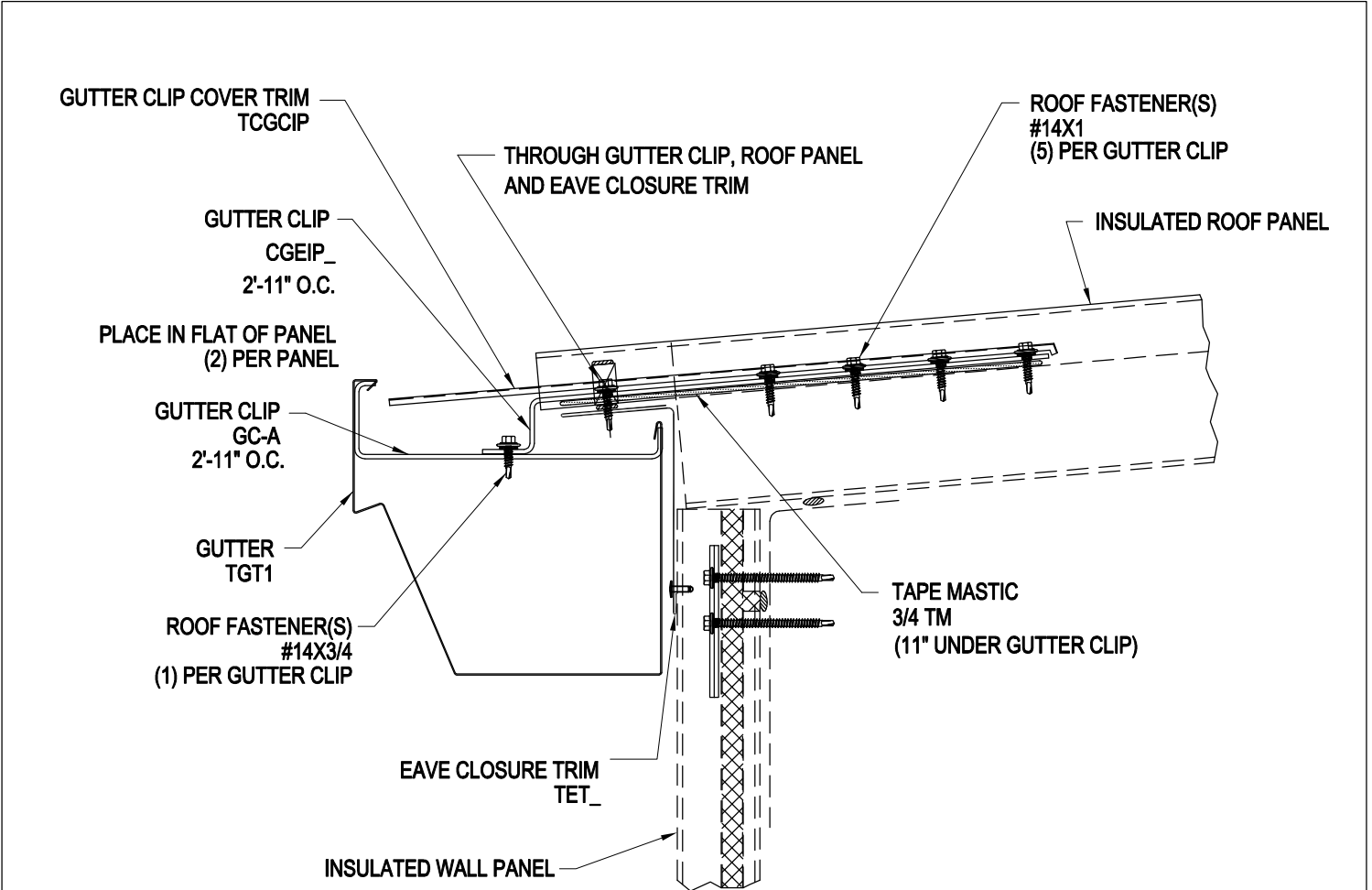


Product Manual - Insulated Standing Seam Roof Panels

EA01/QW, Standard Gutter w/ Gutter Clip
EA03/QW, Deluxe Eave Flashing Installation at All Roof Slopes
EA04A/QW, Section at Eave w/ Insulated Roof Panels
EA04B/RW, Roof Panel Installation at Eave
EA05/RW, High Side Attachments
EA11A/RW, Roof to Wall at High Side
EA26/RW, Fastener Installation at Eave
EA28/RW, Trim and Mastic Application at Eave
EA29/RW, Eave Mastic Detail at Panel Sidelap
EO01/QW, Standard Gutter Detail
EO03/QW, Deluxe Eave Flashing Installation at All Roof Slopes
EO28/RW, Mastic Application at Eave
FL03A/RA, High Side Eave Flashing
GE50/QW, Panel Storage - Unloading Panels
GE51/WW, Panel Storage
GE52/QW, Removing Protective Film
GE54/QW, Weather Tightness Requirements
RA03/RA, Universal Rake Cap Installation
RA04/AA, Corner Cap Box Installation
RA04A/AA, Corner Cap Box Installation
RA04B/RA, High Side Corner Box
RA14/RA, Ridge Flashing Endcap Installation
RA70/AA, Universal Rake Endcap Installation
RA70A/AA, High Side Eave Endcap, Without Corner Box
RC01A/RA, Sidelap Connection to Purlin
RC02A/RW, Rake Flashing
RC02/RW, Panel Fastening at Rake
RC05B/RA, Stitch Fastening at Panel Endlap
RC06A/RA, Panel Lap Detail
RC06/RA, Endlap Sealant Application and Fastener Connections
RC11/RW, Installation Sequence and Guidelines
RC12/RA, Panel Seaming Requirements
RC13A/RA, Standing Seam (SR2) Insulated Panel, Enhancement Clip, EC-01
RC13/RA, Roof Panel Joint
RC14/RA, Special Back Fastening, at Purlin Spacing Less Than 4'-0"
RC30/RW, Roof to Wall at Rake w/ Upper Wall Panel
RC32/RA, Ridge Connections

RC36/RA, Electric Seamer Seaming Detail
RC37/RA, Ridge Closure Connections
RC61/RA, Basic Fasteners and Fastener Charts
RC62/RA, Erection Tools
RC64/RA, Direction of Roof Panel Installation
RF20B/RA, Top View at Panel Endlap with Staggered Support Angle, SA2
RP10/QA, Panel End Prep
WEA05/RW, High Side Attachments
WEA11A/RW, Roof to Wall at High Side

Standard Gutter w/ Gutter Clip
Insulated Wall Panels w/ Insulated Roof Panels
EA01/QW



STANDARD GUTTER w/GUTTER CLIP
INSULATED WALL PANELS w/ INSULATED ROOF PANELS

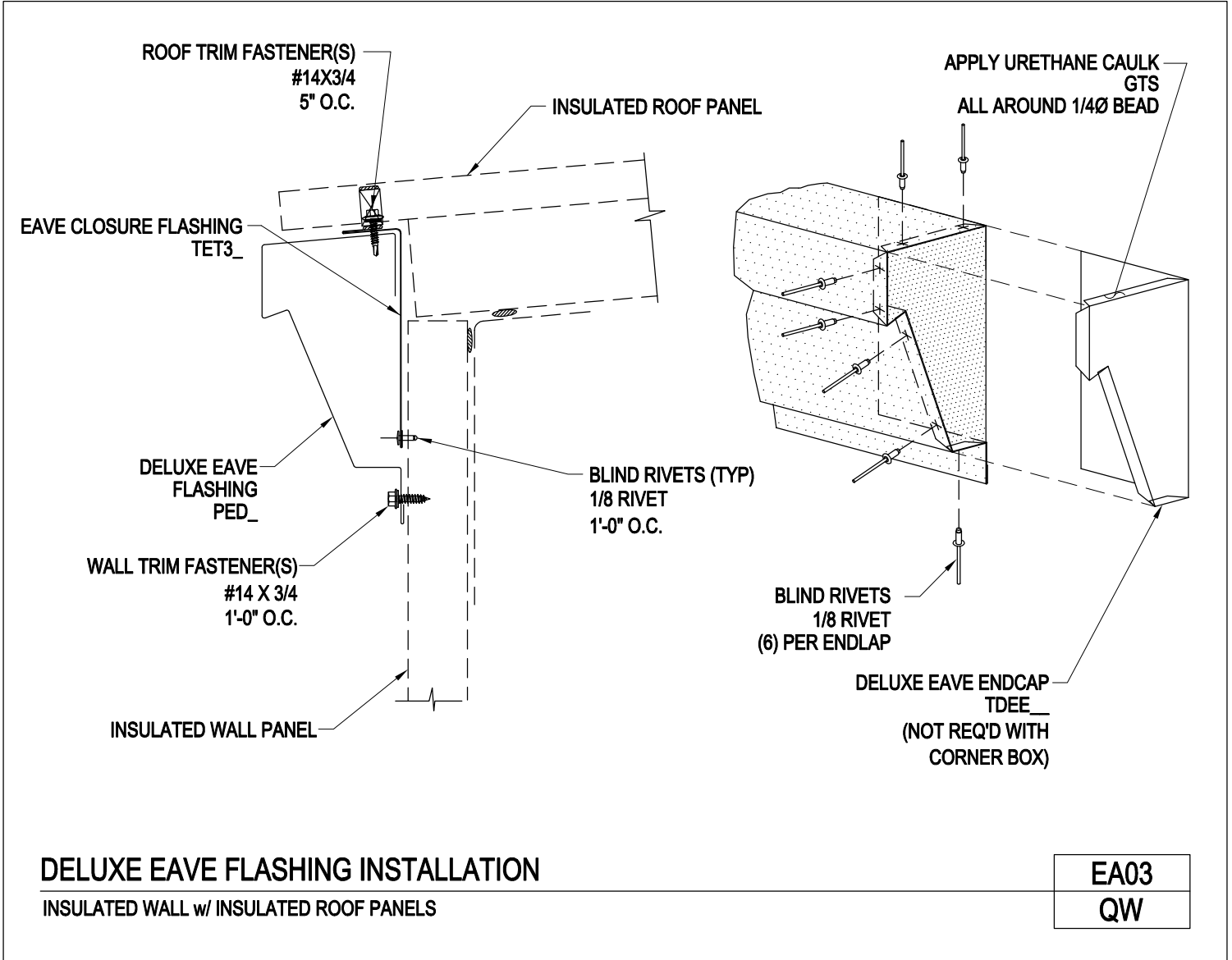
EA01
QW

REFERENCE DETAILS: [EA28QW](#), [EA28RW](#), [FL09AA](#)

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Deluxe Eave Flashing Installation at All Roof Slopes
Insulated Wall w/ Insulated Roof Panels
EA03/QW

