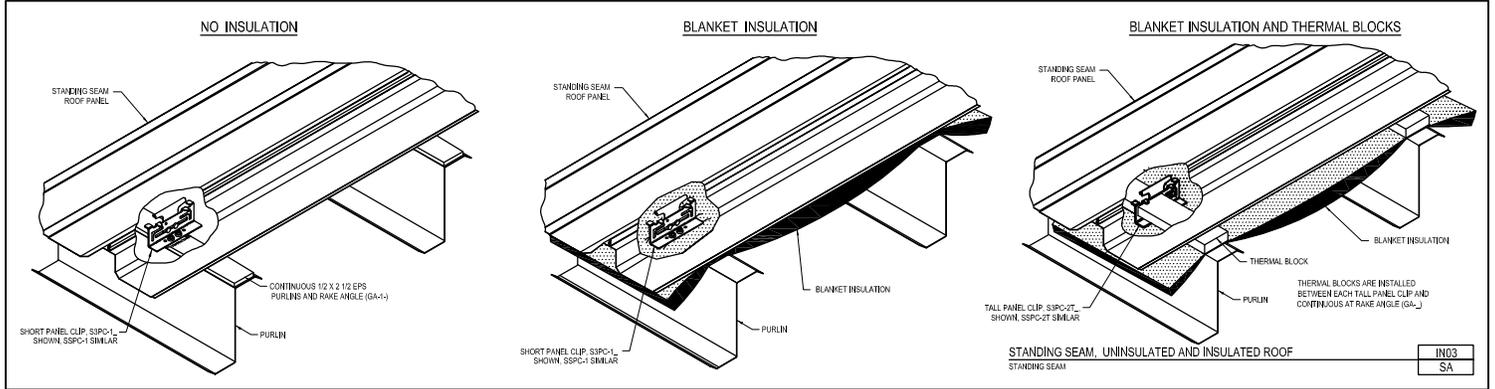


# **Product Manual - Standing Seam II & 360 - Roof Covering**

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IN03SA, Standing Seam, Uninsulated and Insulated Roof  
RC06/SA, Roof Panel Endlap  
RC07/SA, Panel Lap Detail  
RC11H/SA, First Panel Installation  
RC11/SA, First Panel Installation (Universal Rake)  
RC21/IA, Optional Decking Panel Erection Detail  
RC26C/AA, Thermal Block Installation  
RC26T/SA, Rigid Insulation Installation  
RC32/AA, Ridge Insulation Pan  
RC32A/SA, Vented Ridge Detail  
RC32/SA, Expansion Ridge Detail  
RC34/SA, Seam Closure and Outside Metal Closure Installation  
RC35A/SA, Vented Ridge Flashing  
RC35/SA, Ridge Flashing or High Side Eave Attachment  
RC37A/SA, Vented Ridge Flashing Attachment  
RC37/SA, Ridge Flashing Attachment  
RC41/SA, Panel Gauging  
RC42/SA, Standing Seam Panel Gauge Locations  
RC43/SA, Standing Seam Gauge Bar Assembly Detail  
RC51/SA, Panel Storage  
RC54/AA, Panel Storage on Roof  
RC70/SA, Standing Seam Installation Clamp  
RC71/SA, Panel Modularity at Connection Panel  
RC72/SA, Panel Modularity - All Subsequent Panel Runs  
RC73/SA, Panel Modularity Installation  
RC91/SA, Erection Notes - Standing Seam  
RC91T/SA, Erection Notes

Standing Seam, Uninsulated and Insulated Roof  
 Standing Seam  
 IN03SA

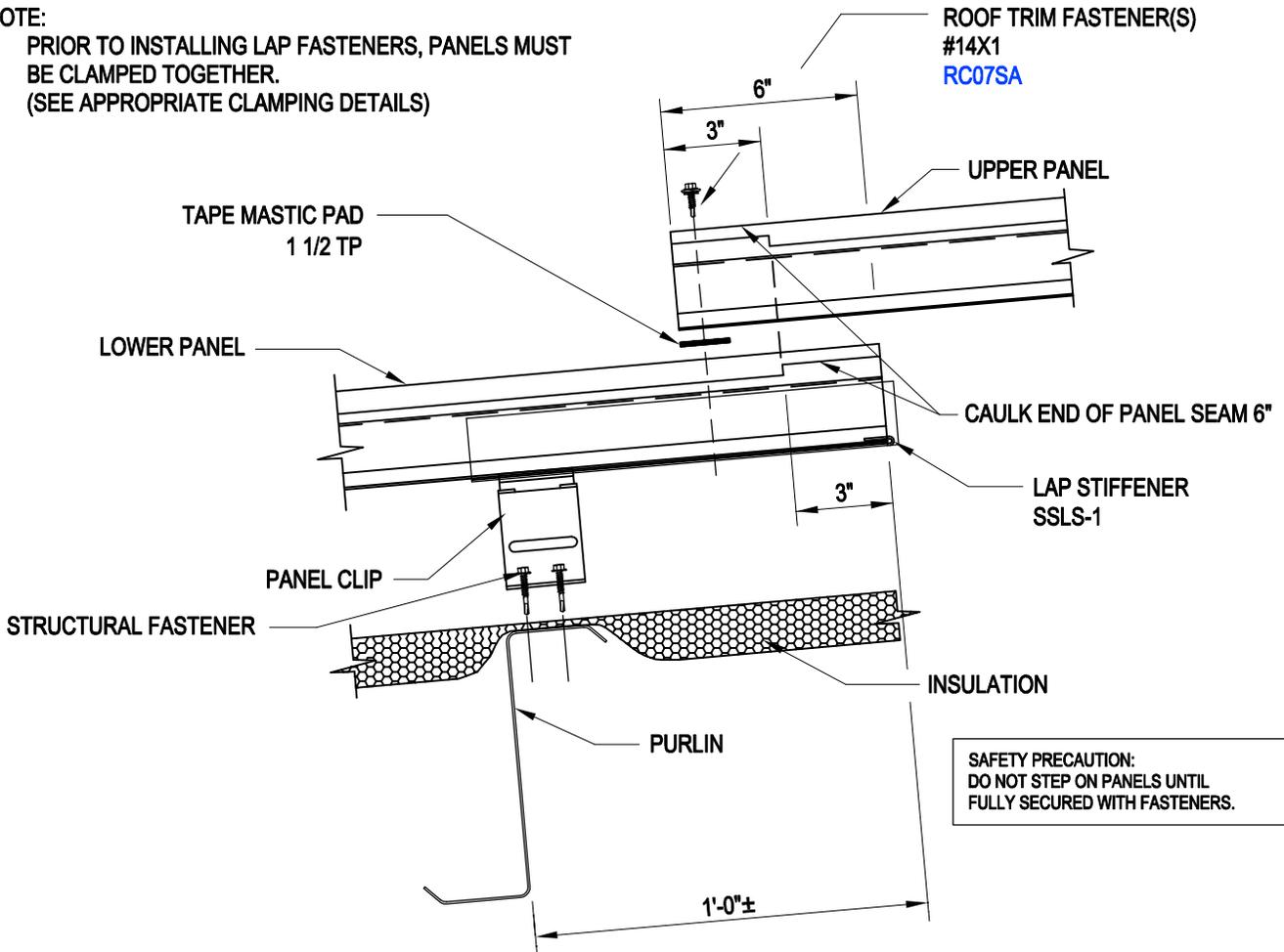


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Roof Panel Endlap  
Standing Seam  
RC06/SA

**NOTE:**  
PRIOR TO INSTALLING LAP FASTENERS, PANELS MUST  
BE CLAMPED TOGETHER.  
(SEE APPROPRIATE CLAMPING DETAILS)



**SAFETY PRECAUTION:**  
DO NOT STEP ON PANELS UNTIL  
FULLY SECURED WITH FASTENERS.

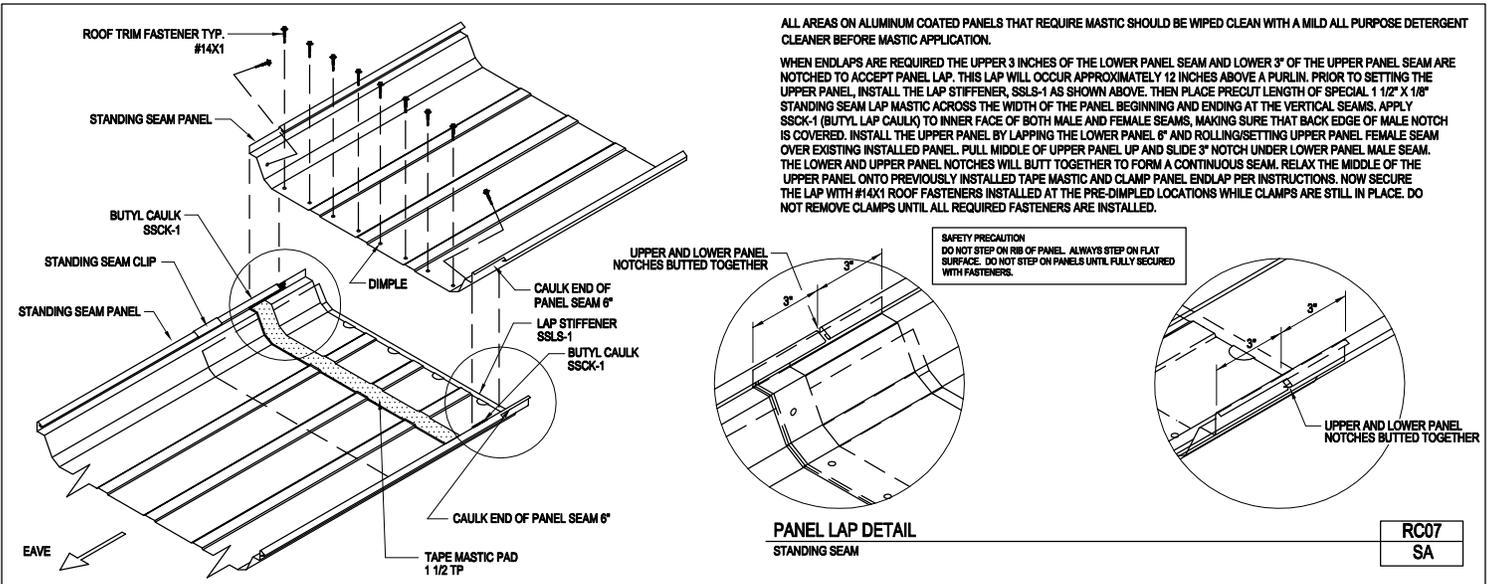
**ROOF PANEL ENDLAP**  
STANDING SEAM

<b>RC06</b>
<b>SA</b>

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Panel Lap Detail  
Standing Seam  
RC07/SA



