

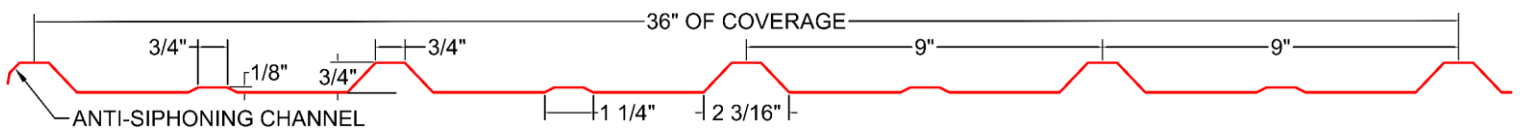


VANTAGE METAL
WORKS, INC.

INSTALLATION GUIDE

DELTA RIB AND TUFF RIB EXPOSED FASTENER FLASHING (12FT 2IN)

DELTA RIB



TUFF RIB

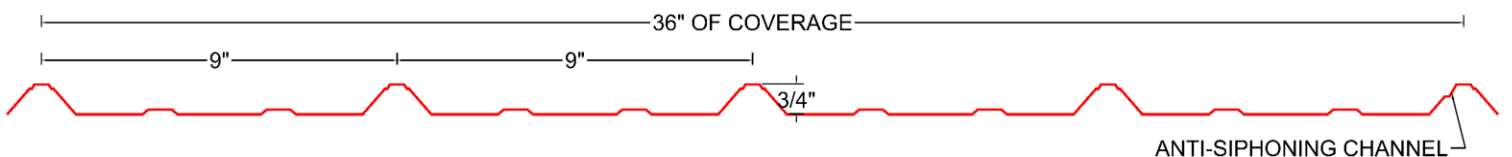


Table of Contents

General Information	2
Guide Information	2
Claims	2
Returns	2
Pre-Installation Prep	3
Storage	3
Handling	3
Foot traffic	3
Installation Safety	3
Field Cutting Panels	3
Roof Preparation	3
Panel Installation	5
Fastener Installation	5
Fastener Selection Guide	6
Self Sealing Fasteners	6
Hidden Fasteners	7
Panel Information	8
Panel Installation	8
Panel Details	8
PANEL AND TRIM INDEX	9
ROOF AND SIDING PANELS	9
EAVE TRIMS	9
W-VALLEY TRIMS	9
WALL TRIMS	10
Roof Pitch Change Trim	10
Gable Trims	10
RIDGE CAPS	11
CLERESTORY TRIM	11
ROOF ACCESSORY TRIMS	12
Chimney and Skylight Assembly	13
Siding Accessory Trims	15
Corner Trims	16
Track Covers	17
Panel And Trim Installation Guides	18

General Information

Guide Information

This installation guide is a reference tool for the installation of Tuff Rib or Delta Rib 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

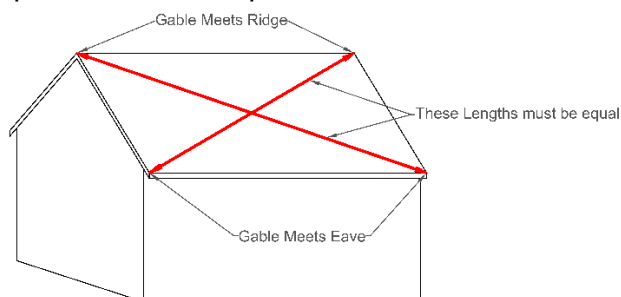
Safety should be a major concern in any installation. Personal Protective Equipment and Fall Protection should be always used. Always be aware of your surroundings and your coworkers. Assume all metal edges are sharp and use gloves. Never install metal roofing during stormy days. Metal materials are 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!

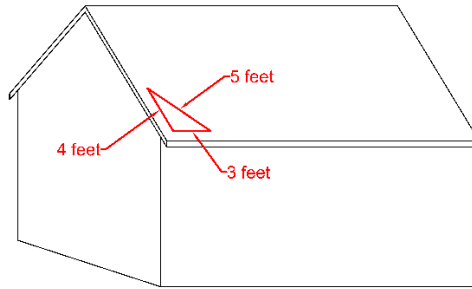
Roof Preparation

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.

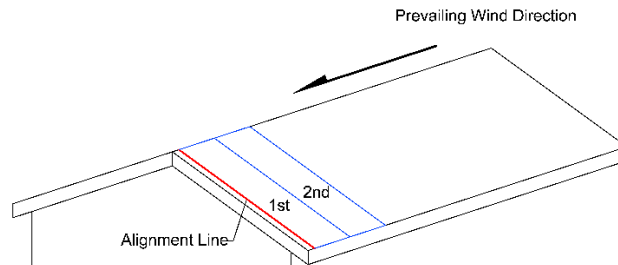
After squareness has been achieved, all necessary penetrations must be cut prior to metal roof installation. This includes, but is not limited to ridge vents, plumbing vents, and electrical conduits. If the installation includes ridge venting, make sure that there is a 2-inch gap from the roof ridge. 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.

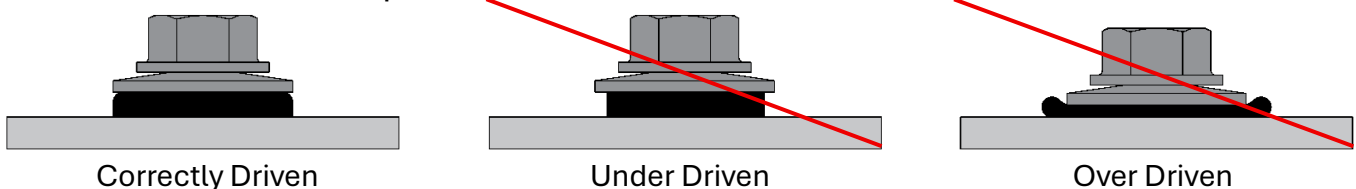


Scribe an alignment line square along the gable edge. This alignment line can be up to 3 inches off the gable edge if the roof is not completely square. This spacing can be adjusted with gable trim pieces. Place the first panel on the alignment line with 1 to 2 inch overhanging the eave. Fasten the panel 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**.

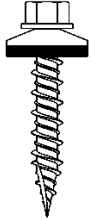
Proper Installation of SELF SEALING FASTENERS



Fastener Selection Guide

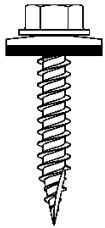
Self Sealing Fasteners

Woodfast Screw



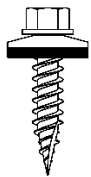
- NO. 10 x A, Type 17
- Available sizes: 1", 1 ½", 2"
 - Additional sized available upon request
- ¼" Hex Head
- Use: Panel to dimensional lumber and trim attachment

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

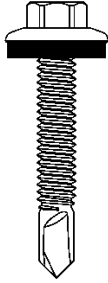
Stitch Screw



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

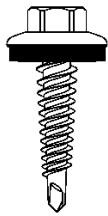
Compatible with No. 10 and No. 14 wood screws

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)

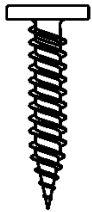
Lap Tek Screw



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

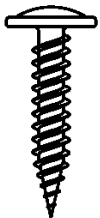
Hidden Fasteners

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 Stitch Screw. Refer to Trim Details for correct fastener usage.

Panel Details

Panel Installation: Can be installed on solid wood decking or open frame wood purlins.

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: 26 and 29

Finishes and Substrates: 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

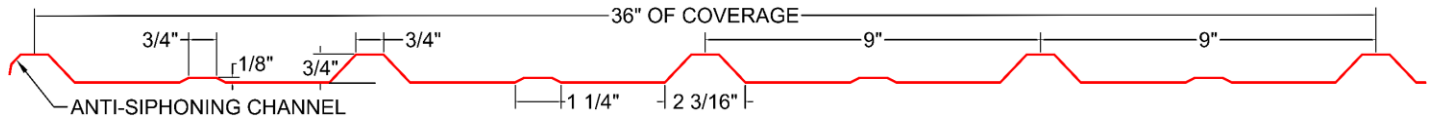
¹ For slopes lower than 3:12 require additional waterproofing. Please inquire with your Vantage Metal sales person.