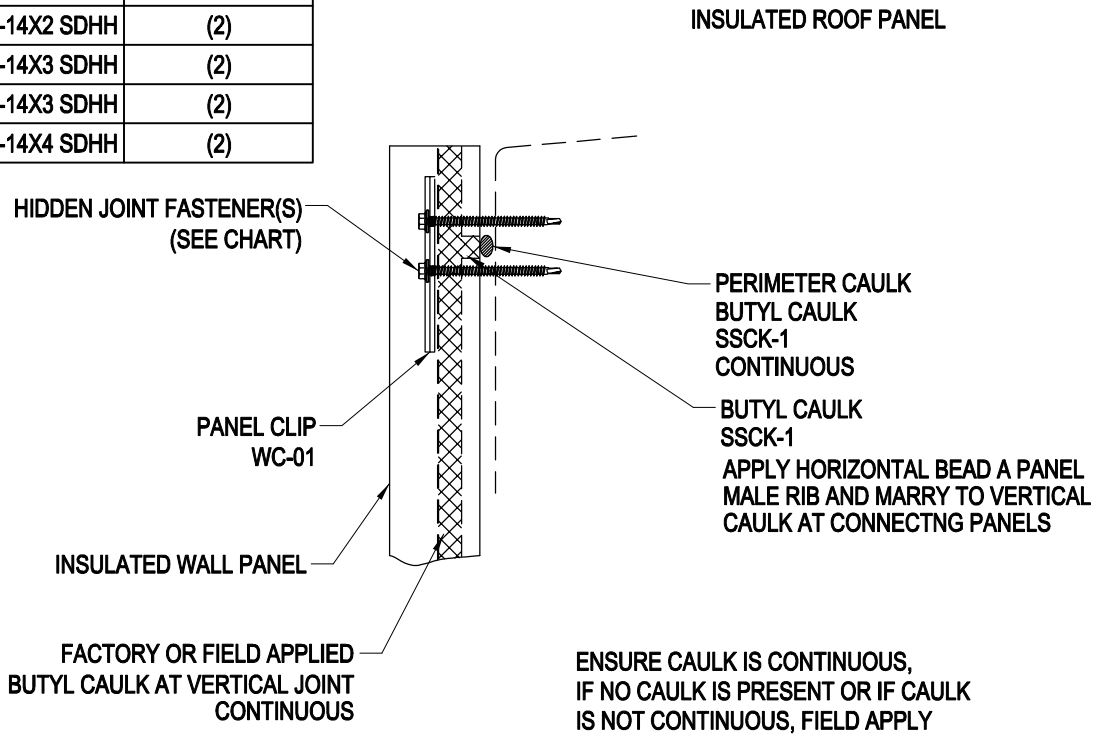


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Section at Eave w/ Insulated Roof Panels
 Insulated Wall Panels
 EA04A/QW

PANEL THICKNESS	HIDDEN JOINT FASTENER	FASTENER QTY. PER WC-01 CLIP
2"	#1/4-14X2 SDHH	(2)
2 1/2"	#1/4-14X3 SDHH	(2)
3"	#1/4-14X3 SDHH	(2)
4"	#1/4-14X4 SDHH	(2)



SECTION AT EAVE w/ INSULATED ROOF PANELS

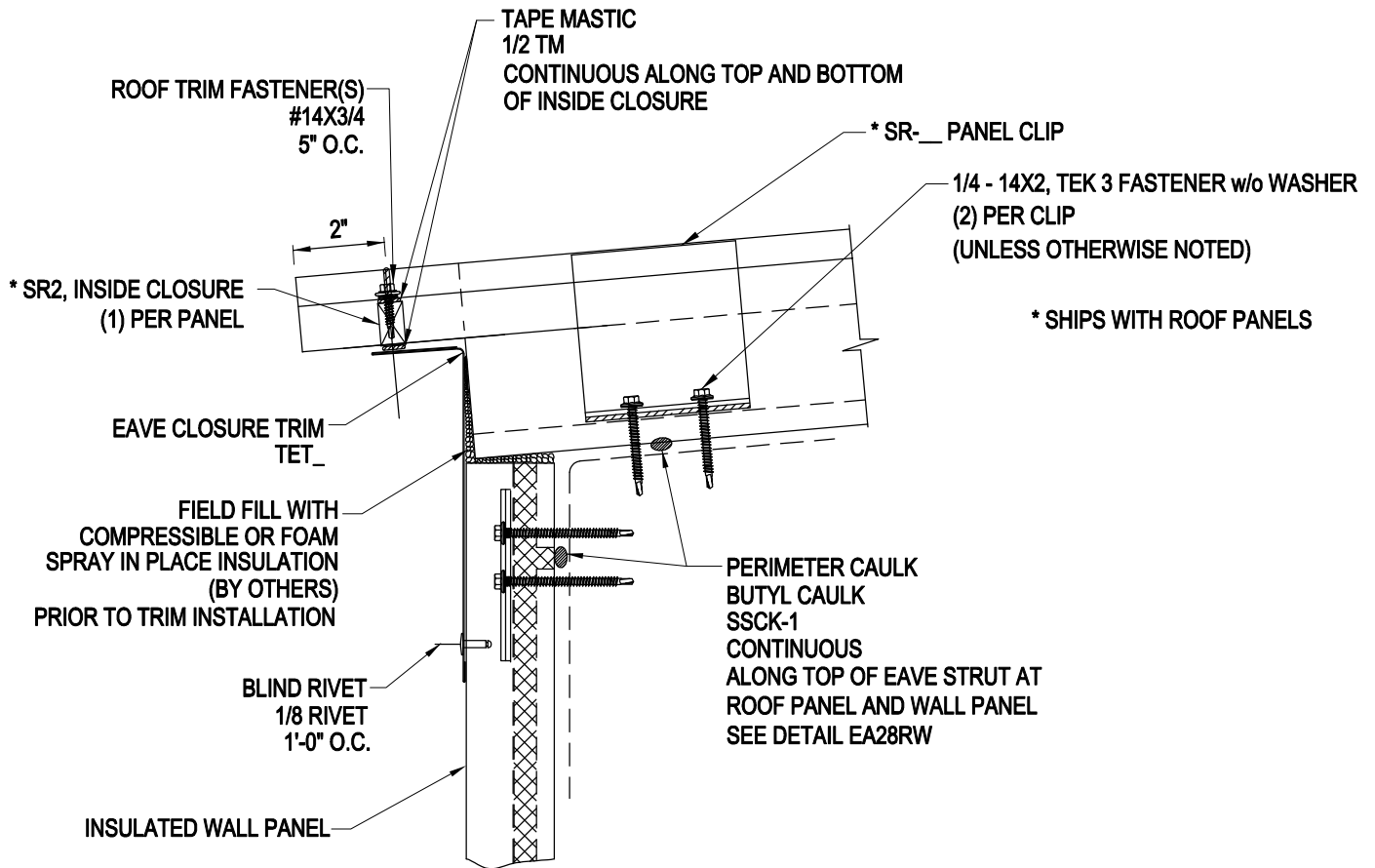
INSULATED WALL PANELS

EA04A
QW

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Roof Panel Installation at Eave
Insulated Wall Panels w/ Standing Seam (SR2) Insulated Roof Panels
EA04B/RW



