALL **GREEN LINES**.
2. BEND **TAB 3 AND 4** INWARDS ALONG THE **PURPLE LINE**.
3. BEND **TAB 1 AND 2** DOWNWARDS ALONG THE **PURPLE LINE**.
4. **CUT 1** IS A HORIZONTAL CUT ALONG **GREEN LINE**.

NOTES:

- **DIMENSION A** IS BASED ON **ROOF PITCH**.
- **DIMENSION B** IS **3"**.
- **DIMENSION C** IS **1"**.

ROOF PITCH	DIMENSION A (INCH)
3:12	7/8
4:12	1 1/16
5:12	1 1/4
6:12	1 7/16
7:12	1 9/16
8:12	1 11/16
9:12	1 13/16
10:12	1 15/16
11:12	2 1/16
12:12	2 1/8

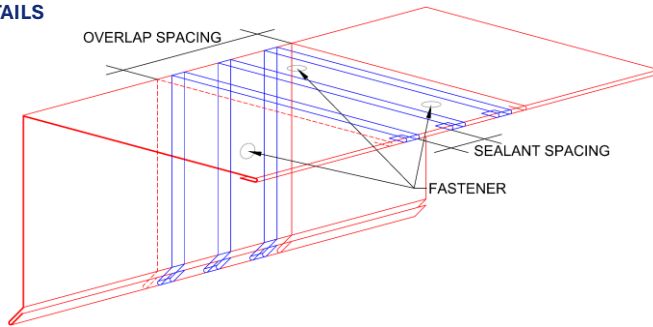


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MECHANICAL SEAM

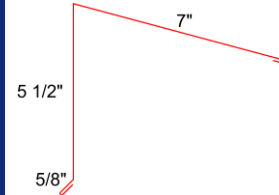
CLERESTORY TRIM STANDARD

OVERLAPING DETAILS

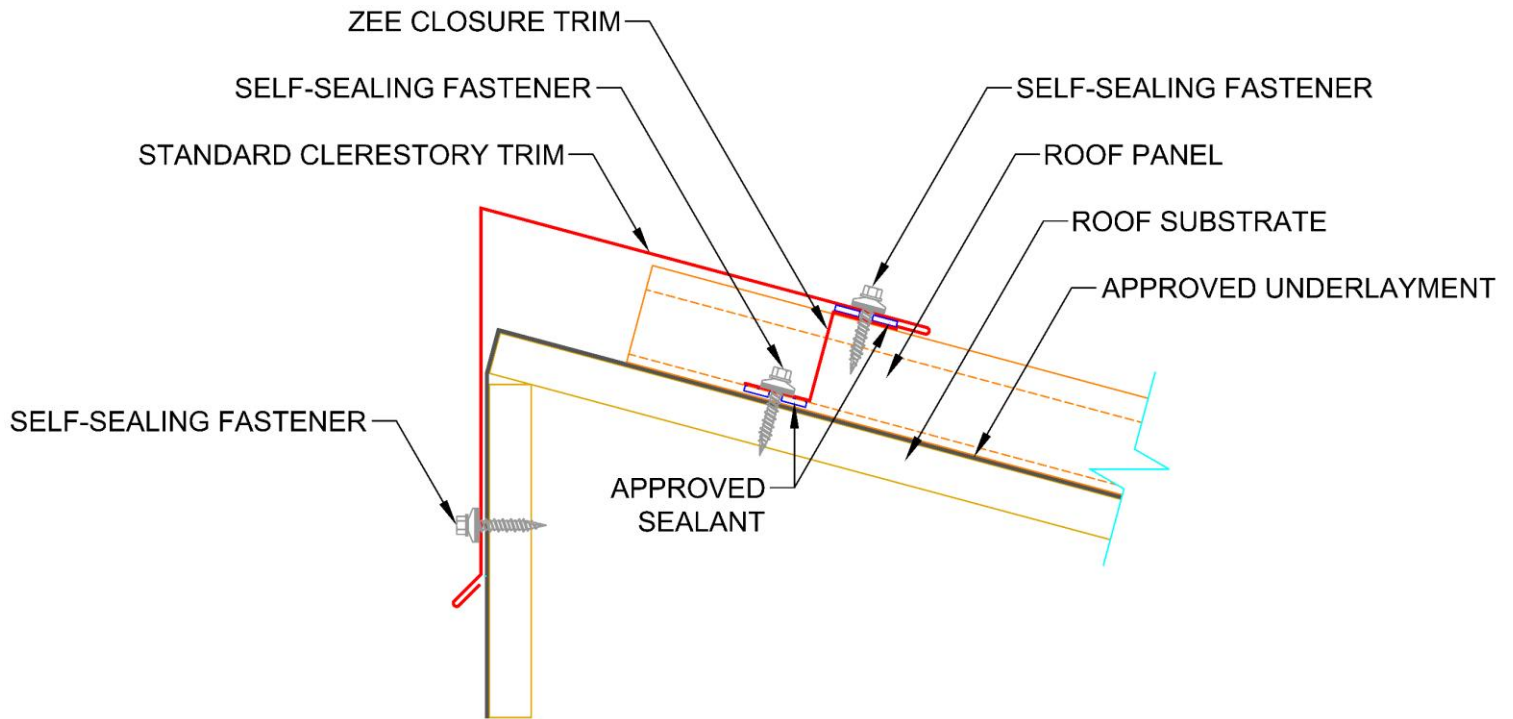
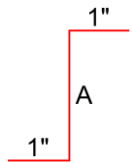


DIMENSIONS

CLERESTORY



ZEE CLOSURE



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **APPROVED UNDERLAYMENT** USING MANUFACTURER'S INSTRUCTIONS.
3. INSTALL **ROOF PANELS** USING TYPICAL INSTALLATION.
4. APPLY **APPROVED SEALANT** BELOW AND ABOVE **ZEE CLOSURE TRIM** AS SHOWN.
5. INSTALL **ZEE CLOSURE TRIM** MAXIMUM 3" FROM **ROOF PEAK** USING **SELF-SEALING FASTENERS** SPACED 24" ALONG TRIM AS SHOWN.
6. INSTALL **STANDARD CLERESTORY TRIM** USING **SELF-SEALING FASTENERS** SPACED 24" ON THE **ZEE CLOSURE TRIM** OR **MAJOR RIBS** OF THE **ROOF PANELS**.
7. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAPPING DETAILS:

- **OVERLAPPING SPACING** IS MINIMUM 4".
- APPLY 3 LINES OF **APPROVED SEALANT** SPACED 1" APART.
- USED **SELF SEALING FASTENERS** ON THE FLATS OF THE TRIM.

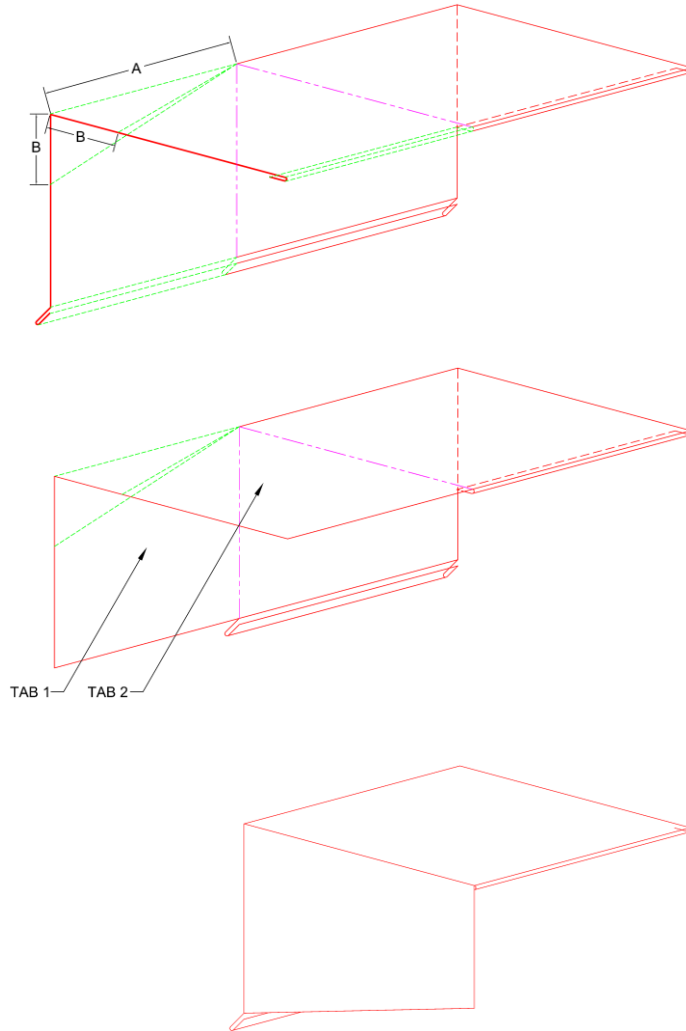
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MECHANICAL SEAM

CLERESTORY TRIM STANDARD



PROCEDURE:

1. CUT ALL **GREEN LINES**.
2. BEND **TAB 1** BACKWARDS ALONG THE **PURPLE LINE**.
3. BEND **TAB 2** DOWNWARDS ALONG THE **PURPLE LINE**.