PANEL AND TRIM INDEX

ROOF AND SIDING PANELS

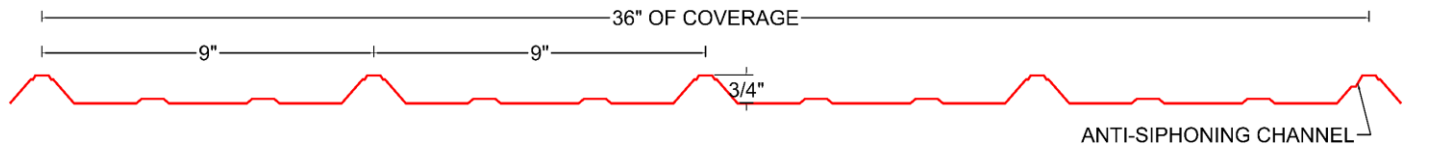
DELTA RIB

PAGE 18



TUFF RIB

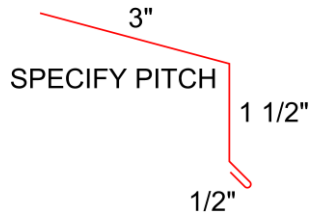
PAGE 18



EAVE TRIMS

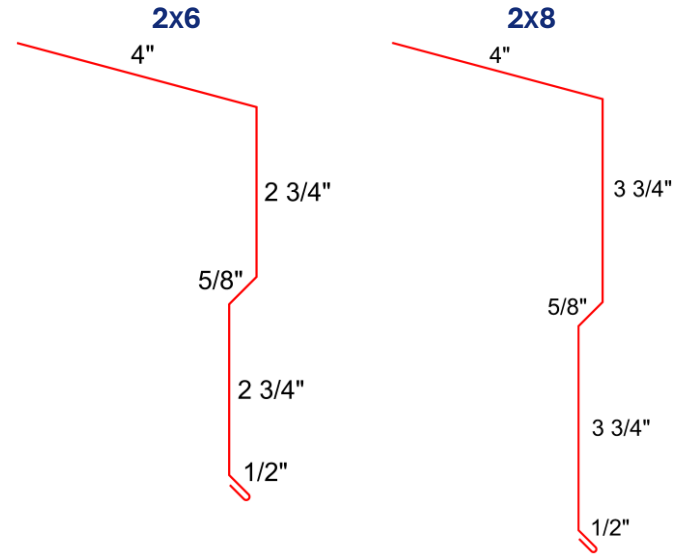
STANDARD EAVE TRIM

PAGE 21



STEP EAVE TRIM

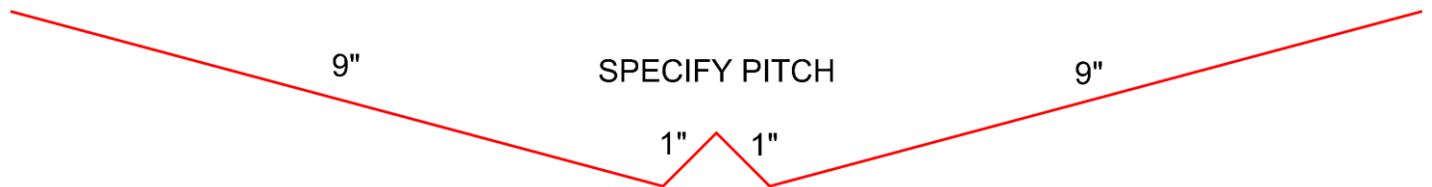
PAGE 22



W-VALLEY TRIMS

W-VALLEY TRIM

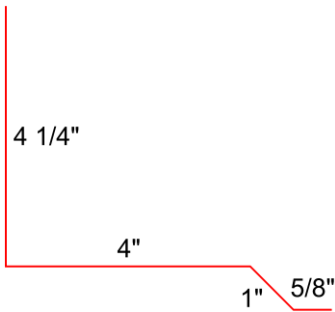
PAGE 23



WALL TRIMS

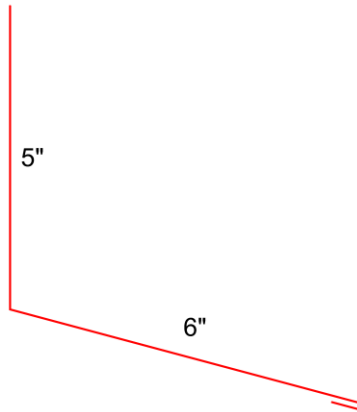
SIDEWALL TRIMS

PAGE 26



ENDWALL TRIMS

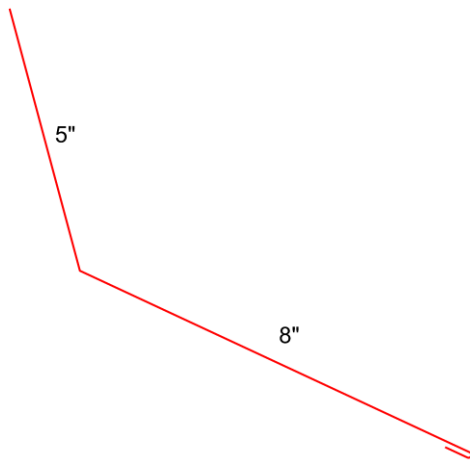
PAGE 27



Roof Pitch Change Trim

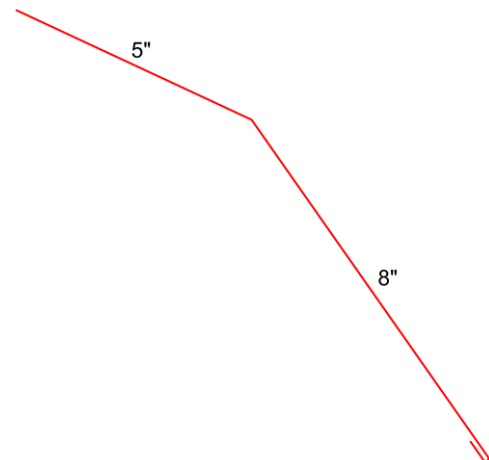
INSIDE PITCH CHANGE

PAGE 29



OUTSIDE PITCH CHANGE

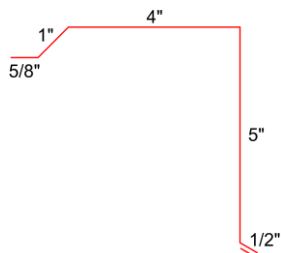
PAGE 30



Gable Trims

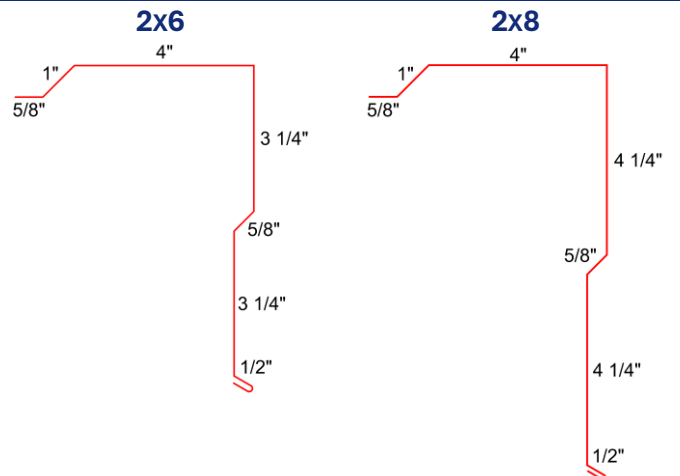
STANDARD GABLE

PAGE 31



STEP GABLE

PAGE 33



RIDGE CAPS

STANDARD RIDGE CAP

PAGE 35



SMOOTH RIDGE CAP

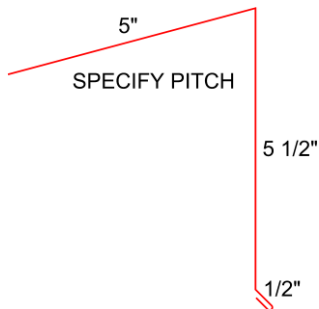
PAGE 37



CLERESTORY TRIM

CLERESTORY TRIM

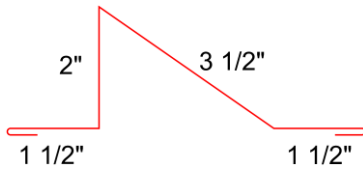
PAGE 39



ROOF ACCESSORY TRIMS

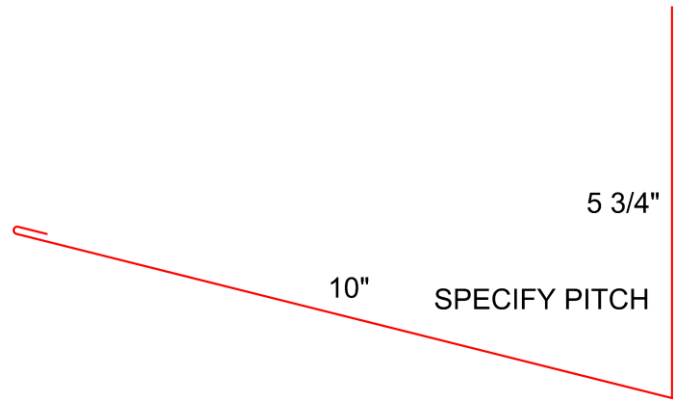
SNOW BREAK TRIM

PAGE 41



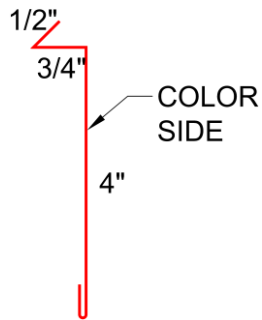
TOP PAN TRIM

PAGE 42



REGLET TRIM

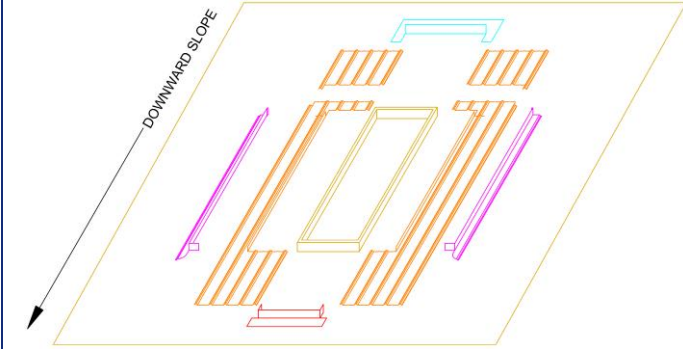
PAGE 43



Chimney and Skylight Assembly

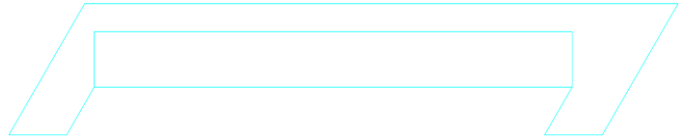
OVERVIEW

PAGE 44



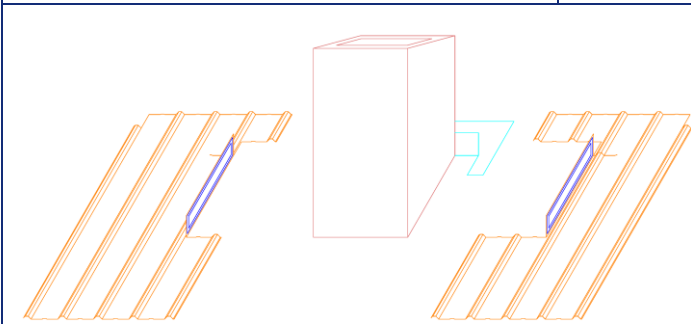
TOP PAN TRIM

PAGE 45



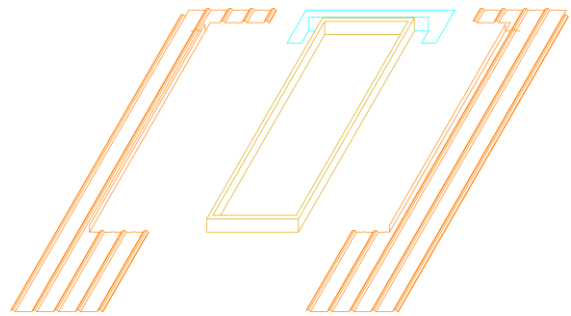
LOWER ROOF PANEL - CHIMNEY

PAGE 46



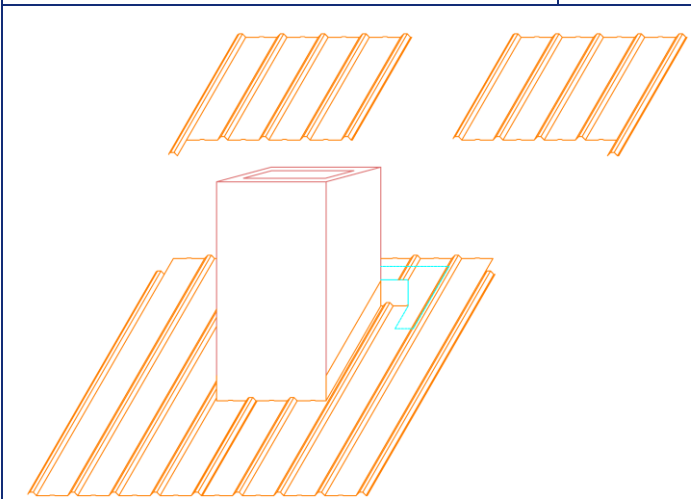
LOWER ROOF PANEL - SKYLIGHT

PAGE 47



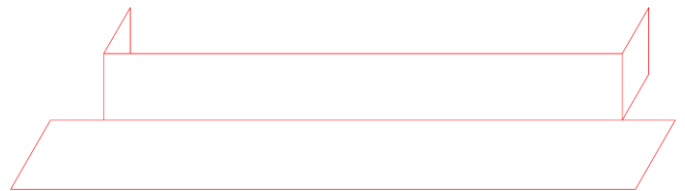
UPPER ROOF PANELS

PAGE 48



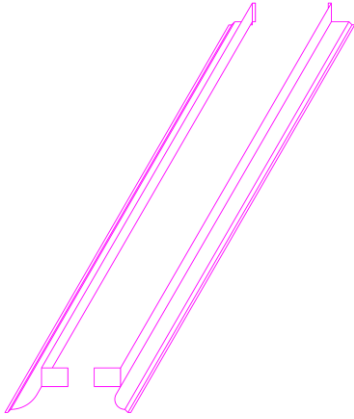
ENDWALL TRIM

PAGE 49



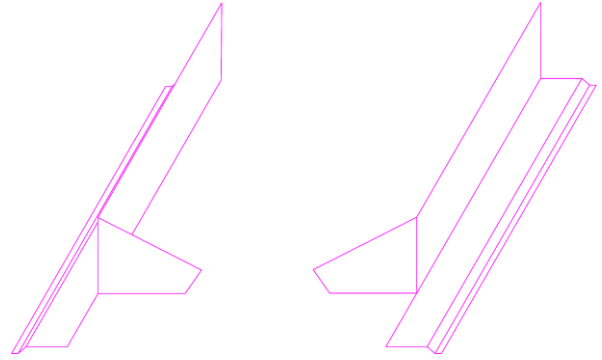
SIDEWALL TRIM - CHIMNEY

PAGE 50



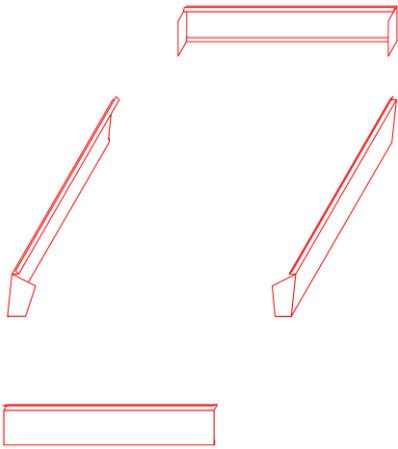
SIDEWALL TRIM - SKYLIGHT

PAGE 51



REGLET TRIM - CHIMNEY

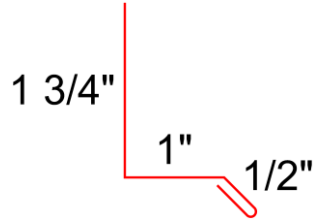
PAGE 52



Siding Accessory Trims

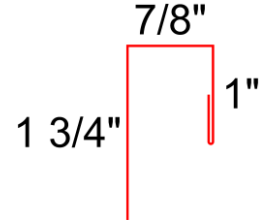
BASE TRIM

PAGE 53



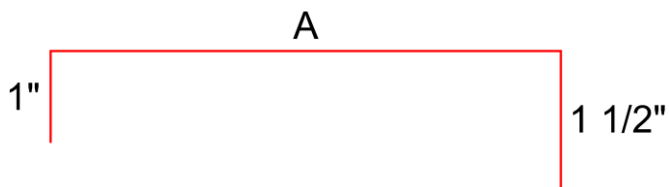
C-FLASHING TRIM

PAGE 54



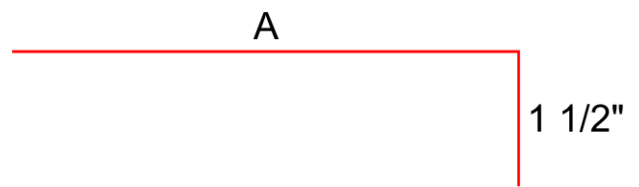
DOOR JAMB TRIM

PAGE 54



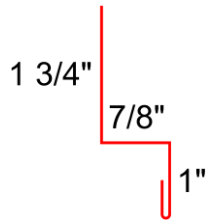
OPEN DOOR JAMB TRIM

PAGE 54



Z-FLASHING TRIM

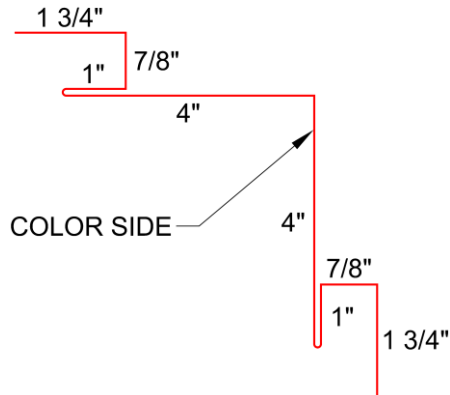
PAGE 56



Corner Trims

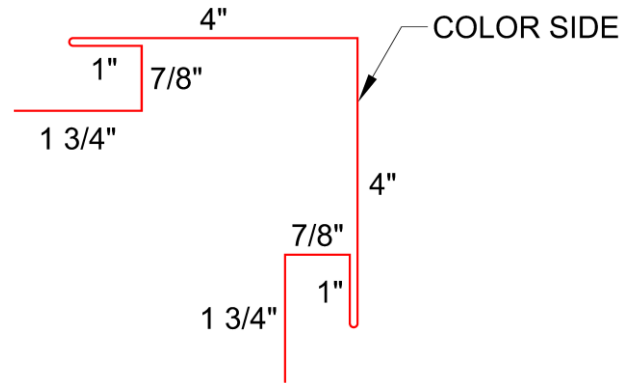
INSIDE HORIZONTAL CONER POST TRIMS

PAGE 57



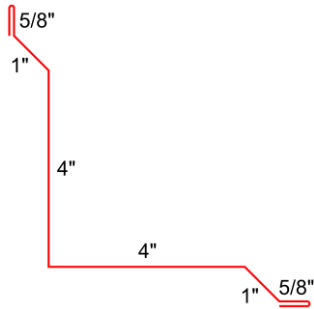
OUTSIDE HORIZONTAL CONER POST TRIMS

PAGE 58



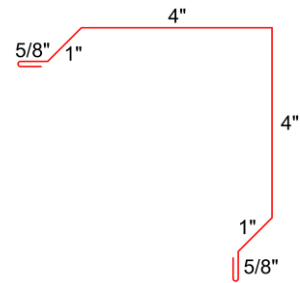
INSIDE CORNER TRIM

PAGE 59



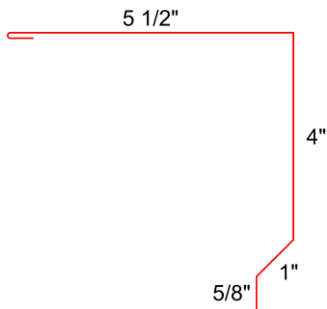
OUTSIDE CORNER TRIM

PAGE 60



FLUSH OUTSIDE CORNER TRIM

PAGE 61

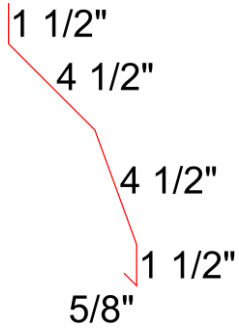


Track Covers

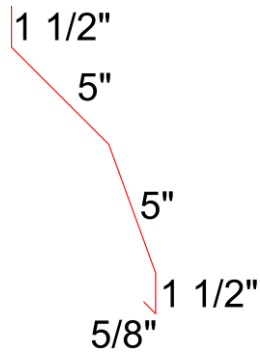
SINGLE TRACK COVER TRIM

PAGE 62

FACEMOUNT

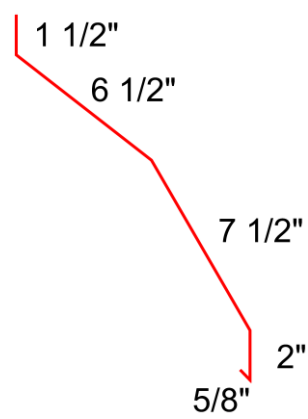


ADJUSTABLE



DOUBLE TRACK COVER TRIM

PAGE 63



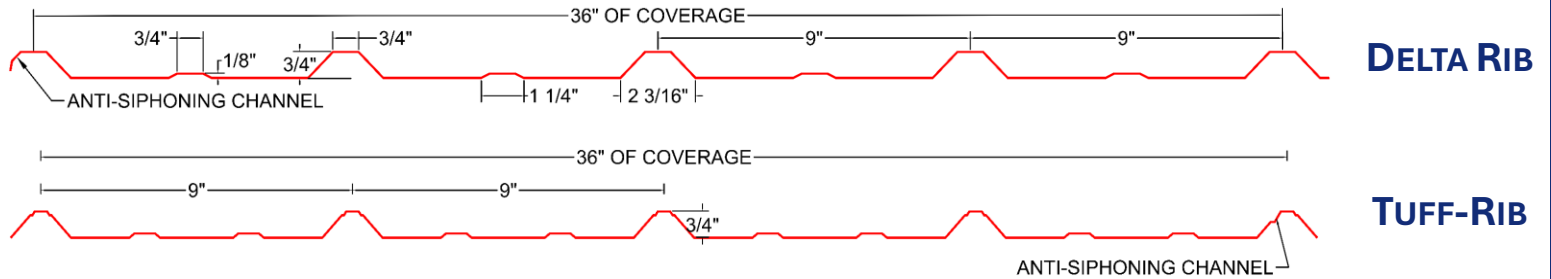


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DELTA/TUFF RIB PANEL

ROOF/SIDING PANELS
STANDARD

DIMENSIONS



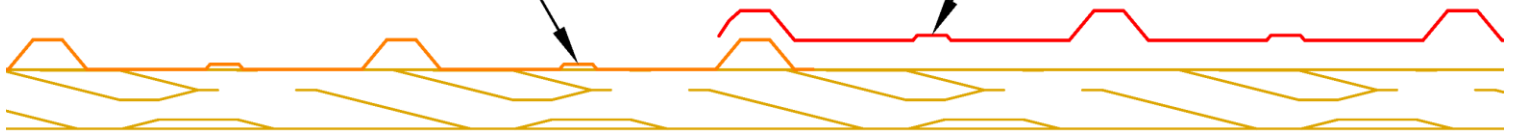
PANEL INSTALLATION DIRECTION



PREVAILING WIND

1ST ROOF PANEL

2nd ROOF PANEL



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **ROOF PANELS INTO** THE **PREVAILING WIND**.
3. INSTALL **ROOF PANELS**, CLIPPING IN THE PANEL ONTO THE PREVIOUS PANEL.
4. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

NOTES:

- DO NOT STEP ON MAJOR RIBS. STEP ONLY ON THE FLATS OF THE ROOF PANEL



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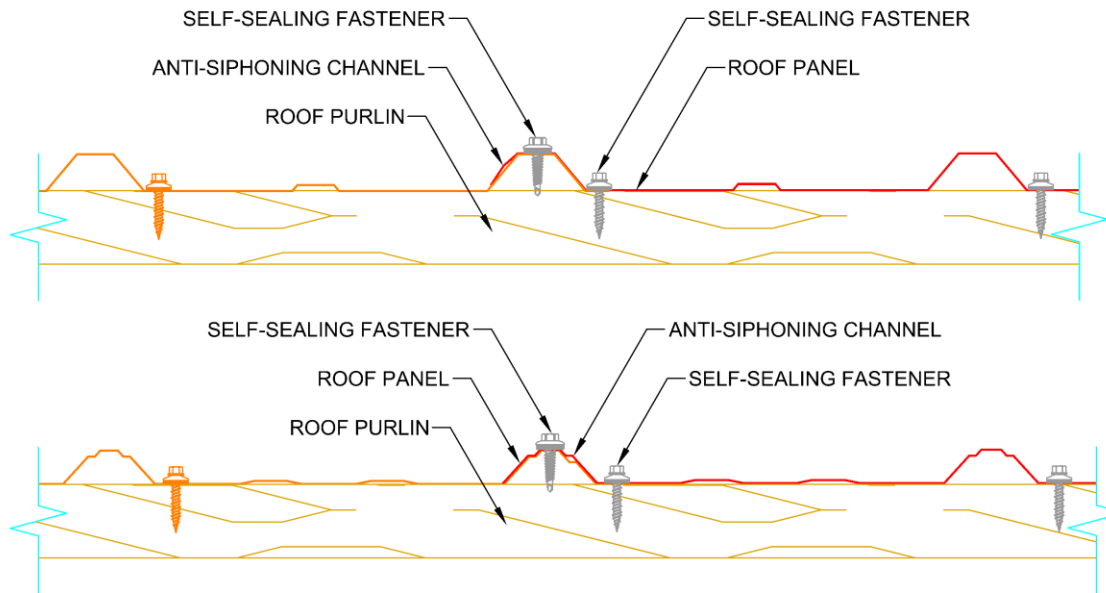
DELTA/TUFF RIB PANEL

ROOF/SIDING PANELS STANDARD

PANEL INSTALLATION DIRECTION

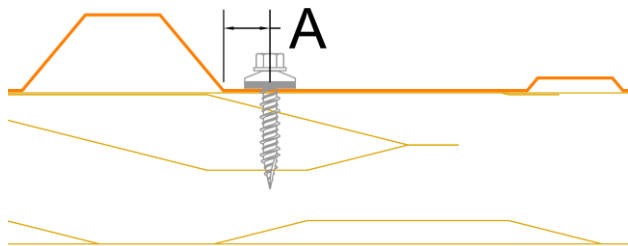


PREVAILING WIND

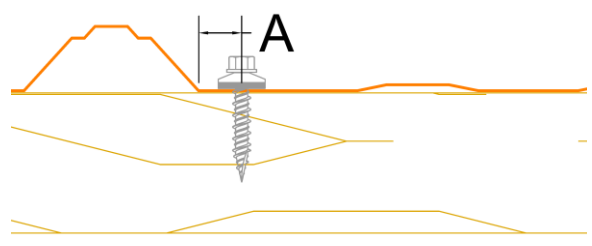


SCREW PLACEMENT

TUFF RIB



DELTA RIB



PROCEDURES:

- USE **SELF SEALING FASTENERS** ALONG MAJOR RIBS
- USE **SELF SEALING FASTENERS** TO OVERLAP 2 **ROOF PANELS** CENTERED ON THE TOP OF THE OVERLAPPING MAJOR RIBS.

NOTES:

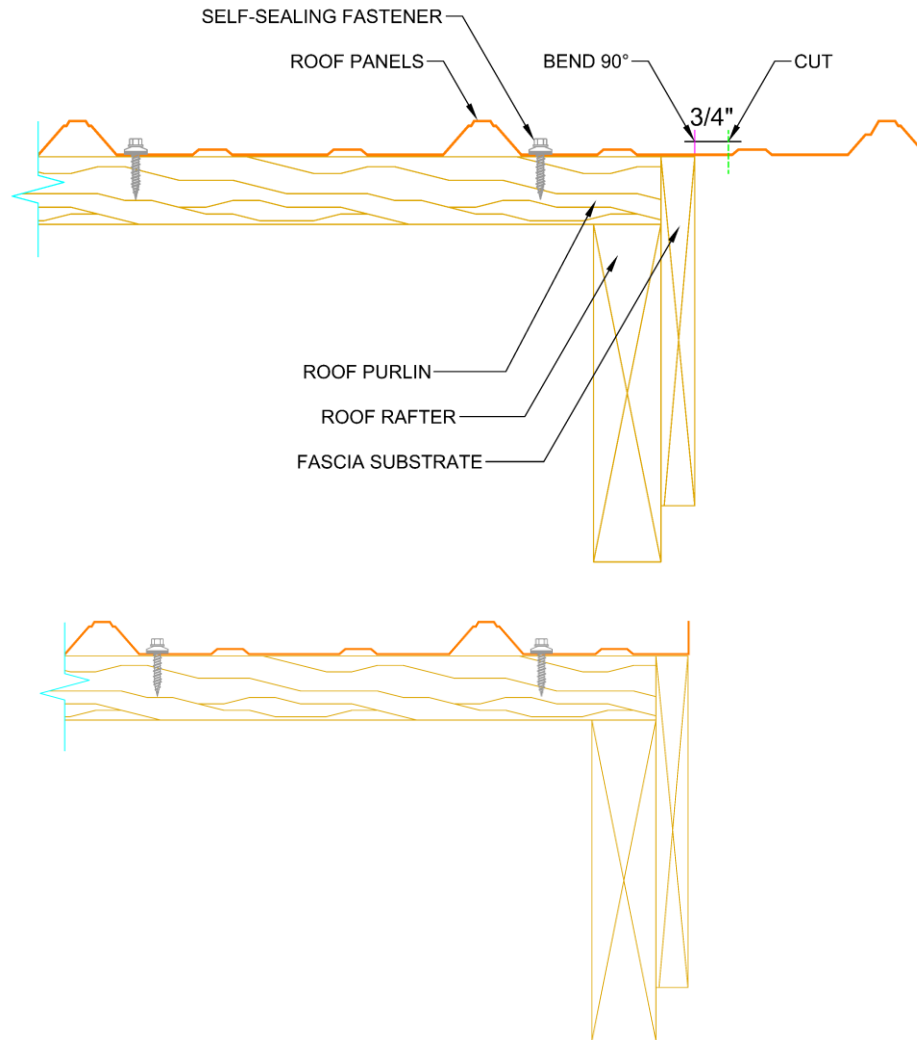
- **DIMENSION A** IS 1/4".



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DELTA/TUFF RIB PANEL

ROOF/SIDING PANELS
STANDARD



TERMINATION PROCEDURES:

1. CUT THE OVERLAPPED **ROOF PANEL** 3/4" OVER THE ROOF EDGE.
2. BEND THE **ROOF PANEL** AT THE EDGE OF THE **FASCIA SUBSTRATES** UPWARDS 90°.

NOTES:

THIS TECHNIQUE IS ALSO USED WHEN TERMINATING **ROOF PANELS** INTO ALL CORNERS.

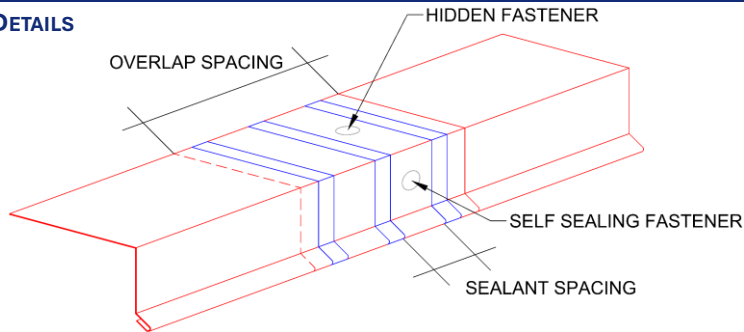


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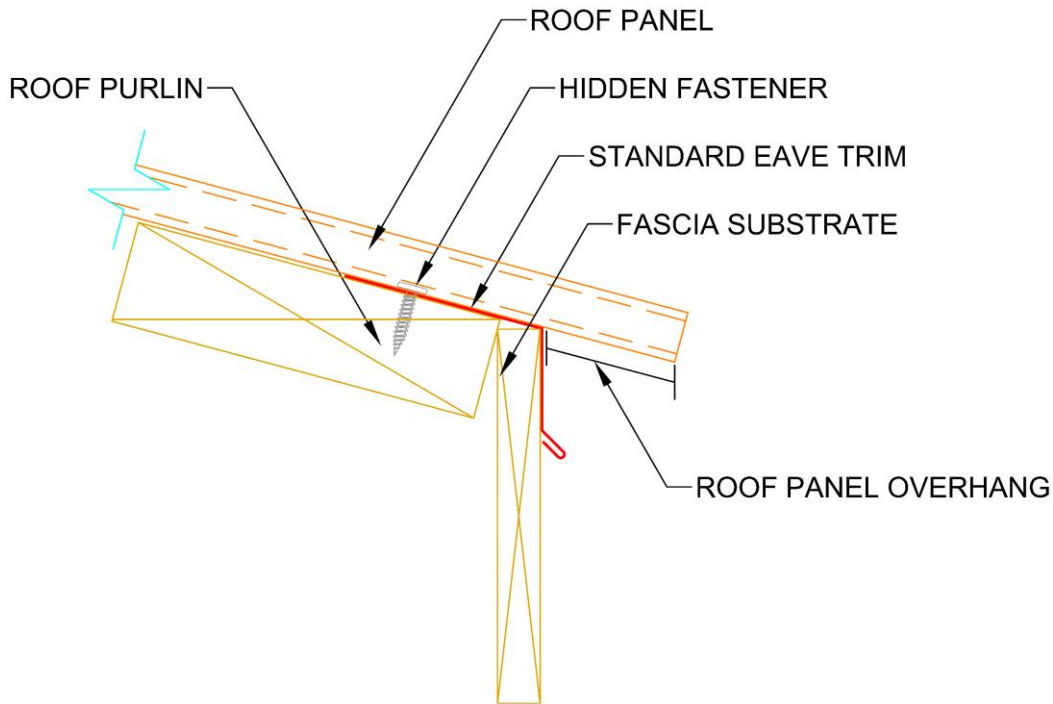
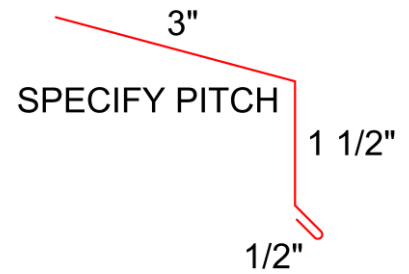
DELTA/TUFF RIB PANEL

EAVE TRIM STANDARD

OVERLAPING DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **STANDARD EAVE TRIM** USING **HIDDEN FASTENERS**, SPACED **24"** INTO **ROOF PURLIN** AS SHOWN
3. INSTALL **ROOF PANEL** USE TYPICAL INSTALLATION.
4. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAY NOTES:

- **OVERLAPPING SPACING** IS 4"
- APPLY 3 ROWS OF **APPROVED SEALANT** WITH **SEALANT SPACING** AT 1" APART.
- USE APPROVED **HIDDEN FASTENER** CENTERED ON THE TOP FACE OF THE **STANDARD EAVE TRIM**.
- USE APPROVED **SELF SEALING FASTENER** CENTERED ON THE FRONT FACE OF THE **STANDARD EAVE TRIM**.

NOTES:

- **ROOF PANEL OVERHANG** IS BETWEEN 1" AND 2".

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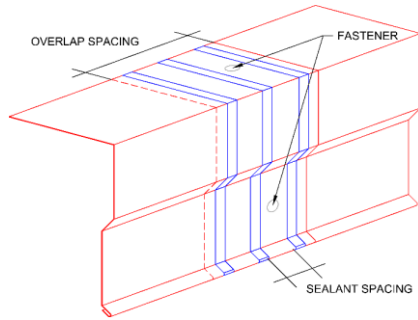


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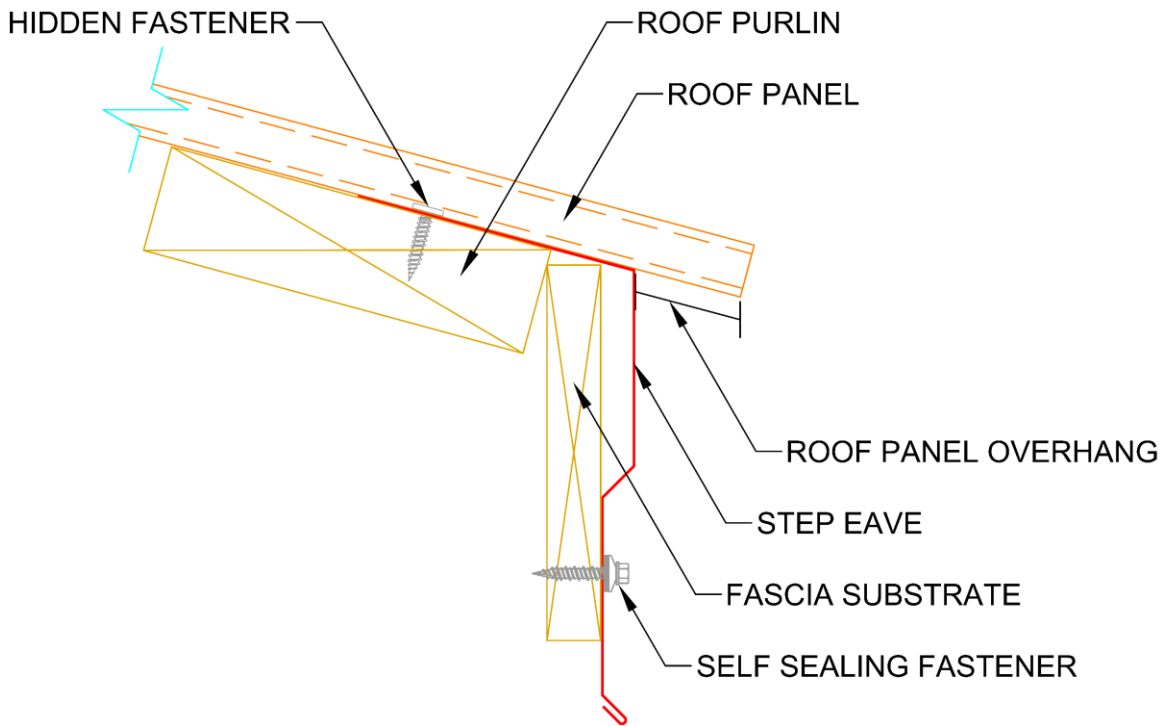
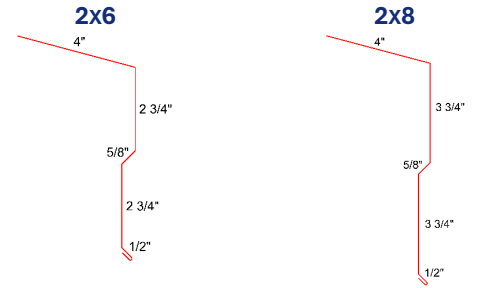
DELTA/TUFF RIB PANEL

EAVE TRIM STEP

OVERLAPING DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **STEP EAVE TRIM** USING **HIDDEN FASTENERS**, SPACED **24"** INTO **ROOF PURLIN** AS SHOWN
3. USE **SELF-SEALING FASTENERS**, SPACED **24"** INTO **FASCIA SUBSTRATE** AS SHOWN
4. INSTALL **ROOF PANEL** USE TYPICAL INSTALLATION.
5. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAY NOTES:

- **OVERLAPPING SPACING** IS 4"
- APPLY 3 ROWS OF **APPROVED SEALANT** WITH **SEALANT SPACING** AT 1" APART.
- USE **APPROVED HIDDEN FASTENER**, AS SHOWN.

NOTES:

- **ROOF PANEL OVERHANG** IS BETWEEN 1" AND 2".

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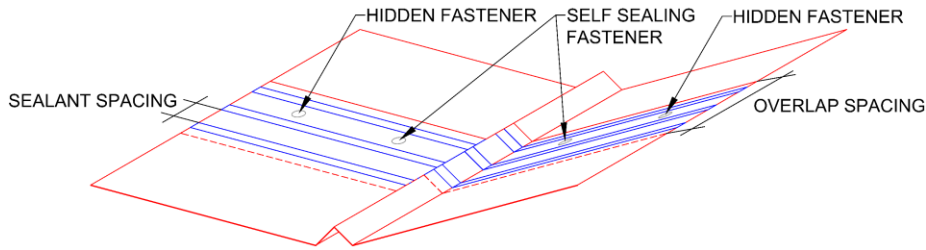


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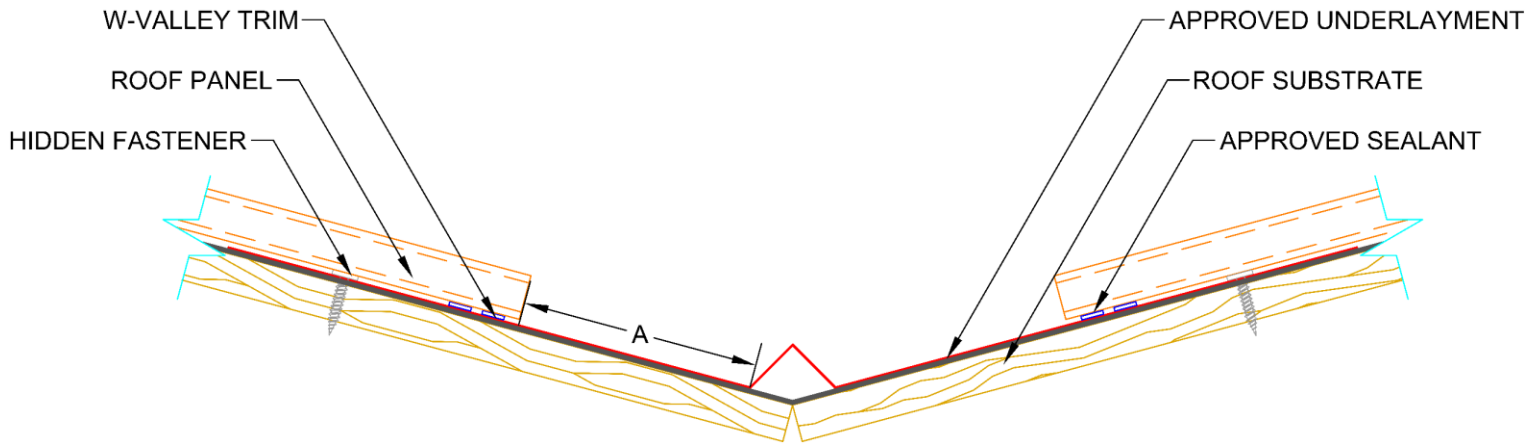
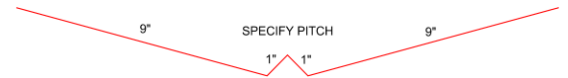
DELTA/TUFF RIB PANEL

W-VALLEY TRIM

OVERLAPING DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **APPROVED UNDERLAYMENT** USING MANUFACTURER'S INSTRUCTIONS.
3. INSTALL ANY ADDITIONAL **APPROVED UNDERLAYMENT** FOR THE REGION IN THE ROOF VALLY.
4. INSTALL **W-VALLEY TRIM** USING **HIDDEN FASTENER** **MINIMUM 1"** FROM TRIM EDGE AND **24"** SPACING ALONG TRIM.
5. INSTALL **ROOF PANEL** USING TYPICAL INSTALLATION
6. APPLY **APPROVED SEALANT 1/4"** FROM EDGE OF **ROOF PANEL**.
7. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAP NOTES:

1. **OVERLAPPING SPACING** IS MINIMUM 6".
2. APPLY 3 ROWS OF **APPROVED SEALANT** WITH **SEALANT SPACING** AS 1" STARTING AT 1" FROM VISIBLE OVERLAP EDGE.
3. USE **SELF-SEALING FASTENER** 2 1/2" FROM THE **W-VALLEY TRIM**'S CENTER RIDGE.
4. USE **HIDDEN FASTENER** 2 1/2" FROM OUTSIDE EDGE OF **W-VALLEY TRIM** WHERE THE **ROOF PANEL** WILL OVERLAP.