ROOF PANEL INSTALLATION AT EAVE

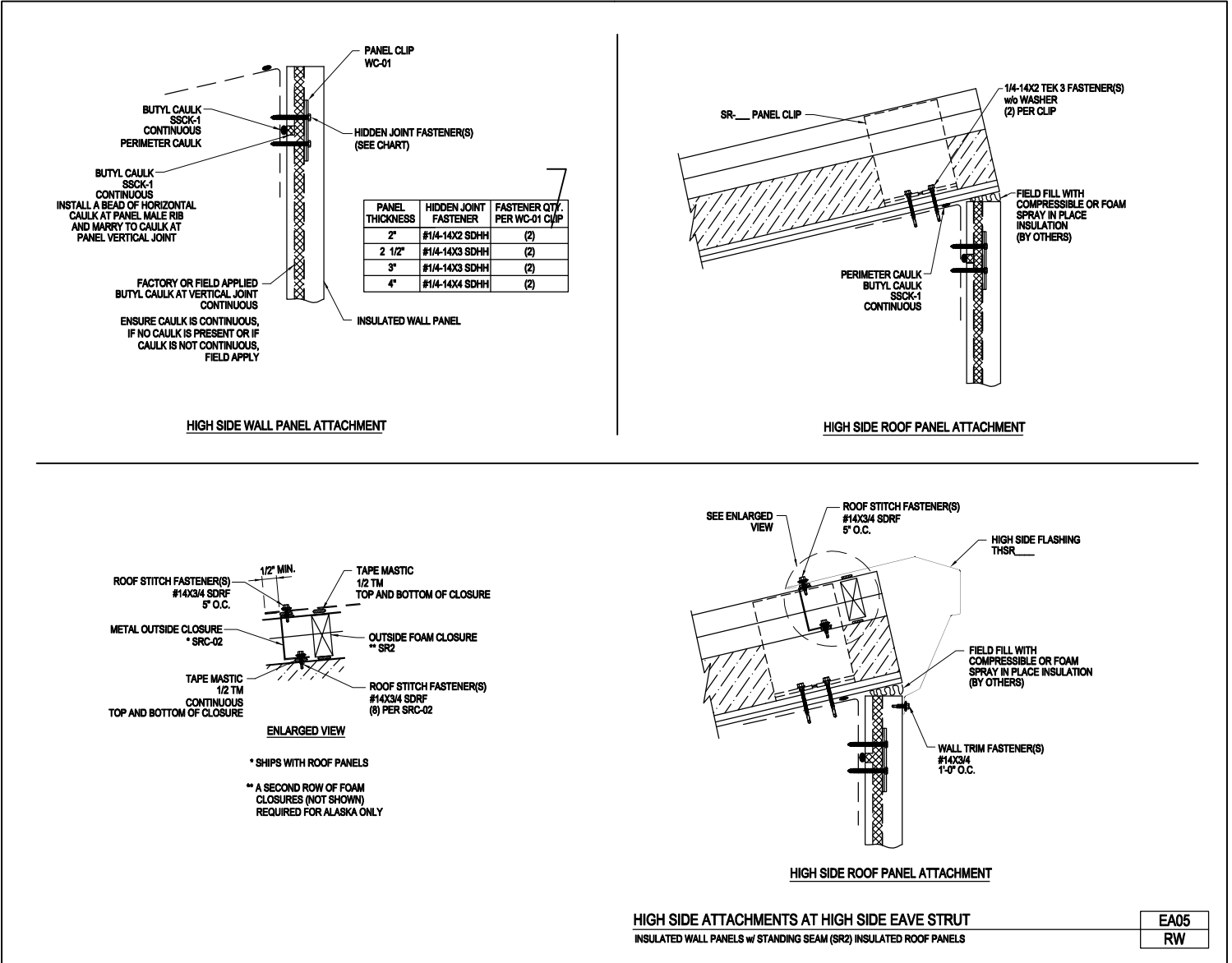
INSULATED WALL PANELS w/ STANDING SEAM (SR2) INSULATED ROOF PANELS

EA04B
RW

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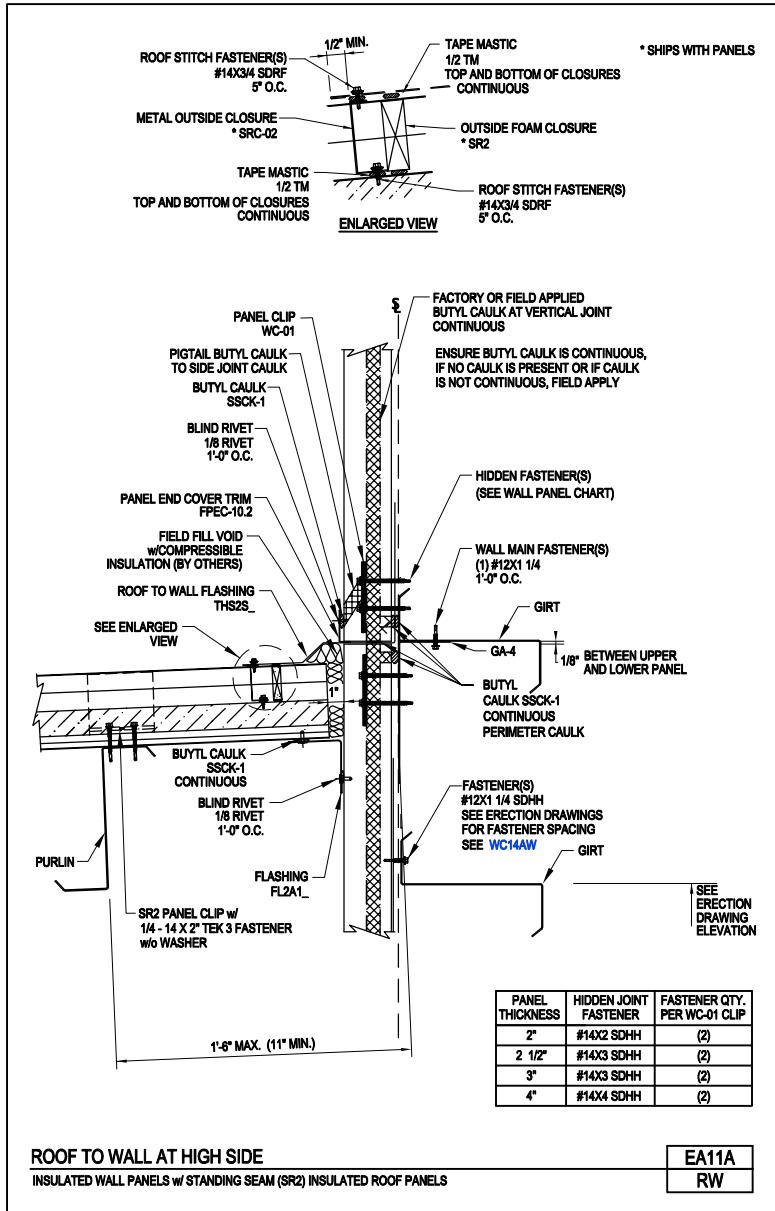
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High Side Attachments
 Insulated Wall Panels w/ Standing Seam (SR2) Insulated Roof Panels
 EA05/RW



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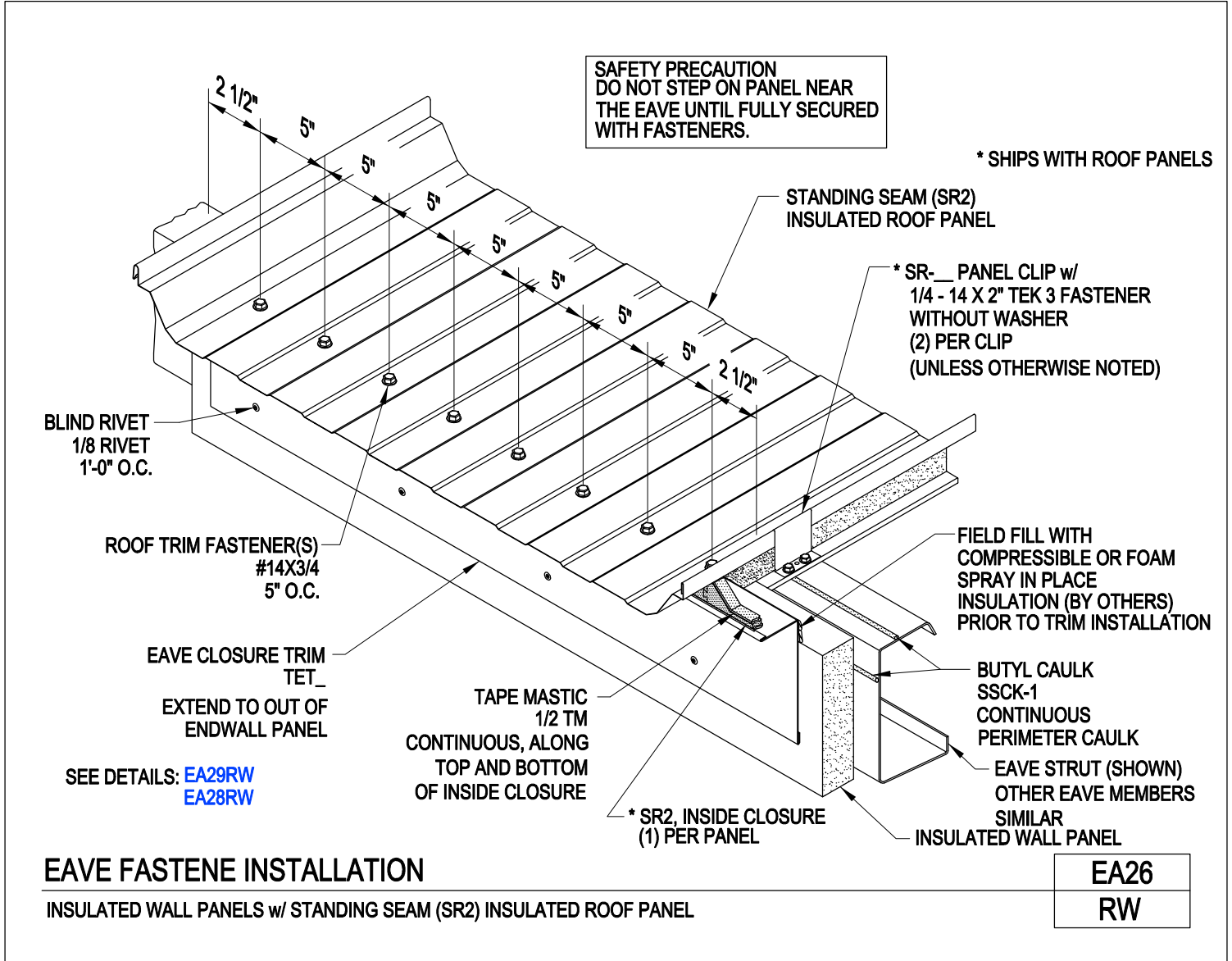
Roof to Wall at High Side
 Insulated Wall Panels w/ Standing Seam (SR2) Insulated Roof Panels
 EA11A/RW



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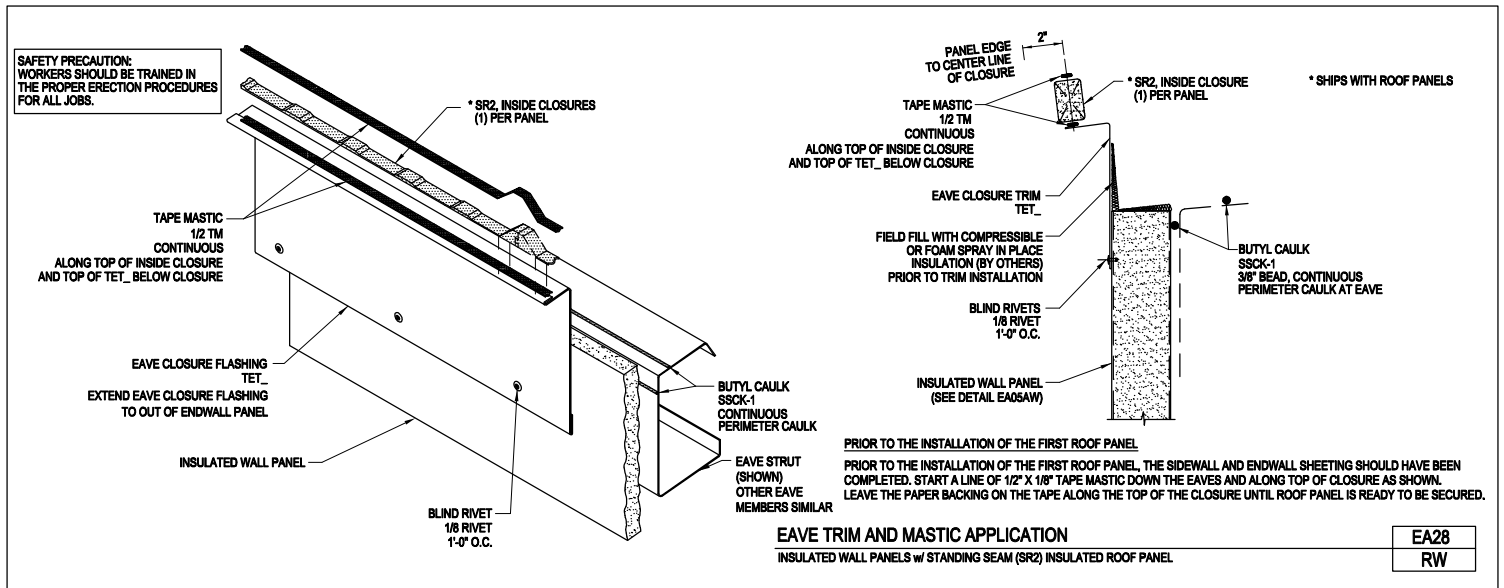
Fastener Installation at Eave
 Insulated Wall Panels w/ Standing Seam (SR2) Insulated Roof Panels
 EA26/RW