NOTES:

- **DIMENSION A** IS 5 1/2"
- **DIMENSION B** IS BASED ON **ROOF PITCH**.

PITCH	DIMENSION B (INCH)
3:12	1 3/8
4:12	1 13/16
5:12	2 5/16
6:12	2 3/4
7:12	3 3/16
8:12	3 11/16
9:12	4 1/8
10:12	4 9/16
11:12	5 1/16
12:12	5 1/2

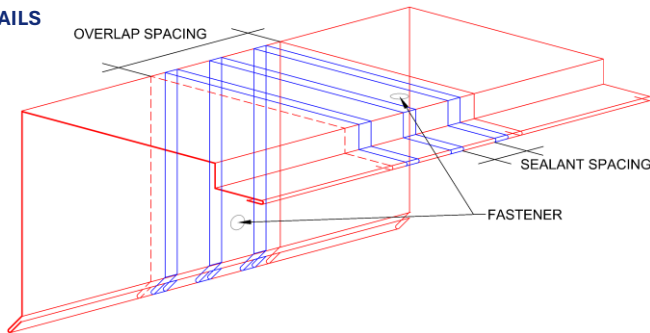


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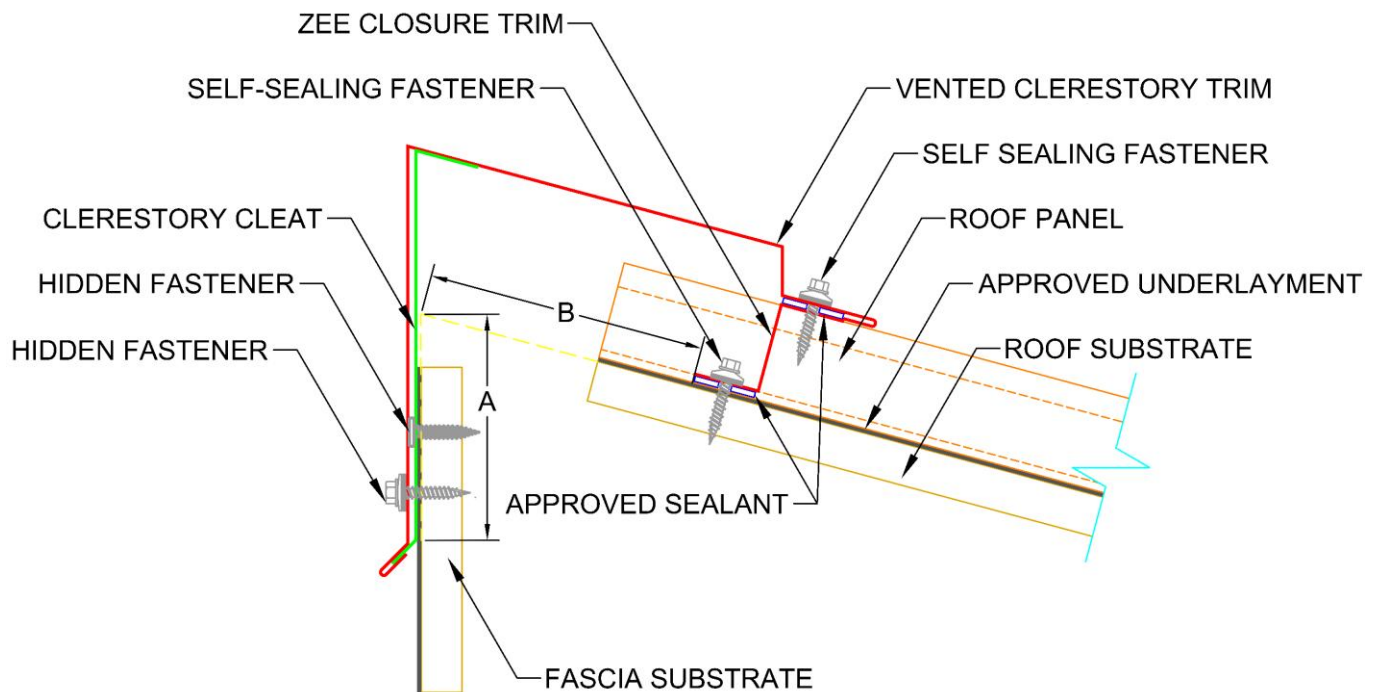
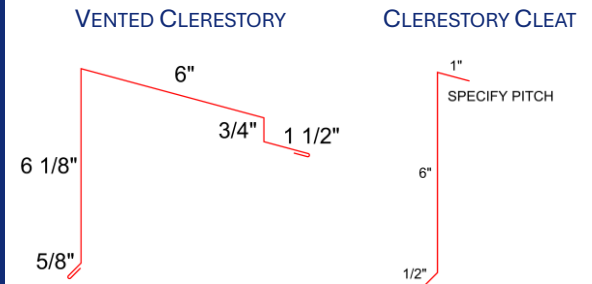
MECHANICAL SEAM

CLERESTORY TRIM VENTED

OVERLAPPING DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **APPROVED UNDERLAYMENT** USING MANUFACTURER'S INSTRUCTIONS.
3. INSTALL **ROOF PANEL** USING TYPICAL INSTALLATION.
4. INSTALL **CLERESTORY CLEAT** USING **HIDDEN FASTENER** SPACED 24" ALONG TRIM INTO **FASCIA SUBSTRATE** AS SHOWN.
5. APPLY 2 LINES OF **APPROVED SEALANT** TO **ZEE CLOSURE TRIM** AS SHOWN. NOTE: THERE ARE 2 LOCATIONS FOR THE **APPROVED SEALANT**.
6. INSTALL **ZEE CLOSURE TRIM** USING **SELF SEALING FASTENER** SPACED 24" INTO **ROOF SUBSTRATE** AS SHOWN.
7. INSTALL **VENTED CLERESTORY TRIM** USING **SELF SEALING FASTENERS** SPACED 24" ALONG TRIM INTO **FASCIA SUBSTRATE**.
 - a. NOTE: THE TAIL OF THE **CLERESTORY CLEAT** INSERTS INTO THE HEM OF THE **VENTED CLERESTORY TRIM**
8. INSTALL **VENTED CLERESTORY TRIM** USING **SELF SEALING FASTENERS** SPACED 24" INTO THE **ZEE CLOSURE TRIM** OR MAJOR RIB OF **ROOF PANEL**.
9. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAPPING DETAILS:

- **OVERLAPPING SPACING** IS MINIMUM 4".
- APPLY 3 LINES OF **APPROVED SEALANT** SPACED 1" APART.
- USED **SELF SEALING FASTENERS** ON THE FLATS OF THE TRIM.

NOTES:

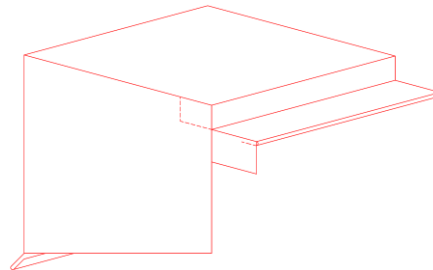
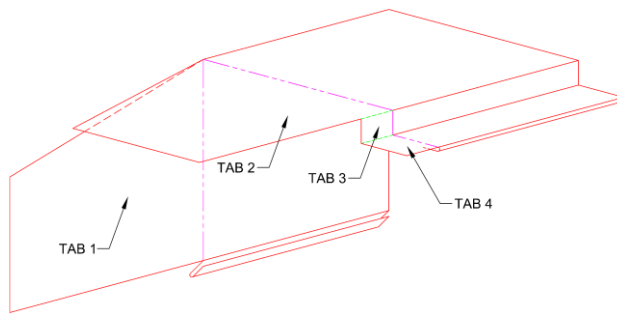
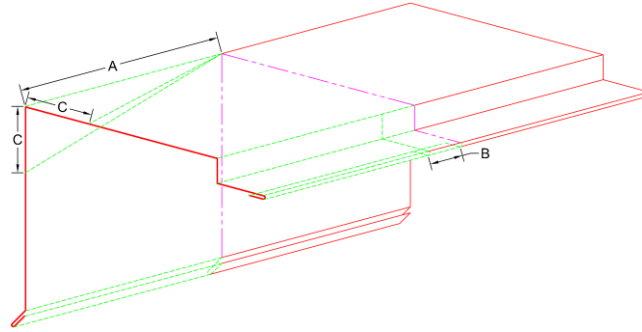
- **DIMENSION A** IS 3 1/2" FROM ROOF PEAK
- **DIMENSION B** IS MAXIMUM 4"



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MECHANICAL SEAM

CLERESTORY TRIM
VENTED



PROCEDURE:

1. CUT ALL **GREEN LINES**.
2. BEND **TAB 1 AND 3** INWARDS ALONG THE **PURPLE LINE**.
3. BEND **TAB 2 AND 4** DOWNWARDS ALONG THE **PURPLE LINE**.