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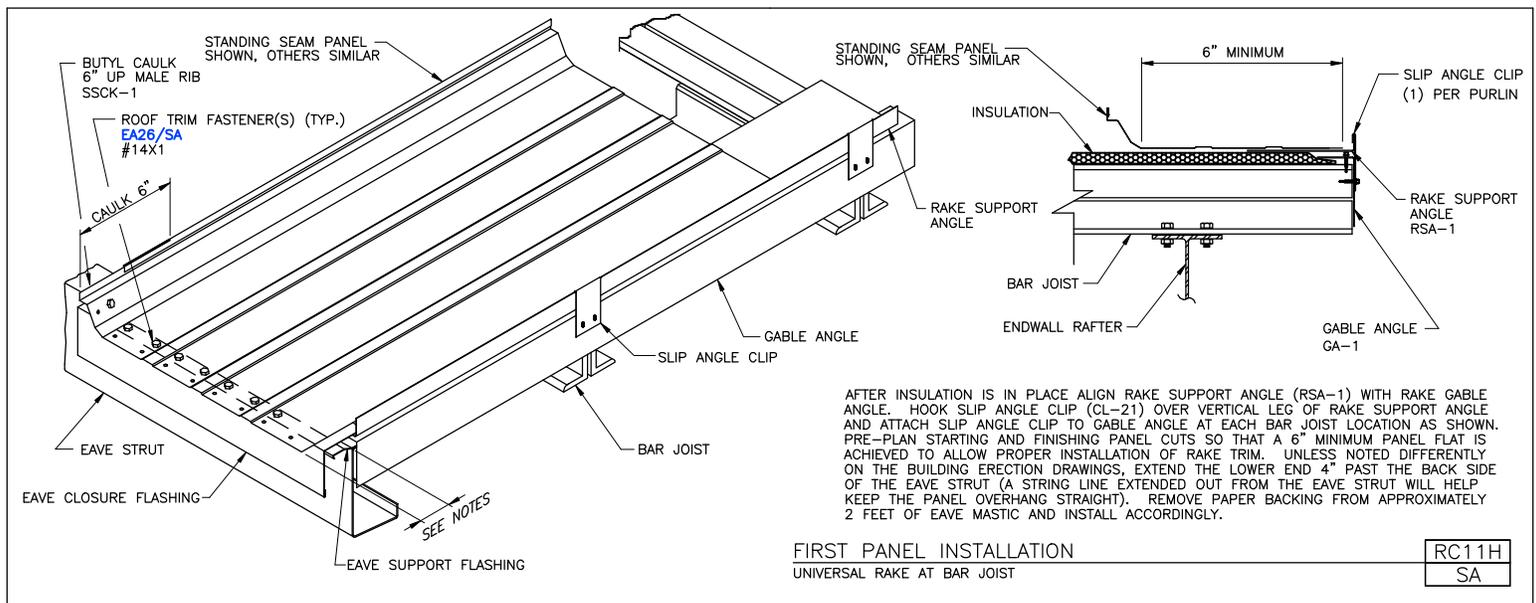
# PRODUCT MANUAL

## STANDING SEAM ROOF PANEL

### First Panel Installation

Universal Rake at Bar Joist (Standing Seam Roof Panel Shown, Loc-Seam Similar)

RC11H/SA



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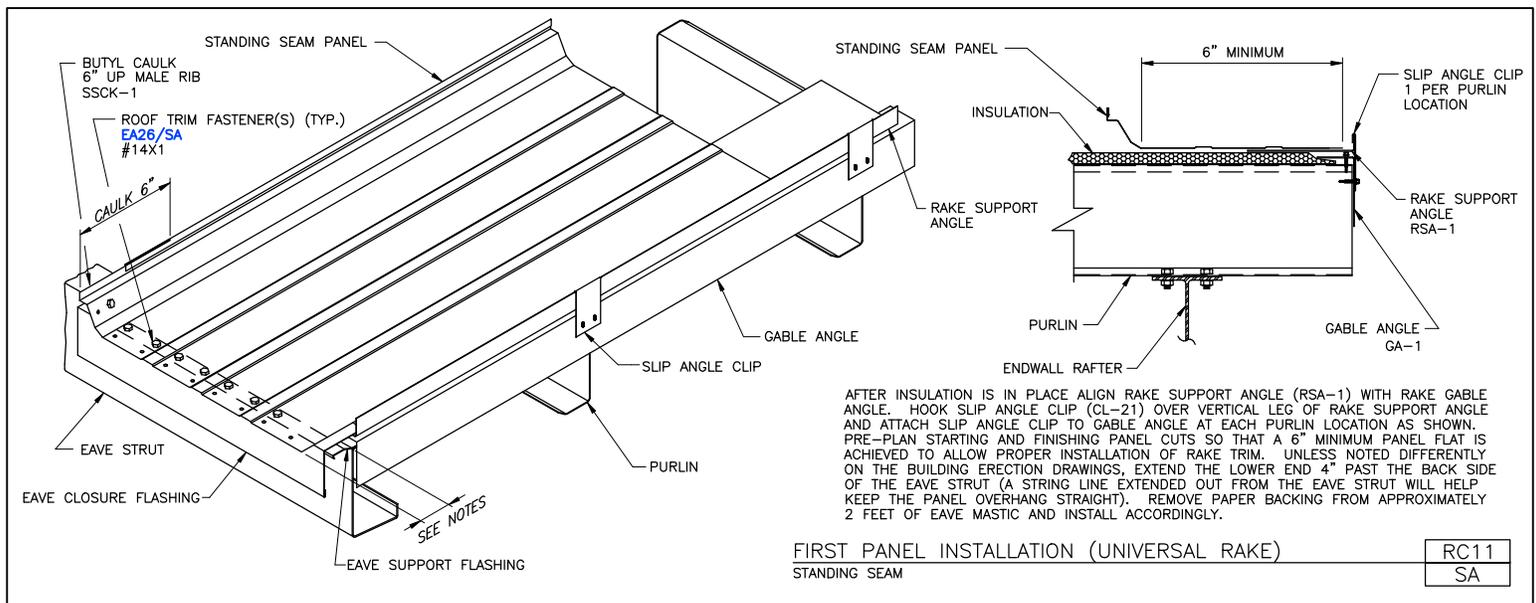
# AMERICAN BUILDINGS

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# PRODUCT MANUAL

## STANDING SEAM ROOF PANEL

### First Panel Installation (Universal Rake) Standing Seam RC11/SA

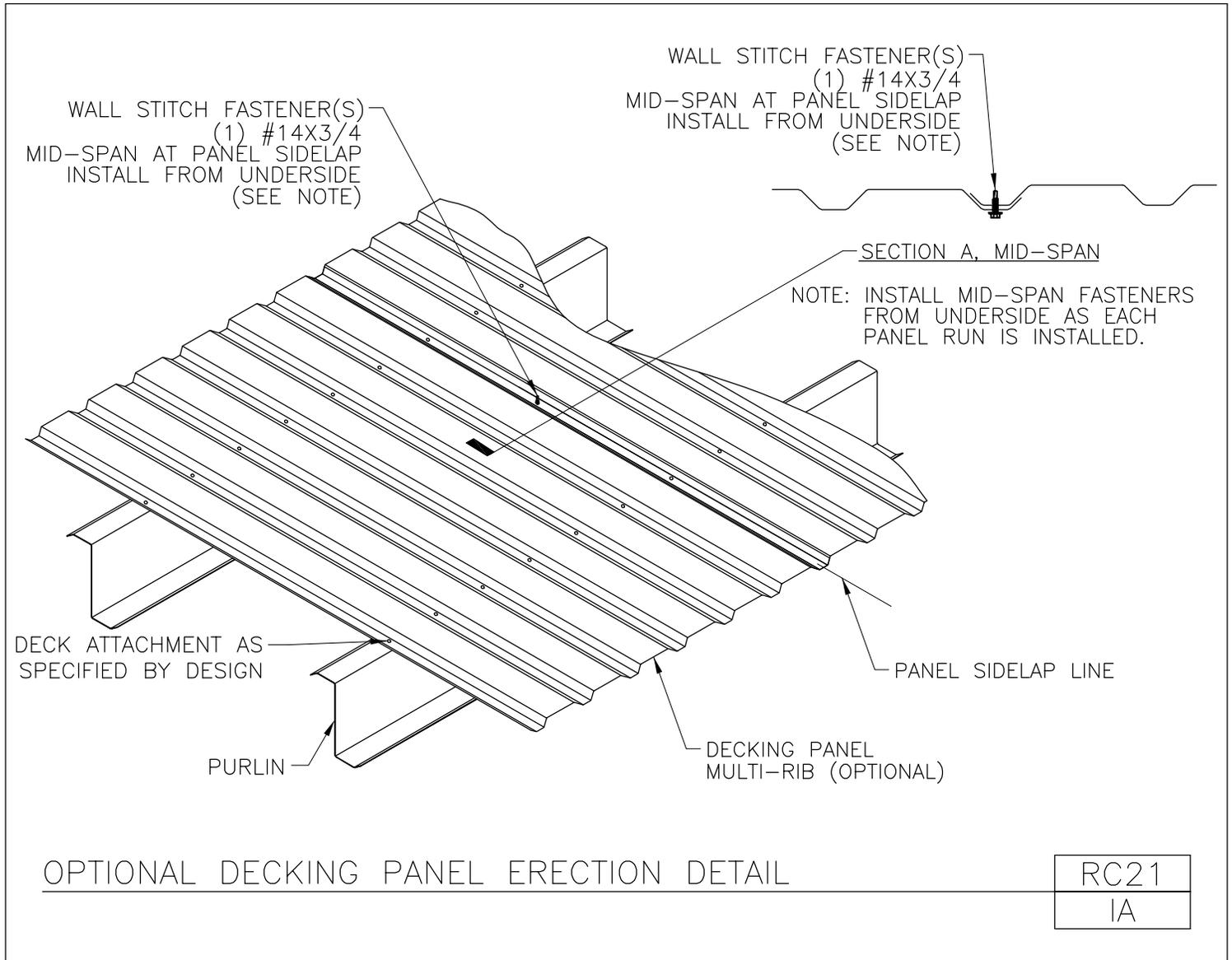


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## Optional Decking Panel Erection Detail