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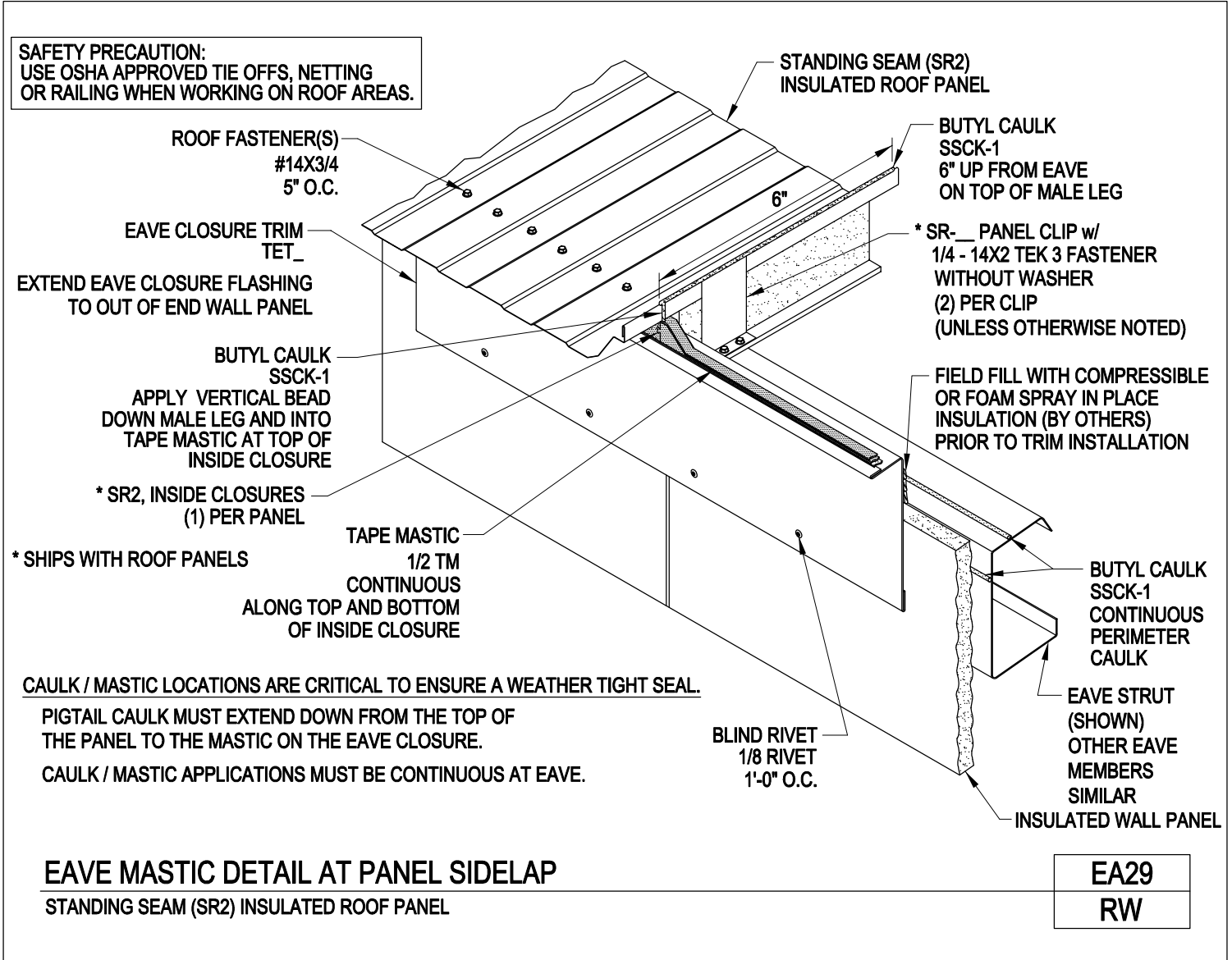
Trim and Mastic Application at Eave
 Insulated Wall Panels w/ Standing Seam (SR2) Insulated Roof Panels
 EA28/RW



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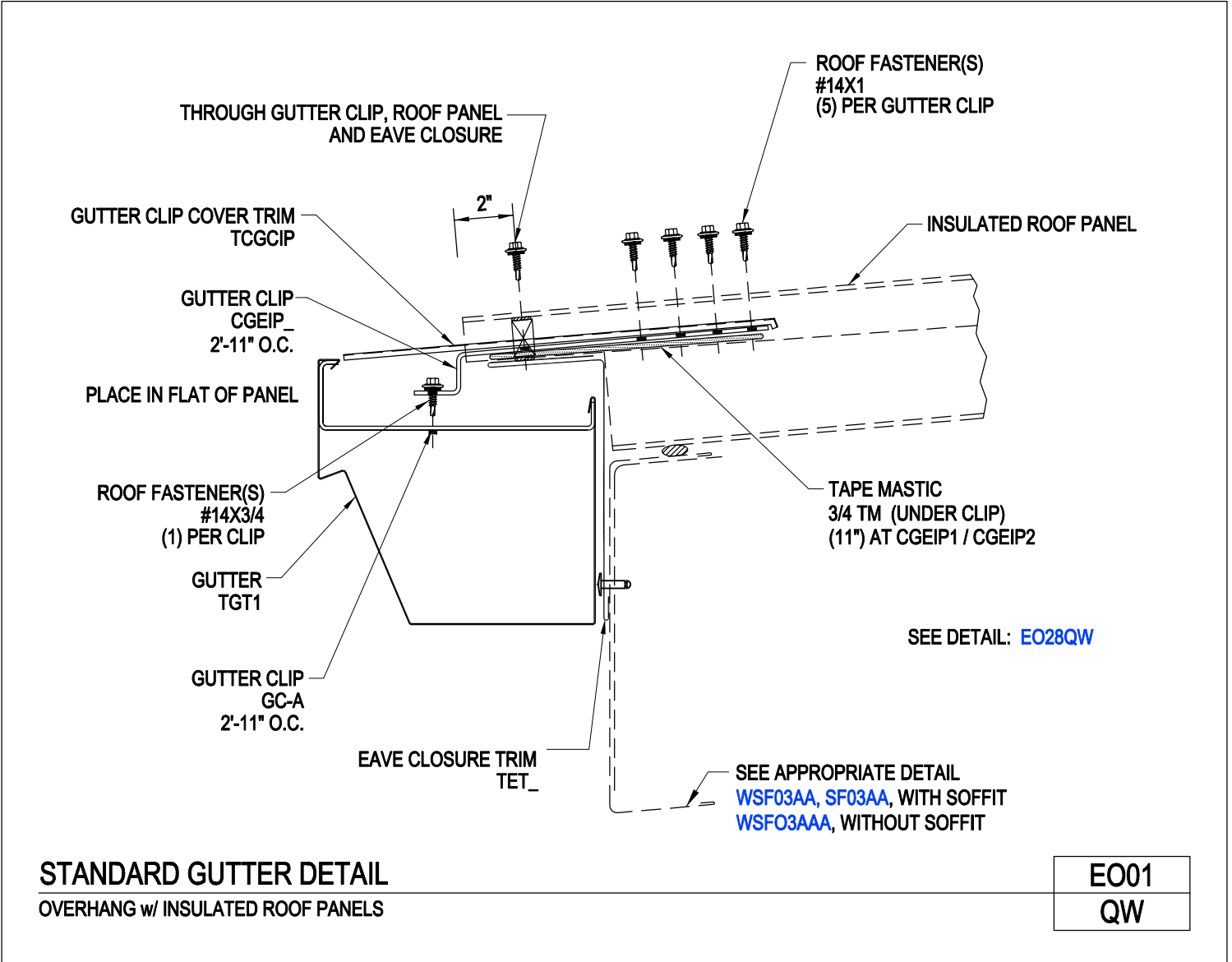
Eave Mastic Detail at Panel Sidelap
 Standing Seam (SR2) Insulated Roof Panels
 EA29/RW



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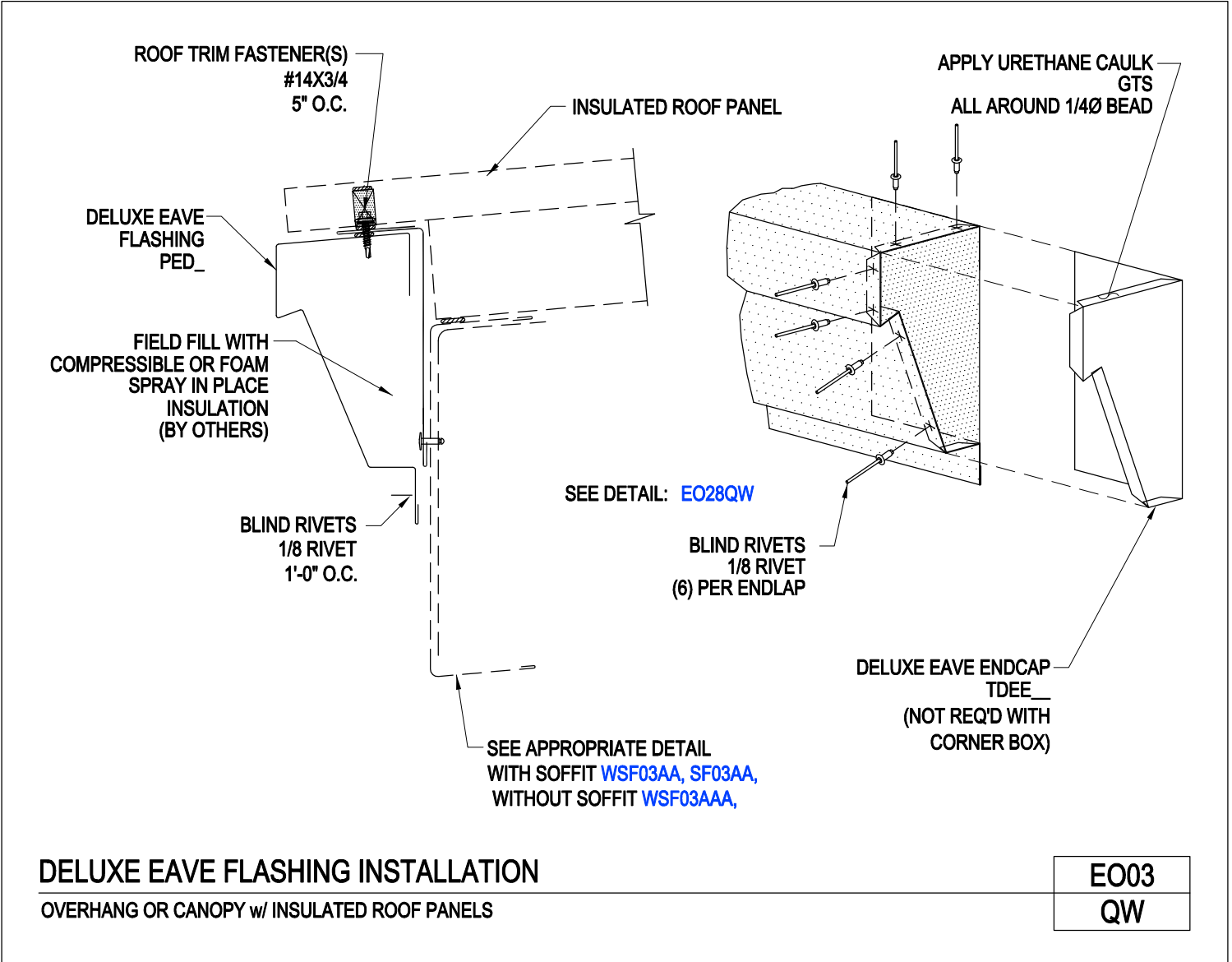
Standard Gutter Detail
Overhang w/Insulated Roof Panels
EO01/QW