NOTES:

- **DIMENSION A** IS BETWEEN **4" MINIMUM** AND **6" MAXIMUM** FROM **W-VALLEY TRIM** CENTER RIDGE.

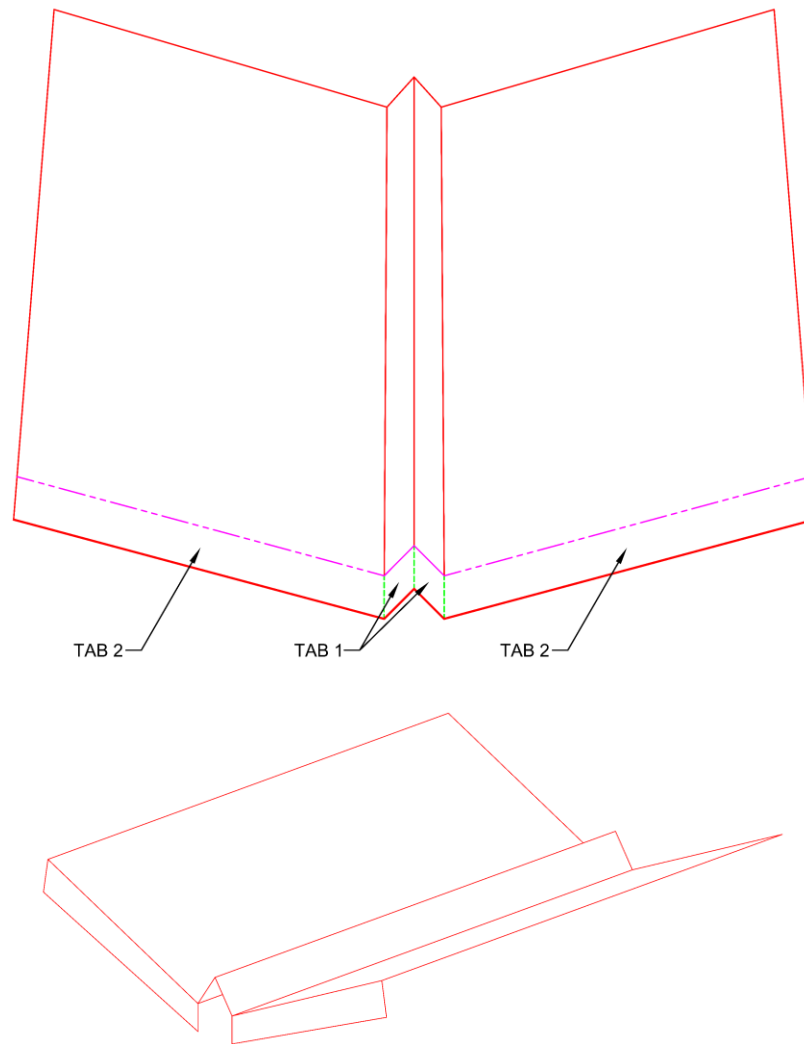
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DELTA/TUFF RIB PANEL

W-VALLEY TRIM



PROCEDURE:

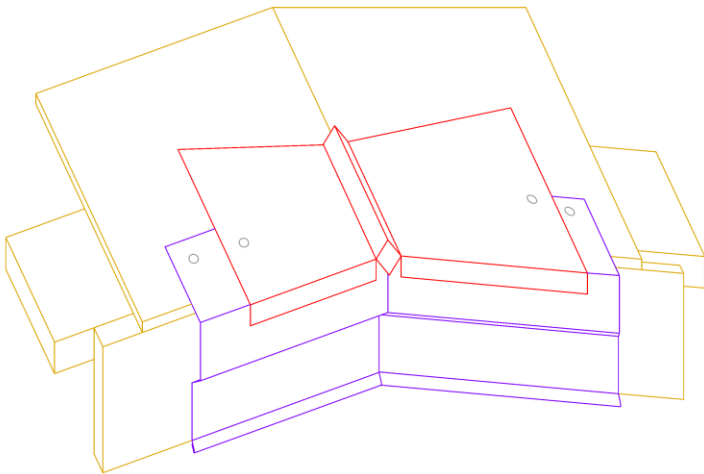
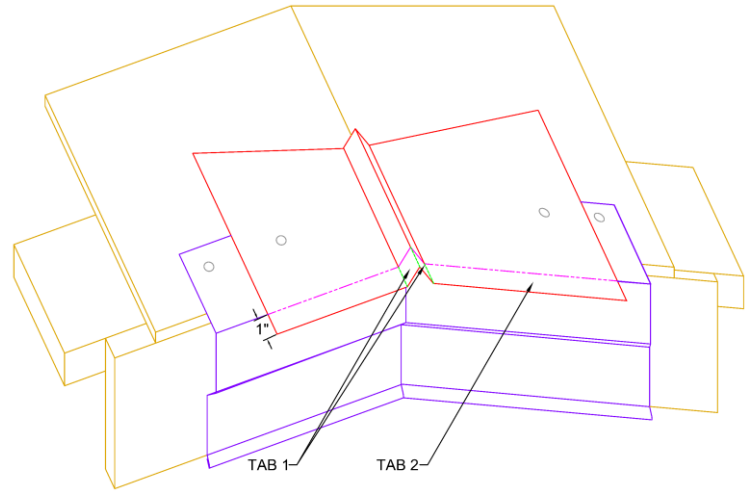
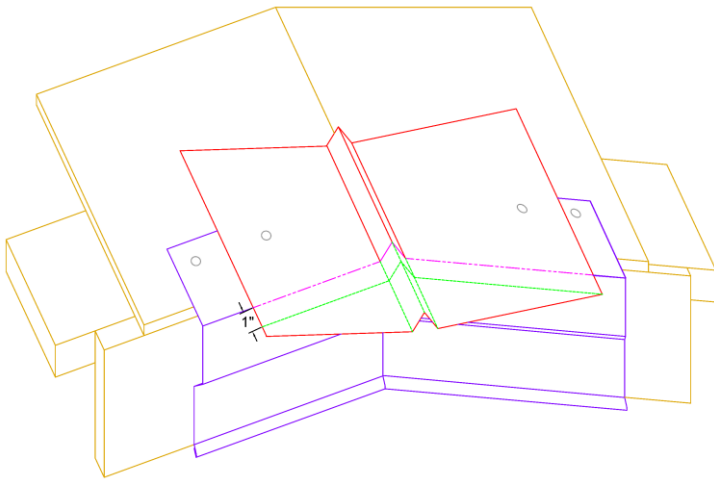
1. CUT THE **GREEN LINES**.
2. BEND **TAB 1** DOWNWARD, OVERLAPPING EACH OTHER.
3. BEND **TAB 2** DOWNWARD OVER **EAVE TRIM**.



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DELTA/TUFF RIB PANEL

W-VALLEY TRIM



PROCEDURE:

1. PLACE **W-VALLEY TRIM** FLAT ON THE **ROOF PURLINS** WITH AN OVERHANG OF 1" MINIMUM.
2. SCORE THE **W-VALLEY TRIM** ON THE UNDERSIDE FOLLOWING THE **STEP EAVE TRIM**.
3. FLIP OVER THE **W-VALLEY TRIM** MEASURING 1" MINIMUM FROM THE SCORED LINE.
4. CUT THE MEASURED LINES
5. BEND **TAB 1** DOWNWARD, OVERLAPPING EACH OTHER.
6. BEND **TAB 2** DOWNWARD OVER THE **STEP EAVE TRIM**.
7. INSTALL THE **W-VALLEY TRIM** USING **HIDDEN FASTENERS, 2 1/2"** FROM EDGE OF TRIM AND SPACED **24"** ALONG EDGE.

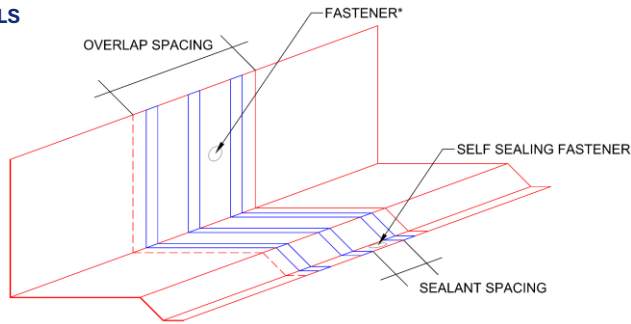


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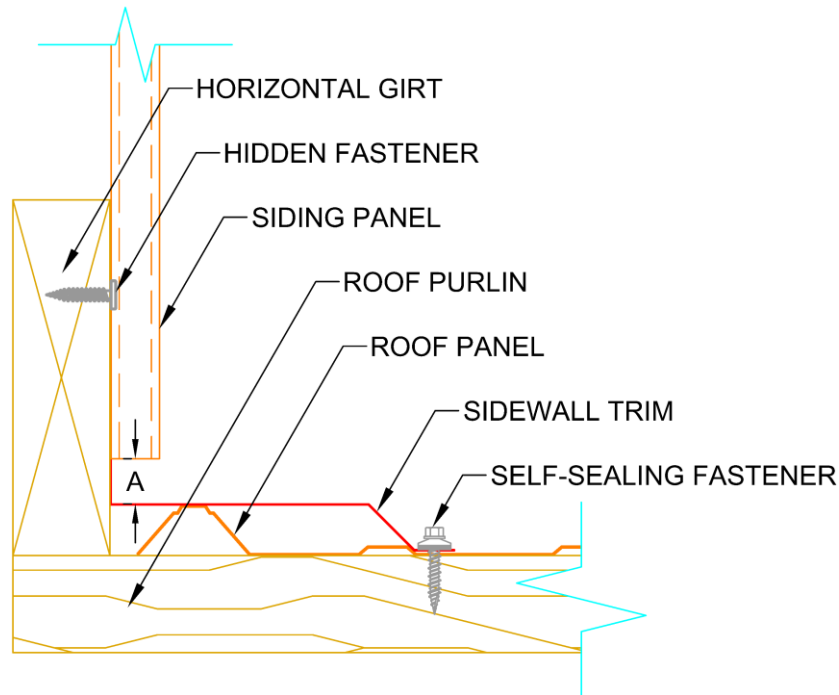
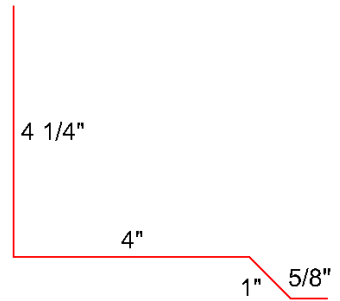
DELTA/TUFF RIB PANEL

SIDEWALL TRIM

OVERLAPING DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **ROOF PANELS** USING TYPICAL INSTALLATION.
3. INSTALL **SIDEWALL TRIM** USING **HIDDEN FASTENERS**, SPACED **24"** ON THE **HORIZONTAL GIRT**.
4. USE **SELF-SEALING FASTENERS**, SPACED **24"** ON THE **ROOF PANELS** AS SHOWN.
5. INSTALL **SIDING PANELS** USING TYPICAL INSTALLATION.
6. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

NOTES:

- **OVERLAPPING SPACING** IS 4"
- APPLY 3 ROWS OF **APPROVED SEALANT** WITH **SEALANT SPACING** AS 1".
- **APPROVED SELF-SEALING FASTENER** ON THE HORIZONTAL FACE AS SHOWN.
- **APPROVED HIDDEN FASTENER** ON THE VERTICAL FACE AS SHOWN.

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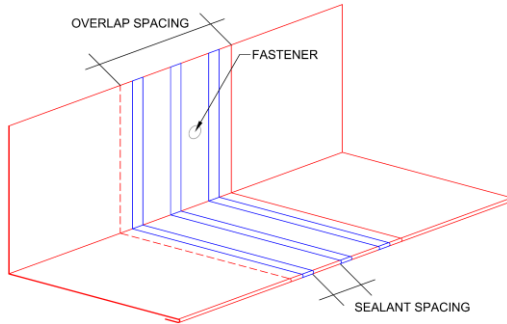


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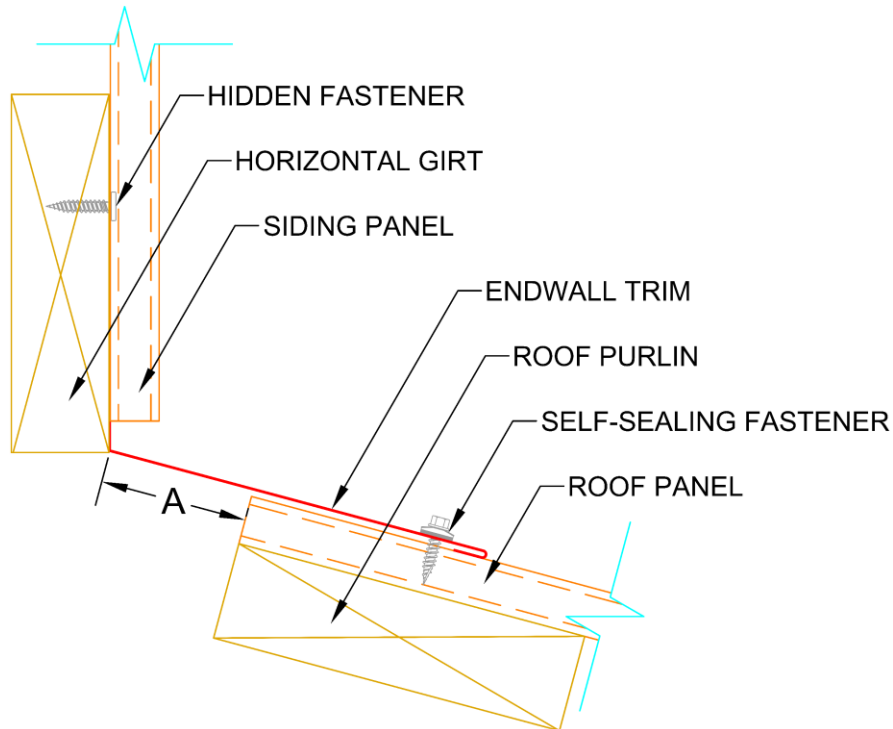
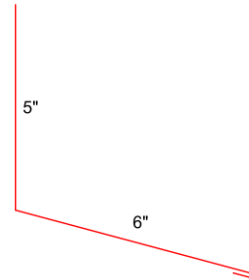
DELTA/TUFF RIB PANEL

ENDWALL TRIM

OVERLAPING DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL LOWER **ROOF PANEL** USING TYPICAL INSTALLATION.
3. INSTALL **ENDWALL TRIM** USING **HIDDEN FASTENER** TO **HORIZONTAL GIRT** AND **SELF-SEALING FASTENER** TO **ROOF PANEL'S MAJOR RIBS**, BOTH SPACED **24"**.
4. INSTALL **SIDING PANELS** USING TYPICAL INSTALLATION.
5. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAP NOTES:

- **OVERLAPPING SPACING** IS **4"**.
- APPLY 3 ROWS OF **APPROVED SEALANT** WITH **SEALANT SPACING** AS **1"**.
- USE APPROVED **SELF-SEALING FASTENER** AS SHOWN.

NOTES:

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

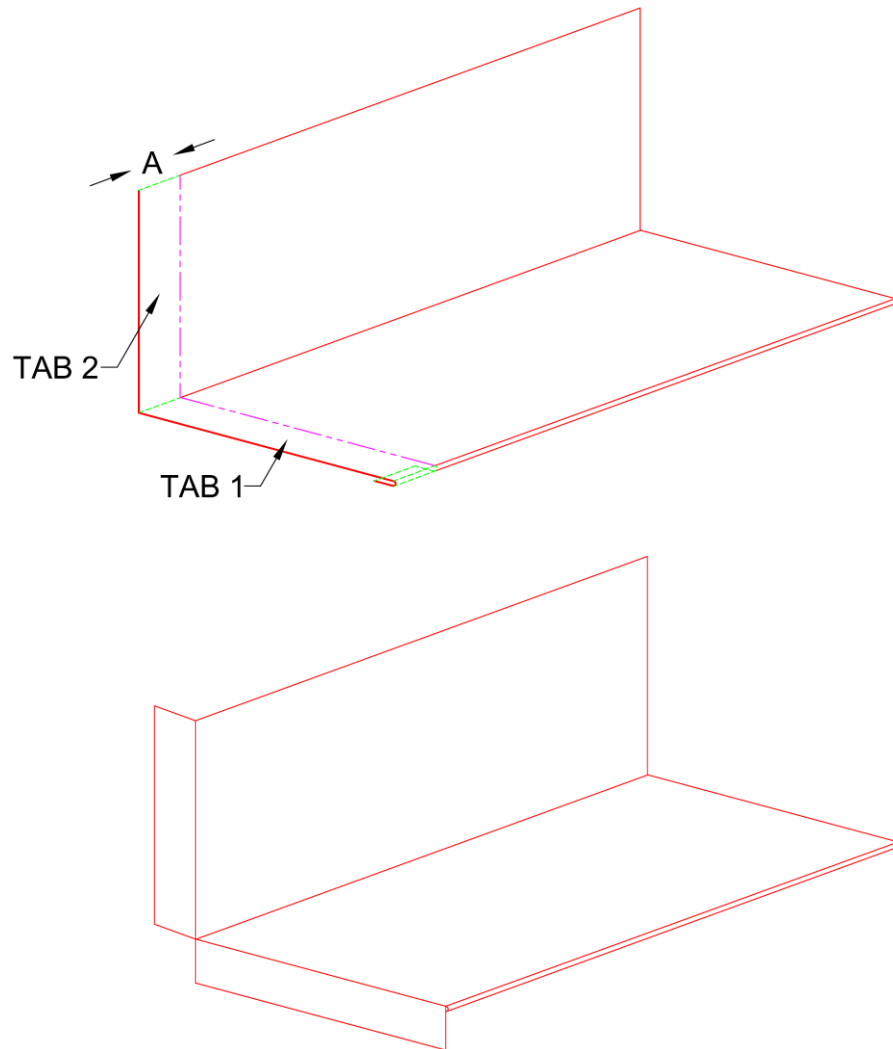
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DELTA/TUFF RIB PANEL

ENDWALL TRIM



PROCEDURE:

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

NOTES:

- **DIMENSION A** MINIMUM IS **1"**.

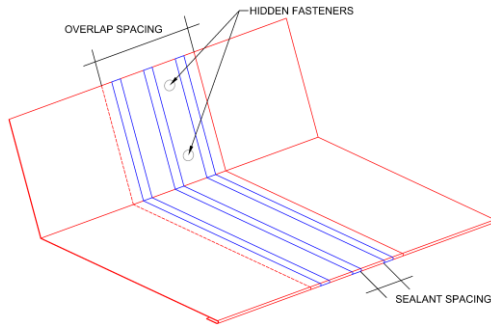


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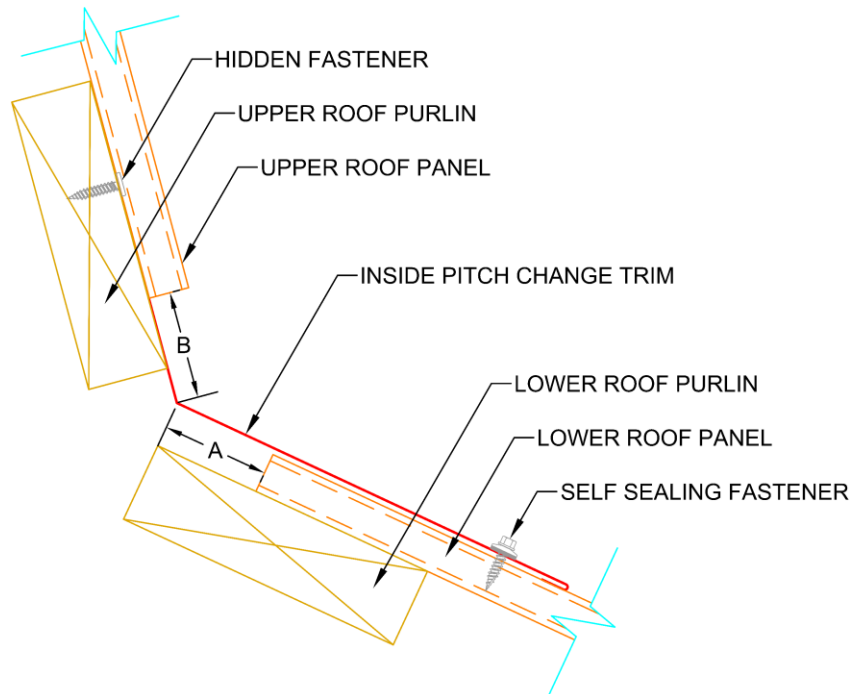
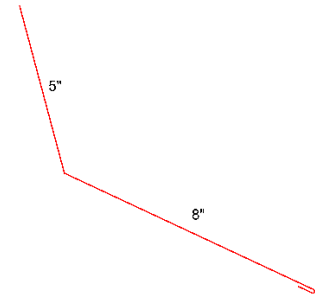
DELTA/TUFF RIB PANEL

PITCH CHANGE TRIM INSIDE

OVERLAPING DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **LOWER ROOF PANEL** USING TYPICAL INSTALLATION.
3. INSTALL **INSIDE PITCH CHANGE TRIM** USING **HIDDEN FASTENER** SPACED **24"** INTO THE **UPPER ROOF PURLIN**.
4. INSTALL **INSIDE PITCH CHANGE TRIM** USING **SELF-SEALING FASTENER** INTO **MAJOR RIBS** OF THE **LOWER ROOF PANEL**.
5. INSTALL **UPPER ROOF PANEL** USING TYPICAL INSTALLATION.
6. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAP NOTES:

- **OVERLAPPING SPACING** IS **4"**
- APPLY 3 ROWS OF **APPROVED SEALANT** WITH **SEALANT SPACING** AS **1"**.
- USE **HIDDEN FASTENER** SPACED **24"** ALONG TRIM.
 - ANY FASTENER **NOT** HIDDEN UNDER THE **UPPER ROOF PANEL** MUST BE A **SELF SEALING FASTENER** SPACED **24"** ALONG TRIM.

NOTES:

- **DIMENSION A** IS BETWEEN **1"** TO **4"**
- **DIMENSION B** IS BETWEEN **1"** TO **2"**.

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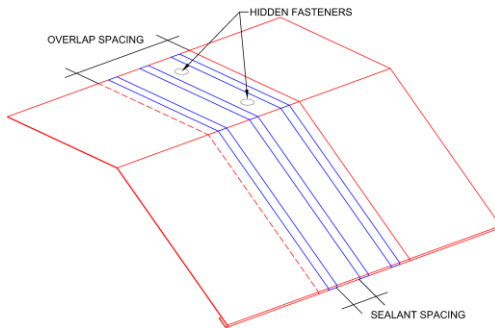


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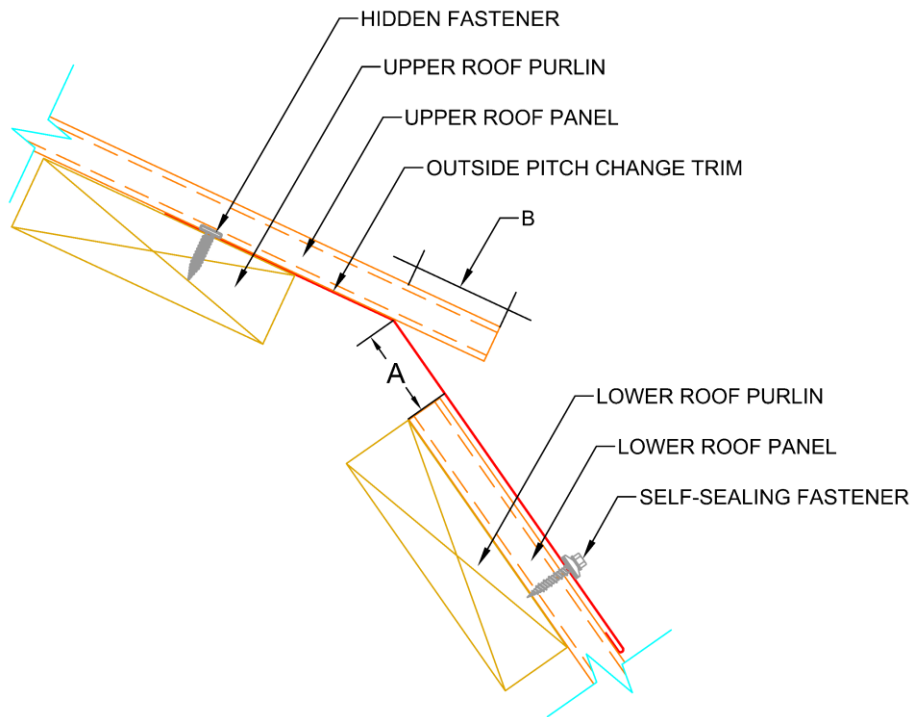
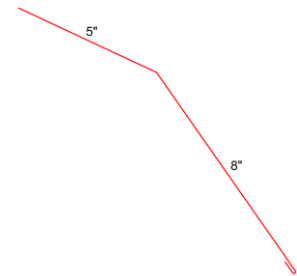
DELTA/TUFF RIB PANEL

PITCH CHANGE TRIM OUTSIDE

OVERLAPING DETAILS



DIMENSIONS



PROCEDURES:

- CLEAN AND PREP THE INSTALLATION SITE.
- INSTALL **LOWER ROOF PANEL** USING TYPICAL INSTALLATION.
- INSTALL **OUTSIDE PITCH CHANGE TRIM** USING **HIDDEN FASTENER** SPACED 24" INTO **UPPER ROOF PURLIN**.
- INSTALL **OUTSIDE PITCH CHANGE TRIM** USING **SELF-SEALING FASTENER** INTO **MAJOR RIBS** OF **LOWER ROOF PANEL**.
- INSTALL **UPPER ROOF PANEL** USING TYPICAL INSTALLATION.
- CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAP NOTES:

- **OVERLAPPING SPACING** IS 4"
- APPLY 3 ROWS OF **APPROVED SEALANT** WITH **SEALANT SPACING** AS 1".
- USE **APPROVED HIDDEN FASTENER** SPACED 4" APART, CENTERED ON UPPER FACE OF TRIM SPACED 24" ALONG **UPPER ROOF PURLIN**.

NOTES:

- **DIMENSION A** IS 0" TO 4" BASED ON HORIZONTAL PURLIN DIMENSION AND LOCATION.
- **DIMENSION B** IS 1" TO 2" FOR OVERHANG DRIP EDGE.