RC21/IA



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# AMERICAN BUILDINGS

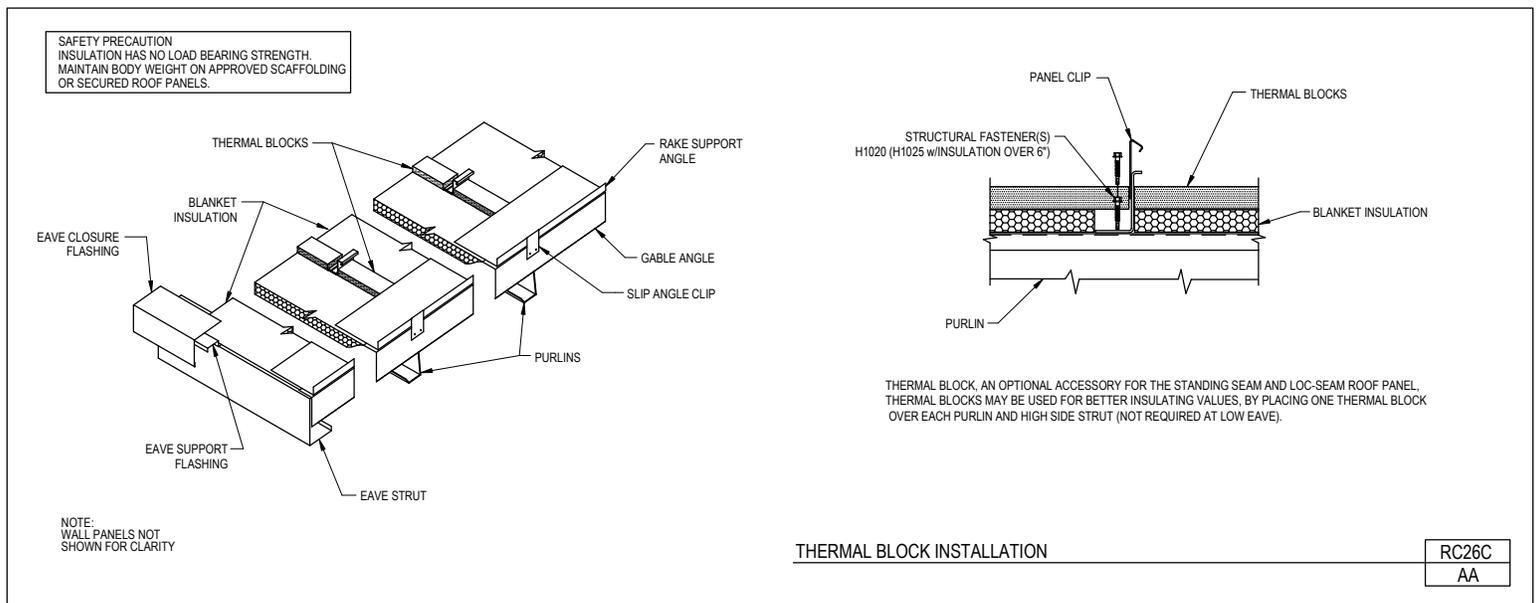
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# PRODUCT MANUAL

## STANDING SEAM ROOF PANEL

### Thermal Block Installation

RC26C/AA



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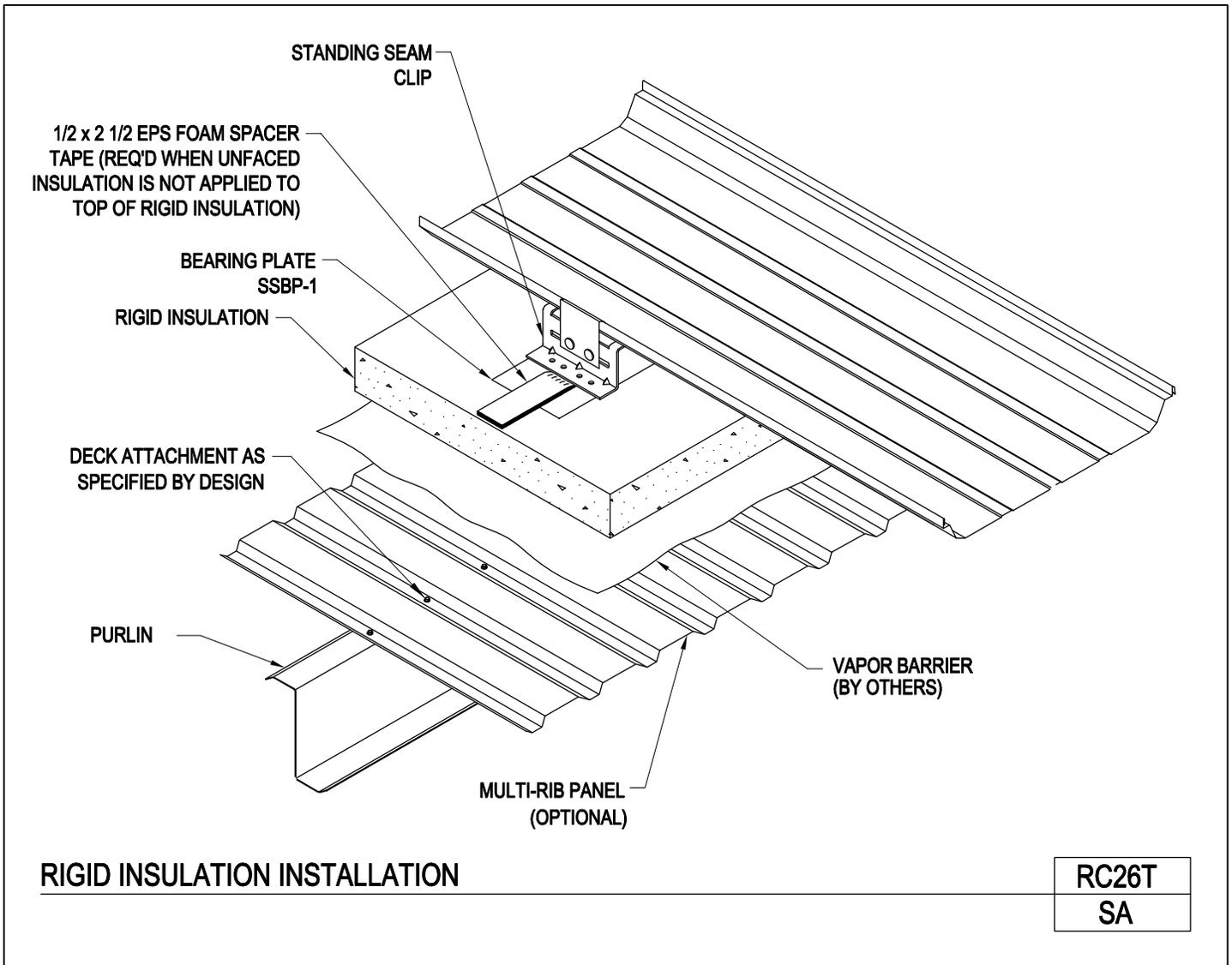
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# PRODUCT MANUAL

STANDING SEAM ROOF PANEL

## Rigid Insulation Installation

RC26T/SA

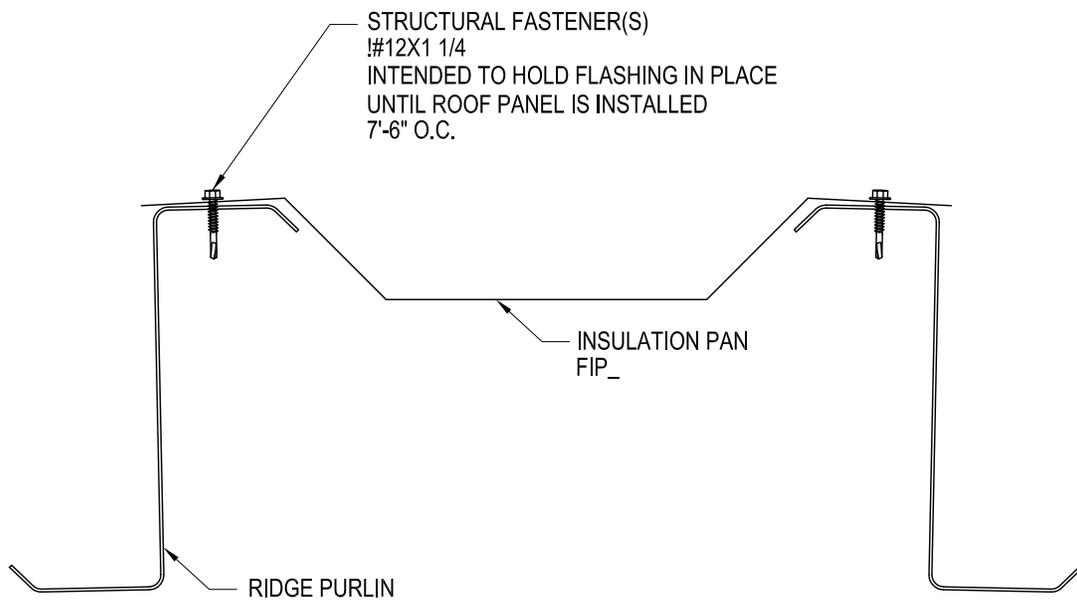


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Revised: 7-27-2017

Ridge Insulation Pan  
Insulation Support Pan for Ridge Condition  
RC32/AA



**RIDGE INSULATION PAN**  
INSULATION SUPPORT PAN FOR RIDGE CONDITION

RC32
AA

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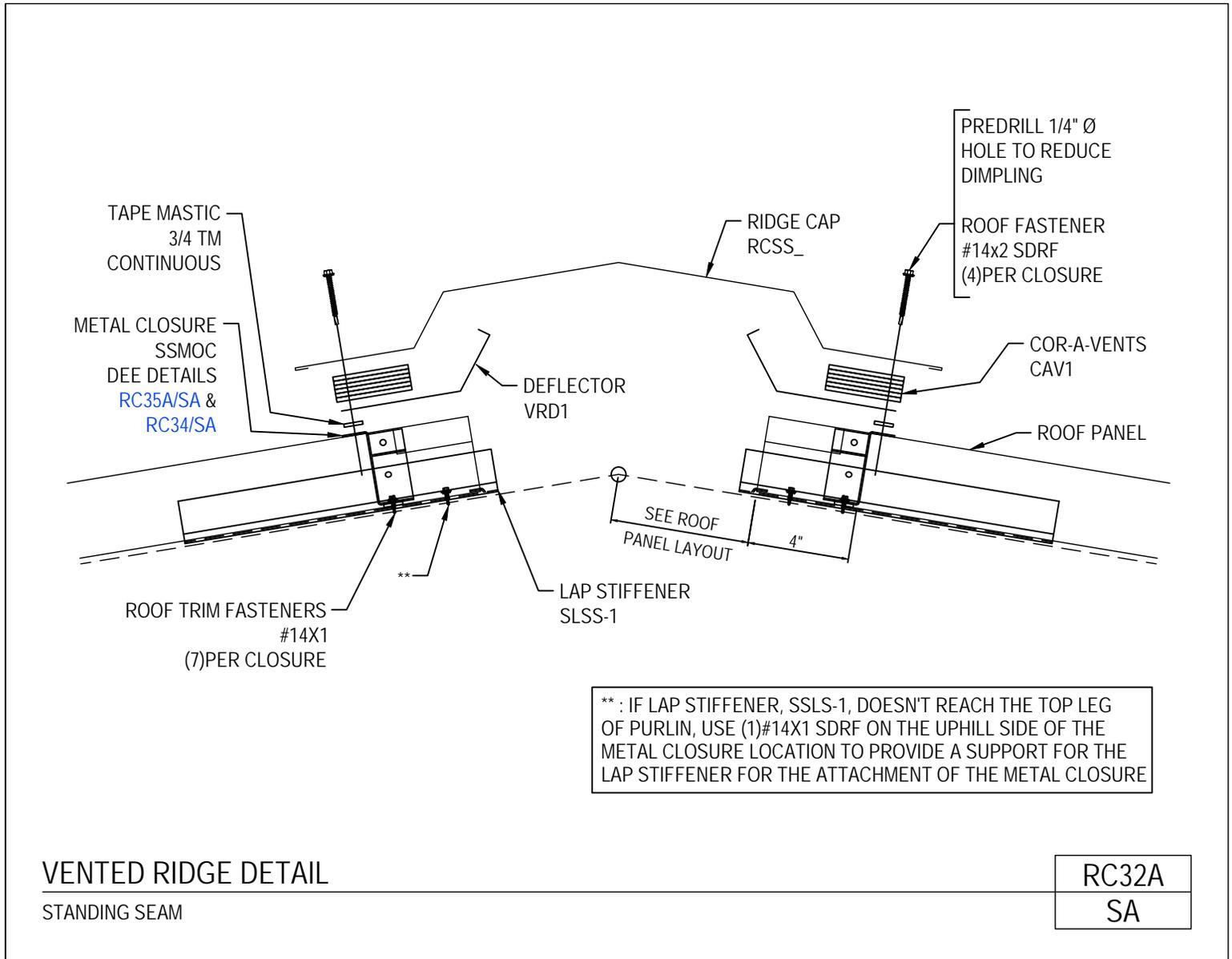
**AMERICAN  
BUILDINGS**