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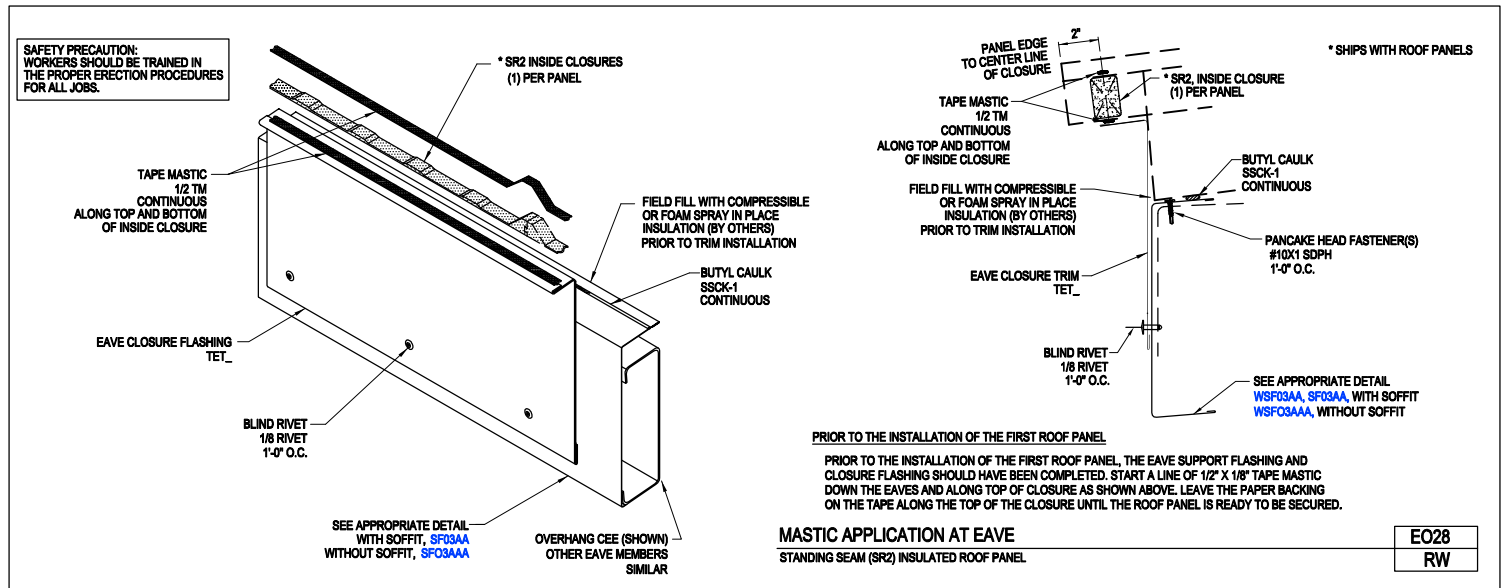
Deluxe Eave Flashing Installation at All Roof Slopes
Overhang w/ Insulated Roof Panels
EO03/QW



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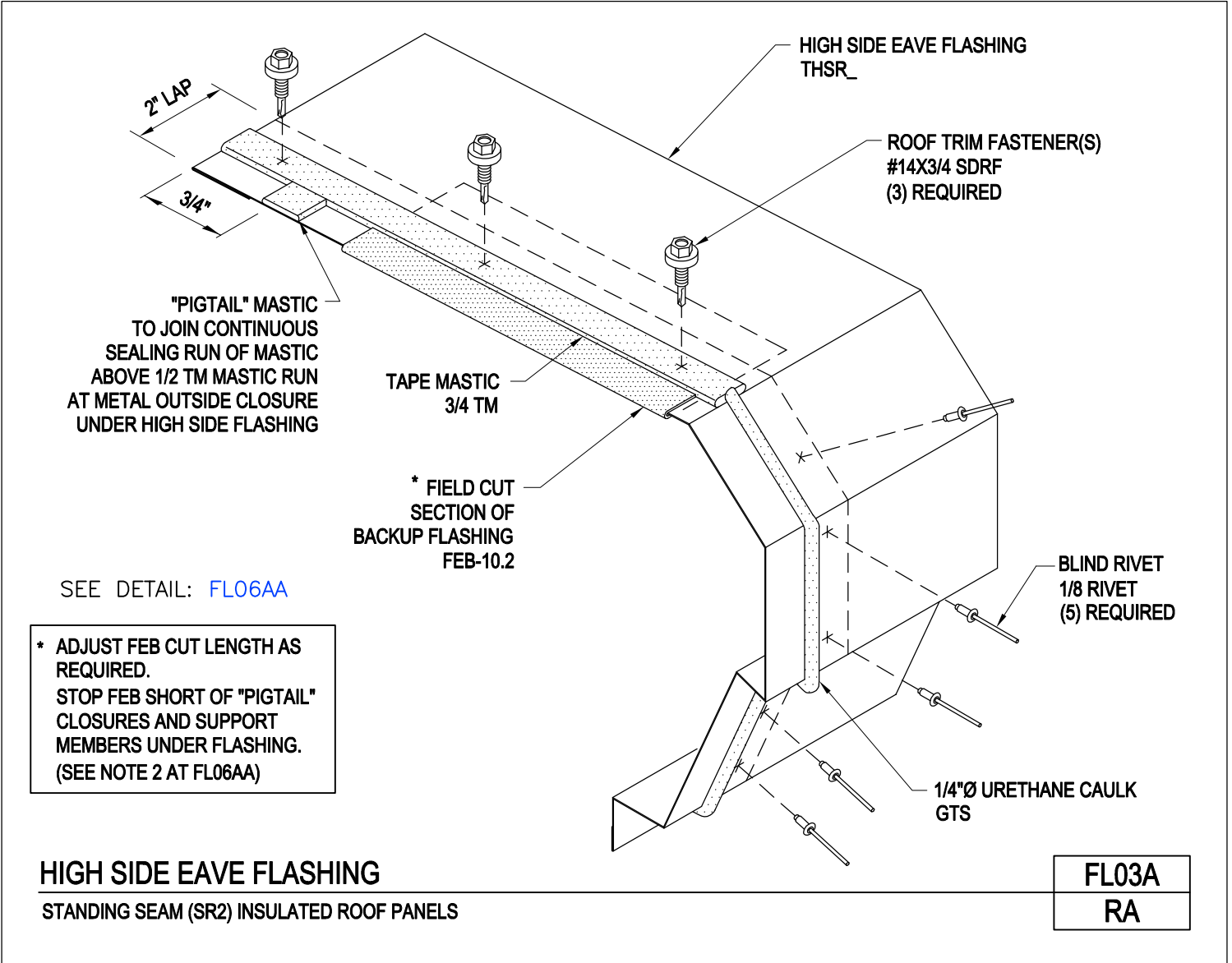
Mastic Application at Eave
Standing Seam (SR2) Insulated Roof Panels
EO28/RW



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High Side Eave Flashing
Standing Seam (SR2) Insulated Roof Panels
FL03A/RA



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Panel Storage - Unloading Panels
Insulated Panels
GE50/QW

Reinforced Lifting Points are Clearly Marked on the Panel Bundle (See Figure 1)
Long Length Panels have Two or More Lifting Points (See Figure 2).

Use Extreme Care to Avoid Bumping or Dropping the Panels while Lifting and Maneuvering.

Hoist the panels to the roof with the aid of nylon slings and a spreader bar to prevent any chance of bending or buckling the panels.

Unloading with a Forklift

- Over engagement of forks will cause damage to the materials located on the opposite side of the bundle being lifted
- Panels Should Not Deflect Significantly in the Lifting Process.
- Ensure the forks are between the 3" foam stickers at the bottom of each bundle. Lift bundles one at a time with the forklift

USE ONE FORKLIFT TO LIFT BUNDLES AT THE LIFT POINT SECTION.

LIFT POINT SECTION IS BOUNDARY MARKED IN RED. KEEP FORKS WITHIN THE MARKS.

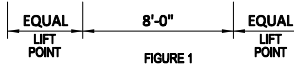


FIGURE 1
STANDARD LENGTH BUNDLES
10'-0" OR LONGER

Unloading with an Overhead Crane

- Use nylon reinforced slings or straps located at a minimum of two points along the length of the bundle for Crane lifting of the individual bundles.
- Chains or Cables should not come in contact with the panels.
- Suitably stiff inserts should be located at top and bottom of the bundles at the sling positions to protect the edges of the upper and lower panels.
- When bundles are longer than 15'-0" it is suggested that a properly designed and fabricated lifting beam is used.

BE CAREFUL WHEN UNLOADING OR MOVING LONG LENGTH BUNDLES
DO NOT POSITION YOUR LIFT AT THE CENTER OF THE BUNDLE
THIS MAY CAUSE PANEL DAMAGE.

USE TWO FORKLIFTS OR CRANE STRAPS TO LIFT BUNDLES AT THE LIFT POINT SECTIONS.

KEEP FORKS OR STRAPS WITHIN THE MARKS.

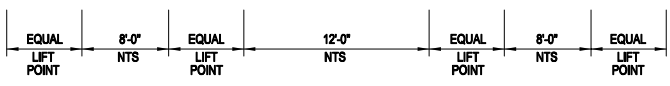


FIGURE 2
LONG LENGTH BUNDLES
36'-0" OR LONGER

PANEL STORAGE - UNLOADING PANELS
INSULATED PANELS

GE50
QW

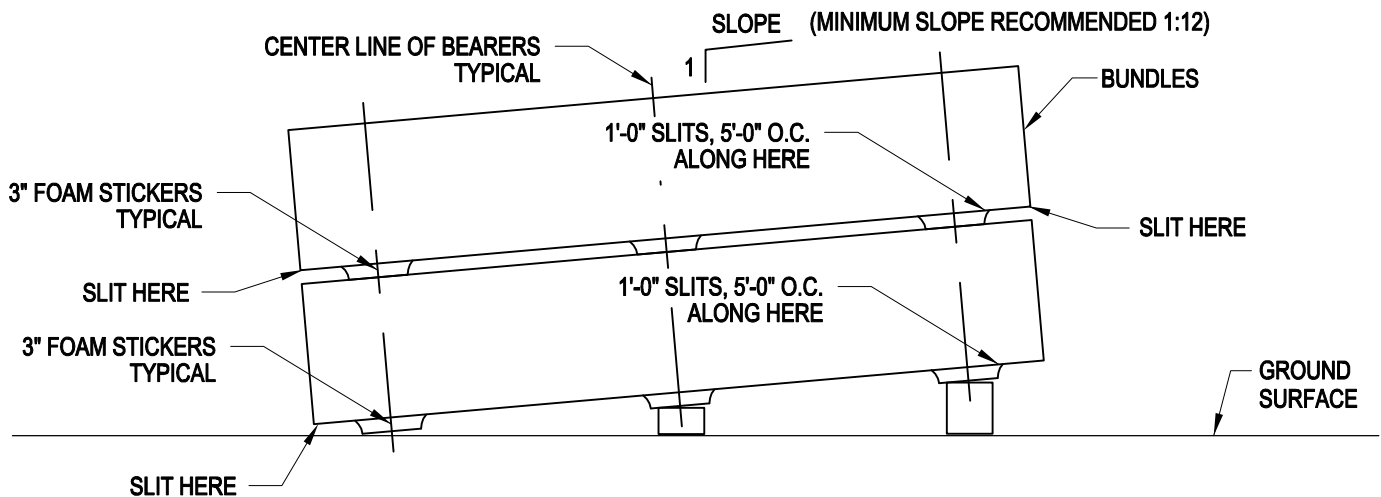
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Panel Storage
Insulated Panels
GE51/WW

CAREFULLY, unload panel bundles and place directly in a protected storage area on a firm, level surface clear of debris, standing water, direct sun and drifting snow and under cover*, for preferably no more than 30 days.