NOTES:

- **DIMENSION A** IS 5 1/2"
- **DIMENSION B** IS 1"
- **DIMENSION C** IS BASED ON **ROOF PITCH**.

PITCH	DIMENSION C (INCH)
3:12	1 3/8
4:12	1 13/16
5:12	2 5/16
6:12	2 3/4
7:12	3 3/16
8:12	3 11/16
9:12	4 1/8
10:12	4 9/16
11:12	5 1/16
12:12	5 1/2

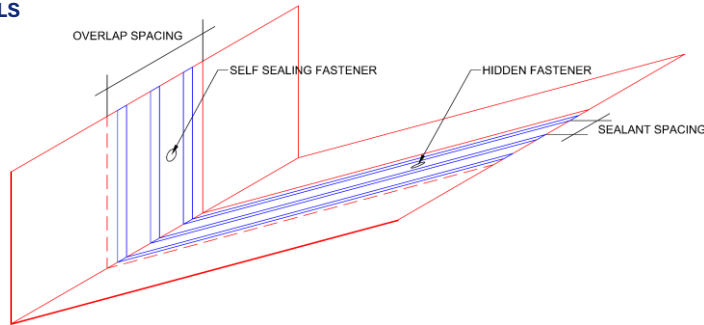


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MECHANICAL SEAM

TOP PAN TRIM

OVERLAPING DETAILS

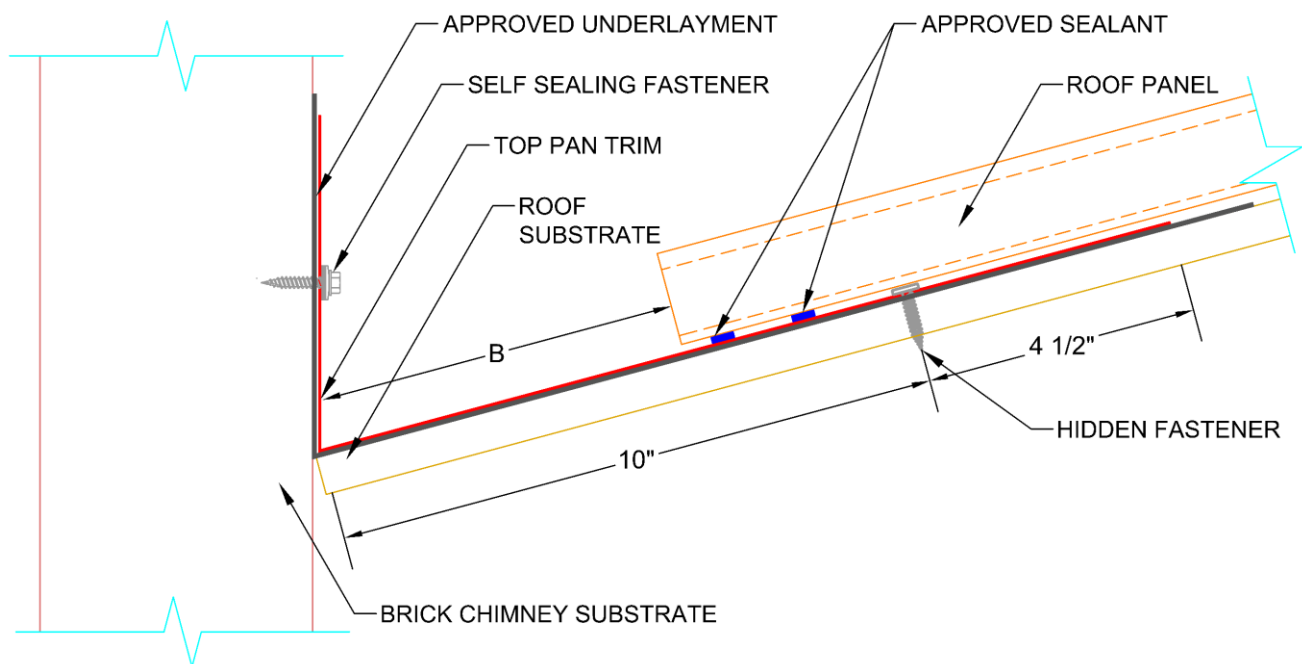


DIMENSIONS

5 1/2"

14 1/2"

SPECIFY PITCH



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **APPROVED UNDERLAYMENT** USING MANUFACTURER'S INSTRUCTIONS.
3. INSTALL **TOP PAN TRIM** USING **SELF SEALING FASTENERS** SPACED **24"** ALONG THE TOP, **1"** OF THE TRIM.
4. ADDITIONALLY, USE **HIDDEN FASTENERS** SPACED **24"** ALONG THE LOWER LEG OF TRIM, **1"** FROM HEM EDGE.
5. APPLY 2 ROWS OF **APPROVED SEALANT** SPACED **1"** APART ALONG LOWER EDGE OF **ROOF PANEL** AS SHOWN..
6. INSTALL **ROOF PANELS** USING TYPICAL INSTALLATION.
7. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAP NOTES:

- **OVERLAP SPACING** IS MINIMUM 4".
 - APPLY 3 ROWS OF **APPROVED SEALANT** SPACED 1" APART CENTERED ON THE OVERLAP.
 - USE **SELF SEALING FASTENER** CENTERED ON THE VERTICAL LEG OF THE TRIM.
1. USE HIDDEN FASTENERS 1" FROM LOWER LEG HEM AS SHOWN.

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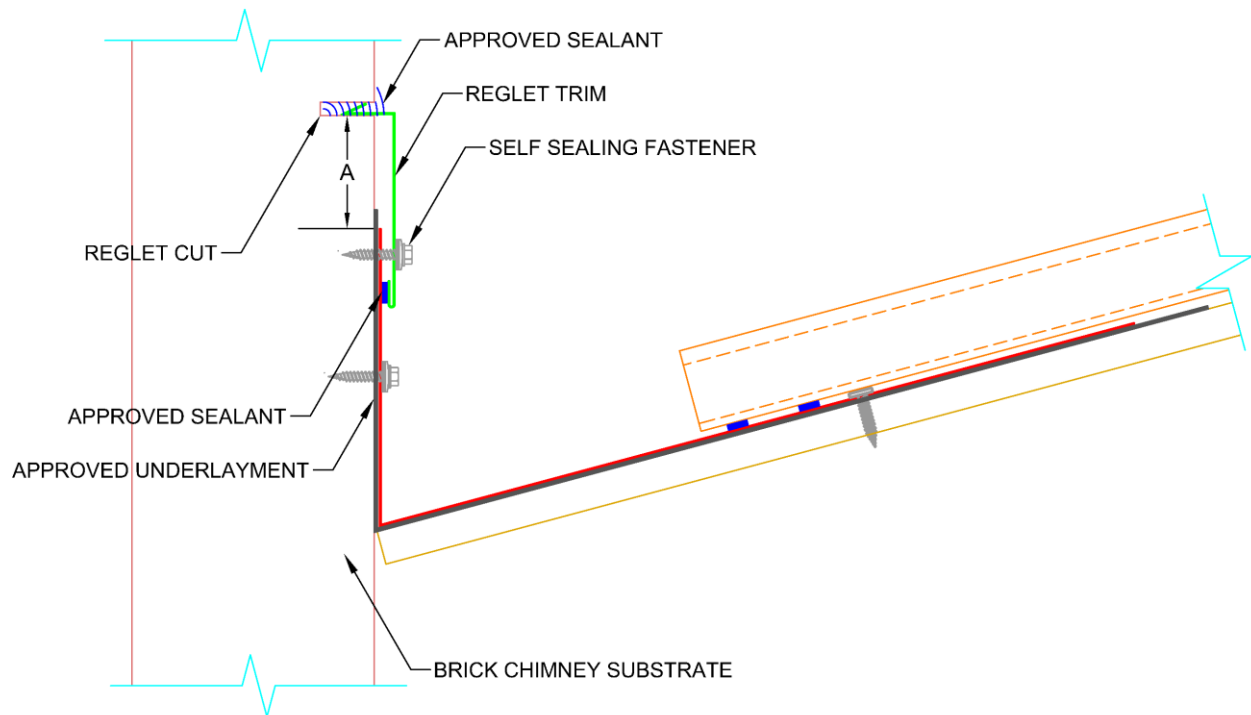
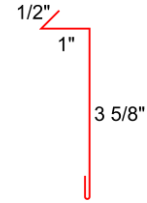
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MECHANICAL SEAM

TOP PAN WITH REGLET TRIM

OVERLAPING DETAILS

DIMENSIONS



PROCEDURES:

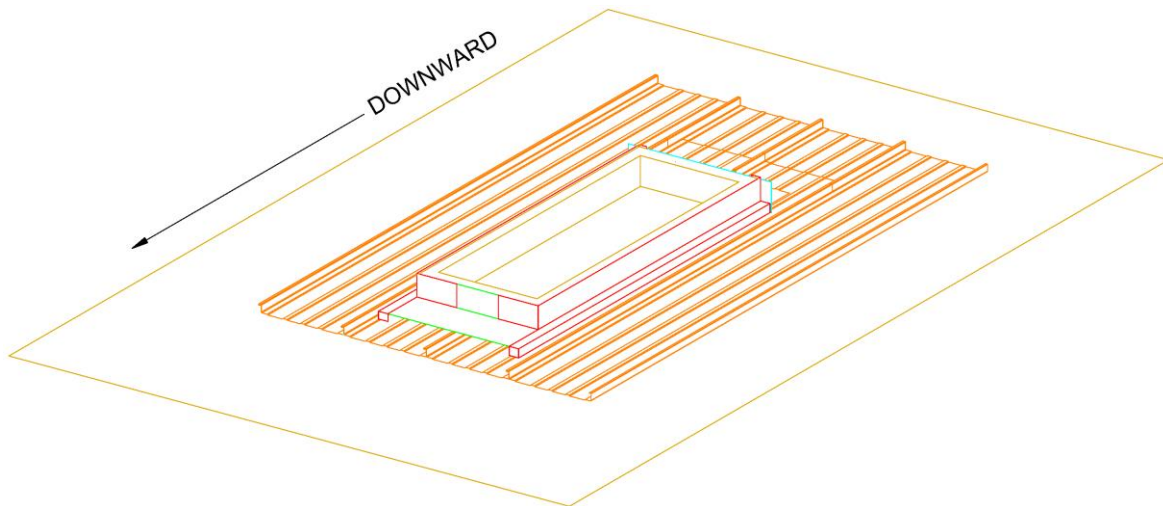
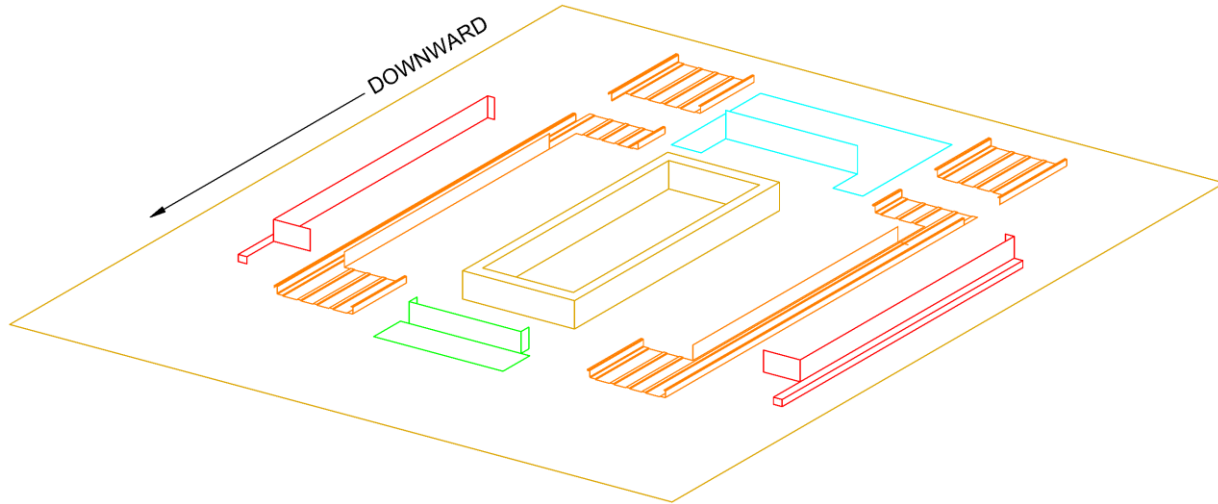
1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL TOP PAN TRIM USING TYPICAL INSTALLATION.
3. INSTALL ROOF PANEL USING TYPICAL INSTALLATION.
4. CUT AND CLEAN OUT **REGLET CUT. 1" DEEP AND 1/4" THICK.**
 - a. MAKE CUT APPROXIMATELY **1"** FROM LOWER TRIM BEING COVERED, I.E. **TOP PAN, SIDEWALL, ENDWALL, ETC.**
5. APPLY MINIMUM **1/2"** DEEP **APPROVED SEALANT** INTO **REGLET CUT.**
6. APPLY **APPROVED SEALANT** TO **REGLET TRIM'S** HEM AS SHOWN.
7. INSTALL **REGLET TRIM** INTO **REGLET CUT** USING **SELF SEALING FASTENERS** SPACED **24"** CENTERED ON LOWER LEG OF TRIM.
8. FILL THE REST OF THE **REGLET CUT** WITH **APPROVED SEALANT.** ENSURE NO WATER CAN SIT INSIDE THE **REGLET CUT.**
9. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.



VANTAGE METAL
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MECHANICAL SEAM

CHIMNEY SKYLIGHT OVERVIEW

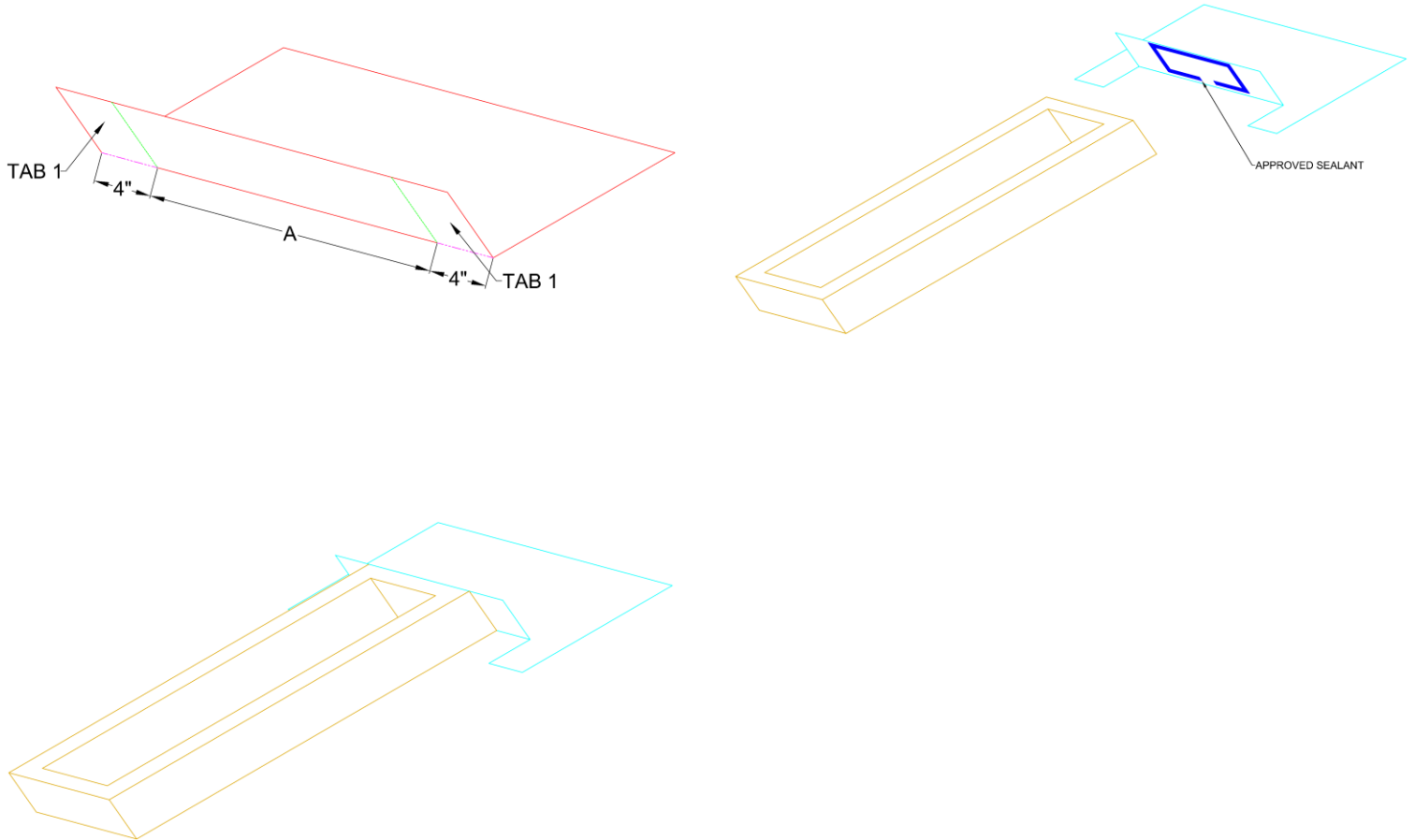




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MECHANICAL SEAM

CHIMNEY SKYLIGHT TOP PAN



PROCEDURES:

1. CUT ALL GREEN LINES
2. BEND TAB 1 DOWNWARD.
3. APPLY 1 LINE OF **APPROVED SEALANT** AS SHOWN.

NOTES:

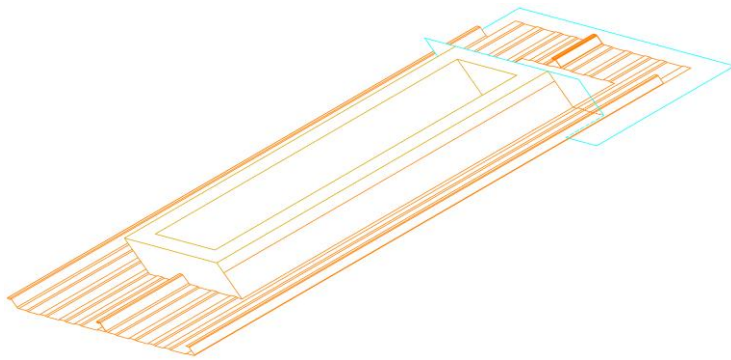
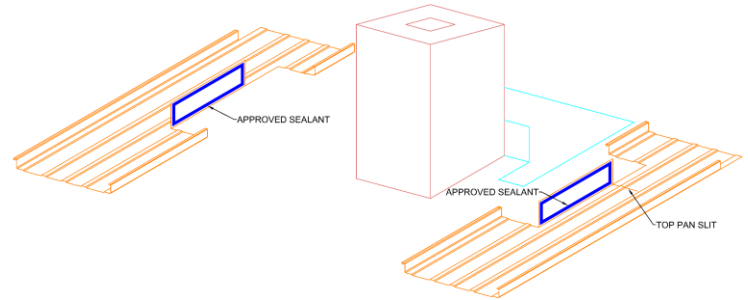
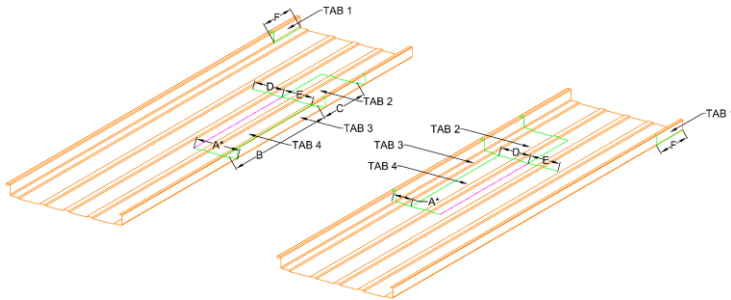
- **DIMENSION A** IS THE WIDTH OF SKYLIGHT **PLUS 4"** EACH SIDE.



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MECHANICAL SEAM

CHIMNEY LOWER ROOF PANELS



PROCEDURES:

1. CUT ALL GREEN LINES.
2. REMOVE **TAB 1, 2, AND 3.**
3. BEND **TAB 4** UPWARD.
4. APPLY 1 LINE OF **APPROVED SEALANT** AS SHOWN.
5. INSTALL **ROOF PANEL** USING TYPICAL INSTALLATION. SLIDE THE **TOP PAN** INTO **TOP PAN SLIT.**

NOTES:

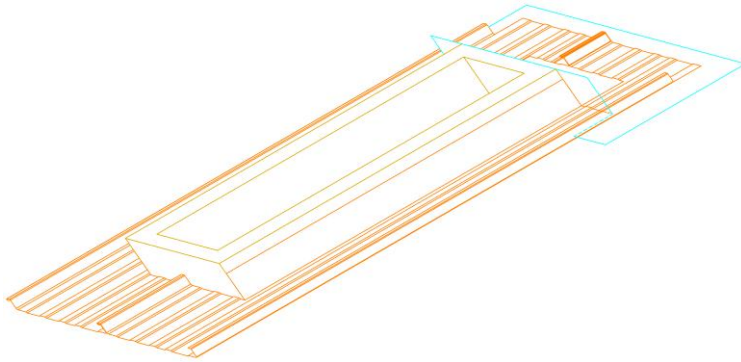
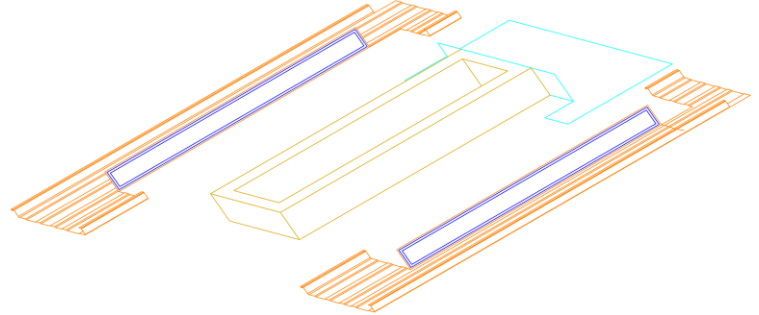
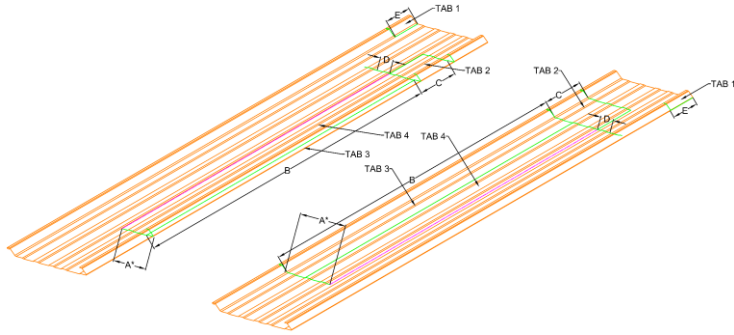
- **DIMENSION A*** IS THE WIDTH OF THE **SKYLIGHT** WITH **ROOF PANEL** OVERLAP.
- **DIMENSION B** IS LENGTH OF THE **SKYLIGHT.**
- **DIMENSION C** IS **6"**.
- **DIMENSION D** IS **4"**. THIS IS ALSO THE **TOP PAN SLIT.**
- **DIMENSION E** IS BETWEEN **4"** AND **5"**.
- **DIMENSION F** IS **4"**.



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MECHANICAL SEAM

SKYLIGHT LOWER ROOF PANELS



PROCEDURES:

1. CUT ALL GREEN LINES.
2. REMOVE **TAB 1, 2, AND 3.**
3. BEND **TAB 4** UPWARD.
4. APPLY 1 LINE OF **APPROVED SEALANT** AS SHOWN.
5. SLIDE THE **TOP PAN** INTO **TOP PAN SLIT**.
6. INSTALL **LOWER ROOF PANEL** USING TYPICAL INSTALLATION.

NOTES:

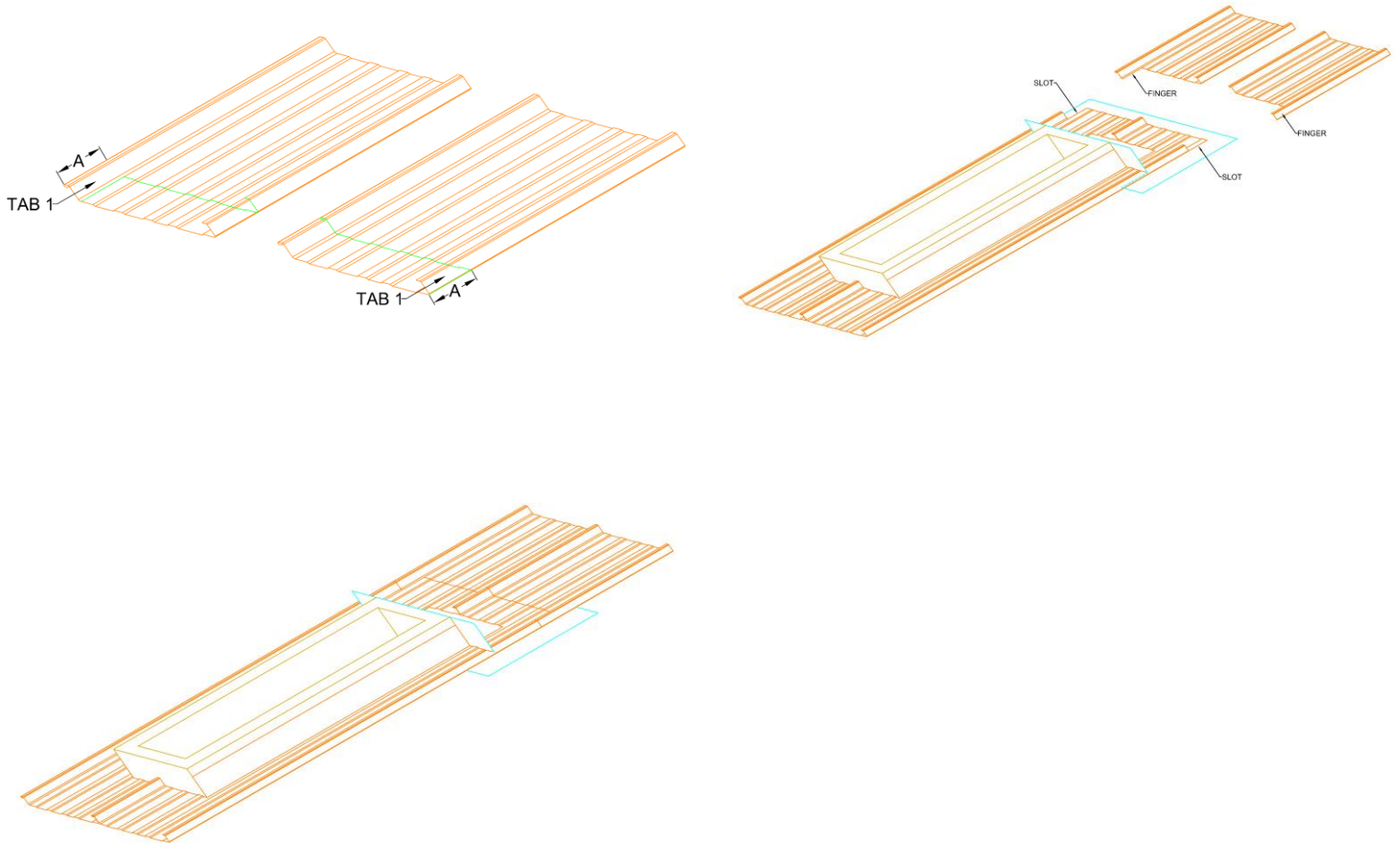
- **DIMENSION A*** IS THE WIDTH OF THE **SKYLIGHT** WITH **ROOF PANEL** OVERLAP.
- **DIMENSION B** IS LENGTH OF THE **SKYLIGHT**.
- **DIMENSION C** IS **6"**.
- **DIMENSION D** IS **4"**. THIS IS ALSO THE **TOP PAN SLIT**.
- **DIMENSION E** IS BETWEEN **4"** AND **5"**.
- **DIMENSION F** IS **4"**.



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MECHANICAL SEAM

CHIMNEY SKYLIGHT
UPPER ROOF PANELS



PROCEDURES:

1. CUT ALL **GREEN LINES**.
2. CONNECT THE **FINGER** INTO **SLOT**.
3. INSTALL **UPPER ROOF PANELS** USING TYPICAL INSTALLATION

NOTES:

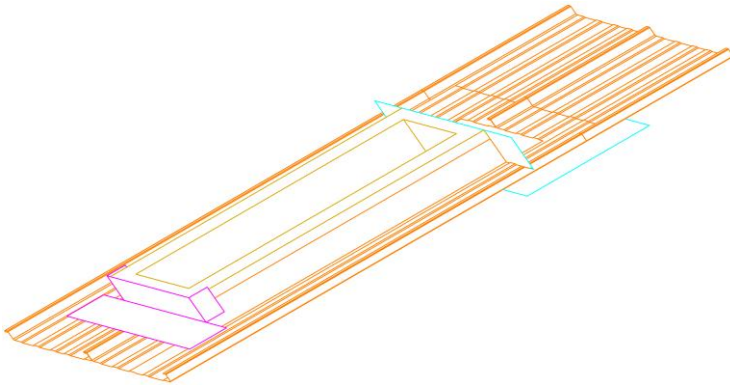
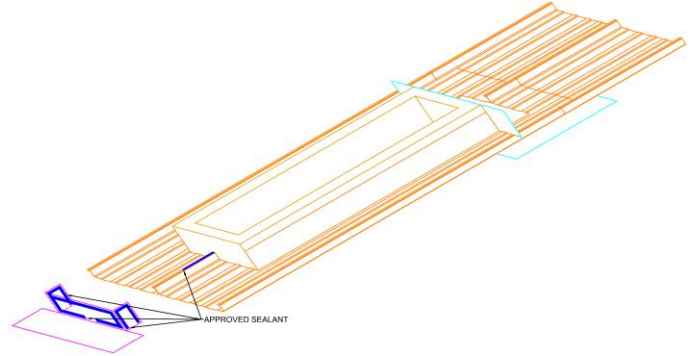
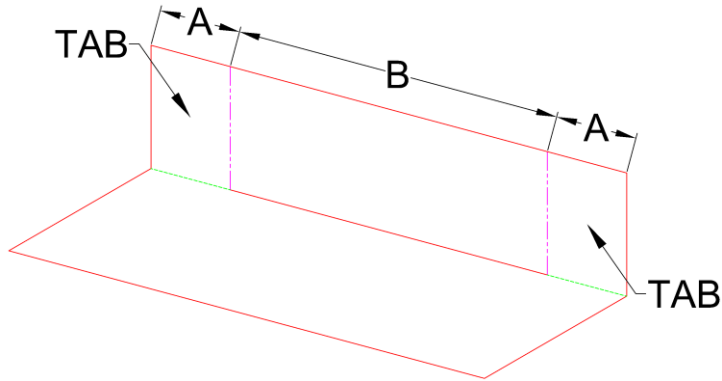
- **DIMENSION A IS 4"**.



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MECHANICAL SEAM

CHIMNEY SKYLIGHT ENDWALL



PROCEDURES:

1. CUT ALL **GREEN LINES**.
2. BEND **TABS** BACKWARDS ALONG **PURPLE LINES**.
3. APPLY 1 LINE OF **APPROVED SEALANT** ON **ENDWALL TRIM** AS SHOWN.
4. APPLY 1 LINE OF **APPROVED SEALANT** ON TOP OF ANY **MAJOR RIB**.
5. INSTALL **ENDWALL TRIM** USING TYPICAL INSTALLATION

NOTES:

- **DIMENSION A** IS BASED ON THE TYPE OF **SIDEWALL TRIM** BEING USED.

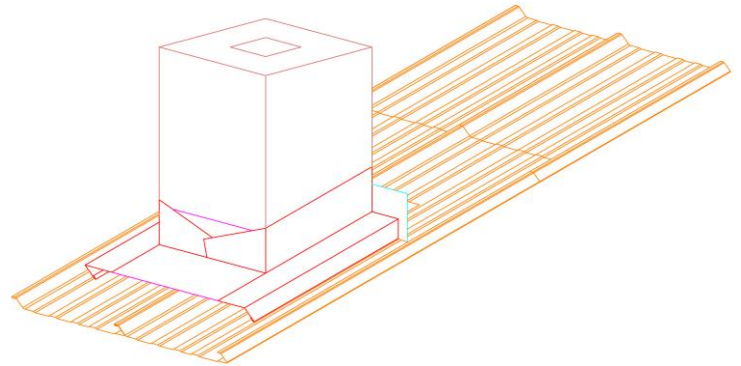
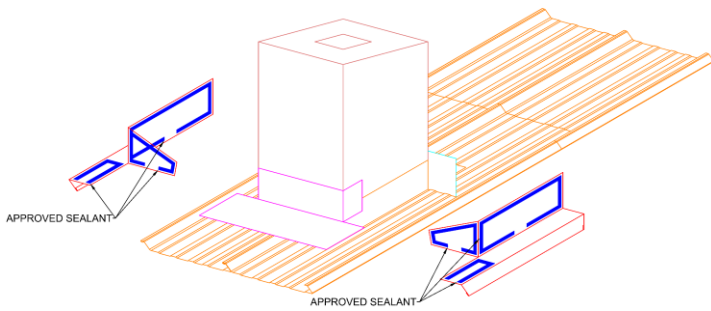
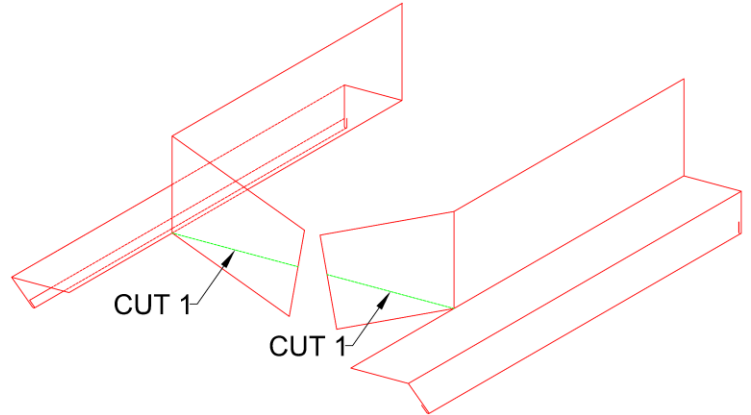
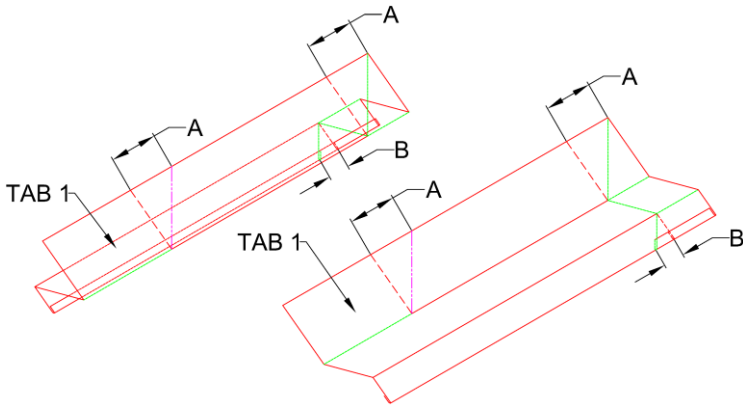
	STANDARD	3" COMPENSATING
DIMENSION A	1 3/4"	3"