A **NUCOR** COMPANY

# PRODUCT MANUAL

STANDING SEAM II/360

Vented Ridge Detail  
Standing Seam  
RC32A/SA

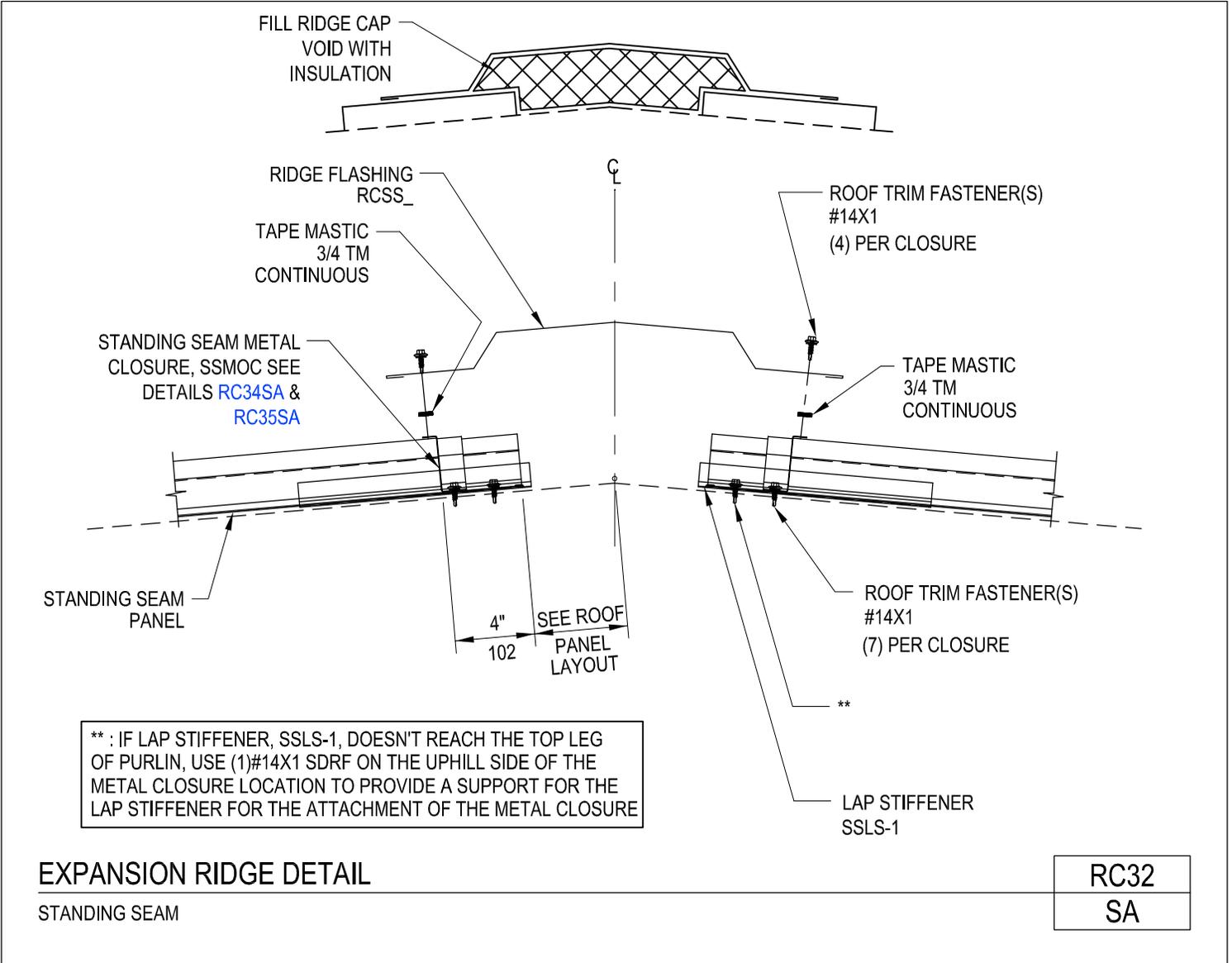


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Revised: 5/20/2020 (MR2020.06)