Stack bundles no more than (2) high with the foam stickers for the upper bundle should be located in line with the foam stickers of the lower bundle. Elevate with wood blocking, to allow air circulation under the bundle and on at least a 1:12 slope so water does not accumulate. Slit plastic wrap at base to allow air flow. The continuous cut should be made along the width of the bundle and 1'-0" at 5'-0" O.C. along the length of the bundle. The addition of a waterproof cover will be required to protect panels from wet weather and sun exposure during transit.

* Always, store the panels properly in a dry location where they are covered from direct sunlight. Prolonged exposure to direct sunlight will cause the plastic film to bond to the metal panel face. Plastic film that has bonded to the metal surface becomes very difficult to remove.



INSPECT PANELS DAILY

Inspect daily for moisture and insure no sags are present. Trapped moisture can damage the panel finish and void applicable finish warranties. If panel bundles containing moisture or sags should be dried and carefully re-stacked to avoid damage to panels. Bundles should be firmly tied or weighted down once bundle is broken open.

PANEL STORAGE

INSULATED PANELS

GE51
WW

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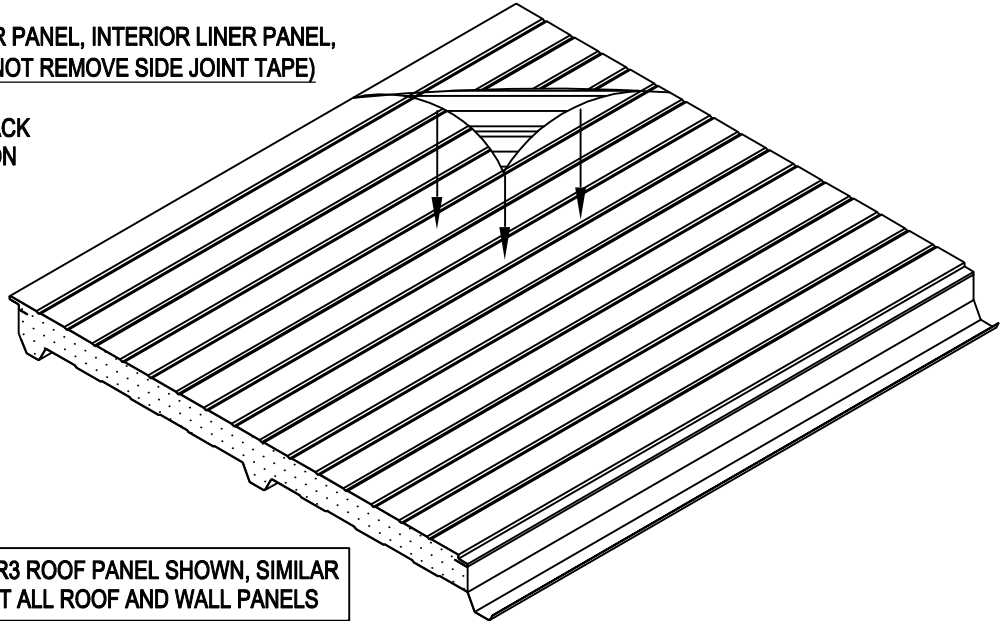
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Removing Protective Film
Insulated Panels
GE52/QW

**PROTECTIVE FILM REMOVAL AT EXTERIOR PANEL, INTERIOR LINER PANEL,
AND PANEL AREA OF SIDE JOINTS (DO NOT REMOVE SIDE JOINT TAPE)**

STARTING AT A PANEL CORNER PULL BACK
FILM AT A 45° ANGLE WITH EVEN TENSION
PULL WITH EVEN TENSION TO
PREVENT TEARING AND
FACILITATE REMOVAL.

IF ADHESIVE RESIDUE IS
PRESENT AFTER FILM REMOVAL
CLEAN THE PANEL SURFACE WITH
A SOFT CLOTH AND WATER
(A CITRUS BASE SOLUTION ADDED
TO THE WATER WILL ENHANCE
REMOVAL OF ADHESIVE RESIDUE).



HR3 ROOF PANEL SHOWN, SIMILAR
AT ALL ROOF AND WALL PANELS

DO NOT REMOVE THE PROTECTIVE FILM FROM THE PANEL UNTIL THAT PANEL IS READY FOR INSTALLATION.

INSULATED PANELS TEMPORARY PROTECTIVE PLASTIC FILM KEEPS THE METAL
SURFACE CLEAN AND HELP PREVENT DAMAGE IN SHIPPING AND HANDLING.

STORE PANELS PROPERLY IN A DRY LOCATION WHERE THEY ARE COVERED FROM DIRECT SUNLIGHT.

PROTECTIVE PLASTIC FILM IS NOT TO BE EXPOSED TO DIRECT SUNLIGHT FOR MORE THAN 48 HOURS.
PROLONGED EXPOSURE TO DIRECT SUNLIGHT MAY CAUSE THE PLASTIC FILM TO BOND TO THE METAL
PANEL FACE. PROLONGED EXPOSURE TO TEMPERATURES ABOVE 80°F IS NOT RECOMMENDED AS IT
MAY RESULT IN RESIDUAL ADHESION RESIDUE ON THE PANEL FACE.

REMOVING PROTECTIVE FILM

INSULATED PANELS

GE52
QW

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Weather Tightness Requirements
Insulated Panels
GE54/QW

WEATHER TIGHTNESS REQUIREMENTS

TO PREVENT CONDENSATION ISSUES CARE MUST BE TAKEN BY THE INSULATED PANEL INSTALLER TO ENSURE PROPER SEALING OF THE BUILDING.

NOTE THE FOLLOWING:

- A) ALL MATERIALS MUST BE INSTALLED AS SHOWN ON THE PROVIDED ERECTION DETAILS.
- B) ALL PERIMETER CAULKING AND BUTYL SEALANT APPLICATIONS MUST BE INSTALLED AS SHOWN ON THE ERECTION DETAILS.
- C) CONTINUOUS CAULK AND TAPE MASTIC APPLICATIONS (FACTORY OR FIELD) MUST BE CAREFULLY INSPECTED AND ANY VOIDS FOUND MUST BE FIELD APPLIED.
- D) GAPS, VOIDS OR AIR SPACE CREATED AT PANEL TO PANEL TRANSITIONS; AS AT RAKE, LOW EAVE, RIDGE, HIGH SIDE EAVE, ROOF TO WALL OR CORNERS MUST BE FIELD FILLED WITH LOOSE COMPRESSIBLE OR FOAM SPRAY IN PLACE INSULATION (BY OTHERS UNLESS SPECIFICALLY ORDERED AND NOTED ON THE ERECTION DRAWING.

AMERICAN BUILDINGS COMPANY WILL NOT BE RESPONSIBLE FOR ANY CONDENSATION ISSUES THAT MAY OCCUR DUE TO IMPROPER INSTALLATION.

IF THE ERECTOR IS NOT EXPERIENCED WITH THE INSULATED PANELS SUPPLIED BY AMERICAN BUILDINGS COMPANY, IT IS STRONGLY RECOMMENDED THAT A FIELD TECHNICIAN BE ON SITE BEFORE BEGINNING PANEL INSTALLATION. PANEL INSTALLATION. CONTACT YOUR PROJECT COORDINATOR TO REQUEST AND SCHEDULE A FIELD TECHNICIAN.