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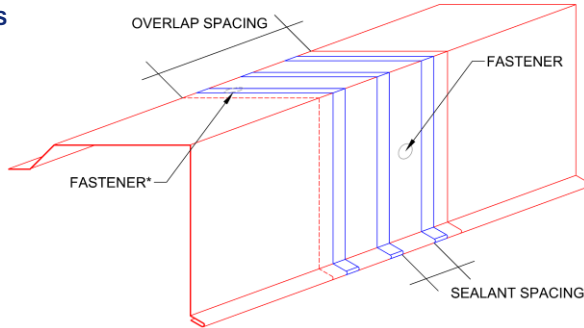


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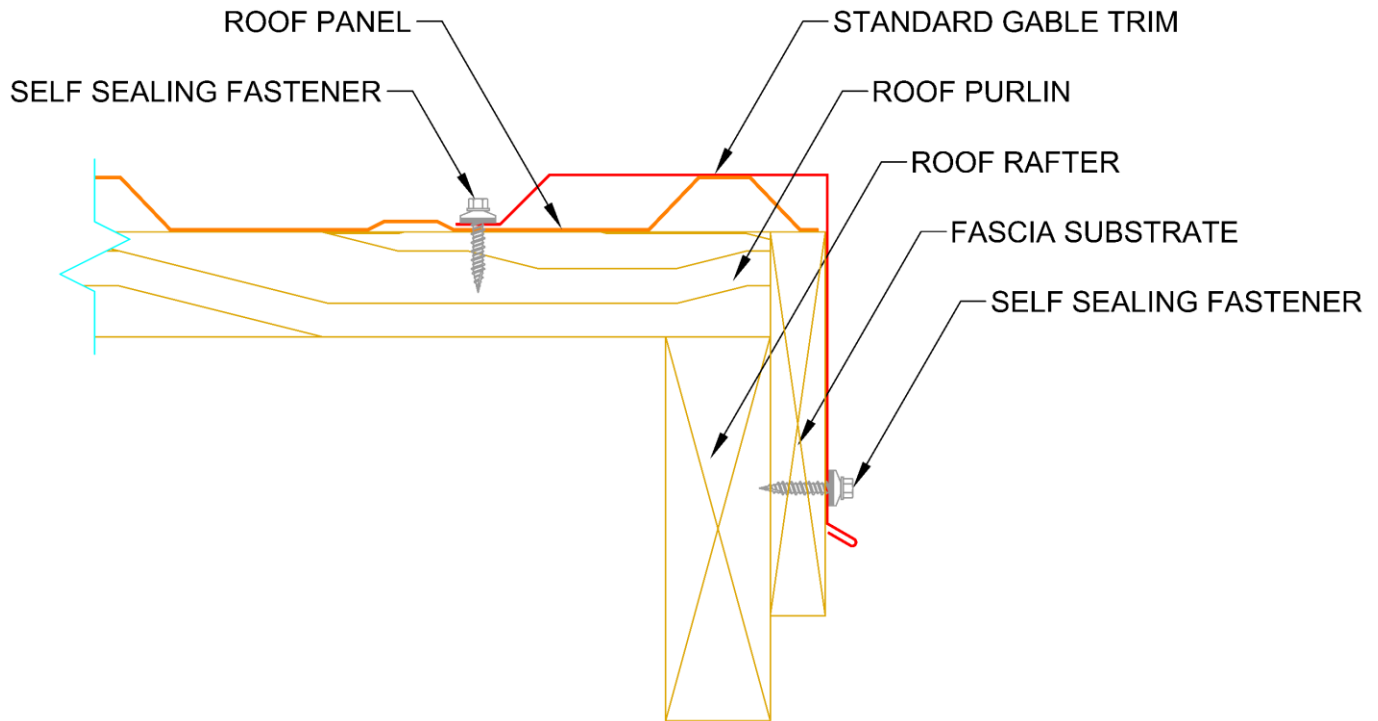
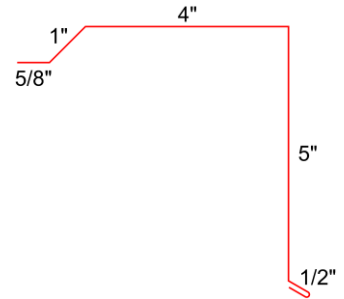
DELTA/TUFF RIB PANEL

GABLE TRIM STANDARD

OVERLAPING DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **ROOF PANELS** USING TYPICAL INSTALLATION.
3. INSTALL **STANDARD GABLE TRIM**
 - 0 USING **SELF-SEALING FASTENERS** SPACED **24"** INTO THE **ROOF PURLIN** AND **ROOF PANEL**.
 - 0 USING **SELF SEALING FASTENERS** SPACED **24"** INTO **FASCIA SUBSTRATE**.
4. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAP NOTES:

- **OVERLAPPING SPACING** IS 4"
- APPLY 3 ROWS OF **APPROVED SEALANT** WITH **SEALANT SPACING** AS 1".
- USE APPROVED **SELF SEALING FASTENER** CENTERED ON LOWER FACE AS SHOWN.
- USE APPROVED **SELF SEALING FASTENER** ON THE UPPER HEM AS SHOWN.

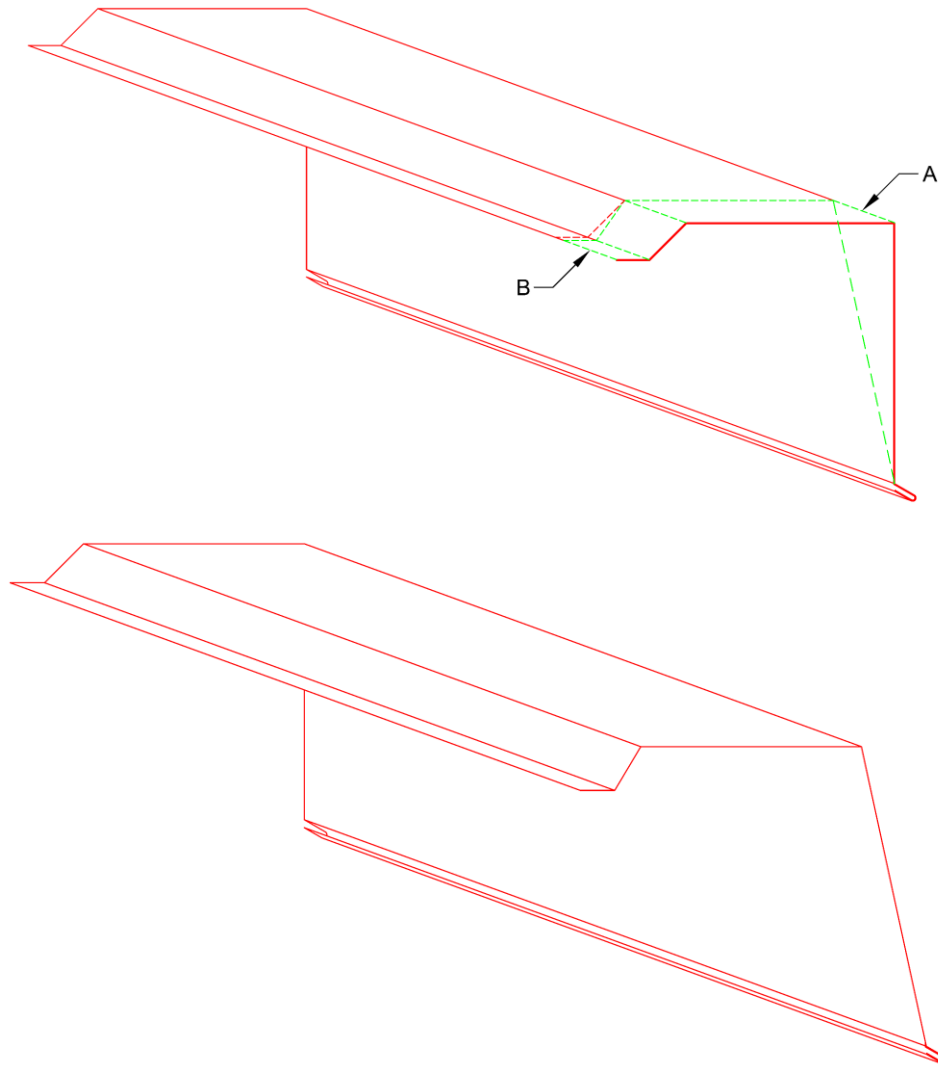
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DELTA/TUFF RIB PANEL

GABLE TRIM
STANDARD



PROCEDURE:

1. CUT ALL **GREEN LINES**.
2. **DIMENSIONS A AND B** IS BASED ON ROOF PITCH.

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

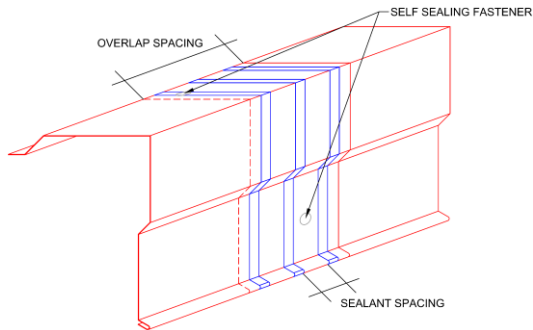


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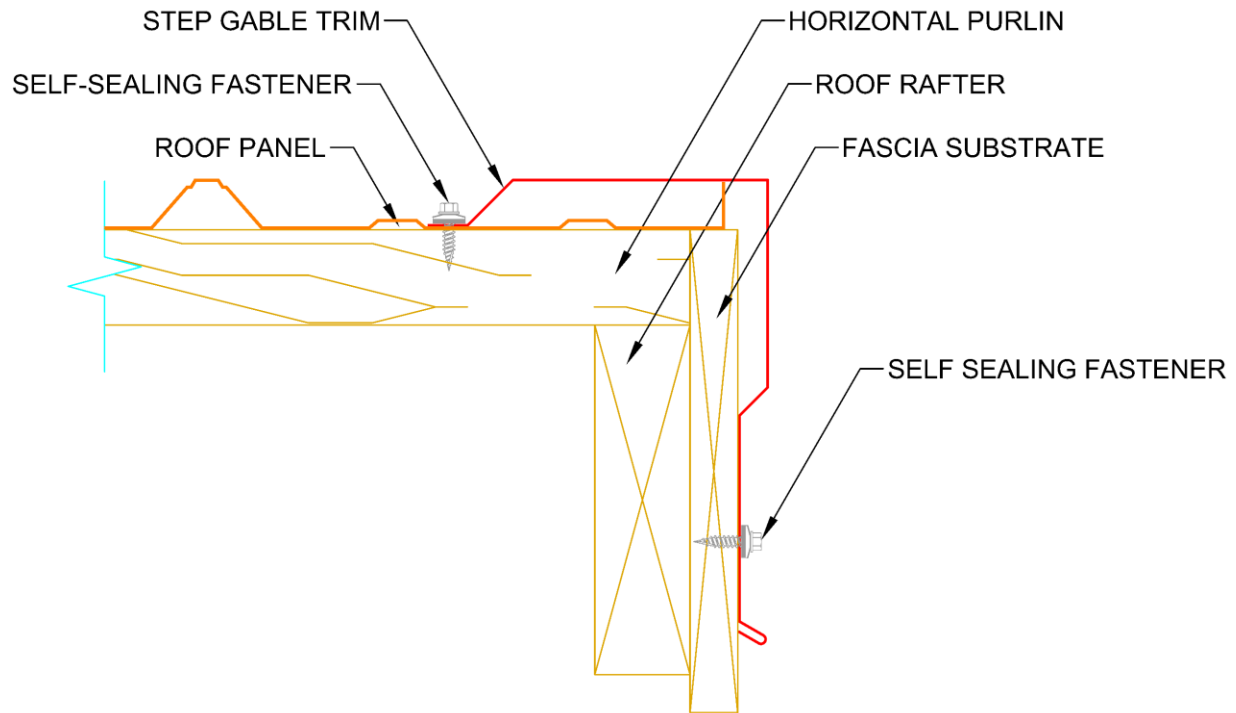
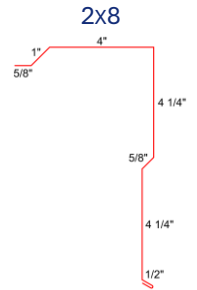
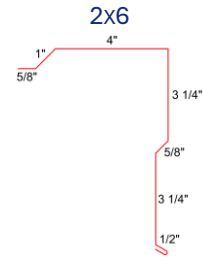
DELTA/TUFF RIB PANEL

GABLE TRIM STEP

OVERLAPING DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **Roof Panels** USING TYPICAL INSTALLATION.
3. INSTALL **STEP GABLE TRIM**
 - 0 USING **SELF-SEALING FASTENERS** SPACED **24"** ONTO **HORIZONTAL PURLINS**.
 - 0 USING **SELF-SEALING FASTENERS** SPACED **24"** ONTO **FASCIA SUBSTRATE**.
4. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

NOTES:

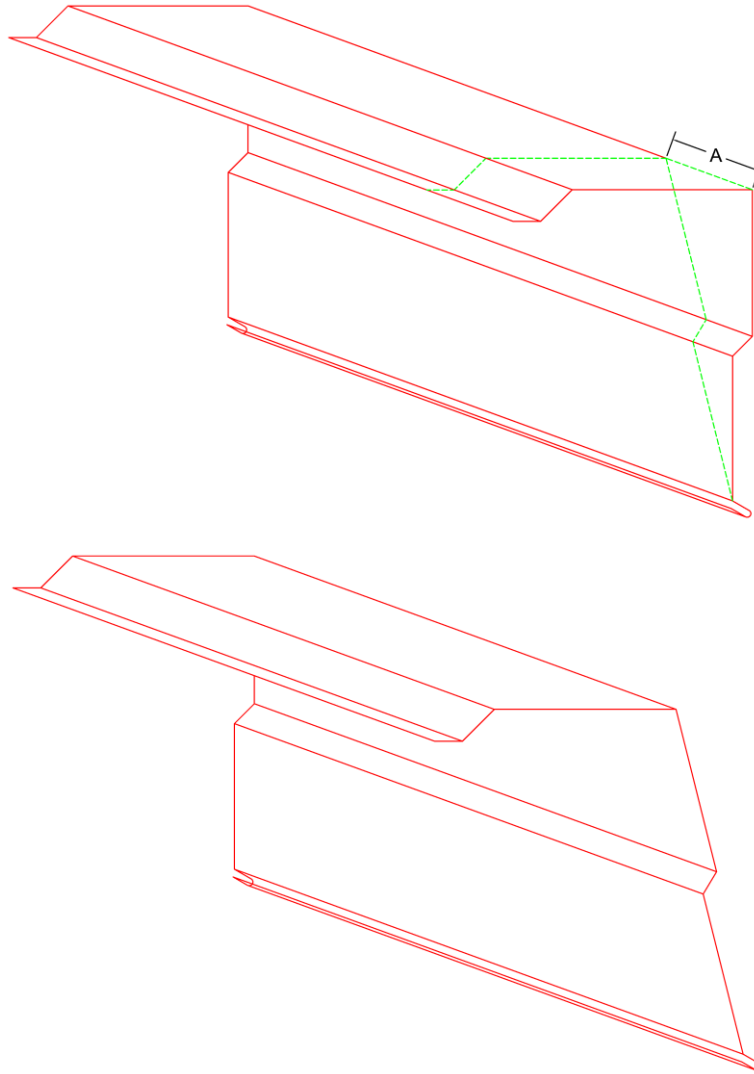
- **OVERLAPPING SPACING** IS 4"
- APPLY 3 ROWS OF **APPROVED SEALANT** WITH **SEALANT SPACING** AS 1".
- USE **APPROVED SELF-SEALING FASTENER** AS SHOWN



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DELTA/TUFF RIB PANEL

GABLE TRIM STEP



PROCEDURE:

1. CUT ALL **GREEN LINES**.
2. **DIMENSIONS A** IS BASED ON WHICH STYLE TRIM AND **ROOF PITCH**

Pitch	Dimension A (2x6) (inch)	Dimension A (2x8) (inch)
3:12	1 7/8 "	2 1/4 "
4:12	2 7/16"	3 "
5:12	3 1/16"	3 3/4 "
6:12	3 5/8 "	4 7/16"
7:12	4 3/16"	5 3/16"
8:12	4 3/4 "	5 7/8 "
9:12	5 3/8 "	6 5/8 "
10:12	5 15/16"	7 3/8 "
11:12	6 1/2 "	8 1/16"
12:12	7 1/16"	8 13/16"

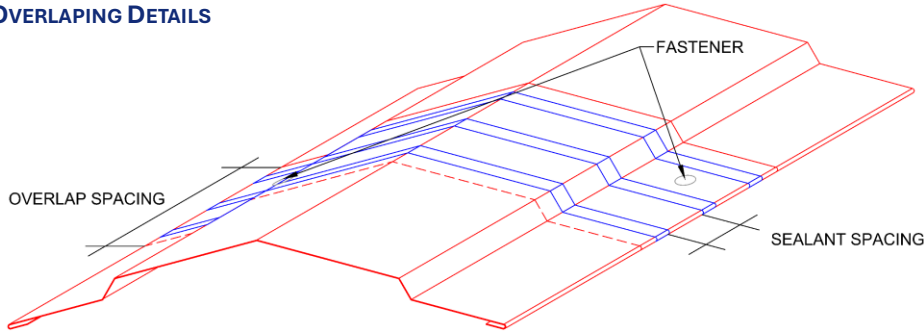


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WORKS, INC.

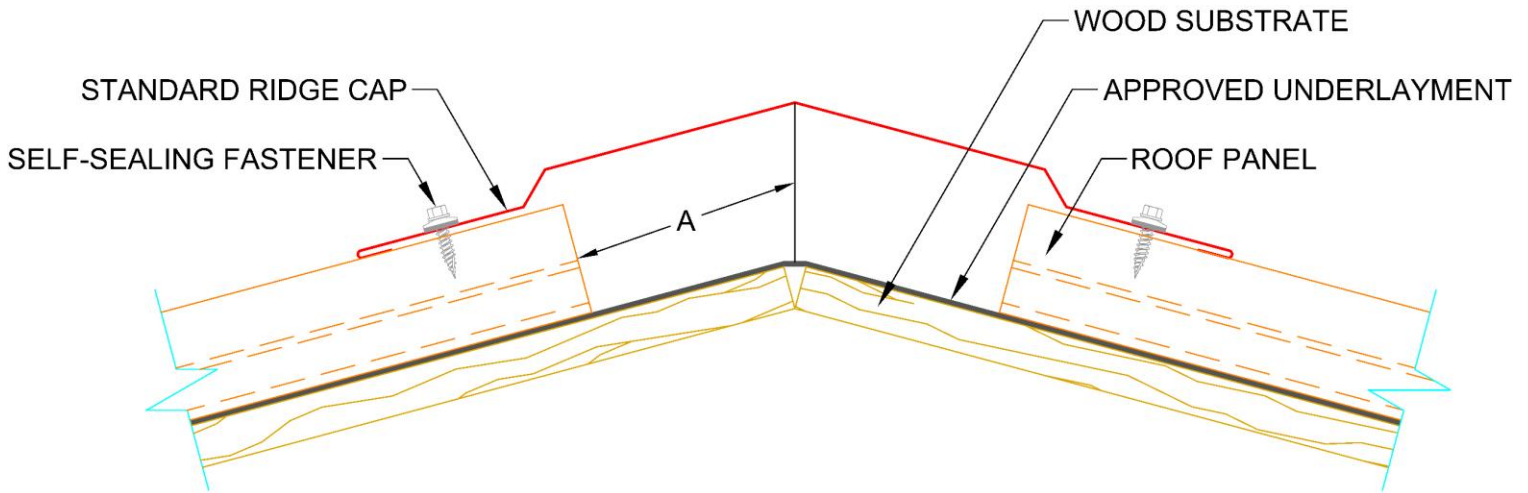
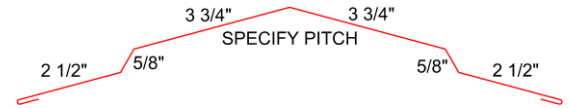
DELTA/TUFF RIB PANEL

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 **SELF-SEALING FASTENERS** INTO THE **MAJOR RIBS** OF THE **ROOF PANELS**.
5. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAPPING NOTES:

- **OVERLAPPING SPACING** IS 4"
- APPLY 3 ROWS OF **APPROVED SEALANT** WITH **SEALANT SPACING** AS 1".
- **APPROVED SELF-SEALING FASTENER** AS SHOWN

NOTES:

- **DIMENSION A** IS BETWEEN 1" TO 3" FROM ROOF PEAK.

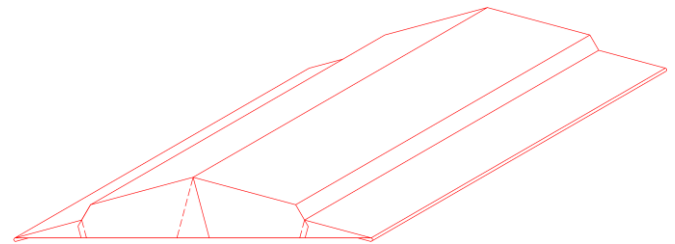
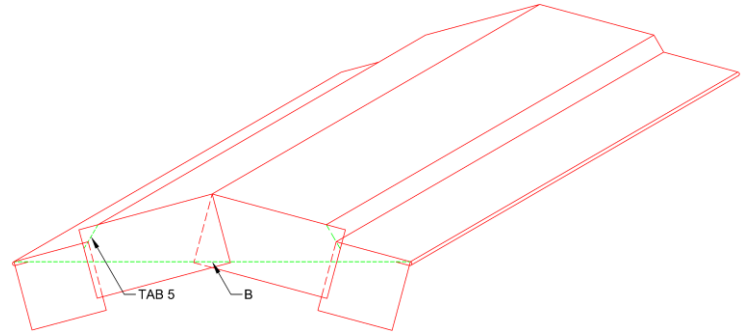
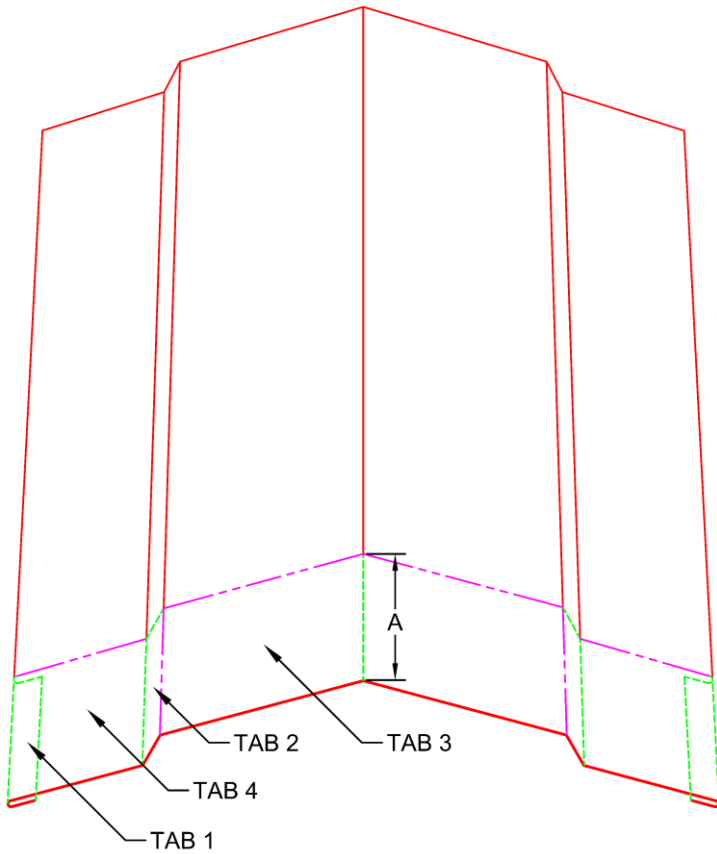
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DELTA/TUFF RIB PANEL

RIDGE CAP
STANDARD



PROCEDURE:

1. CUT **GREEN LINES**, REMOVING THE HEMS (**TAB 1**).
2. BEND **TAB 2** UPWARDS TO BE FLAT WITH **TAB 3**
3. BEND NEW **TAB 3 AND 4** DOWNWARDS AS SHOWN.
4. BEND **TAB 5** UNDER THE **STANDARD RIDGE CAP**.
5. **CUT B** IS MADE FOR ASTHETICS.

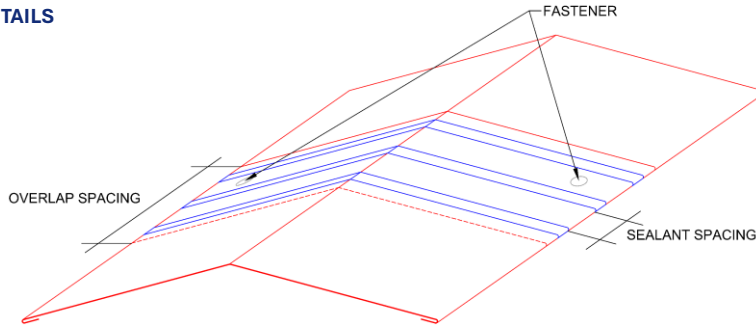


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WORKS, INC.