Expansion Ridge Detail  
Standing Seam  
RC32/SA

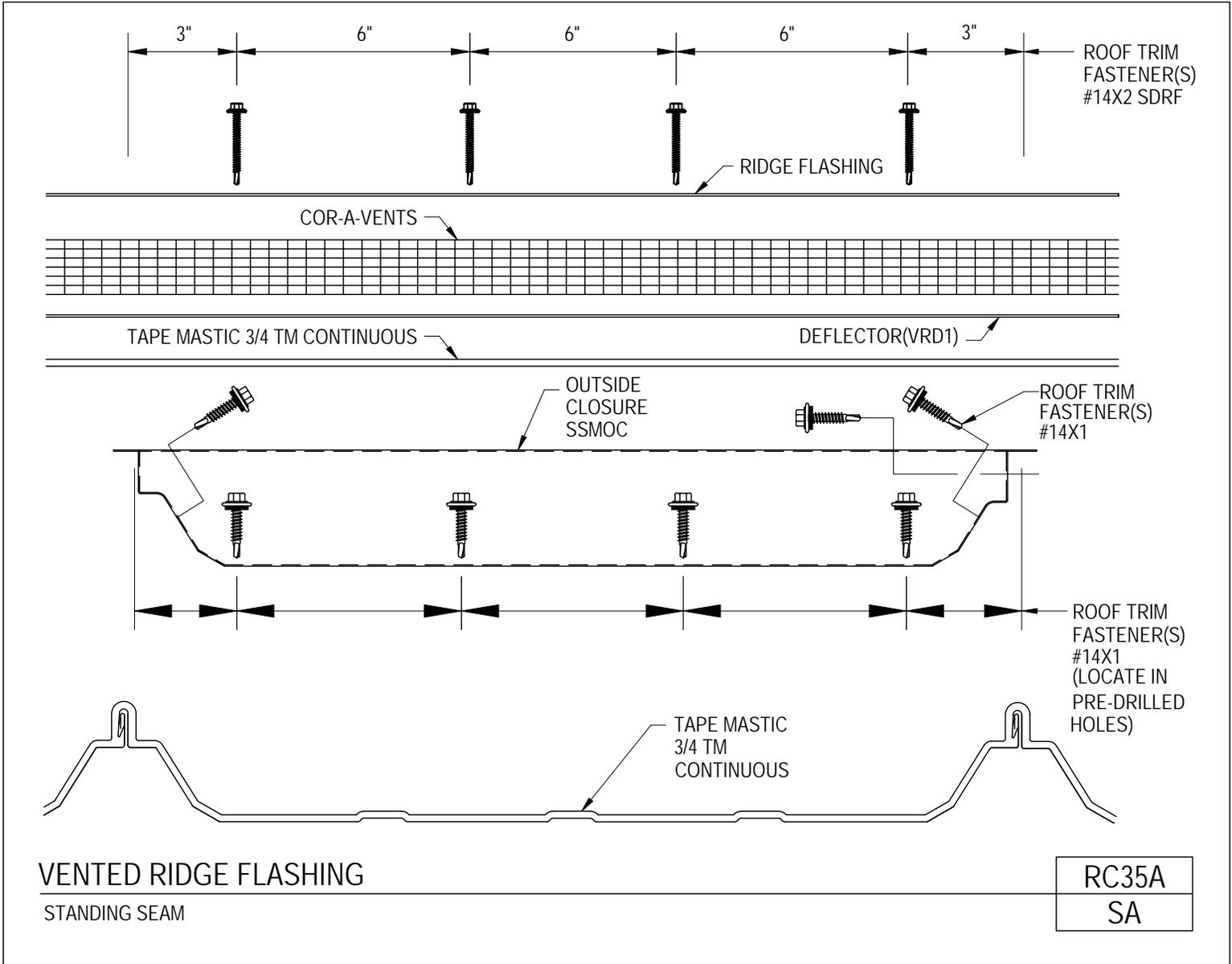


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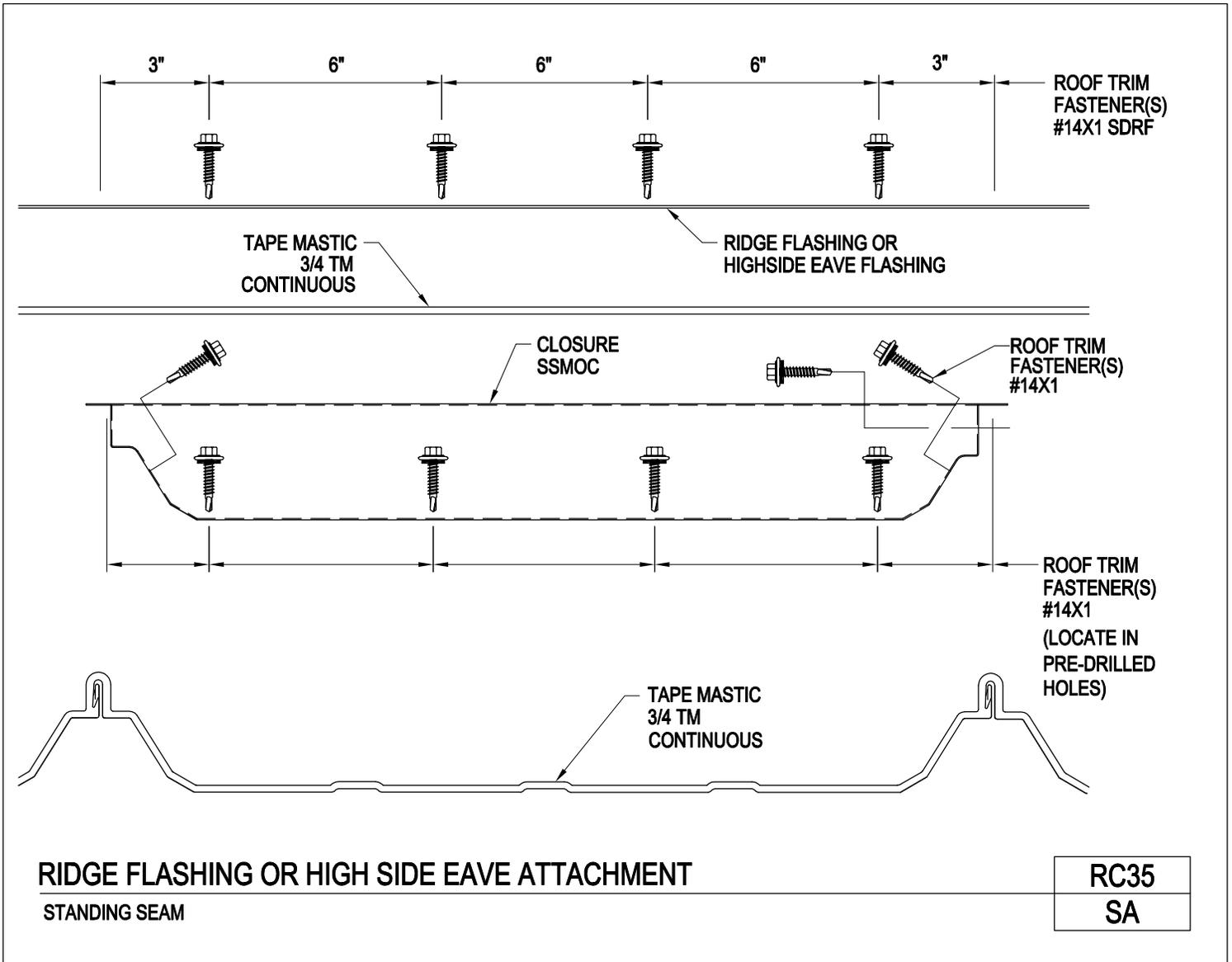
Vented Ridge Flashing  
Standing Seam  
RC35A/SA



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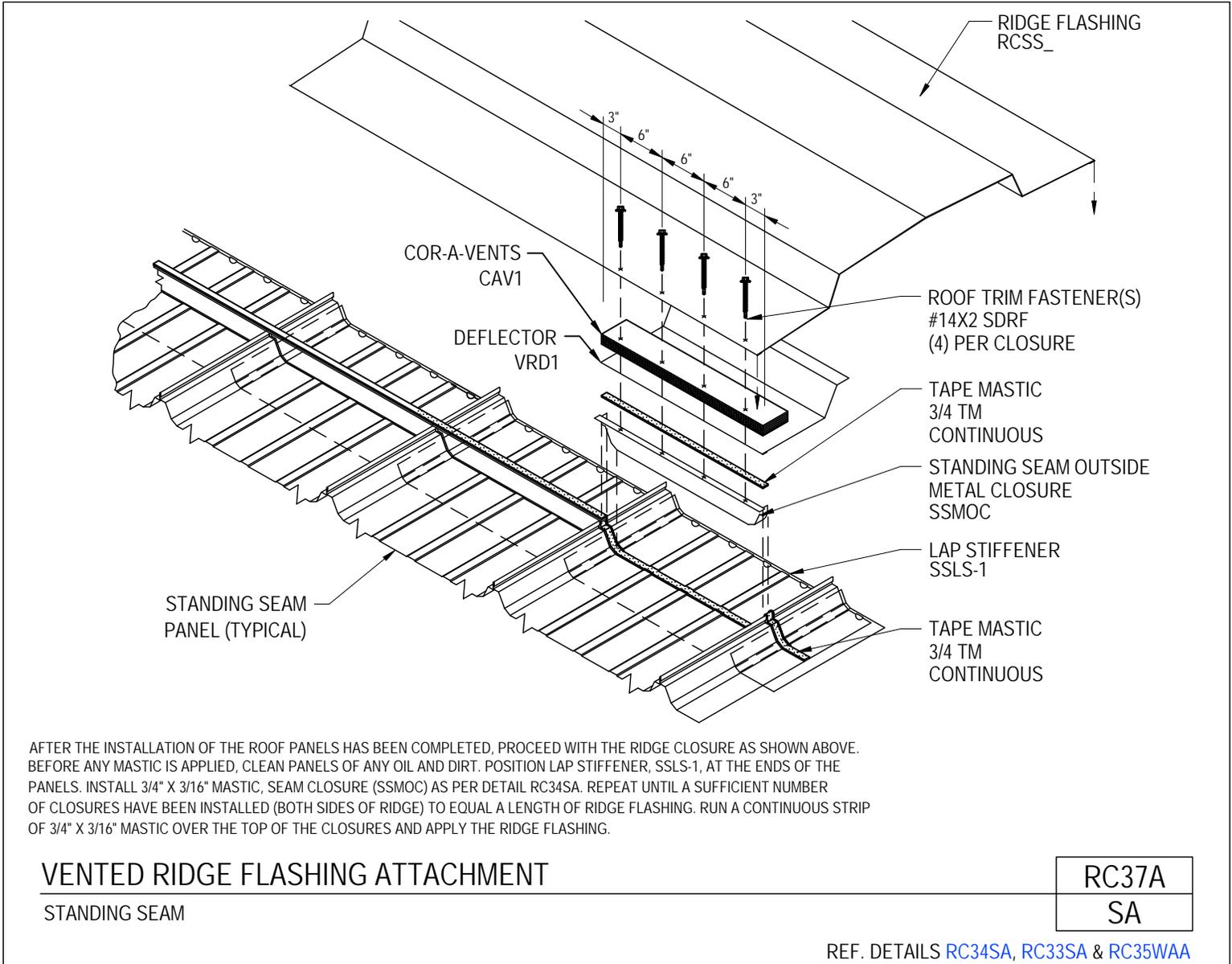
Ridge Flashing or High Side Eave Attachment  
Standing Seam  
RC35/SA



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Vented Ridge Flashing Attachment  
Standing Seam  
RC37A/SA



## VENTED RIDGE FLASHING ATTACHMENT

STANDING SEAM

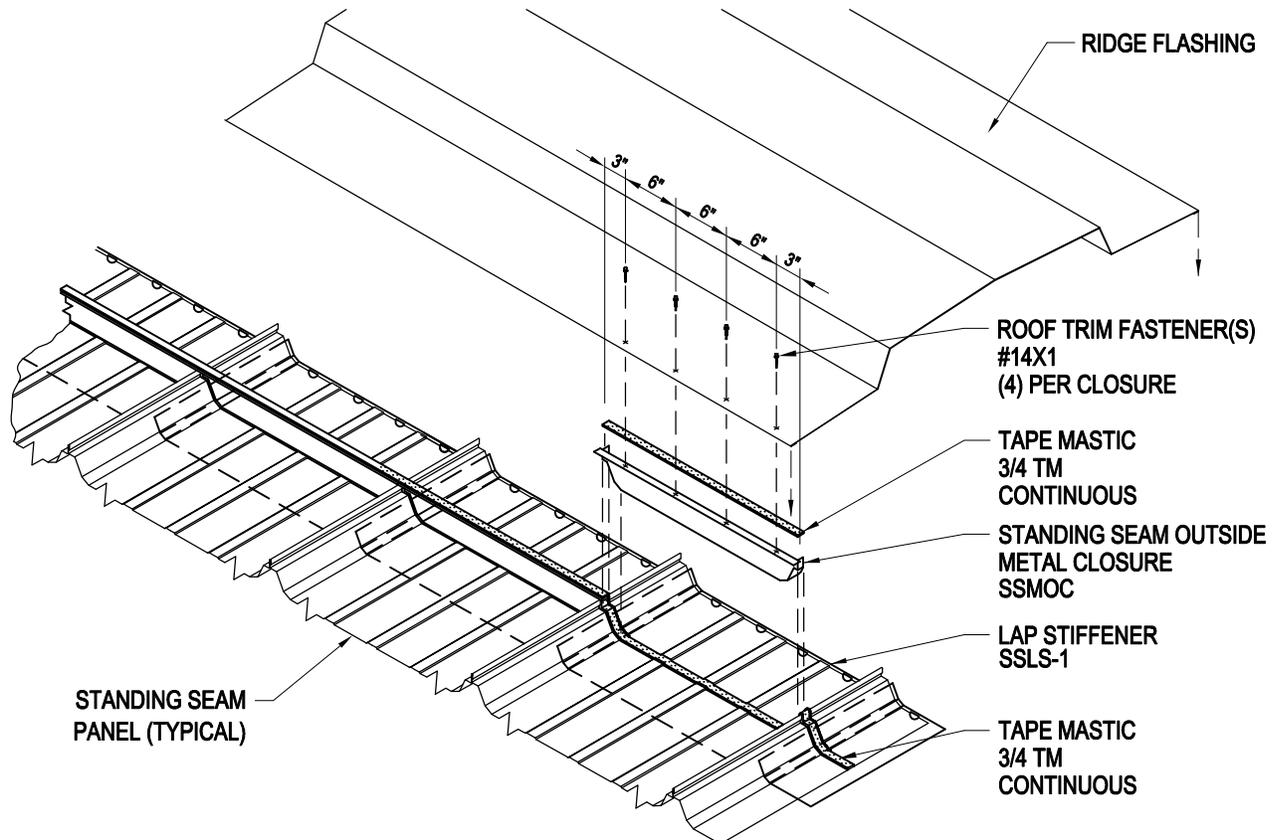
RC37A
SA

REF. DETAILS [RC34SA](#), [RC33SA](#) & [RC35WAA](#)

[Download the DWG file by clicking here.](#)

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Ridge Flashing Attachment  
Standing Seam  
RC37/SA



AFTER THE INSTALLATION OF THE ROOF PANELS HAS BEEN COMPLETED, PROCEED WITH THE RIDGE CLOSURE AS SHOWN ABOVE. BEFORE ANY MASTIC IS APPLIED, CLEAN PANELS OF ANY OIL AND DIRT. POSITION LAP STIFFENER, SSLS-1, AT THE ENDS OF THE PANELS. INSTALL 3/4" X 3/16" MASTIC, SEAM CLOSURE (SSMOC) AS PER DETAIL RC34SA. REPEAT UNTIL A SUFFICIENT NUMBER OF CLOSURES HAVE BEEN INSTALLED (BOTH SIDES OF RIDGE) TO EQUAL A LENGTH OF RIDGE FLASHING. RUN A CONTINUOUS STRIP OF 3/4" X 3/16" MASTIC OVER THE TOP OF THE CLOSURES AND APPLY THE RIDGE FLASHING.