WEATHER TIGHTNESS REQUIREMENTS

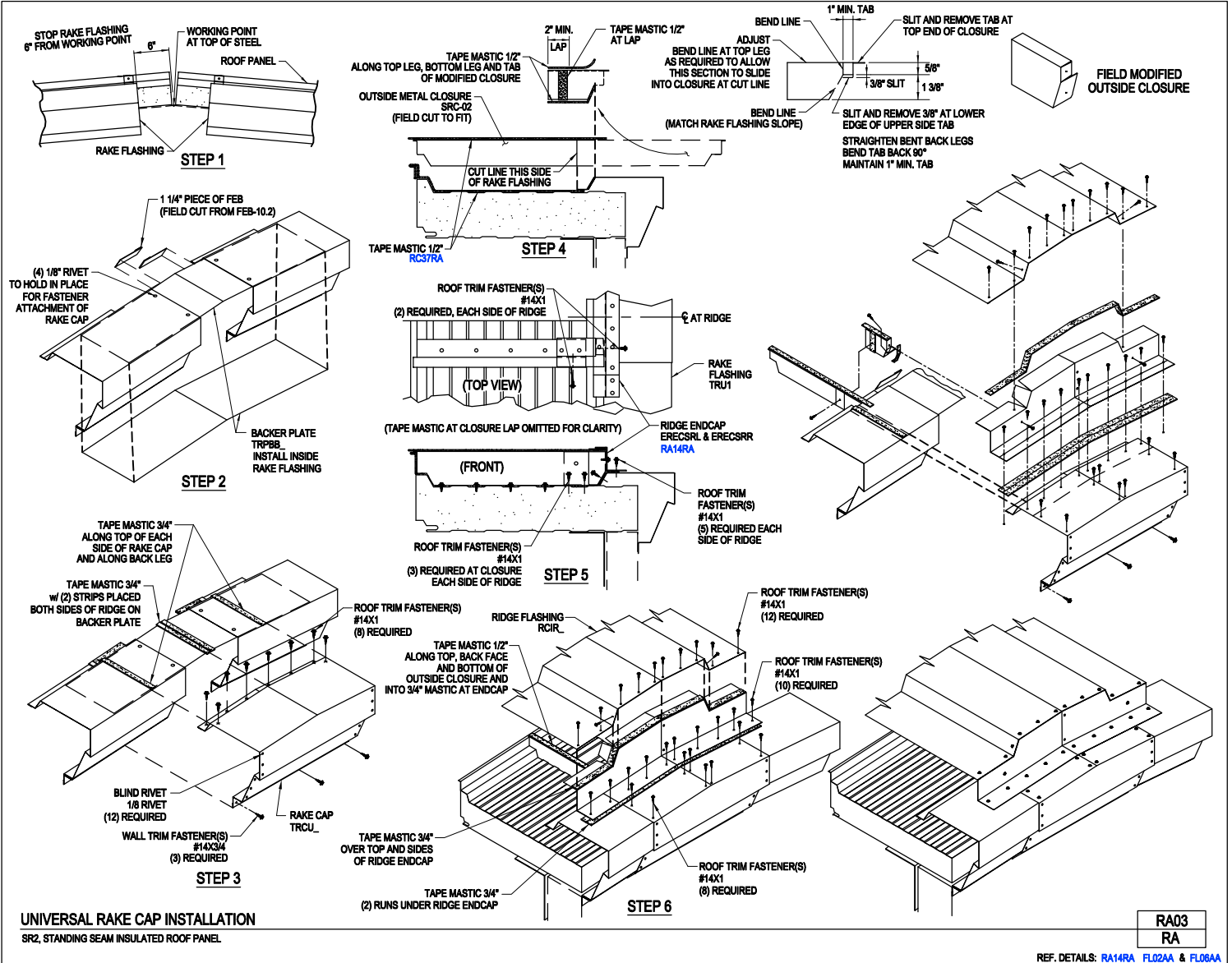
INSULATED PANELS

GE54
QW

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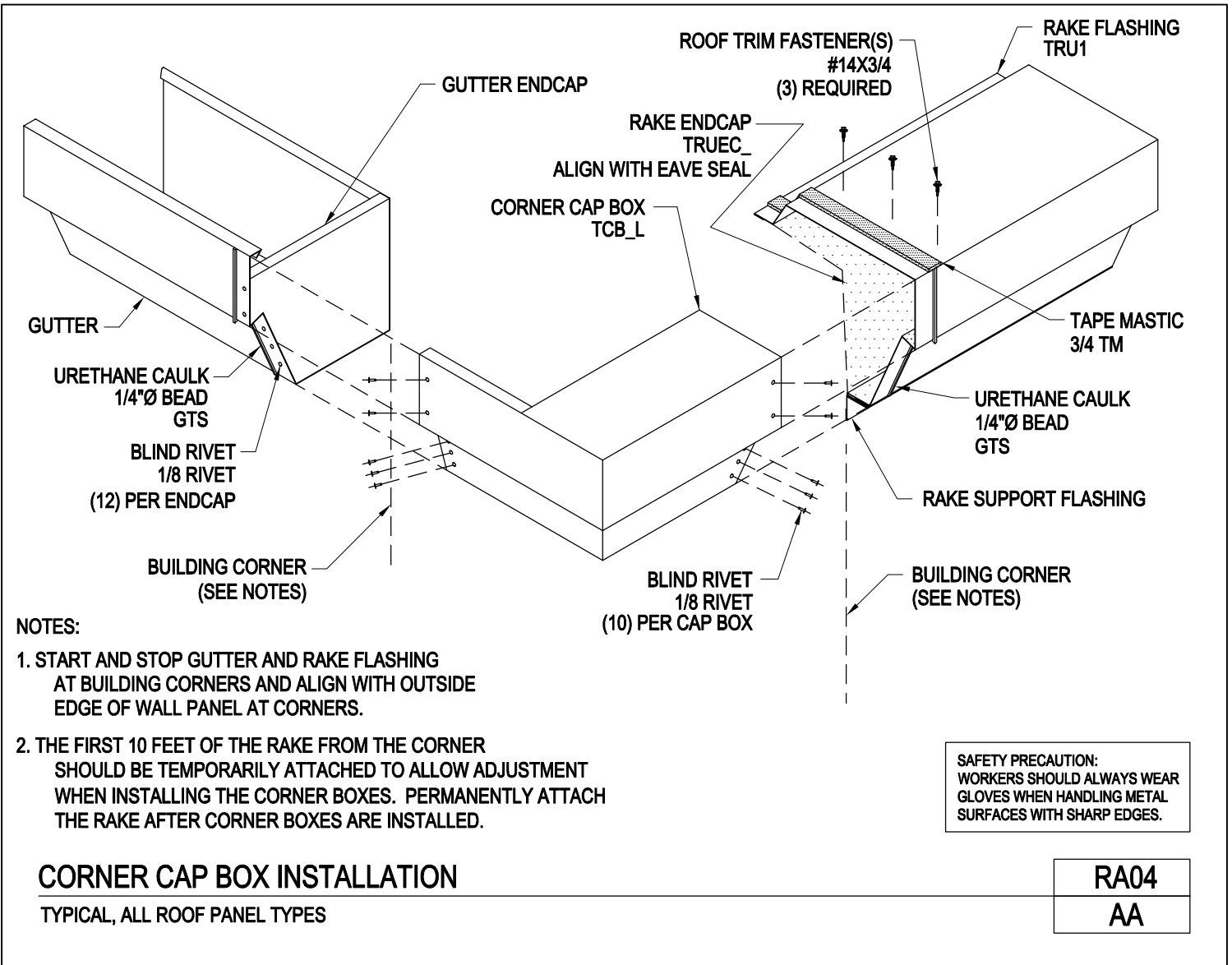
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Universal Rake Cap Installation
 SR2, Standing Seam Insulated Roof Panel
 RA03/RA



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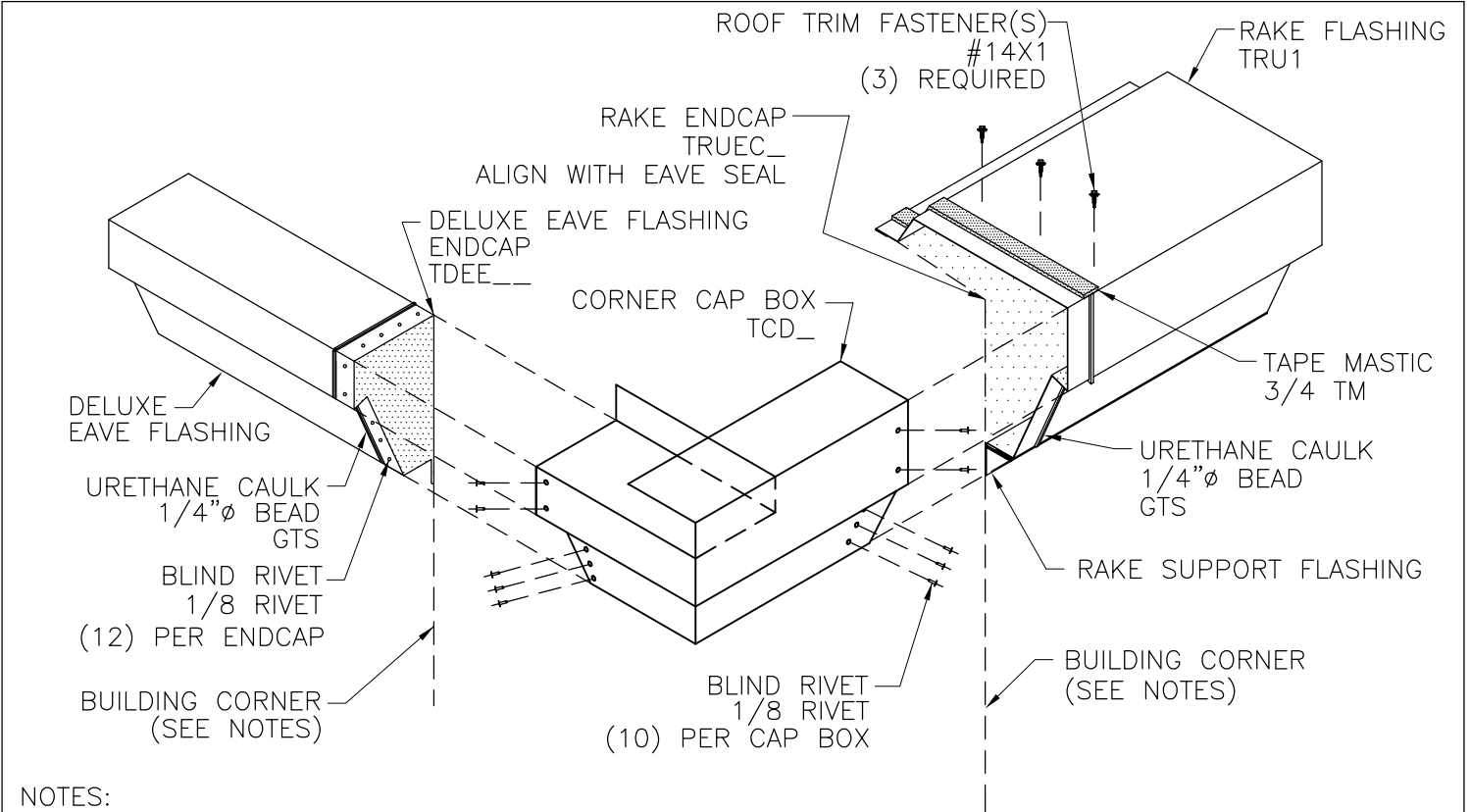
Corner Cap Box Installation
Typical, All Roof Panel Types
RA04/AA



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Corner Cap Box Installation
Typical, All Roof Panels
RA04A/AA



NOTES:

1. START AND STOP DELUXE EAVE AND RAKE FLASHING AT BUILDING CORNERS AND ALIGN WITH OUTSIDE EDGE OF WALL PANEL AT CORNERS.
2. THE FIRST 10 FEET OF THE RAKE FROM THE CORNER SHOULD BE TEMPORARILY ATTACHED TO ALLOW ADJUSTMENT WHEN INSTALLING THE CORNER BOXES. PERMANENTLY ATTACH THE RAKE AFTER CORNER BOXES ARE INSTALLED.

SAFETY PRECAUTION:
WORKERS SHOULD ALWAYS WEAR GLOVES WHEN HANDLING METAL SURFACES WITH SHARP EDGES.