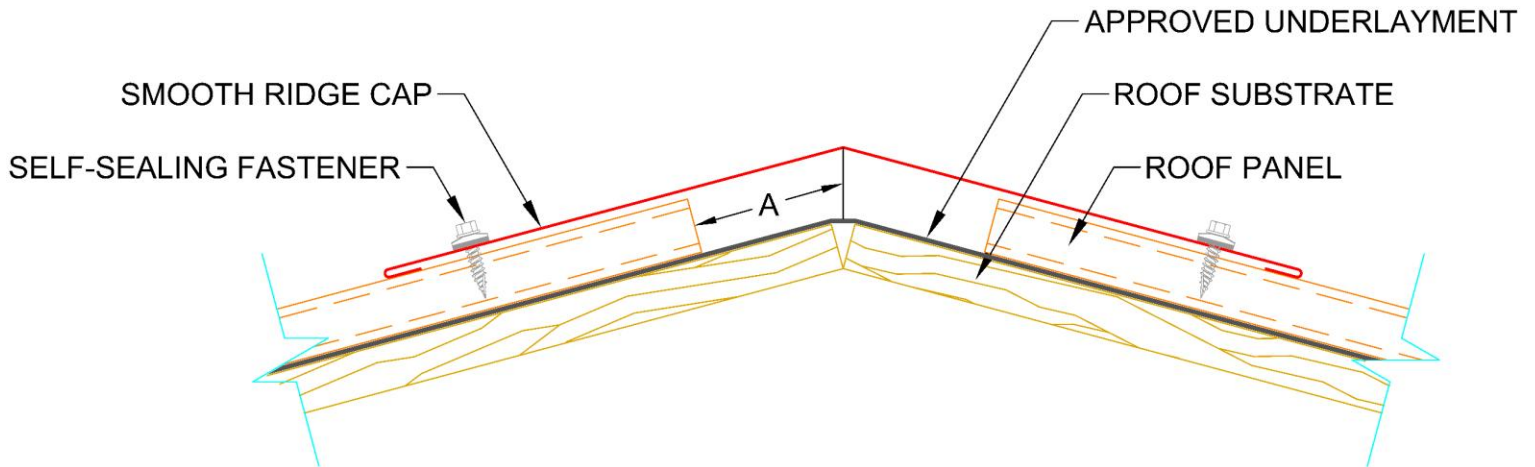
DELTA/TUFF RIB PANEL

RIDGE CAP SMOOTH

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 **SMOOTH RIDGE CAP** USING **SELF-SEALING FASTENERS** INTO THE **MAJOR RIBS** OF THE **ROOF PANELS**.
5. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAPPING NOTES:

- **OVERLAPPING SPACING** IS 4"
- APPLY 3 ROWS OF **APPROVED SEALANT** WITH **SEALANT SPACING** AS 1".
- USE APPROVED **SELF-SEALING FASTENER** SPACED 4" CENTERED ON EACH TRIM FACE AS SHOWN.

NOTES:

- **DIMENSION A** IS MAXIMUM 2" FROM ROOF RIDGE.

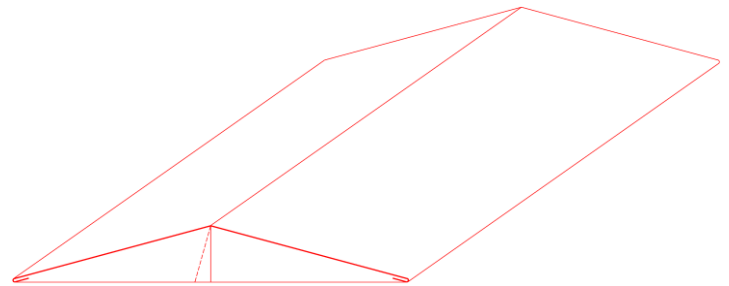
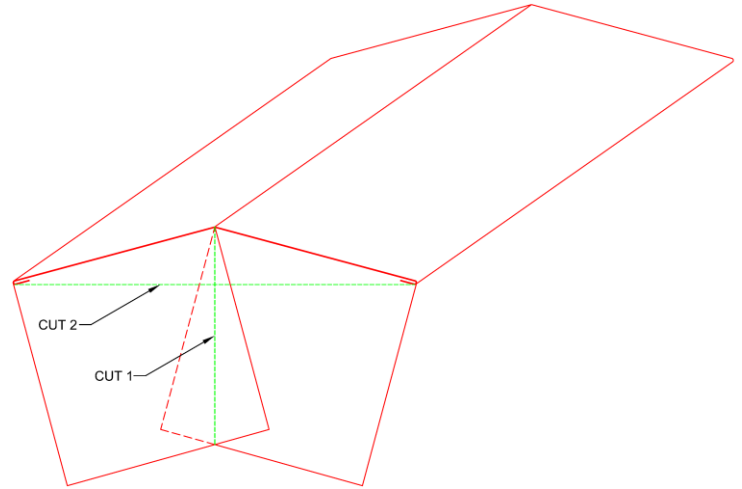
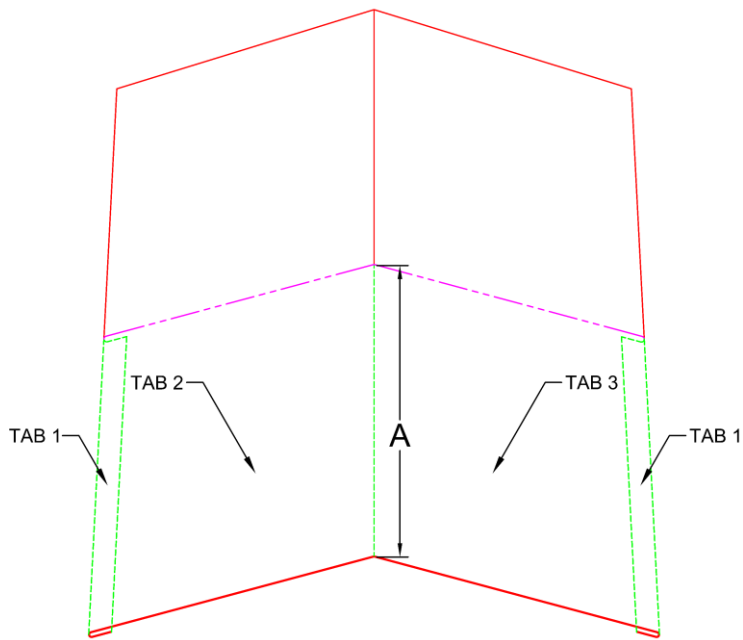
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VANTAGE METAL
WORKS, INC.

DELTA/TUFF RIB PANEL

RIDGE CAP
SMOOTH



PROCEDURE:

1. CUT **GREEN LINES**, REMOVING BOTH **TAB 1** HEMS
2. BEND **TABS 1 AND 2** DOWNWARDS, OVERLAPPING **TAB 2** ON TOP OF **TAB 3**.
3. CUT **1 GREEN LINE** ON **TAB 2** AS SHOWN.
4. CUT **2 GREEN LINE** ACROSS BOTH FLAPS.

NOTES:

- **DIMENSION A** IS **6.5"**.

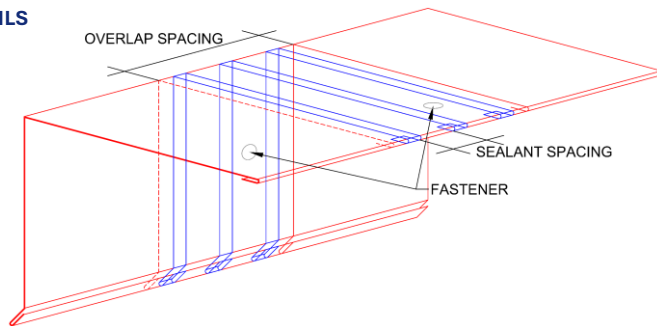


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WORKS, INC.

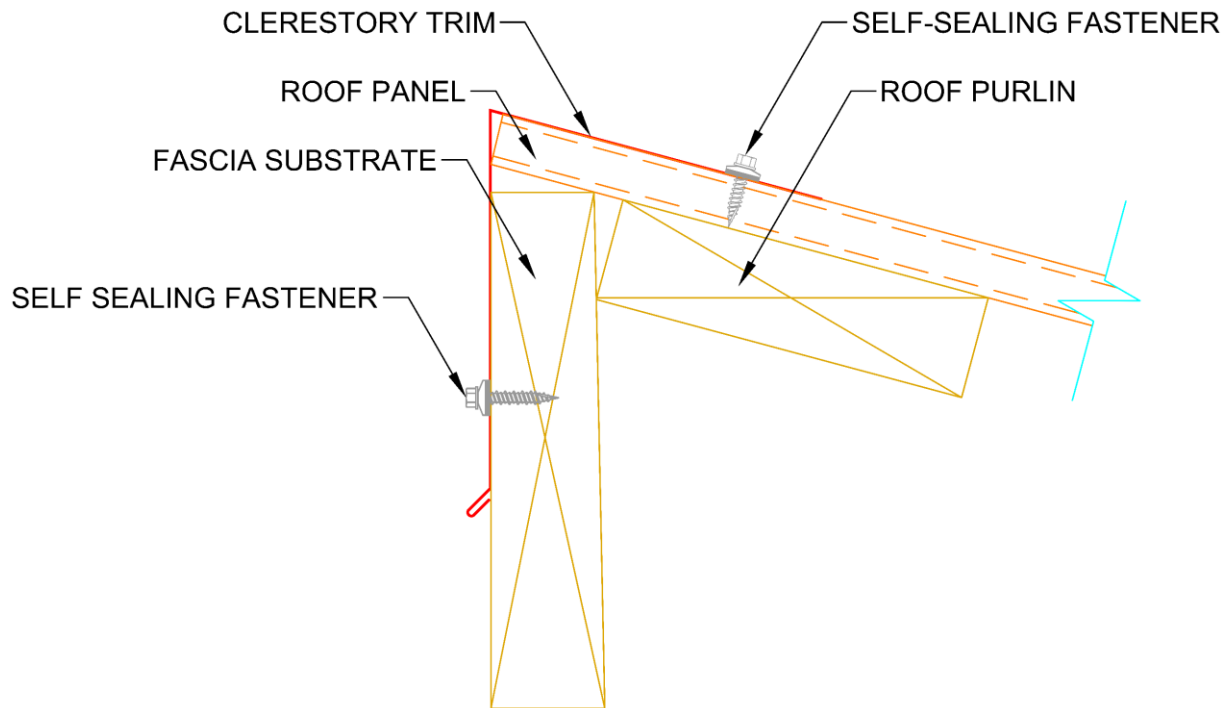
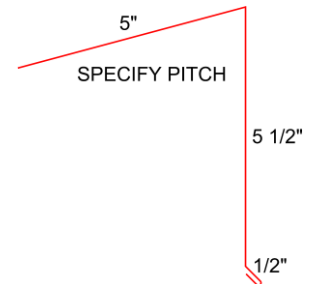
DELTA/TUFF RIB PANEL

CLERESTORY TRIM

OVERLAPING DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **ROOF PANEL** USING TYPICAL INSTALLATION.
3. INSTALL **CLERESTORY TRIM** USING **SELF-SEALING FASTENERS** INTO THE **MAJOR RIBS**.
4. INSTALL **CLERESTORY TRIM** USING **SELF-SEALING FASTENERS** SPACED **24"** INTO **FASCIA SUBSTRATE** OF THE **ROOF PANEL**.
5. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

NOTES:

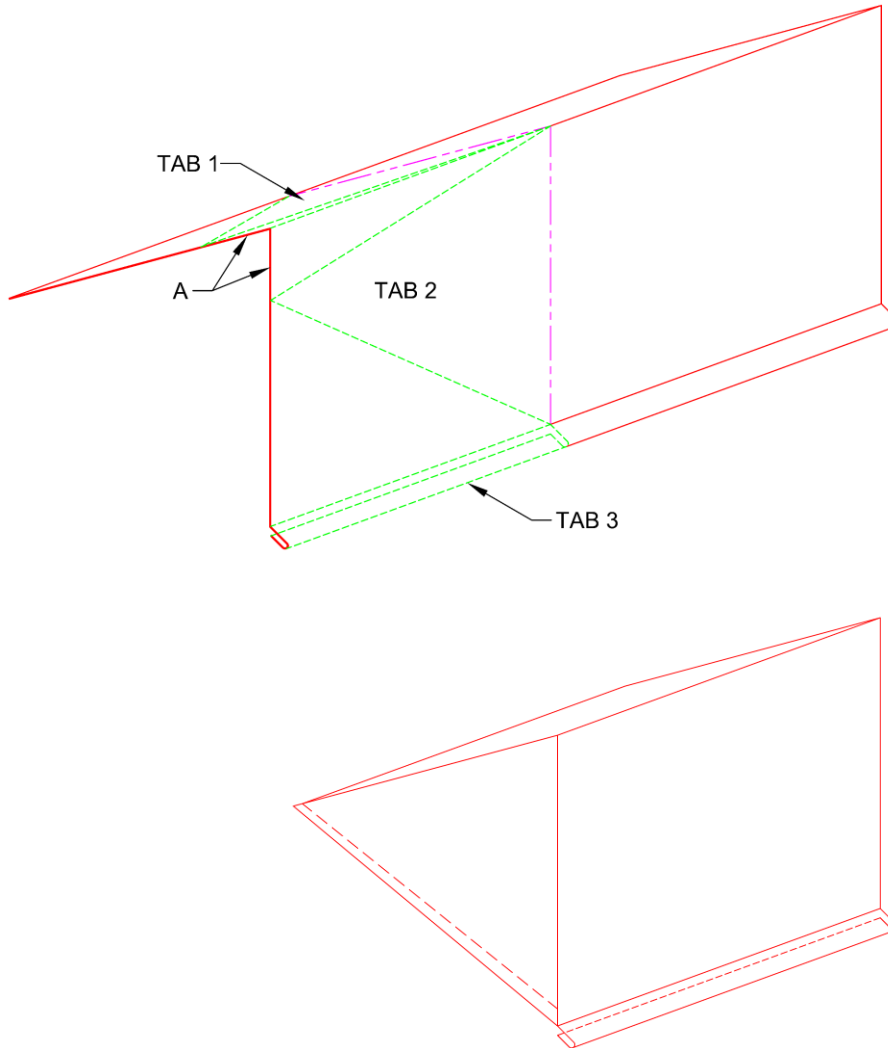
- **OVERLAPPING SPACING** IS 4"
- APPLY 3 ROWS OF **APPROVED SEALANT** WITH **SEALANT SPACING** AS 1".
- USE **APPROVED SELF-SEALING FASTENER** AS SHOWN



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DELTA/TUFF RIB PANEL

CLERESTORY TRIM



PROCEDURE:

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

NOTES:

- **DIMENSIONS A** CAN BE FOUND IN TABLE TO THE RIGHT.

Pitch	Dimension A (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 "



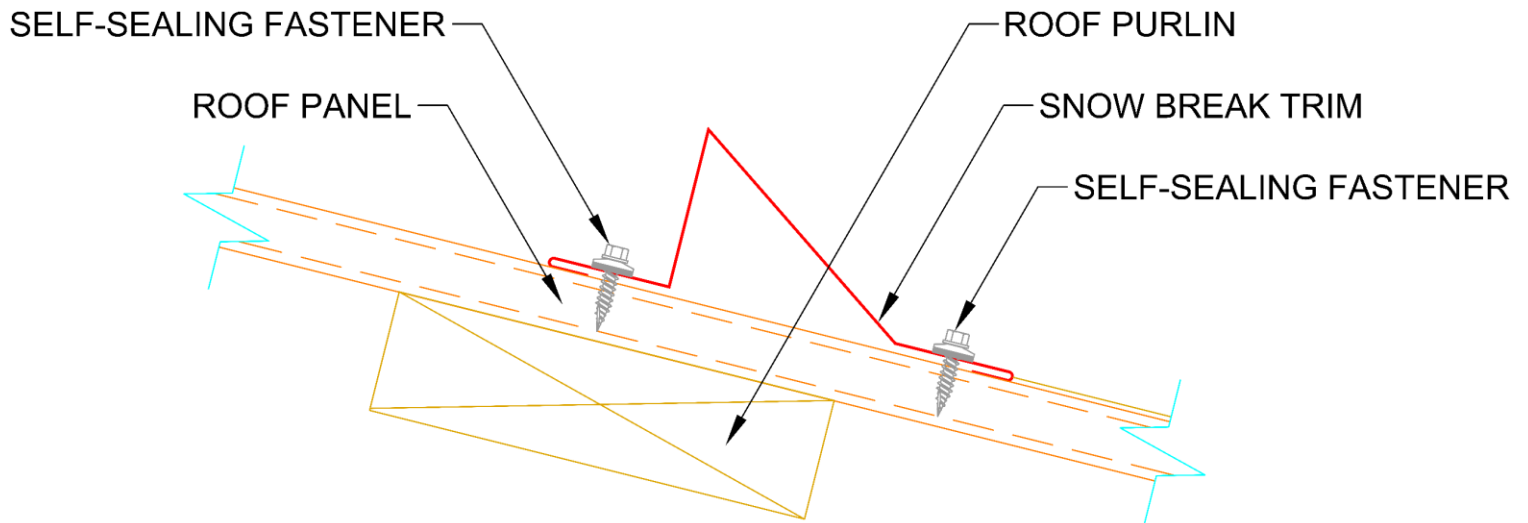
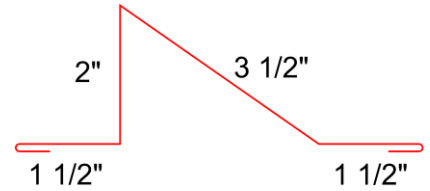
VANTAGE METAL
WORKS, INC.

DELTA/TUFF RIB PANEL

SNOW BREAK TRIM

OVERLAPING DETAILS

DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **ROOF PANELS** USING TYPICAL INSTALLATION.
3. INSTALL **SNOW BREAK TRIM** USING **SELF-SEALING FASTENERS** INTO THE **MAJOR RIBS** OF THE **ROOF PANELS**.
4. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

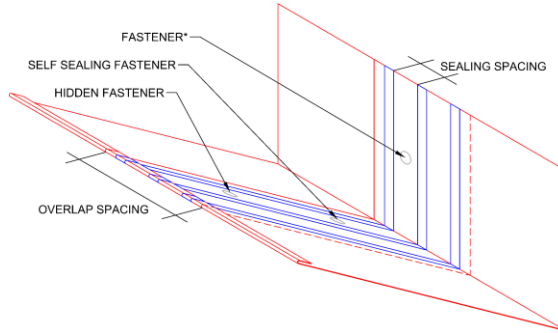


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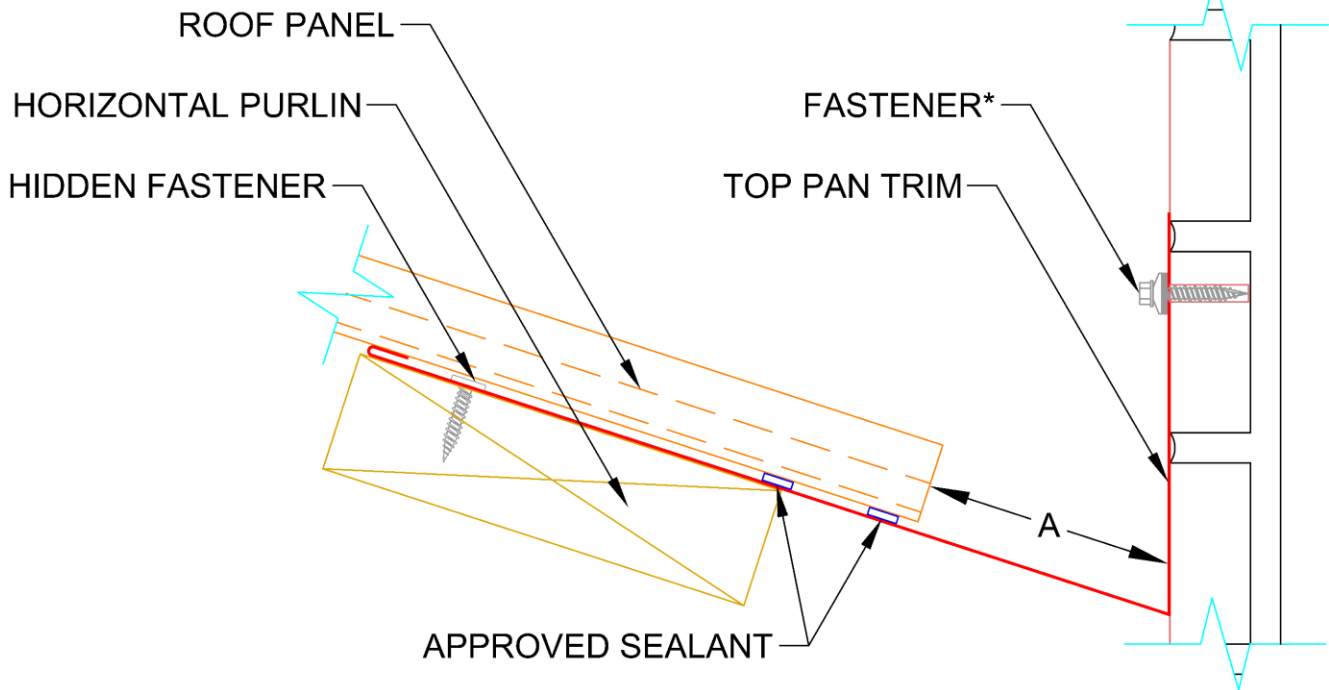
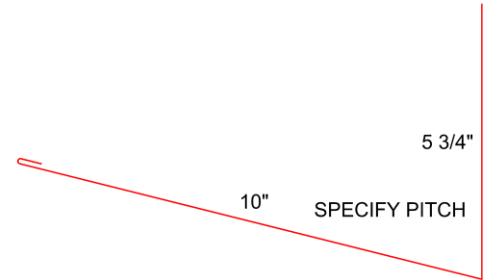
DELTA/TUFF RIB PANEL

TOP PAN TRIM

OVERLAPPING DETAILS



DIMENSIONS



PROCEDURES:

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

OVERLAPPING NOTES:

- **OVERLAPPING SPACING** IS MINIMUM 4".
- APPLY 3 ROWS OF **APPROVED SEALANT** SPACED 1" APART.
- USE **HIDDEN FASTENERS** UNDER **ROOF PANEL** AS SHOWN.
- USE **SELF SEALING FASTENER** ON OPEN FLAT AS SHOWN.
- IF A TRIM IS OVERLAPPING THE **FASTENER***, USE **HIDDEN FASTENERS**, ELSE USE **SELF SEALING FASTENERS**.

NOTES:

- **DIMENSION A** IS MINIMUM 4"

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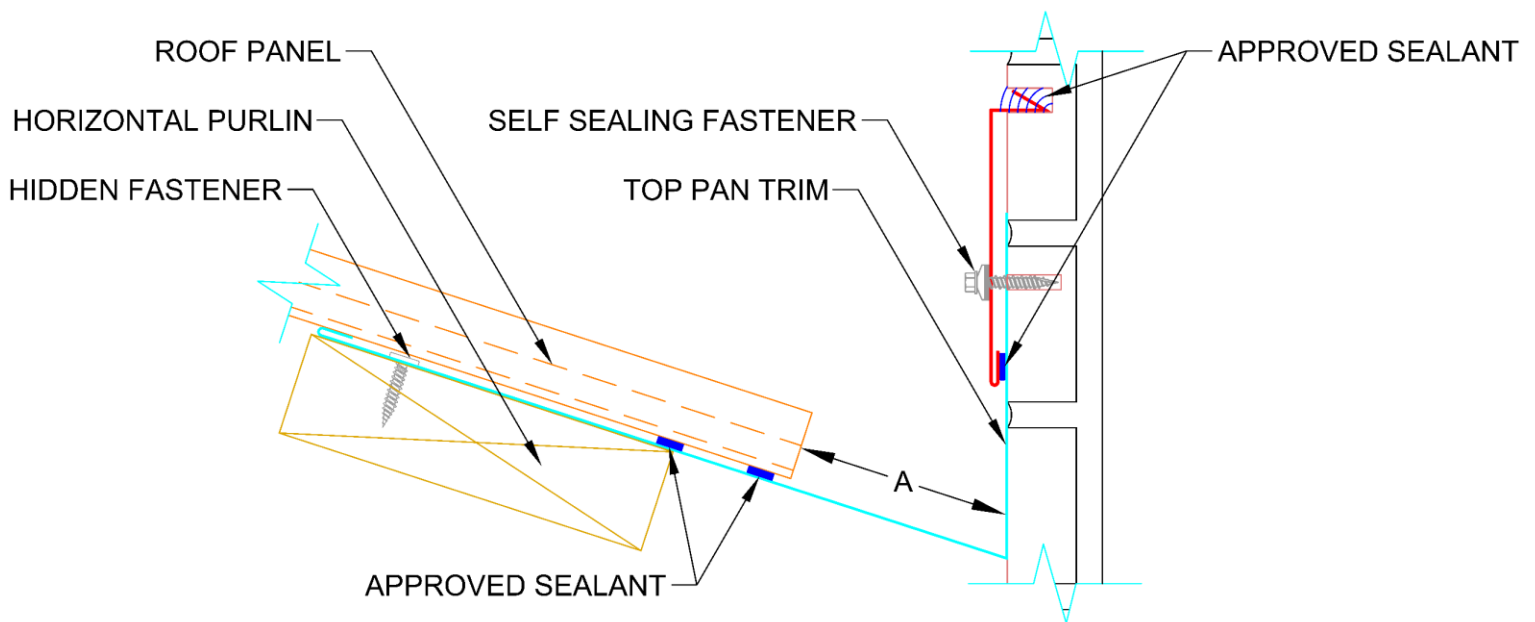
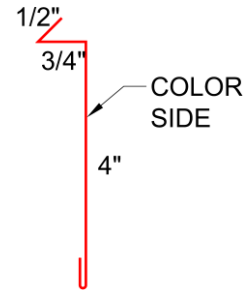
VANTAGE METAL
WORKS, INC.