## RIDGE FLASHING ATTACHMENT

STANDING SEAM

<b>RC37</b>
<b>SA</b>

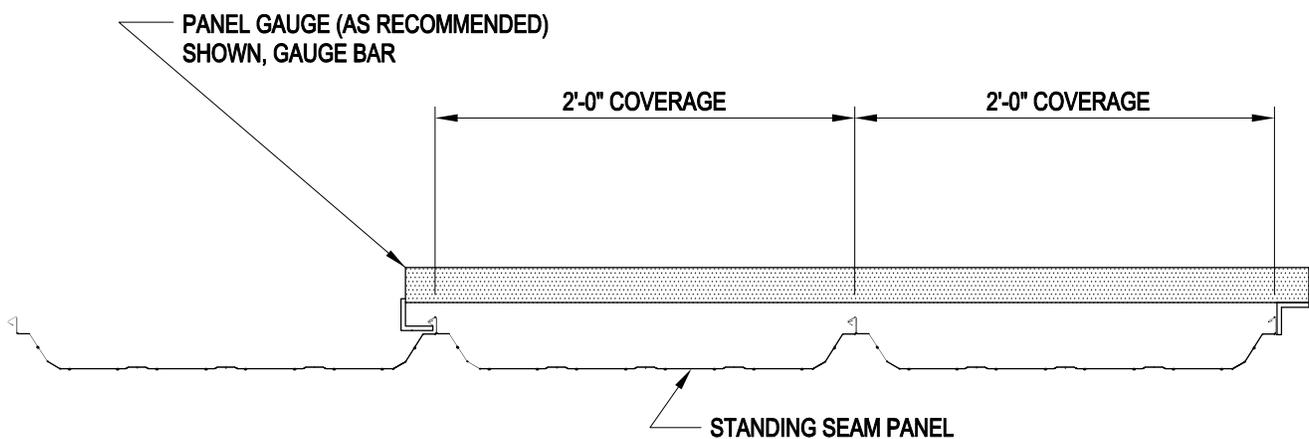
REF. DETAILS [RC34SA](#), [RC33SA](#) & [RC35WAA](#)

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Panel Gauging  
Standing Seam Panel  
RC41/SA

THE STANDING SEAM GAUGE BAR CAN BE USED IN ADDITION TO THE PANEL MODULARITY INSTALLATION DETAILS ([RC71SA](#), [RC72SA](#), [RC73SA](#)).



**SAFETY PRECAUTION:**  
WIPE OIL AND OTHER SLIPPERY SUBSTANCES FROM ROOF PANELS.  
DO NOT STEP ON RIB OF PANEL OR WITHIN 5 FEET OF UNSECURED  
PANEL END. USE OSHA APPROVED TIE OFFS, NETTINGS OR RAILS  
WHEN WORKING ON ROOF.

PANEL COVERAGE GAUGES SUCH AS SHOWN ABOVE WILL HELP TO MAINTAIN CORRECT COVERAGE. PLACE ONE AT EACH END OF THE PANEL, GAUGE EACH PURLIN RUN AND ABOVE OR BELOW THE ENDLAP.

A STRING LINE SET AT THE NEXT RAFTER IS RECOMMENDED FOR TAKING MEASUREMENTS BACK TO THE PANELS TO ENSURE THAT THEY ARE RUNNING STRAIGHT AND SQUARE.

## PANEL GAUGING

STANDING SEAM PANEL

RC41
SA

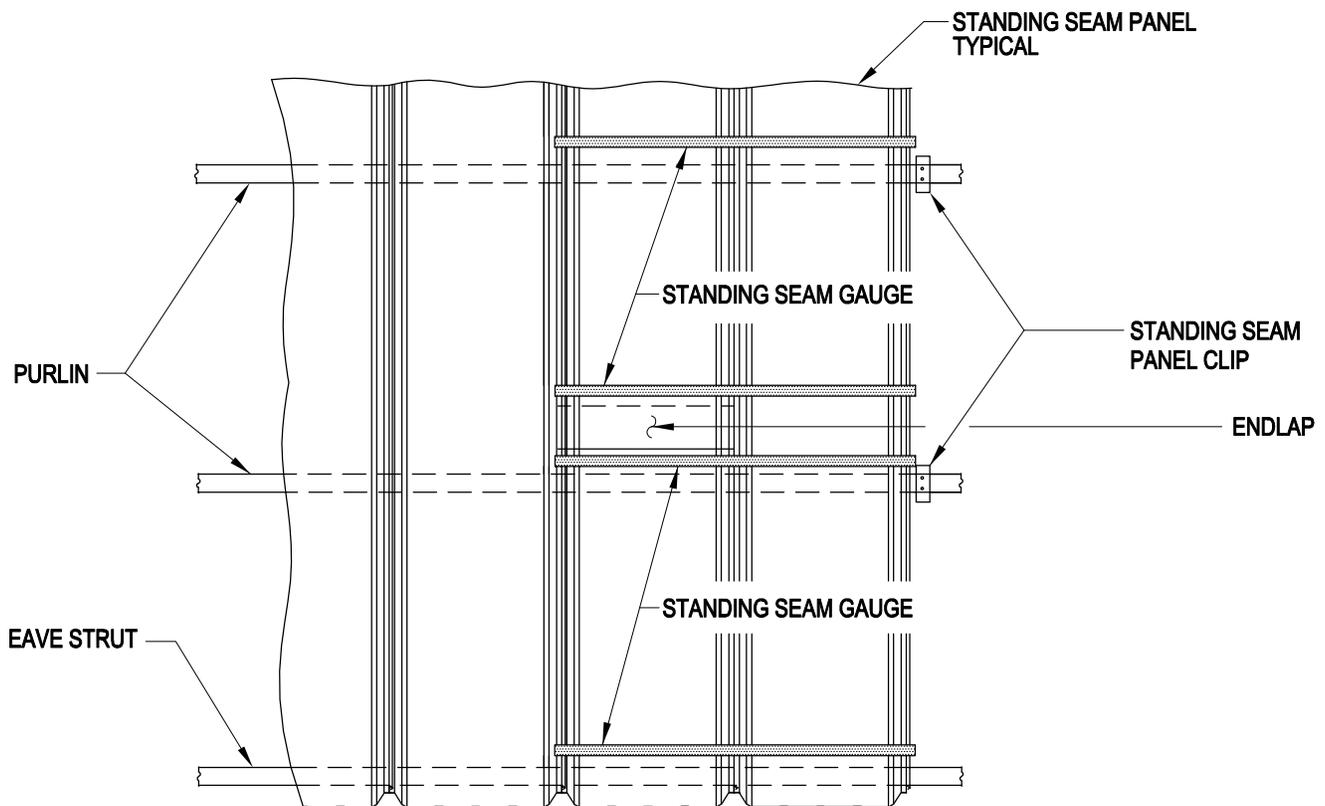
[Download the DWG file by clicking here.](#)

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Standing Seam Panel Gauge Locations

RC42/SA

THE STANDING SEAM GAUGE BAR CAN BE USED IN ADDITION TO THE PANEL MODULARITY INSTALLATION DETAILS ([RC71SA](#), [RC72SA](#), [RC73SA](#)).



**STANDING SEAM PANEL GAUGE LOCATIONS**

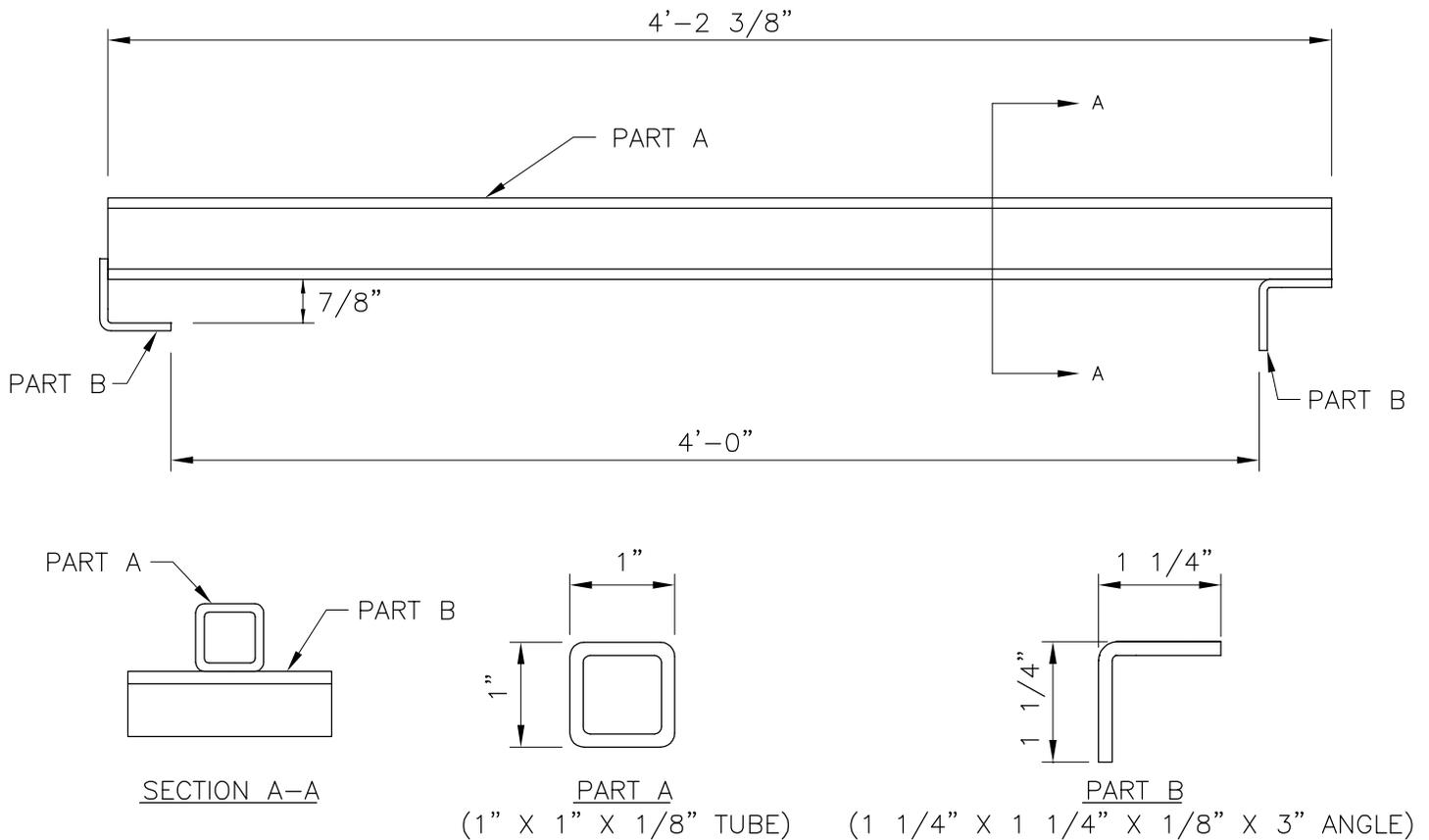
RC42
SA

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Standing Seam Gauge Bar Assembly Detail  
Standing Seam II  
RC43/SA

THE STANDING SEAM GAUGE BAR CAN BE USED IN ADDITION TO THE PANEL MODULARITY INSTALLATION DETAILS (RC71SA, RC72SA, RC73SA).