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MECHANICAL SEAM

CHIMNEY SIDEWALL



PROCEDURES::

1. CUT ALL **GREEN LINES**.
2. BEND **TAB 1** BACKWARDS.
3. CUT 1 IS HORIZONTAL CUT.
4. APPLY **APPROVED SEALANT** AS SHOWN.
5. INSTALL **SIDEWALL TRIM** USING TYPICAL INSTALLATION .

DIMENSION A

PITCH	DIMENSION A
3:12	1 11/16"
4:12	1 5/16"
5:12	1 11/16"
6:12	2"
7:12	2 3/19"
8:12	2 1/8"
9:12	2 11/16
10:12	2 15/16
11:12	3 1/8
12:12	3 1/4

DIMENSION B

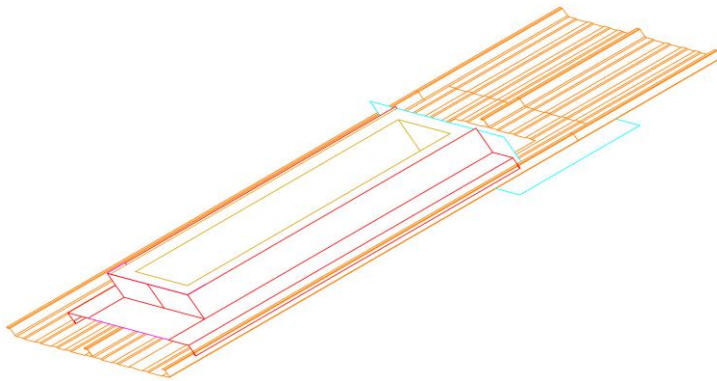
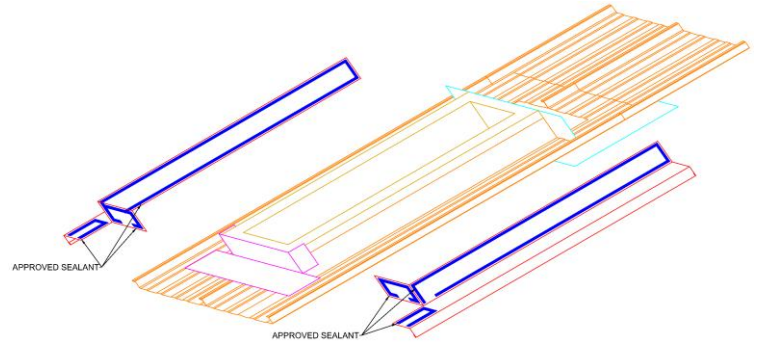
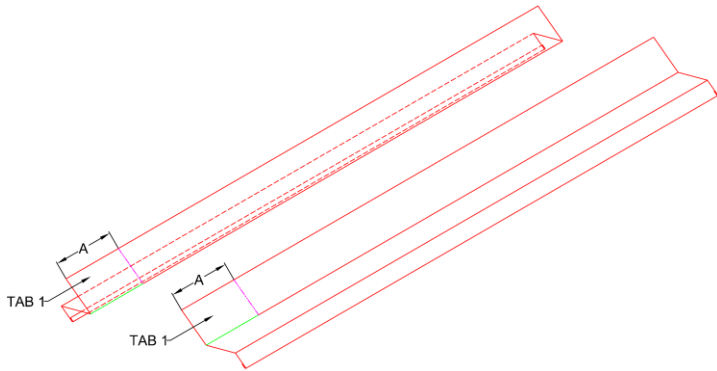
PITCH	1.5" PANEL	2" PANEL
3:12	5/16"	7/16"
4:12	7/16"	9/16"
5:12	9/16"	3/4"
6:12	5/8"	7/8"
7:12	11/16"	1"
8:12	13/16"	1 1/8"
9:12	7/8"	1 3/16"
10:12	15/16"	1 5/16"
11:12	1"	1 3/8"
12:12	1 1/16"	1 7/16"



VANTAGE METAL
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MECHANICAL SEAM

SKYLIGHT
SIDEWALL



PROCEDURES:

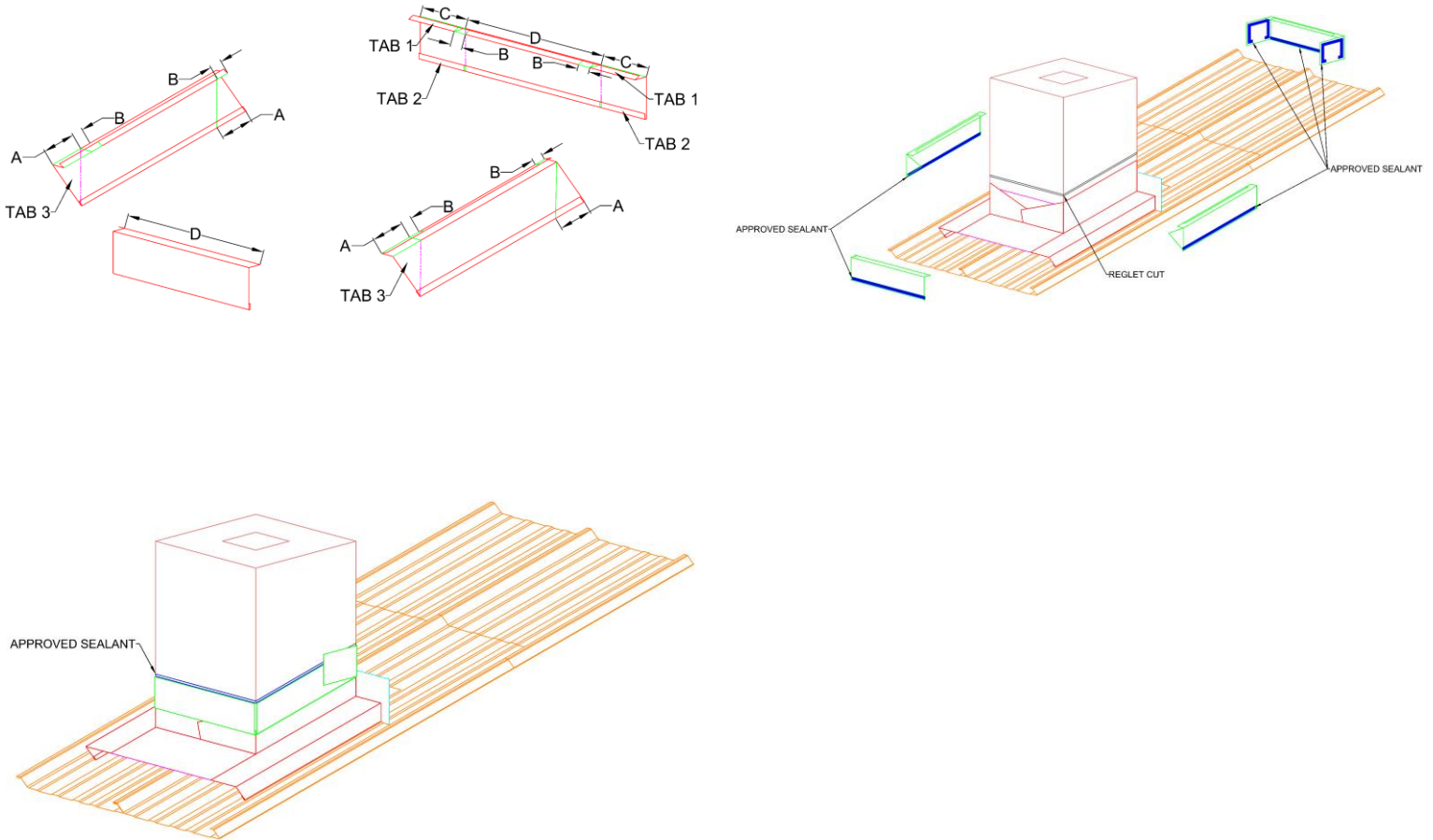
1. CUT ALL **GREEN LINES**.
2. BEND **TAB 1** BACKWARDS.
3. APPLY **APPROVED SEALANT** AS SHOWN.
4. INSTALL **SIDEWALL TRIM** USING TYPICAL INSTALLATION.