DELTA/TUFF RIB PANEL

CHIMNEY REGLET TRIM

OVERLAPING DETAILS

DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **APPROVED UNDERLAYMENT** USING MANUFACTURER'S INSTRUCTION.
3. INSTALL ANY TRIM THAT UNDERLAPS **REGLET TRIM** USING TYPICAL INSTALLATION. SEE TOP PAN, ENDWALL, AND SIDEWALL TRIMS.
4. CUT **1"** DEEP **REGLET CUT** APPROXIMATELY **1"** FROM TOP OF UNDERLAPPING TRIM.
5. CLEAN OUT **REGLET CUT** AND APPLY **APPROVE SEALANT** A MINIMUM OF **1/2"** THICK.
6. APPLY **APPROVED SEALANT** TO HEM OF **REGLET TRIM** BETWEEN **REGLET TRIM** AND UNDERLAPPING TRIM.
7. INSTALL **REGLET TRIM** AS SHOWN, USING **SELF SEALING FASTENER** SPACED **24"** ALONG TRIM EDGE.
8. APPLY ADDITIONAL **APPROVED SEALANT** TO FILL THE **REGLET CUT** ON TOP OF **REGLET TRIM**.
9. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

NOTES:

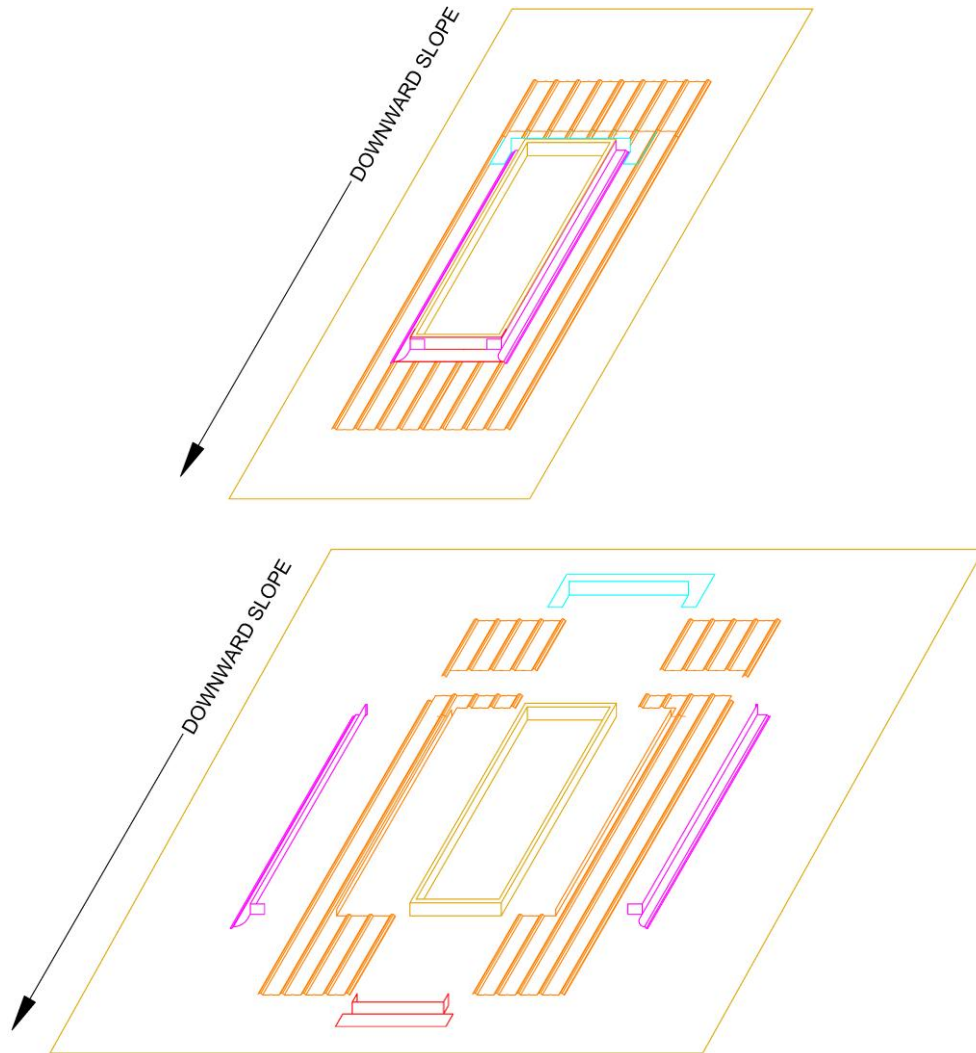
- REGLET CUT IS **1"** DEEP AND **1/4"** WIDE.



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DELTA/TUFF RIB PANEL

CHIMNEY/SKYLIGHT OVERVIEW



- **5 FLASHING FOR A CHIMNEY OR SKYLIGHT:**

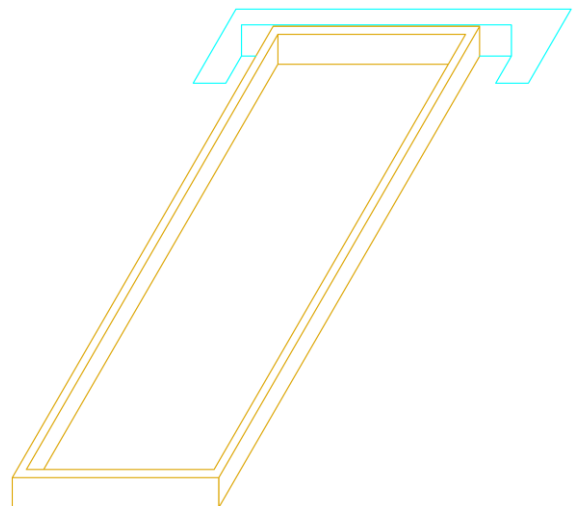
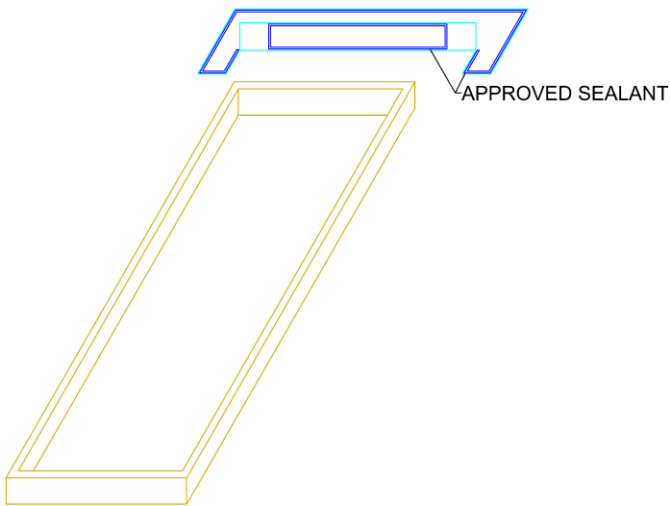
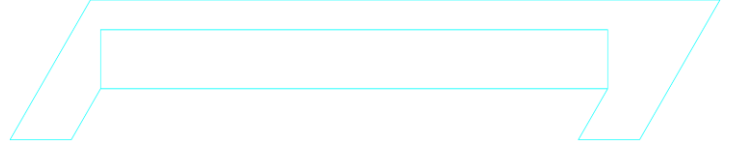
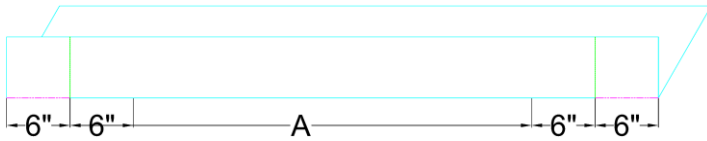
- TOP PAN TRIM.
- LOWER ROOF PANELS, LEFT AND RIGHT.
- UPPER ROOF PANELS, LEFT AND RIGHT.
- ENDWALL TRIM.
- SIDEWALL TRIM.



VANTAGE METAL
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DELTA/TUFF RIB PANEL

CHIMNEY AND SKYLIGHT
TOP PAN



PROCEDURES:

1. CUT **GREEN LINES**
2. BEND **OUTSIDE FLAPS** DOWNWARDS.
3. APPLY **APPROVED SEALANT** AS SHOWN .

NOTES:

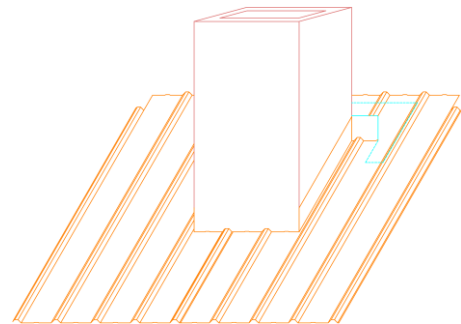
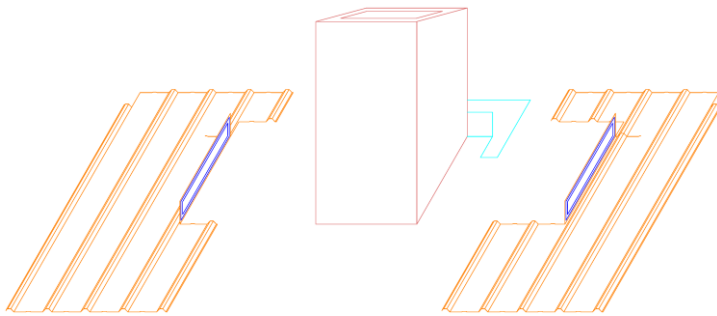
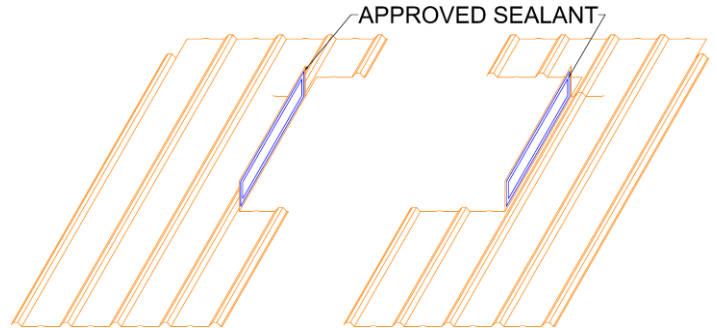
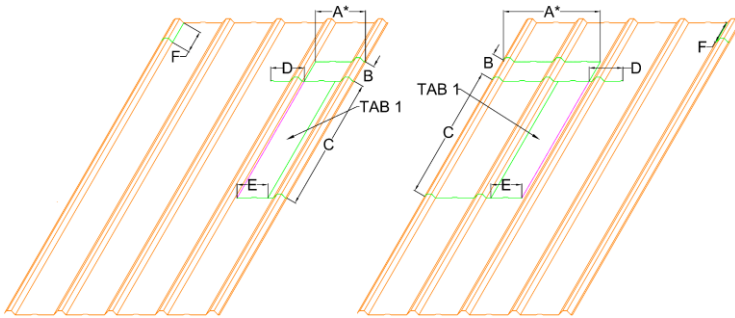
- **DIMENSION A** IS WIDTH OF THE CHIMNEY/SKYLIGHT.



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DELTA/TUFF RIB PANEL

CHIMNEY LOWER ROOF PANEL



PROCEDURES:

1. CUT **GREEN LINES**
2. BEND **TAB 1** UPWARDS.

NOTES:

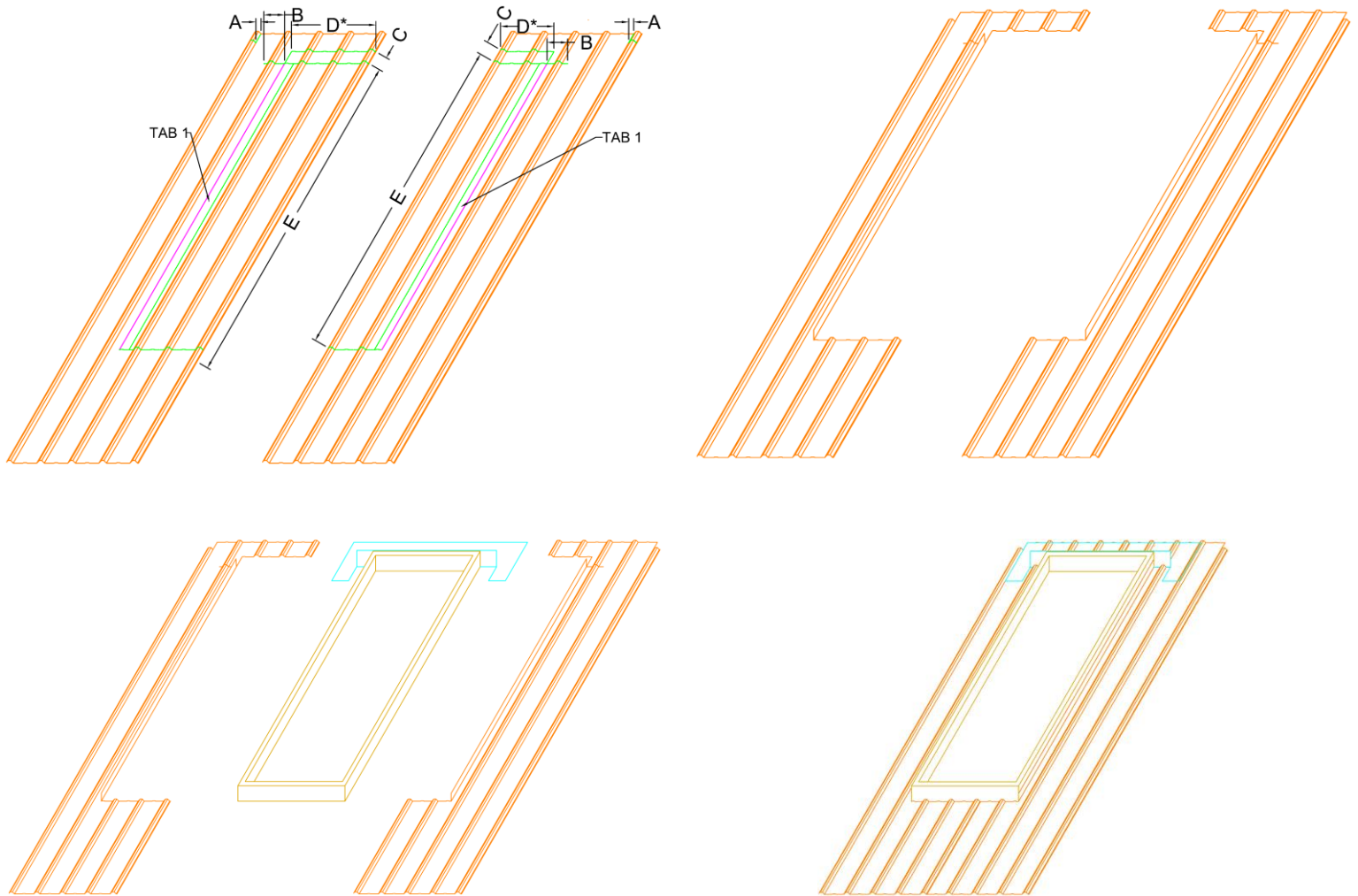
- **DIMENSION A*** IS THE WIDTH OF THE **CHIMNEY/SKYLIGHT** WHEN THE **ROOF PANELS** ARE COMBINED.
- **DIMENSION B** IS **6"**.
- **DIMENSION C** IS LENGTH OF THE **CHIMNEY/SKYLIGHT**.
- **DIMENSION D** IS **6"**
- **DIMENSION E** IS **5 1/2"**.
- **DIMENSION F** IS **4"**.
- SLIDE CUT OUTS OF **DIMENSION B** OVER THE **TOP PAN TRIM** AS SHOWN.
- APPLY **APPROVED SEALANT** TO **TAB 1** ON THE **CHIMNEY SIDE**.
- APPLY **APPROVED SEALANT** TO ANY OPEN SEAM AND WHERE TRIMS MEET.



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DELTA/TUFF RIB PANEL

SKYLIGHT LOWER ROOF PANEL



PROCEDURES:

1. CUT **GREEN LINES**
2. BEND **TAB 1** UPWARDS.
3. APPLY **APPROVED SEALANT** TO ANY OPEN SEAM.

NOTES:

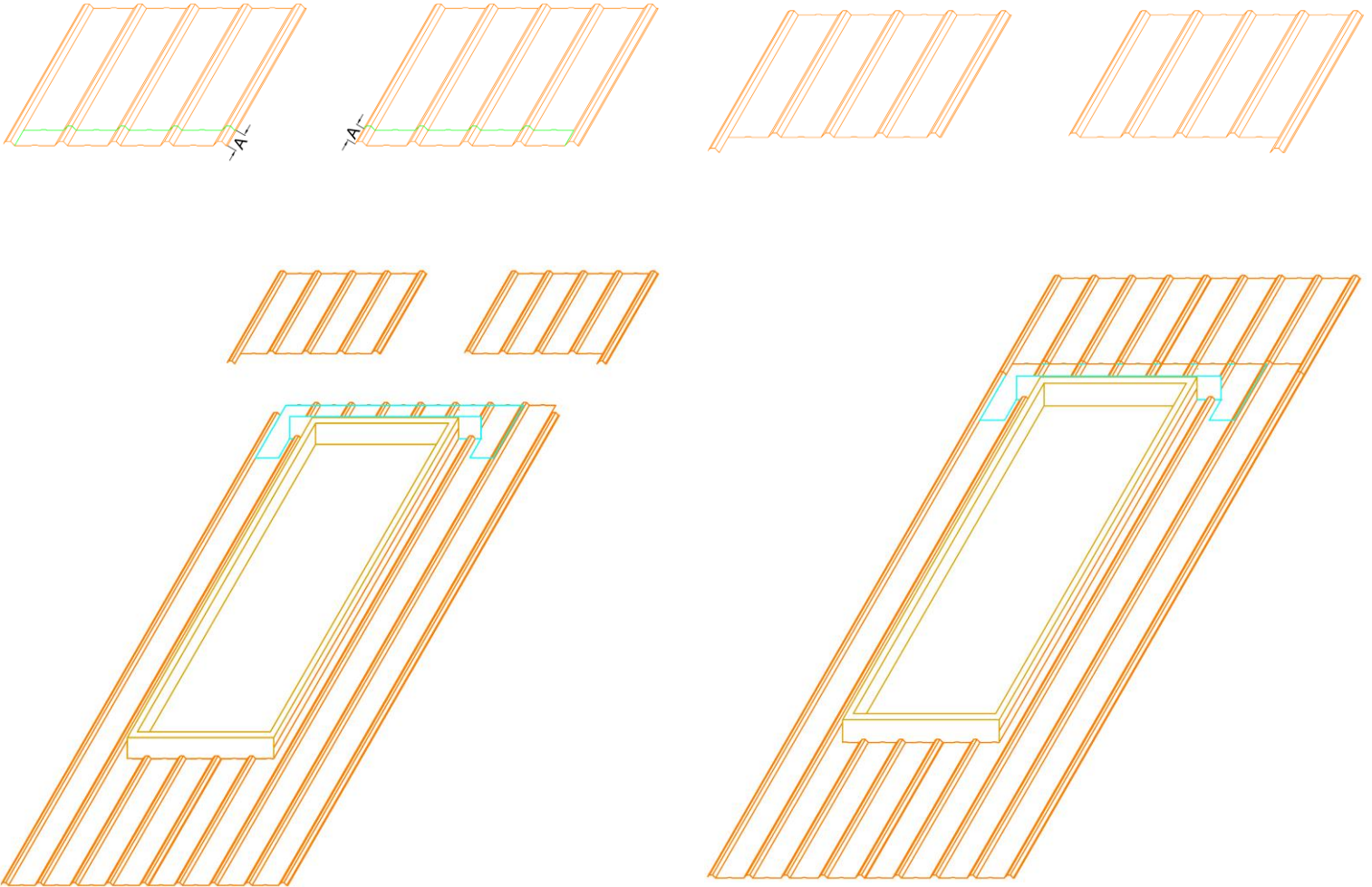
- **DIMENSION A** IS 4".
- **DIMENSION B** IS 6".
- **DIMENSION C** IS 4".
- **DIMENSION D*** IS THE WIDTH OF THE **CHIMNEY/SKYLIGHT** WHEN THE **ROOF PANELS** ARE COMBINED.
- **DIMENSION E** IS LENGTH OF THE **CHIMNEY/SKYLIGHT**.
- SLIDE CUT OUTS OF **DIMENSION B** OVER THE **TOP PAN TRIM** AS SHOWN.



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WORKS, INC.

DELTA/TUFF RIB PANEL

CHIMNEY/SKYLIGHT
UPPER ROOF PANELS



PROCEDURES:

1. CUT GREEN LINES

NOTES:

- DIMENSION A IS 4".

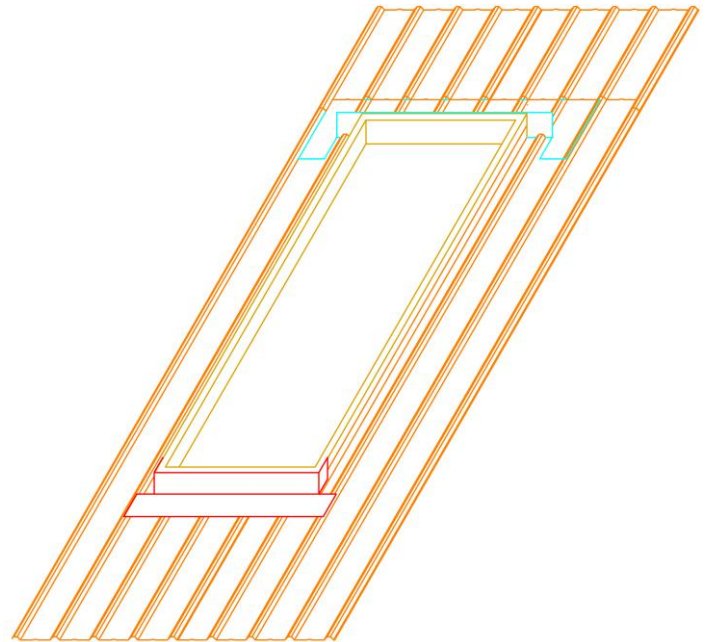
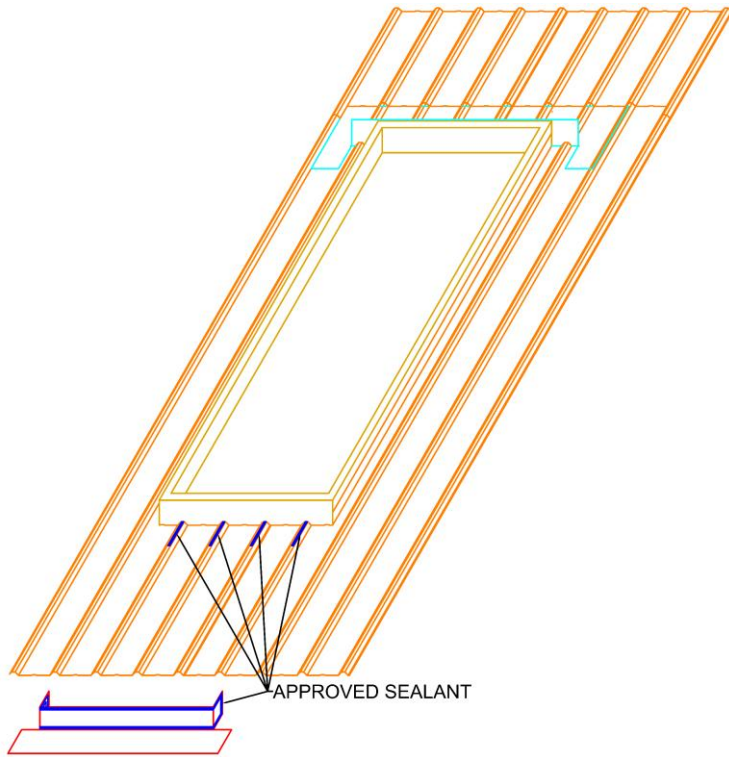
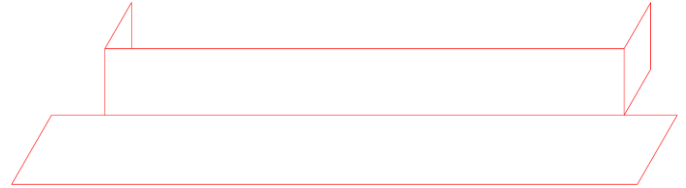
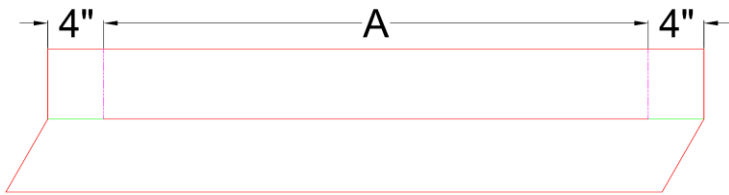
INTERLOCK THE CUT-OFFS OF THE **ROOF PANEL'S MAJOR RIBS** AS SHOWN



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DELTA/TUFF RIB PANEL

CHIMNEY/SKYLIGHT
UPPER ROOF PANELS



PROCEDURES:

1. CUT **GREEN LINES**
2. BEND **TABS** BACKWARDS.
3. APPLY **APPROVED SEALANT** AS SHOWN.

NOTES:

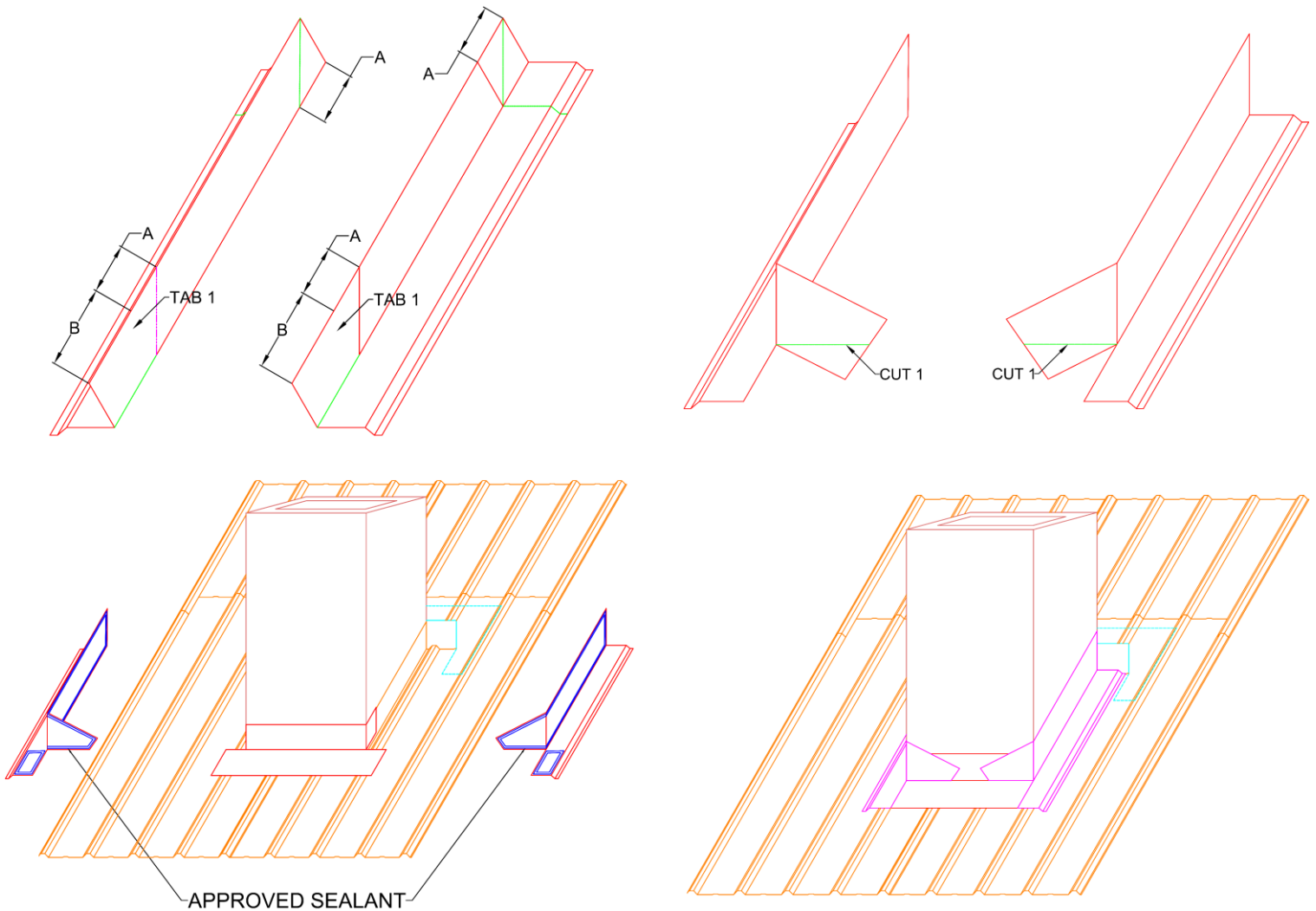
- **DIMENSION A** IS THE WIDTH OF THE **CHIMNEY/SKYLIGHT**.