STANDING SEAM GAUGE BAR ASSEMBLY DETAIL

RC43
SA

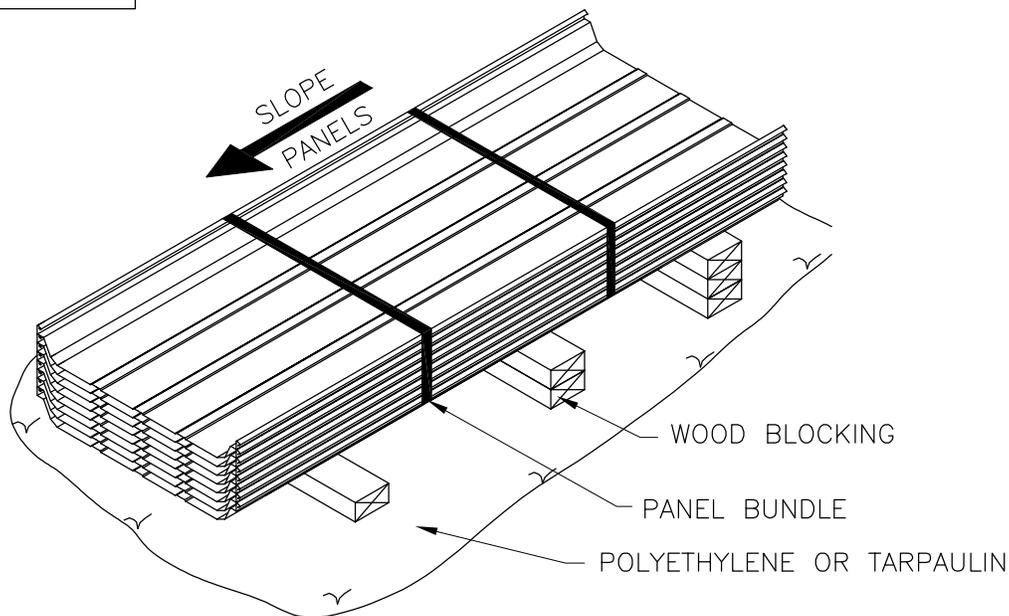
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Panel Storage  
Standing Seam  
RC51/SA

USE WOOD BLOCKING TO ELEVATE AND SLOPE THE PANELS IN A MANNER THAT WILL ALLOW MOISTURE TO DRAIN. WOOD BLOCKING PLACED BETWEEN PANEL BUNDLES WILL PROVIDE ADDITIONAL AIR CIRCULATION. COVER THE AREA BENEATH PANELS WITH POLYETHYLENE OR A TARPAULIN TO PREVENT DIRT AND DEBRIS FROM ENTERING FEMALE SEAM.

SAFETY PRECAUTION  
MAINTAIN A CLEAN AND  
ORDERLY WORK AREA.



PANEL STORAGE  
STANDING SEAM

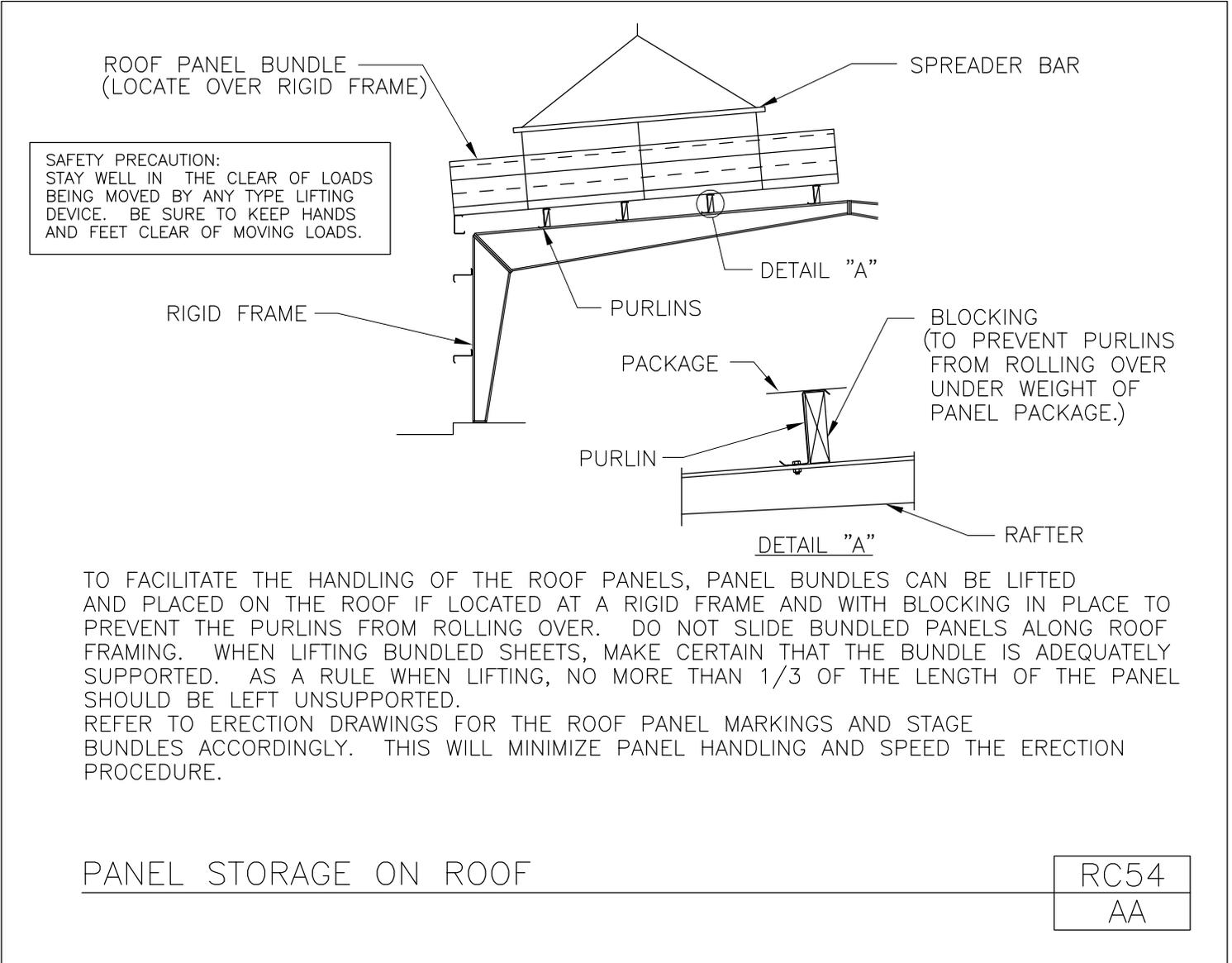
RC51
SA

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Panel Storage on Roof

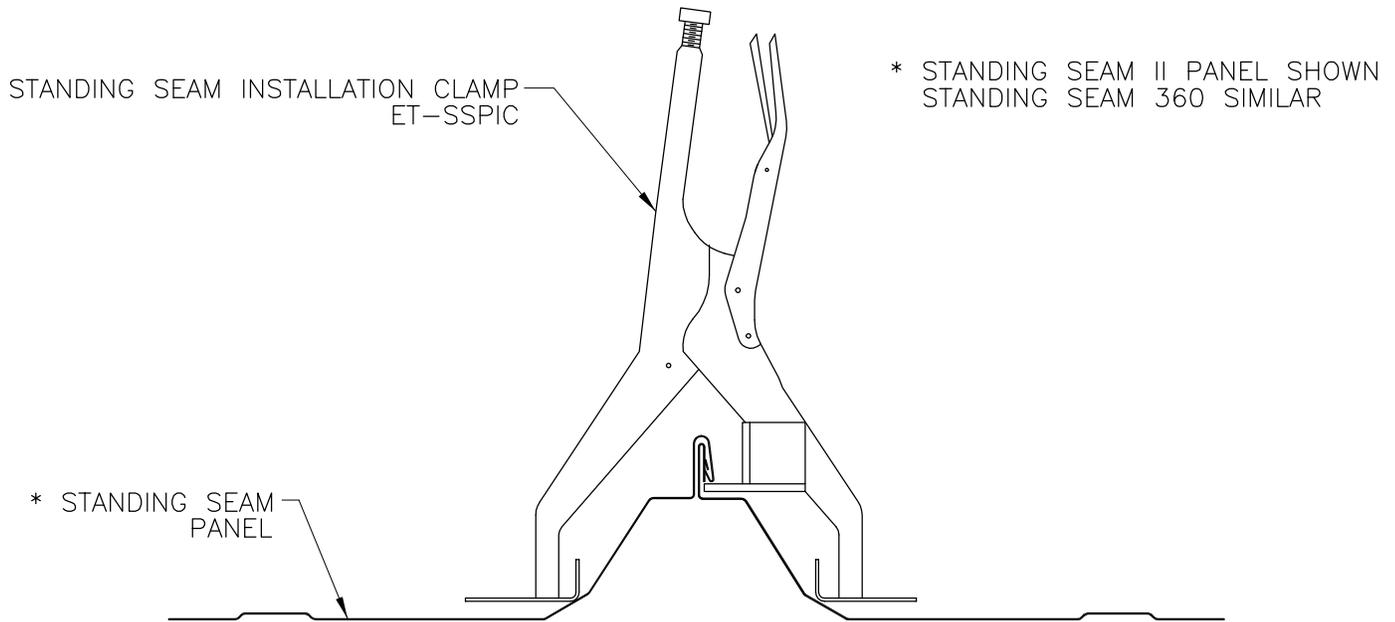
RC54/AA



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Standing Seam Installation Clamp  
Standing Seam II/360  
RC70/SA



The standing seam installation clamp will help keep roof runs on module and clamp will remain out of the work area when in use. This will not need to be used on every panel run but only when required to help modify sheets to stay within tolerance. They are also adjustable to allow for broader ranges of corrections.

By slipping the flat tab (located below the hinge point of the clamp) under the seam of the roof panels and then squeezing the handles closed, the two base angles grip the lower trapezoid of the panels and shorten the distance between the vertical legs of the roof sheets. When used at end laps and ridge/high eave locations of the roof, you can manipulate the growth of the sheets caused by the increasing amount of insulation being laid under roof systems.