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MECHANICAL SEAM

CHIMNEY REGLET



PROCEDURES:

1. CUT ALL **GREEN LINES**.
2. REMOVE **TAB 1** AND THE **HEM (TAB 2)**
3. BEND **TAB 3** BACKWARDS.
4. CUT **REGLET CUT** INTO **CHIMNEY 1"** ABOVE LOWER TRIMS.
5. INSTALL REGLET TRIM USING TYPICAL INSTALLATION IN ORDER: LOWER, SIDES, THEN UPPER.

NOTES:

- **DIMENSION A** IS BASED ON **ROOF PITCH**.
- **DIMENSION B** IS **1"** FOR OVERLAPS.
- **DIMENSION C** IS **4"**.
- **DIMENSION D** IS THE WIDTH OF THE **CHIMNEY**.

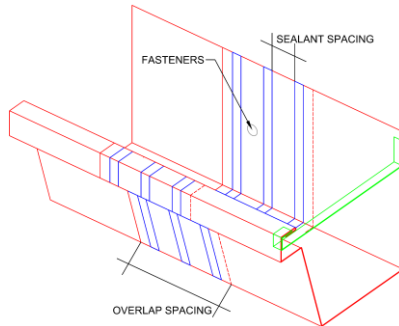


VANTAGE METAL
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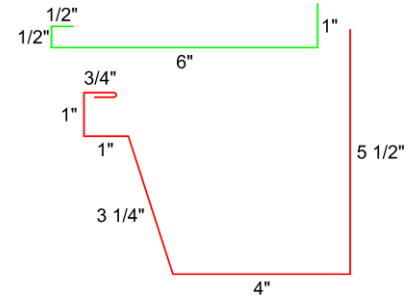
MECHANICAL SEAM

BOX GUTTER W HANGER

OVERLAPING DETAILS



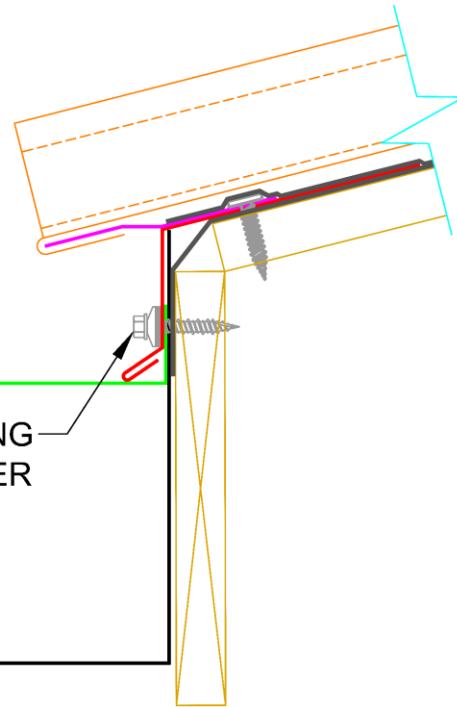
DIMENSIONS



GUTTER HANGER TRIM

BOX GUTTER TRIM

SELF-SEALING
FASTENER



PROCEDURES:

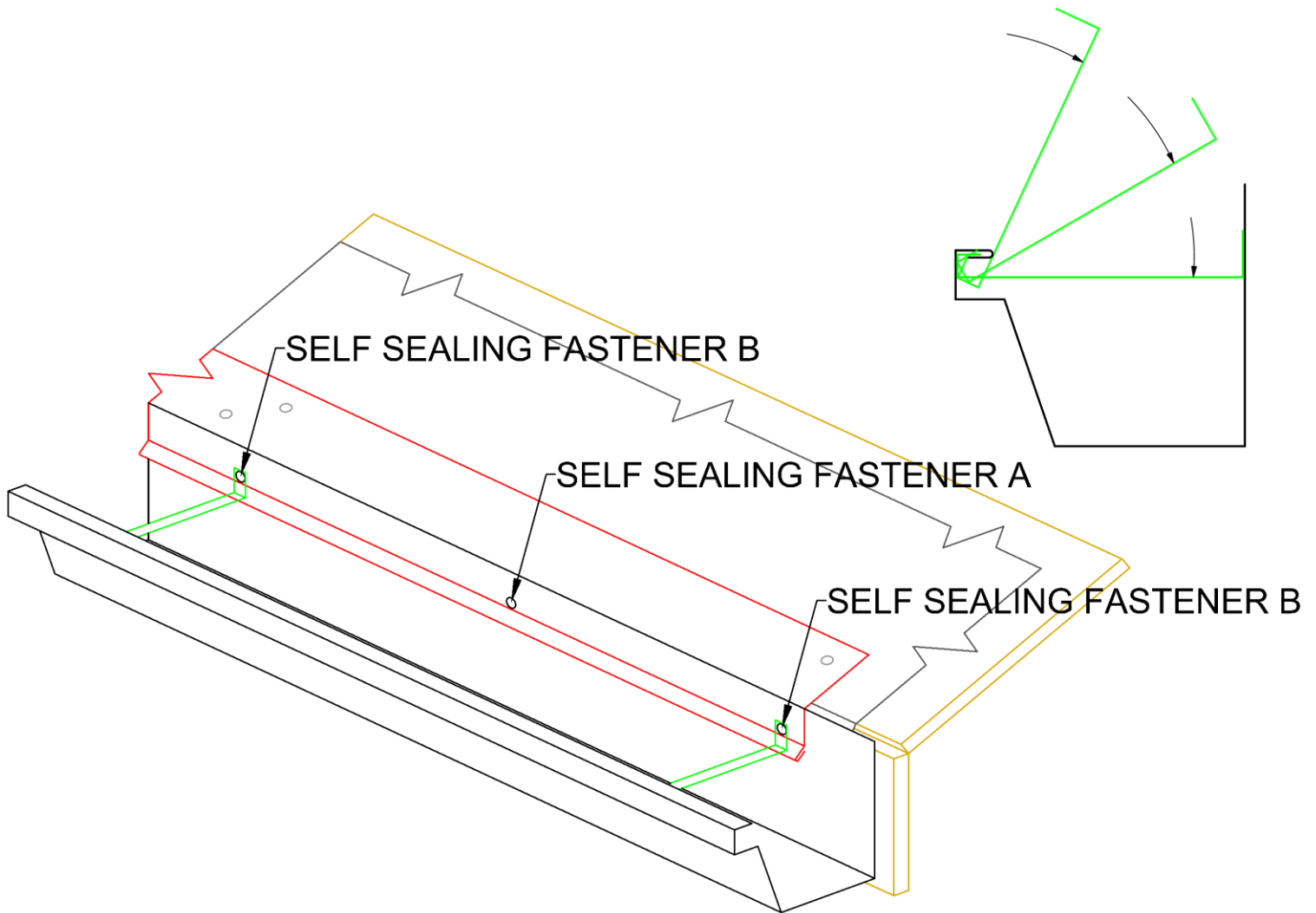
1. CLEAN AND PREP THE INSTALLATION SITE
2. INSTALL **APPROVED UNDERLAYMENT** USING MANUFACTURER'S INSTRUCTIONS.
3. INSTALL **BOX GUTTER TRIM**, SLIDING BEHIND **EAVE TRIM**.
 - a. USE **SELF SEALING FASTENER** SPACED 24" THROUGH **EAVE TRIM** AS SHOWN.
4. INSTALL **GUTTER HANGER TRIM** SPACED 24" THROUGH **EAVE TRIM** AS SHOWN.
5. INSTALL **ROOF PANEL** USING TYPICAL INSTALLATION.
6. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALLATION . REMOVE ALL **SWarf**: CLIPPINGS, FILINGS, SHAVINGS, TRIMMINGS, ETC.



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MECHANICAL SEAM

BOX GUTTER W HANGER



PROCEDURES:

- INSTALL **BOX GUTTER TRIM**, SLIDING BEHIND **EAVE TRIM**.
 - USE **SELF SEALING FASTENER A** SPACED **24"** THROUGH **EAVE TRIM** AS SHOWN.
- INSTALL **GUTTER HANGER TRIM** SPACED **24"** THROUGH **EAVE TRIM** AS SHOWN.
 - PLACE EDGE OF **GUTTER HANGER TRIM** UNDER **BOX GUTTER TRIM'S** LIP.
 - ROTATING DOWN AND OUT UNTIL **HANGER** SLIDES INTO **BOX GUTTER'S** HEM.
 - USE **SELF SEALING FASTENER B** SPACED **24"** THROUGH **EAVE TRIM** AND **BOX GUTTER TRIM**.