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DELTA/TUFF RIB PANEL

CHIMNEY SIDEWALL



PROCEDURES:

1. CUT GREEN LINES, REMOVING UPPER SECTION
2. BEND **TAB 1** INWARD.
3. CUT 1 IS A HORIZONTAL CUT.
4. APPLY **APPROVED SEALANT** ALONG THE TRIM EDGE AS SHOWN.
5. APPLY **APPROVED SEALANT** WHERE **SIDEWALL TRIM** MEETS **ENDWALL TRIM**.
6. APPLY **APPROVED SEALANT** TO ANY OPEN SEAM BETWEEN TRIMS.

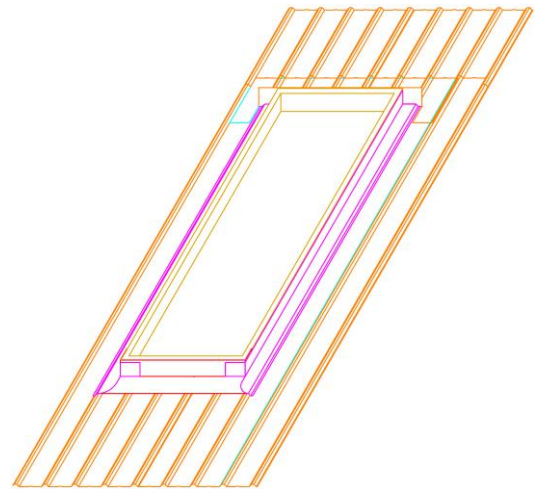
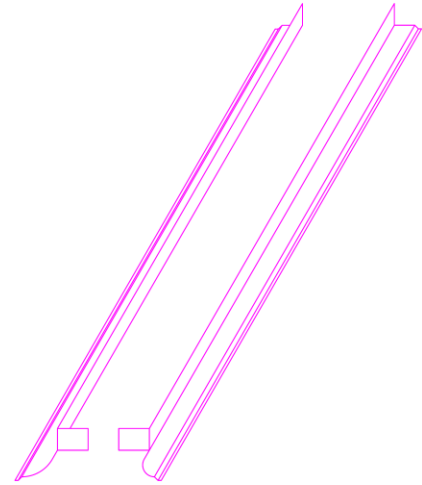
NOTES:

- **DIMENSION B** IS 4".
- **DIMENSION A** IS BASED ON **ROOF PITCH**.

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



SKYLIGHT SIDEWALL



1. CUT GREEN LINES.
2. BEND **TAB 1** INWARD.
3. **CUT B** IS AN OPTIONAL ASTHETICS CUT.
4. APPLY **APPROVED SEALANT** ALONG THE TRIM EDGE AS SHOWN.
5. APPLY **APPROVED SEALANT** WHERE **SIDEWALL TRIM** MEETS **ENDWALL TRIM**.
6. APPLY **APPROVED SEALANT** TO ANY OPEN SEAM BETWEEN TRIMS.

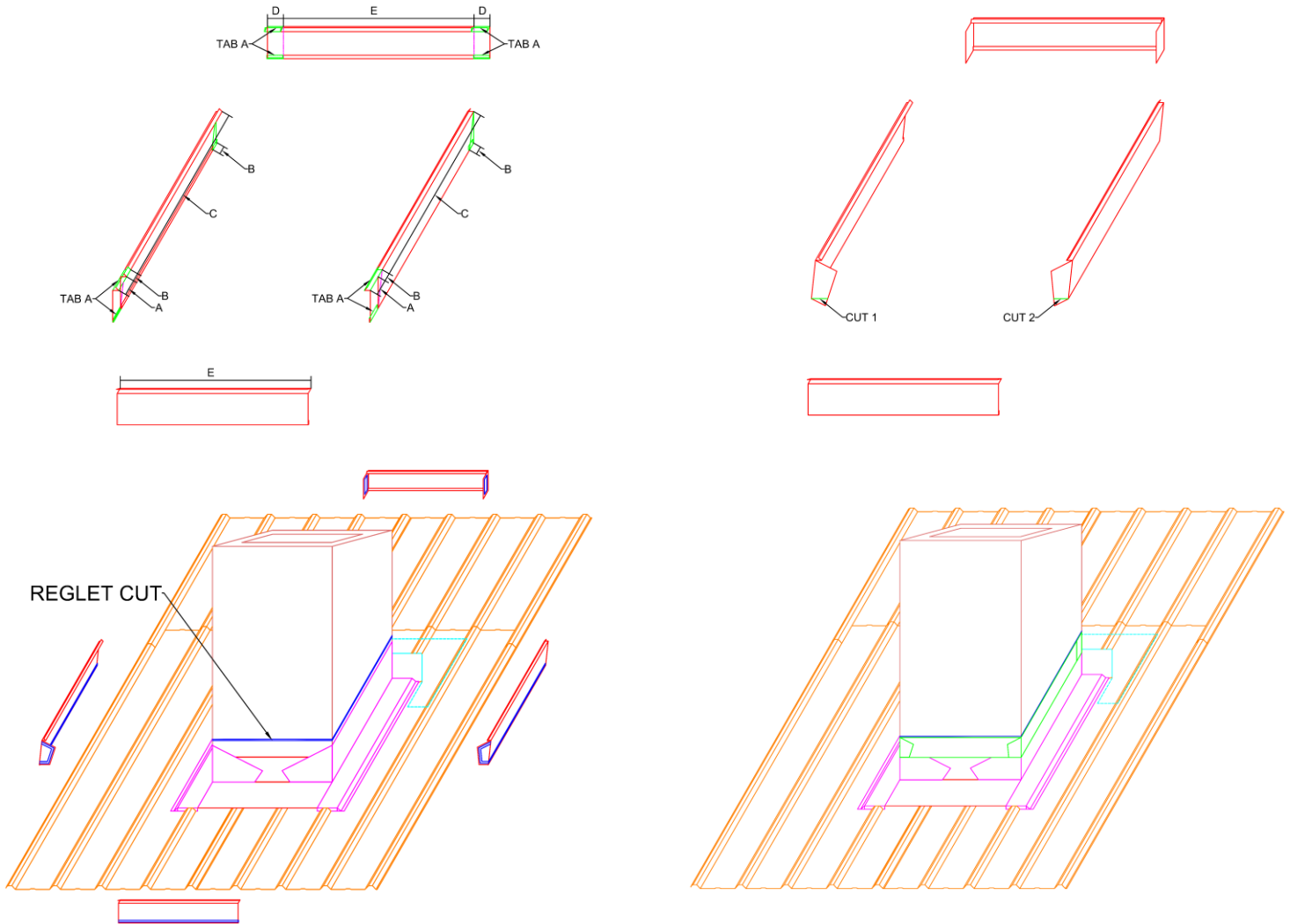
- **DIMENSION A IS 4".**



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WORKS, INC.

DELTA/TUFF RIB PANEL

CHIMNEY REGLET TRIM



PROCEDURES:

1. CUT GREEN LINES.
2. REMOVE ALL **TAB A** LOCATIONS.
3. REMOVE THE UPPER CUTS ON THE SIDE **REGLET TRIMS** PIECES.
4. CUT **1"** DEEP **REGLET CUT** APPROXIMATELY **1"** FROM TOP OF UNDERLAPPING TRIM.
5. CLEAN OUT **REGLET CUT** AND APPLY **APPROVE SEALANT** A MINIMUM OF **1/2"** THICK.
6. INSTALL **REGLET TRIM** USING TYPICAL INSTALLATION.
7. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

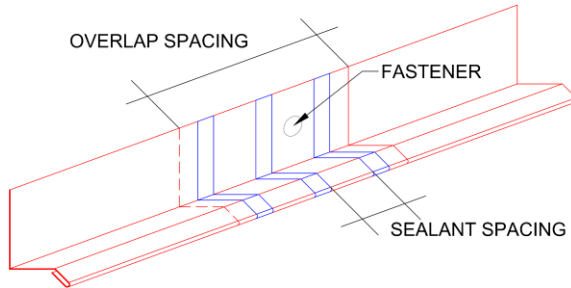


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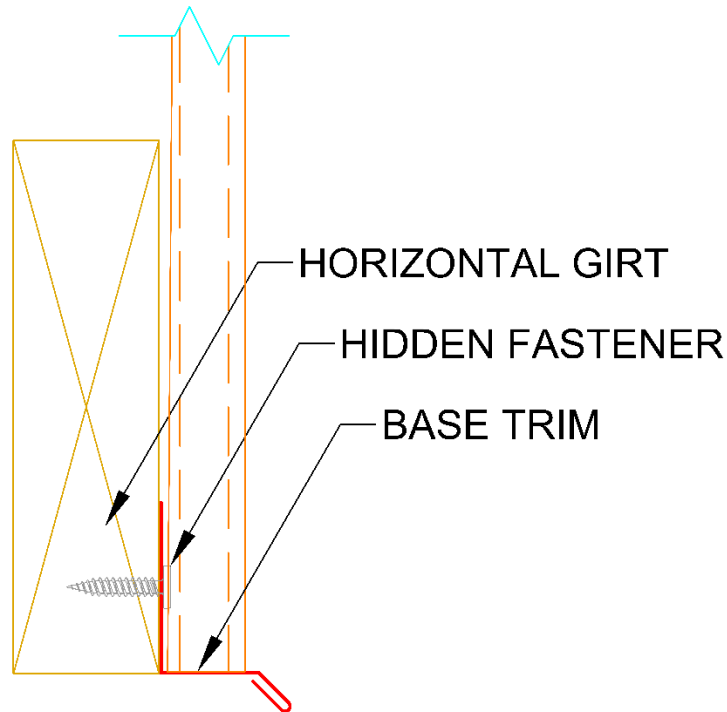
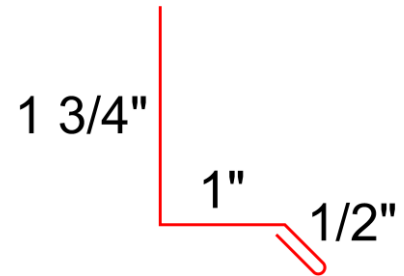
DELTA/TUFF RIB PANEL

BASE TRIM

OVERLAPING DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **BASE TRIM** ON LOWEST **HORIZONTAL GIRT** USING **HIDDEN FASTENERS** SPACED 24" ALONG **HORIZONTAL GIRT**.
3. INSTALL **SIDING PANELS** USING TYPICAL INSTALLATION.
4. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAP NOTES:

- **OVERLAPPING SPACING** IS 3"
- APPLY 3 ROWS OF **APPROVED SEALANT** WITH **SEALANT SPACING** AS 1".
- USE APPROVED **HIDDEN FASTENER** AS SHOWN.

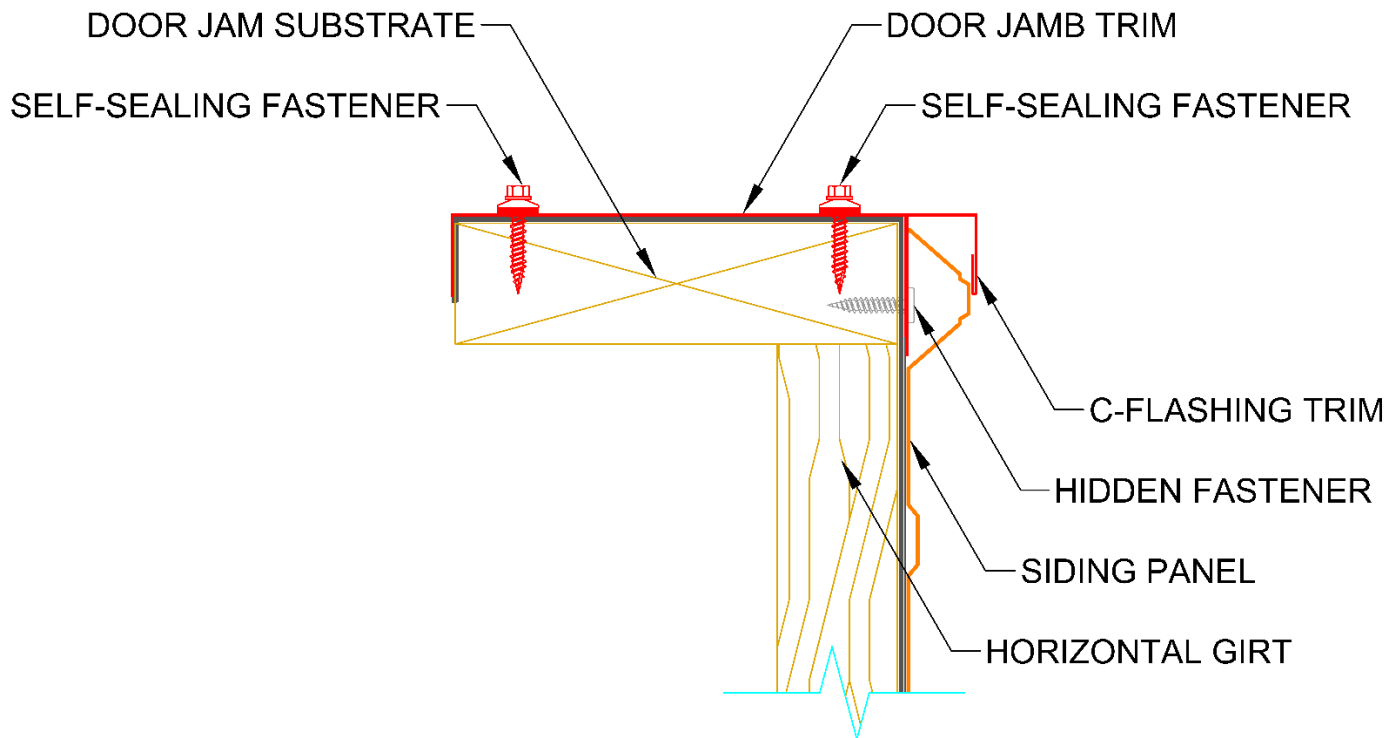
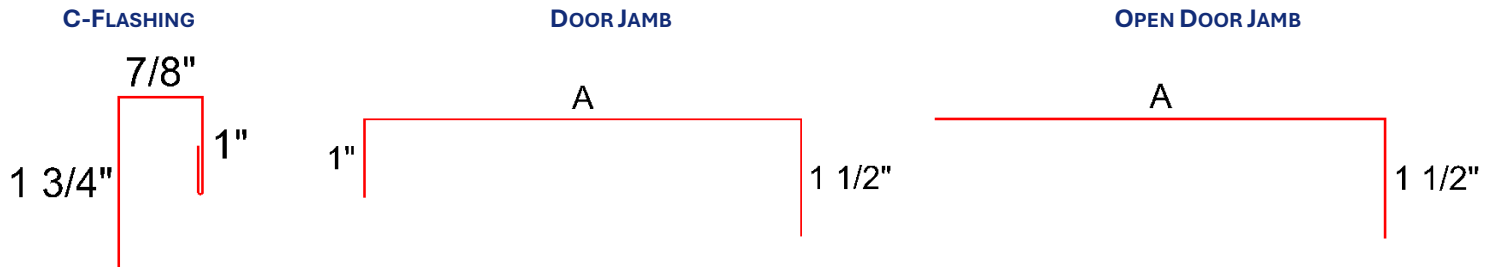


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DELTA/TUFF RIB PANEL

C-FLASHING AND DOOR JAMB TRIMS

OVERLAPING DETAILS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **APPROVED UNDERLAYMENT** USING MANUFACTURER'S INSTRUCTION.
3. INSTALL **DOOR JAMB TRIM** USING **SELF-SEALING FASTENER** SPACED HORIZONTALLY **4"** APART CENTERED ON TRIM **24"** SPACING VERTICALLY.
4. INSTALL **C-FLASHING TRIM** ALONG **DOOR JAMB** EDGE, AS SHOWN, USING **HIDDEN FASTENERS**, **24"** SPACING VERTICALLY.
5. INSTALL **SIDING PANELS** USING TYPICAL INSTALLATION.
6. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

NOTE:

- **DIMENSION A** ON EITHER **DOOR JAMB TRIM** IS BASED ON THE SIZE OF THE **DOOR JAMB SUBSTRATE**.

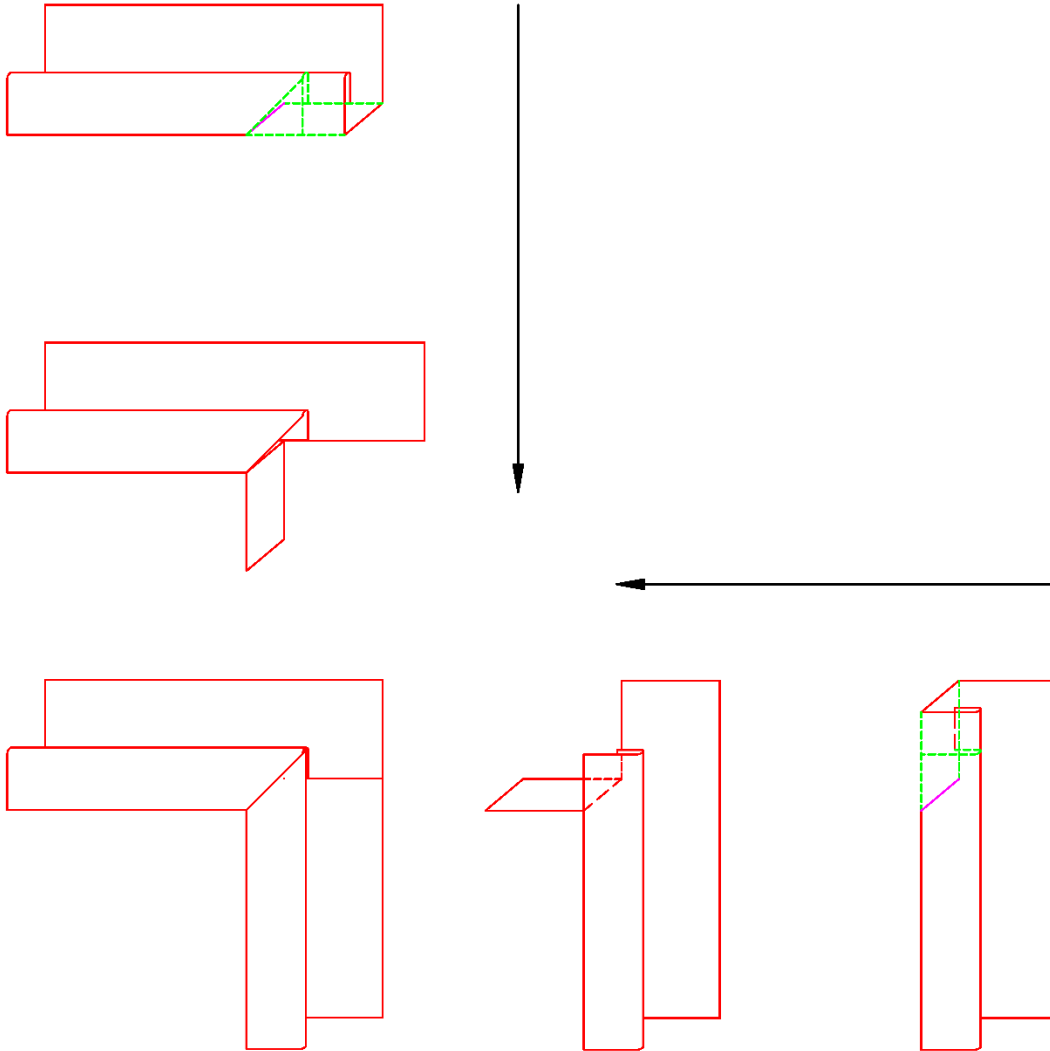
DOOR JAMB SUBSTRATE			
DIMENSION A	2x6	2x8	2x10
	5 5/8"	7 5/8"	9 5/8"



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DELTA/TUFF RIB PANEL

C-FLASHING AND
DOOR JAMB TRIMS



PROCEDURE

1. CUT ALL **GREEN LINES**
2. BEND **C-FLASHING TRIMS** ALONG **PURPLE LINES** AS SHOWN
3. INSTALL THE TWO **SIDE TRIMS** USING **HIDDEN FASTENERS** INTO THE WINDOW/DOOR FRAME.
4. INSTALL THE **TOP TRIM** USING **HIDDEN FASTENERS** INTO THE WINDOW/DOOR FRAME. OVERLAPPING THE **TOP TRIM** OVER THE TWO **SIDE TRIMS** AS SHOWN.

NOTES:

- ENSURE ALL CUTS DONE OPPOSITE OF COLORED SIDE OF TRIM.

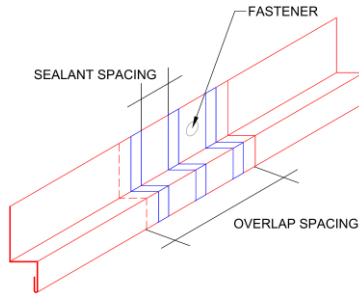


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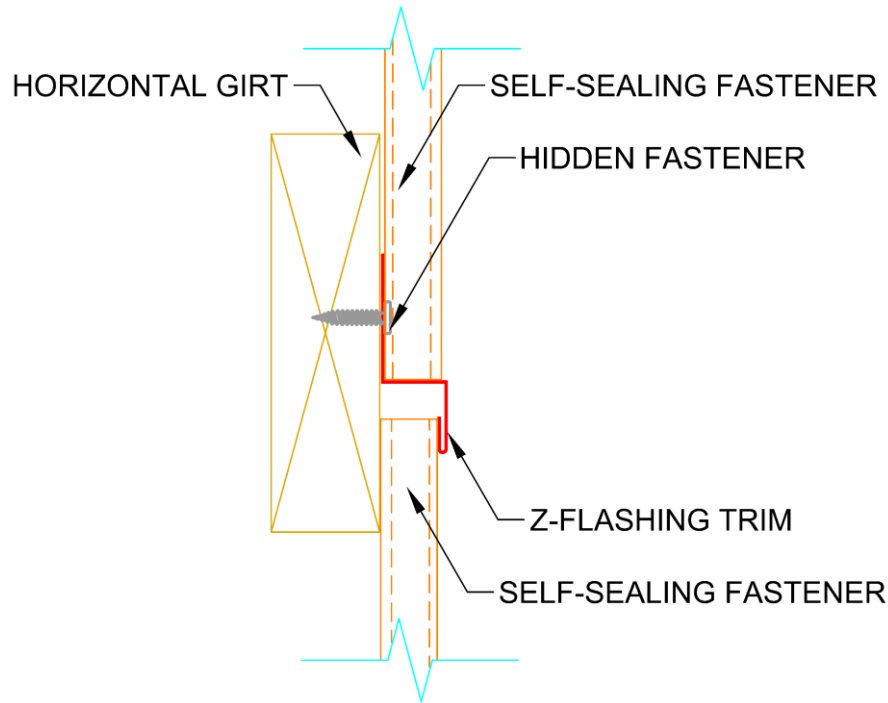
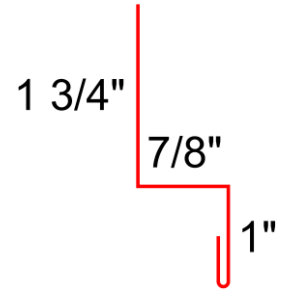
DELTA/TUFF RIB PANEL

Z-FLASHING TRIM

OVERLAPPING DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **Z-FLASHING TRIM** USING TYPICAL INSTALLATION.
3. INSTALL **SIDING PANELS** USING TYPICAL INSTALLATION.
4. INSTALL **SIDING PANELS** *FLUSHED* TO **Z-FLASHING TRIM** USING TYPICAL INSTALLATION.
5. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAPPING NOTES:

- **OVERLAPPING SPACING** IS 3"
- APPLY 3 ROWS OF **APPROVED SEALANT** WITH **SEALANT SPACING** AS 1".
- **APPROVED SELF-SEALING FASTENER** AS SHOWN

NOTES:

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

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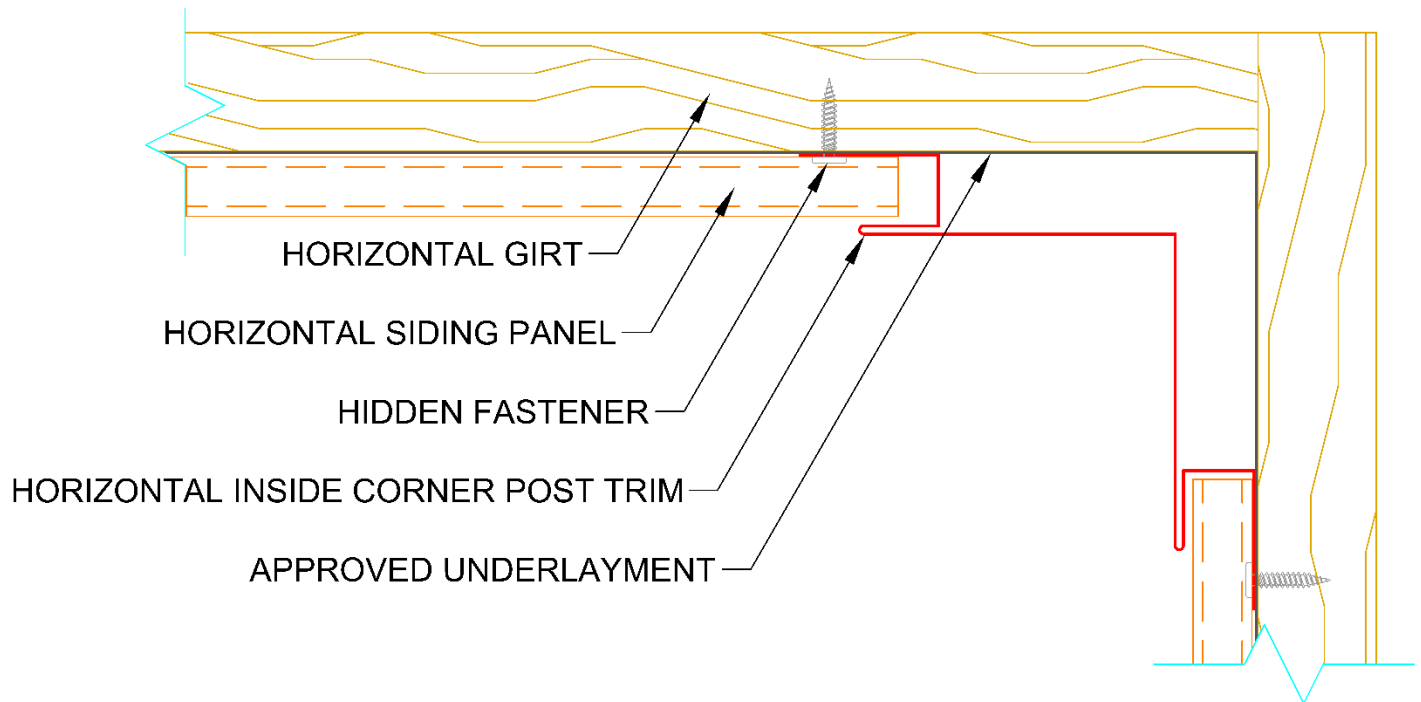
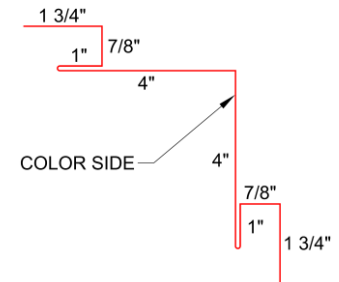
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DELTA/TUFF RIB PANEL

HORIZONTAL CORNER POST TRIM INSIDE

OVERLAPING DETAILS

DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **APPROVE UNDERLAYMENT** USING MANUFACTURER'S INSTRUCTIONS.
3. INSTALL **HORIZONTAL INSIDE CORNER POST TRIM** USING **HIDDEN FASTENERS**, **24"** SPACED VERTICALLY.
4. INSTALL **HORIZONTAL SIDING PANELS** USING TYPICAL INSTALLATION.
5. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWARF**: TRIMMINGS, SHAVINGS, FILINGS, ETC.