STANDING SEAM INSTALLATION CLAMP

STANDING SEAM II/360

RC70
SA

[Download the DWG file by clicking here.](#)

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Panel Modularity at Connection Panel  
Standing Seam II/360  
RC71/SA

First Panel Installation – Refer to detail [RC11SA](#) at Universal Rake)

- 1) Install panel/panels from eave to ridge/high eave, straight and square with the building. Be sure to overhang the panel at eave the correct amount. Install all panel clips ([RC67EA/RC18TA](#)). If there are endlaps, complete the endlaps ([RC06SA/ RC07SA](#)).
- 2) Determine where the center line of the panel rib will fall, based upon the width of the starter panel. Mark a line on the vertical part of the eave flashing at this point.
- 3) From the first vertical mark on the eave flashing, lay out the entire length of the building, putting a mark on the vertical leg of the flashing at 1'-0" O.C.. These marks will be used as the roof progresses to position the panel and to position the SSMC-I closure.
- 4) Mark the center line of all SSMC-I closures with a vertical mark. Install the first closure ([EA36TA](#)), with the mark on the eave flashing and the mark on the closure aligned.
- 5) Installed eave fasteners will pass through the panel, tape mastic, eave flashing and TFSE(T). Fastener location is upslope from dimples at the end of the panel.
- 6) After the clips are installed on this first panel run, measure from the center of the fasteners which hold the panel clips to the purlins, at each panel endlap location and at the ridge/high eave purlin, and put a mark on the top of the purlin at 2'-0" O.C.. Then put in one #12X1 1/4" clip fastener or drill a small hole at each 2'-0" mark. These holes or fasteners will be used as the roof progresses to position the panel clips in these locations at a perfect 2'-0" coverage, thus maintaining module and panel straightness/alignment.

PANEL MODULARITY AT CONNECTING PANEL  
STANDING SEAM II/360

RC71
SA

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Panel Modularity - All Subsequent Panel Runs  
Standing Seam II/360  
RC72/SA

### All Subsequent Panel Runs

- 7) Caulk the first 6" of the top of male rib of the panel (RC11\_A).
- 8) Lay panel in position next to previous panel.
- 9) Position a small framing square at the 1'-0" mark on the eave. Align the center of the (middle minor rib) of the panel with the edge of the square positioned at the 1'-0" mark, if this is a Standing Seam 360 panel, hook the female leg to the male leg of the preceding panel the entire length (RC01TA), then align center of panel with edge of square.
- 10) Holding the middle of the rib at the edge of the square, push the panel uphill or downhill to get the proper overhang amount (See Erection Drawings). This can be read right off the markings on the square. Note, the dimension shown is typically from face of eave strut. Subtract wall panel depth for correct overhang from eave flashing.
- 11) Once in position, install one fastener through the flat of the panel at the center of the flat.
- 12) If Standing Seam II panel, the panel can now be seamed at this time (RC36EA).
- 13) Install fasteners in panel flat from the center to completed seam and into the SSMC-I closure.
- 14) Using another SSMC-I, install closure by aligning the mark in the center of the closure, with the next 1'-0" mark on the eave trim (EA36TA).
- 15) Install remainder of fasteners in panel flat towards newly installed SSMC-I, then install fastener from trapezoid into closure.
- 16) Install panel clip at endlap or ridge/high eave location by either removing fastener or finding the pre-drilled hole at 2'-0" increments and then installing the fastener through the panel clip base into the pre-drilled hole. Then add the second fastener to the clip.
- 17) Panel should now be straight and on module, and the balance of the clips can be installed.
- 18) If there is a panel endlap, you would next lay the overlapping panel, make up the endlap utilizing the suggested clamps (RC66EA/RC66TA), and put on the panel clip at the next uphill pre-drilled location. Then fill in the balance of the clips (RC67EA/RC18TA).
- 19) Depending on insulation thickness and other job site variables, you may choose to lay out one or more additional purlins at panel midspans on these 2'-0" centers for proper clip/panel modularity.

## PANEL MODULARITY-ALL SUBSEQUENT PANEL RUNS

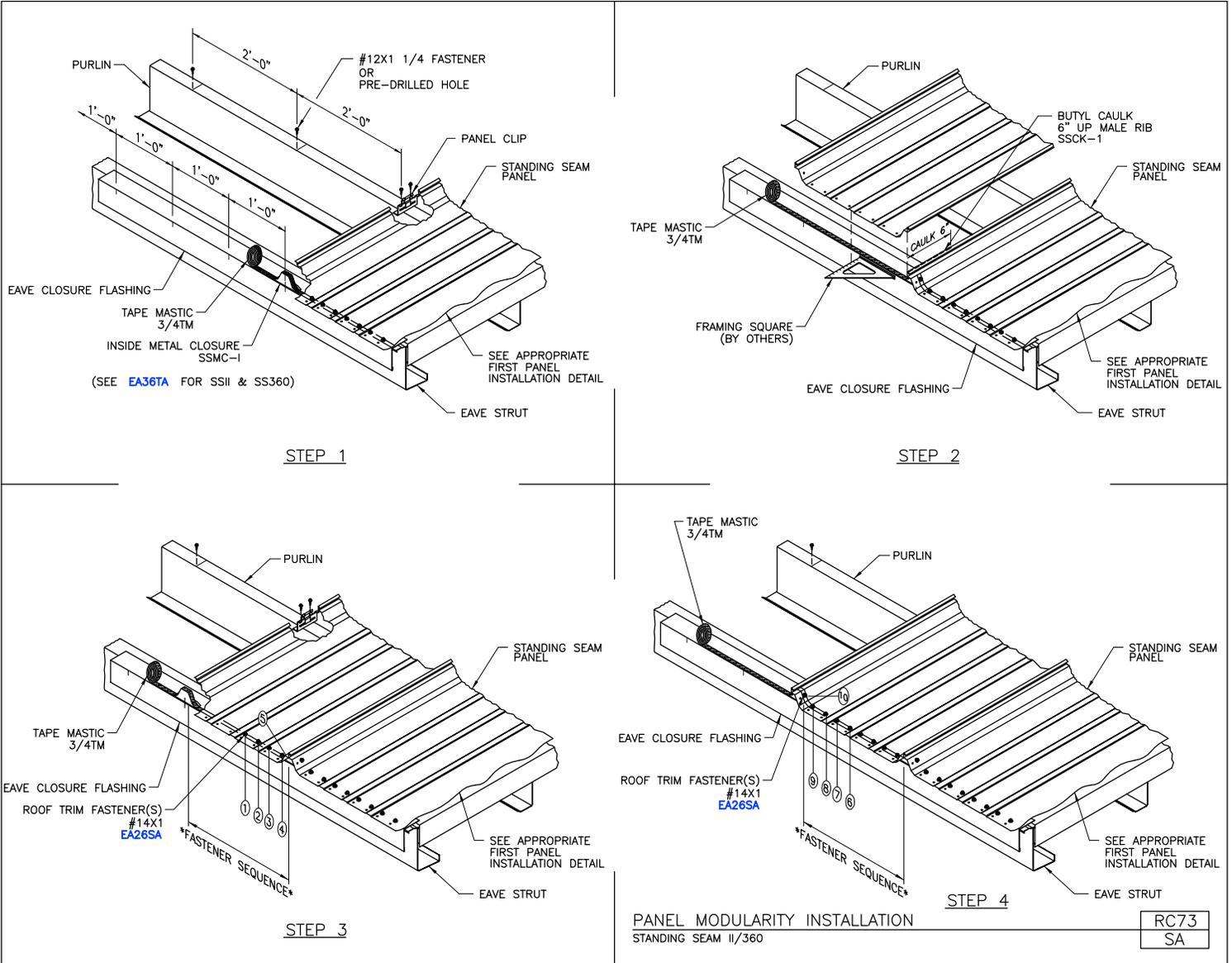
STANDING SEAM II/360

RC72
SA

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Panel Modularity Installation  
Standing Seam II/360  
RC73/SA



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## Erection Notes - Standing Seam

RC91/SA

### ERECTION NOTES:

1. ALL AREAS WHERE MASTIC IS TO BE APPLIED SHOULD BE WIPED CLEAN WITH A MILD DETERGENT OR AN ALL PURPOSE CLEANER BEFORE MASTIC APPLICATION. THIS WILL ENSURE A GOOD SEALING SURFACE AND IMPROVE WEATHER TIGHTNESS.
2. THE BLANKET INSULATION MANUFACTURER RECOMMENDS THAT DOUBLE SIDED TAPE BE USED TO SECURE THE INSULATION TO THE EAVE. THE METAL BUILDING SUPPLIER IS NOT RESPONSIBLE FOR THE INSTALLATION OR ATTACHMENT OF THE INSULATION.
3. DO NOT USE THE DIMPLES IN THE END OF THE PANELS TO LOCATE FASTENERS AT THE EAVE. DIMPLES ARE FOR THE FASTENERS AT THE PANEL ENDLAPS ONLY.
4. ALL EXPOSED FASTENERS SHOULD PENETRATE THE SEALANT FOR THE MOST WEATHER TIGHT CONNECTION.
5. WHEN FIELD CUTTING PANELS OR TRIM DO NOT USE ABRASIVE SAWS OR OTHER CUTTING METHODS WHICH PRODUCE HOT METAL PARTICLES OR BURN THE CUT EDGES. THESE METHODS WILL DAMAGE THE PAINTED AND GALVALUME FINISH AND VOID ANY WARRANTIES. USE DOUBLE CUT SHEARS, NIBBLERS OR OTHER CUTTING DEVICES WHICH DO NOT PRODUCE HOT METAL PARTICLES OR BURNED EDGES.

ERECTION NOTES – STANDING SEAM

RC91
SA

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Erection Notes  
Standing Seam Roof / Rigid Insulation  
RC91T/SA

NOTES

1. THE LENGTH AND TYPE OF STANDING SEAM CLIP FASTENERS IS DETERMINED BY THE THICKNESS OF THE RIGID INSULATION AND THE DEPTH OF THE MULTI-RIB PANEL, IF REQUIRED—SEE NOTE 3. (CLIP BEARING PLATE SSBP-1 IS REQUIRED PER DETAIL [RC26TSA.](#))
2. SEE TALLY SHEET FOR MARK NUMBER AND TYPE OF CLIP FASTENER REQUIRED.
3. THESE FASTENERS REQUIRED ONLY FOR THE MULTI-RIB PANEL AS SHOWN. DECK ATTACHMENT AS SPECIFIED BY DESIGN.
4. WHEN 1” RIGID INSULATION IS REQUIRED, USE EAVE SUPPORT FLASHING (TFSET) WITHOUT THE MULTI-RIB PANEL. FOR ALL OTHER EAVE CONDITIONS USE THE EAVE TRIM AND EAVE TRIM SUPPORT AS SHOWN.

ERECTION NOTES  
STANDING SEAM ROOF W/ RIGID INSULATION

RC91T
SA

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