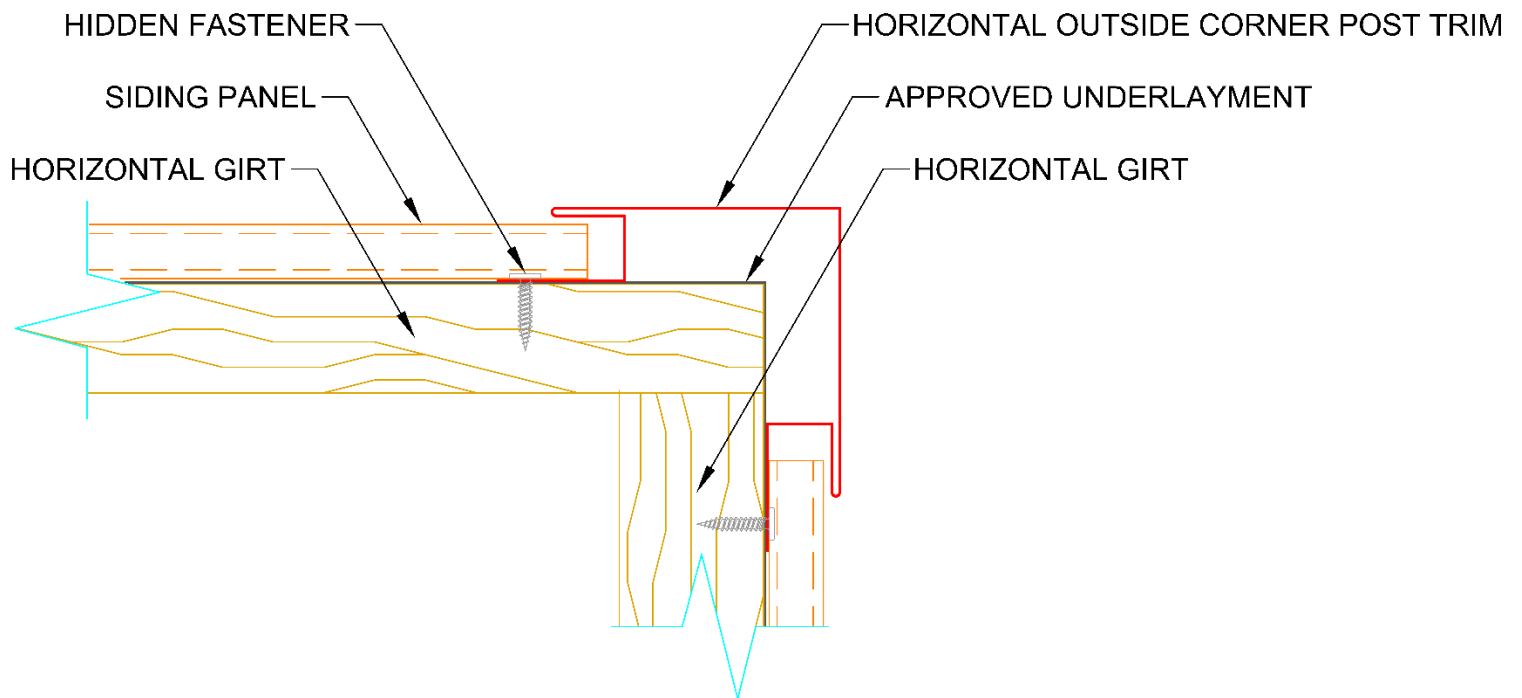
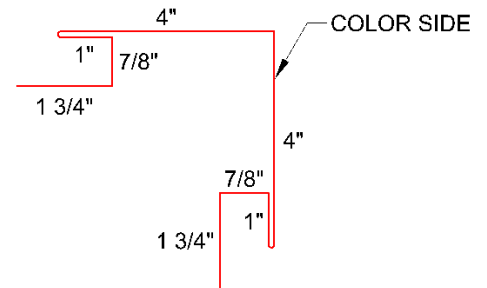
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DELTA/TUFF RIB PANEL

HORIZONTAL CORNER POST TRIM OUTSIDE

OVERLAPING DETAILS

DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **APPROVE UNDERLAYMENT** USING MANUFACTURER'S INSTRUCTIONS.
3. INSTALL **HORIZONTAL INSIDE CORNER POST TRIM** USING **HIDDEN FASTENERS, 24"** SPACED VERTICALLY.
4. INSTALL **HORIZONTAL SIDING PANELS** USING TYPICAL INSTALLATION.
5. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWARF**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

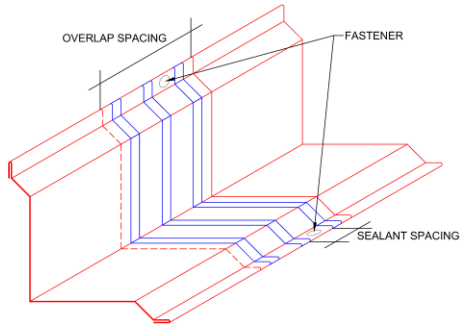


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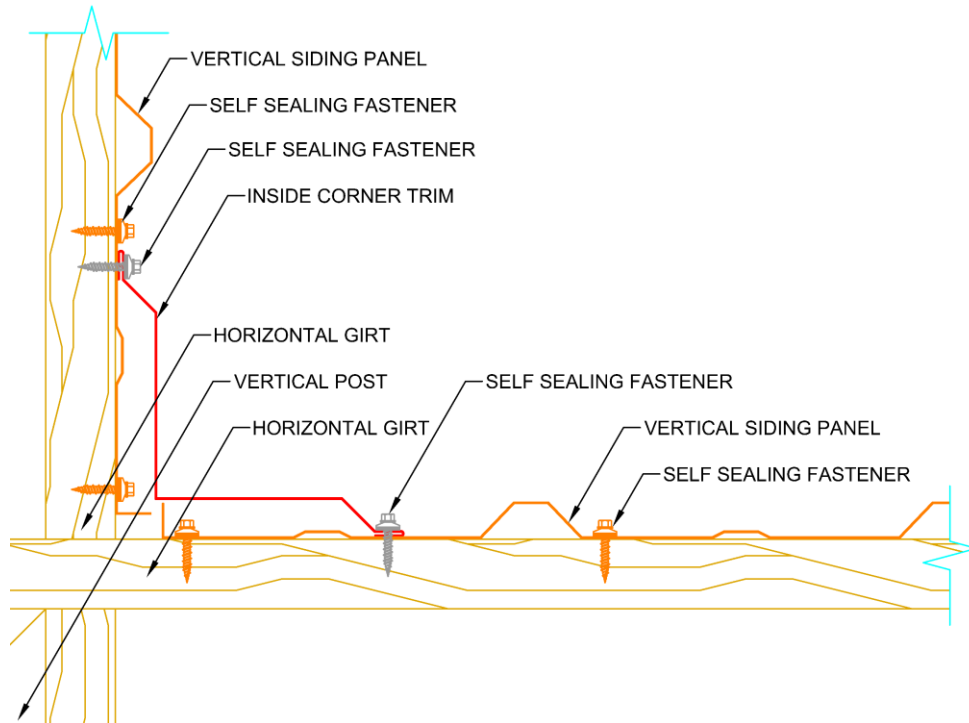
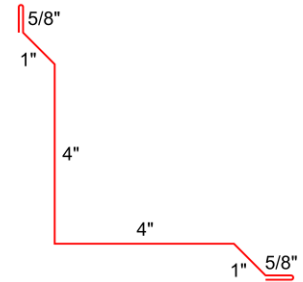
DELTA/TUFF RIB PANEL

CORNER TRIM INSIDE

OVERLAPING DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **SIDING PANELS** USING TYPICAL INSTALLATION AND **SELF-SEALING FASTENERS** SPACED **24"** SEEN IN ORANGE.
3. INSTALL **INSIDE CORNER TRIM** USING **SELF-SEALING FASTENERS** SPACED **24"** SEEN IN GRAY.
4. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAP NOTES:

- **OVERLAPPING SPACING** IS 4"
- APPLY 3 ROWS OF **APPROVED SEALANT** WITH **SEALANT SPACING** AS 1".
- USE APPROVED **SELF-SEALING FASTENERS** AS SHOWN

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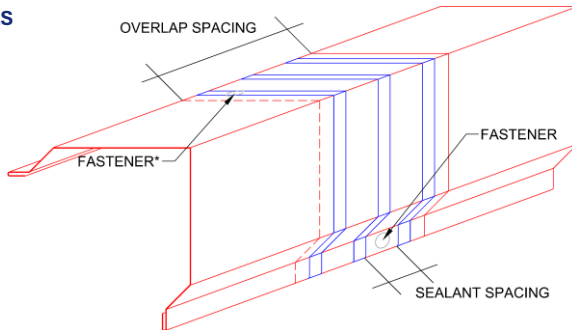


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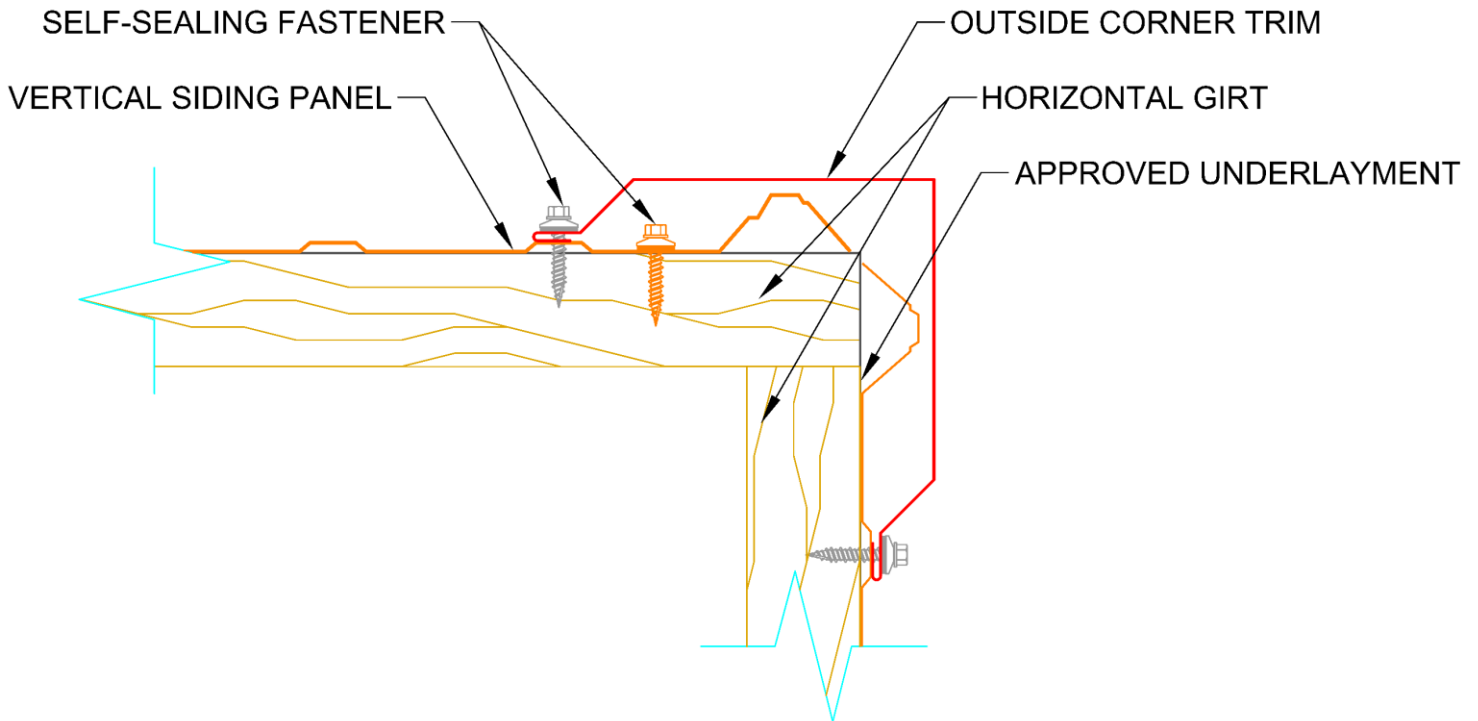
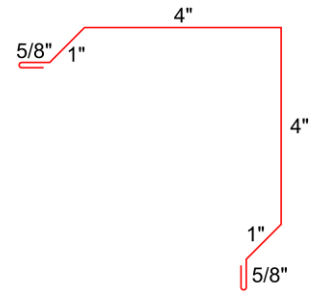
DELTA/TUFF RIB PANEL

CORNER TRIM OUTSIDE

OVERLAPING DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **SIDING PANELS** USING TYPICAL INSTALLATION.
3. INSTALL **OUTSIDE CORNER TRIM** USING **SELF-SEALING FASTENERS** AT **24"** SPACED VERTICALLY.
4. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAP NOTES:

- **OVERLAPPING SPACING** IS 4"
- APPLY 3 ROWS OF **APPROVED SEALANT** WITH **SEALANT SPACING** AS 1".
- APPROVED **SELF-SEALING FASTENER** INTO THE HEMS AS SHOWN

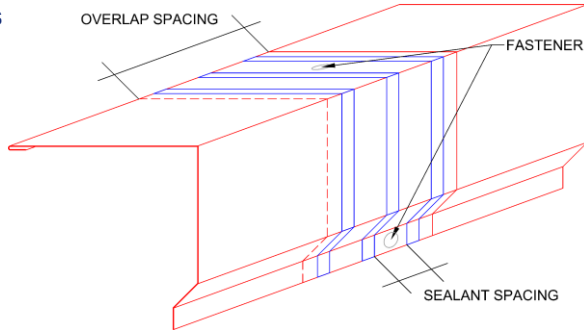


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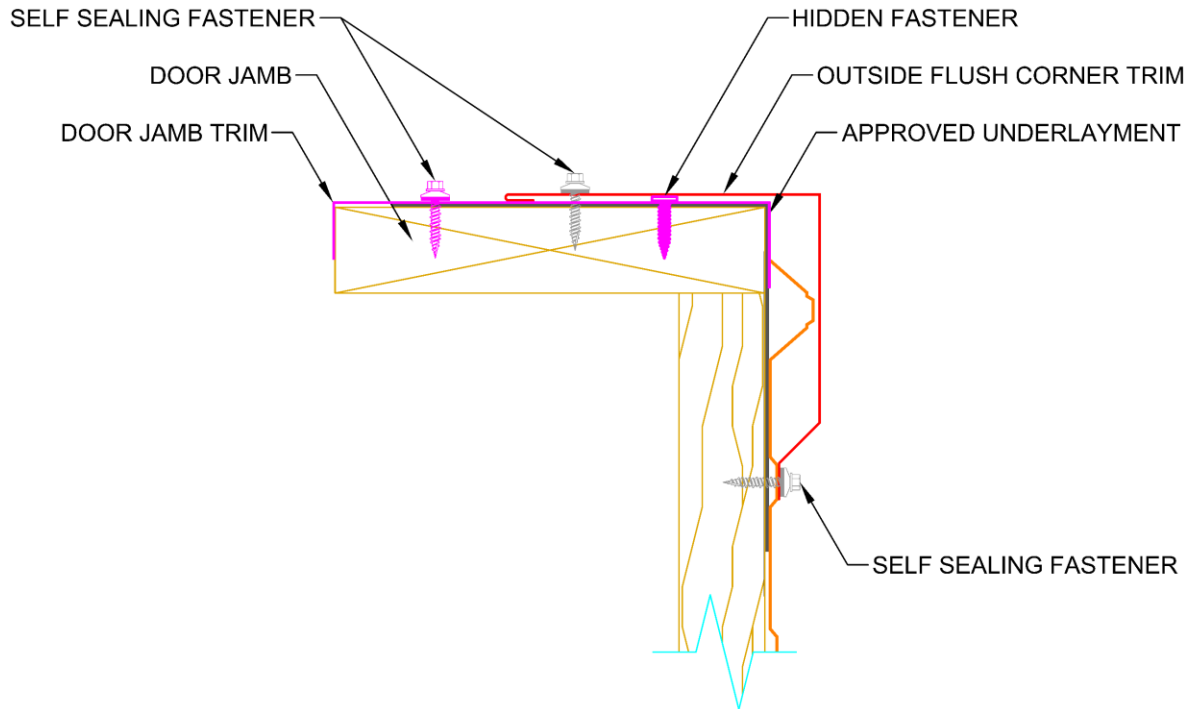
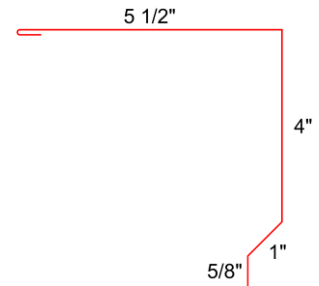
DELTA/TUFF RIB PANEL

CORNER TRIM OUTSIDE FLUSH

OVERLAPING DETAILS



DIMENSIONS



PROCEDURES:

- CLEAN AND PREP THE INSTALLATION SITE.
- INSTALL **SIDING PANELS** USING TYPICAL INSTALLATION.
- INSTALL **DOOR JAMB TRIM** USING **HIDDEN FASTENER** SPACED **24"** VERTICALLY WHERE **OUTSIDE FLUSH CORNER TRIM** WILL OVERLAP.
- ADDITIONALLY, USE **SELF SEALING FASTENER** SPACED **24"** VERTICALLY EXPOSED.
- INSTALL **OUTSIDE FLUSH CORNER TRIM** USING **SELF-SEALING FASTENERS** SPACED **24"** VERTICALLY **1/2"** FROM TRIM EDGE.
- CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

NOTES:

- **OVERLAPPING SPACING** IS 4".
- APPLY 3 ROWS OF **APPROVED SEALANT** WITH **SEALANT SPACING** AS 1".
- USED APPROVED **SELF-SEALING FASTENER** AS SHOWN.

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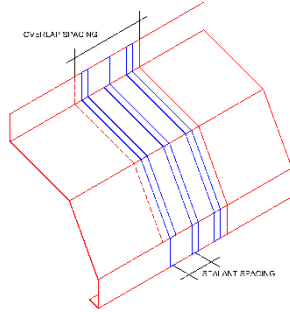


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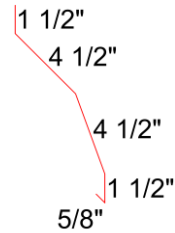
SINGLE TRACK COVER TRIM

OVERLAPING DETAILS

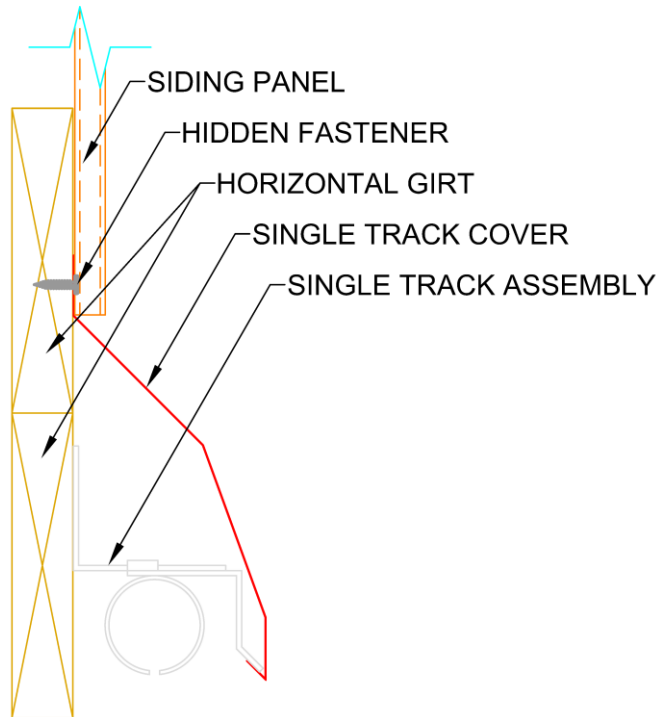
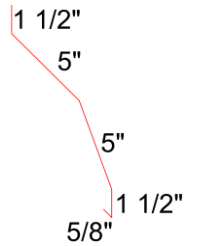


DIMENSIONS

FACEMOUNT



ADJUSTABLE



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **SINGLE TRACK ASSEMBLY** USING MANUFACTURER'S INSTRUCTIONS.
3. INSTALL **SINGLE TRACK COVER TRIM** USING **HIDDEN FASTENERS** SPACED **24"** ON THE **HORIZONTAL GIRT**.
4. INSTALL **SIDING PANEL** USING TYPICAL INSTALLATION.
5. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAP NOTES:

- **OVERLAPPING SPACING** IS **4"**.
- APPLY 3 ROWS OF **APPROVED SEALANT** WITH **SEALANT SPACING** AS **1"**.

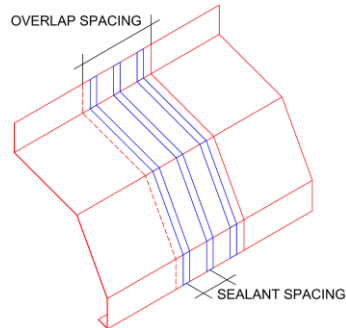


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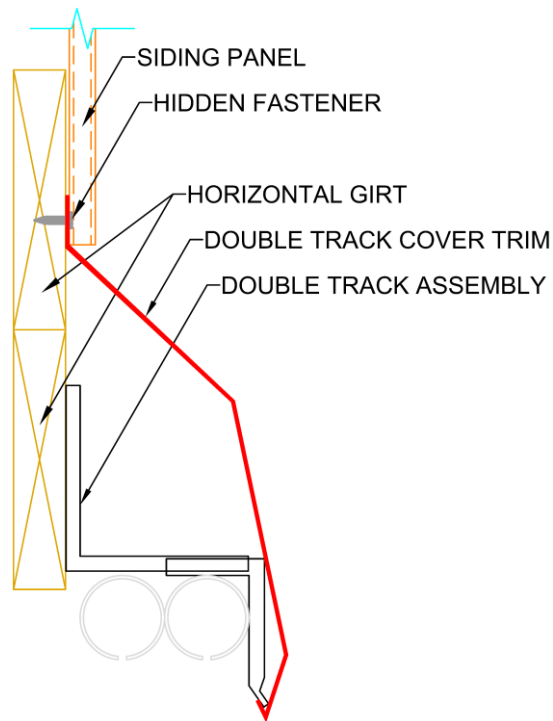
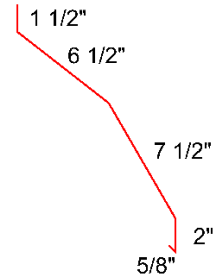
DELTA/TUFF RIB PANEL

TRACK COVER TRIM DOUBLE

OVERLAPING DETAILS



DIMENSIONS



PROCEDURES:

1. CLEAN AND PREP THE INSTALLATION SITE.
2. INSTALL **DOUBLE TRACK ASSEMBLY** USING MANUFACTURER'S INSTRUCTIONS.
3. INSTALL **DOUBLE TRACK COVER TRIM** USING **HIDDEN FASTENERS** SPACE **24"** ALONG **HORIZONTAL GIRT**.
4. INSTALL **SIDING PANEL** USING TYPICAL INSTALLATION.
5. CLEAN ALL PANELS AND TRIMS IMMEDIATELY AFTER INSTALL. REMOVE ALL **SWarf**: TRIMMINGS, SHAVINGS, FILINGS, ETC.

OVERLAP NOTES:

- **OVERLAPPING SPACING** IS **4"**
- APPLY 3 ROWS OF **APPROVED SEALANT** WITH **SEALANT SPACING** AS **1"**.

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