CORNER CAP BOX INSTALLATION

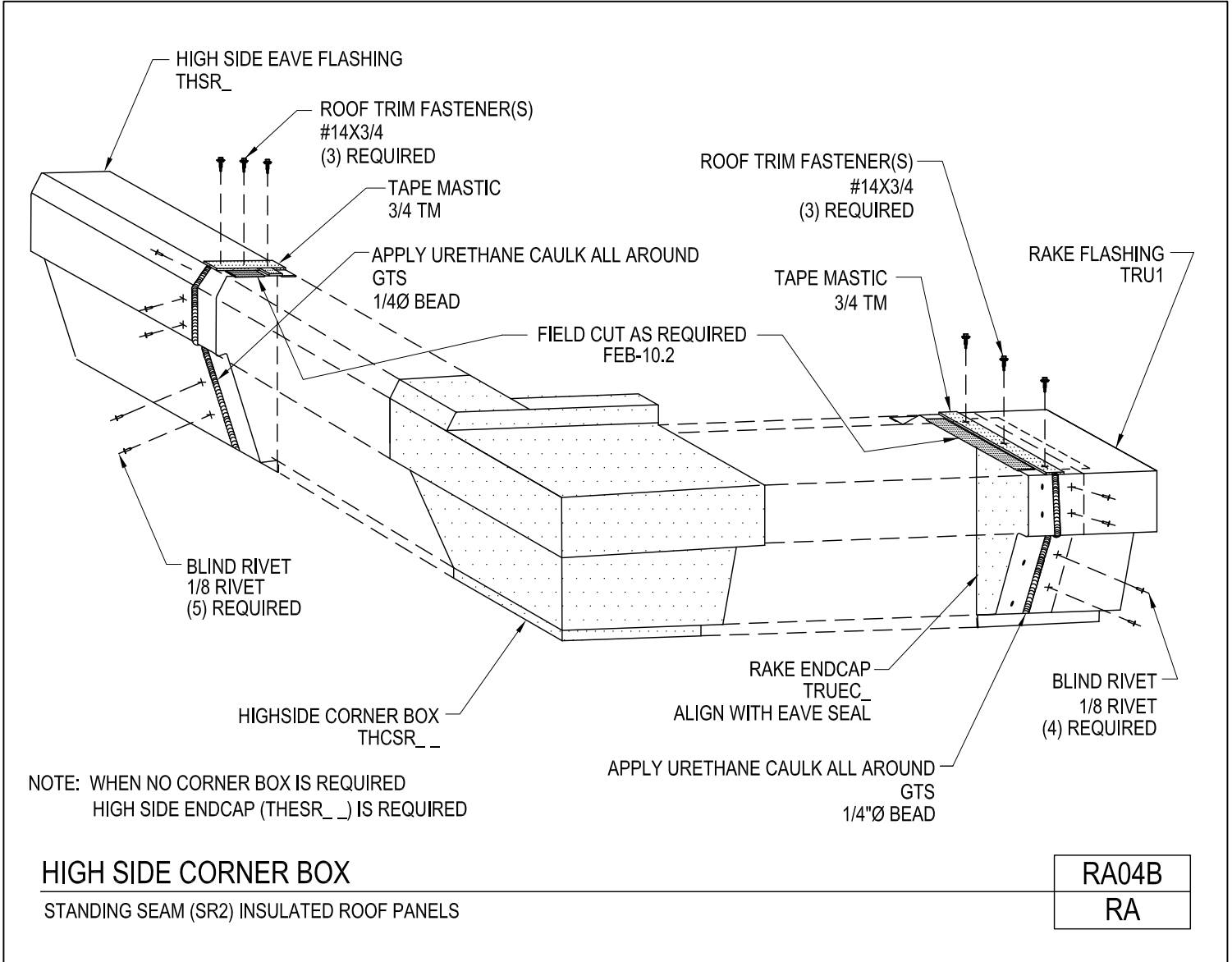
TYPICAL, ALL ROOF PANELS

RA04A
AA

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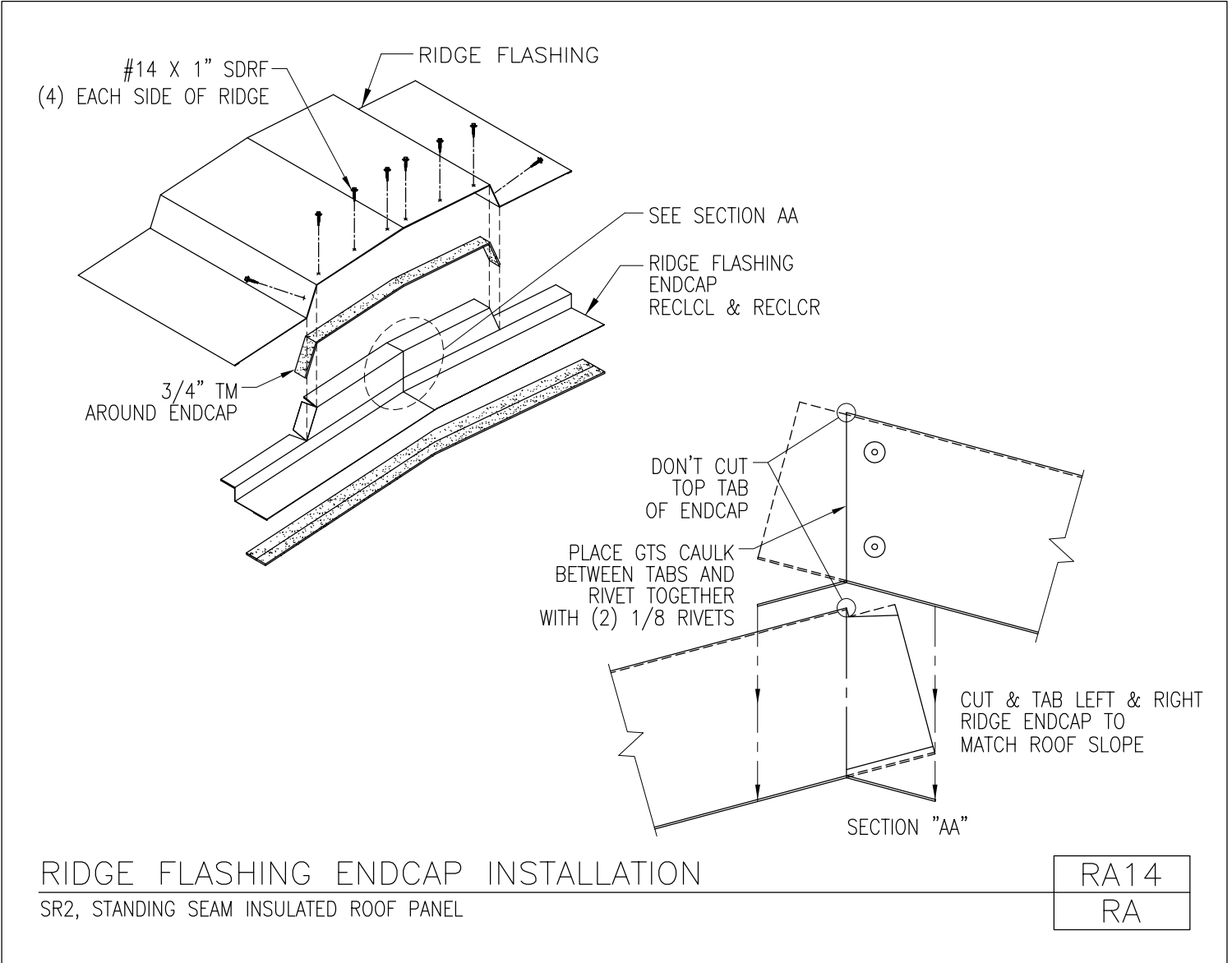
High Side Corner Box
Standing Seam (SR2) Insulated Roof Panels
RA04B/RA



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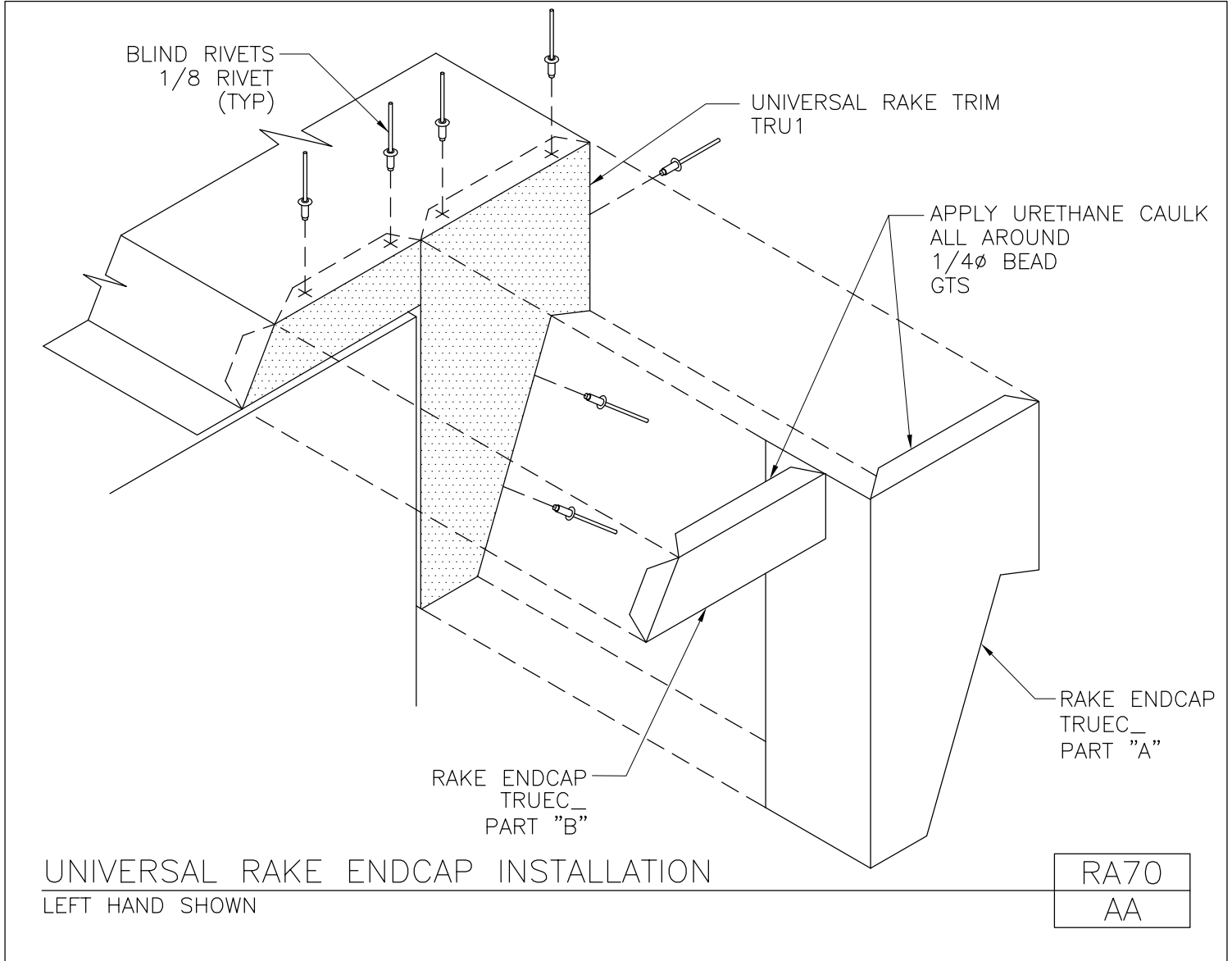
Ridge Flashing Endcap Installation
Standing Seam (SR2) Insulated Roof Panels
RA14/RA



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Universal Rake Endcap Installation
Left Hand Shown
RA70/AA

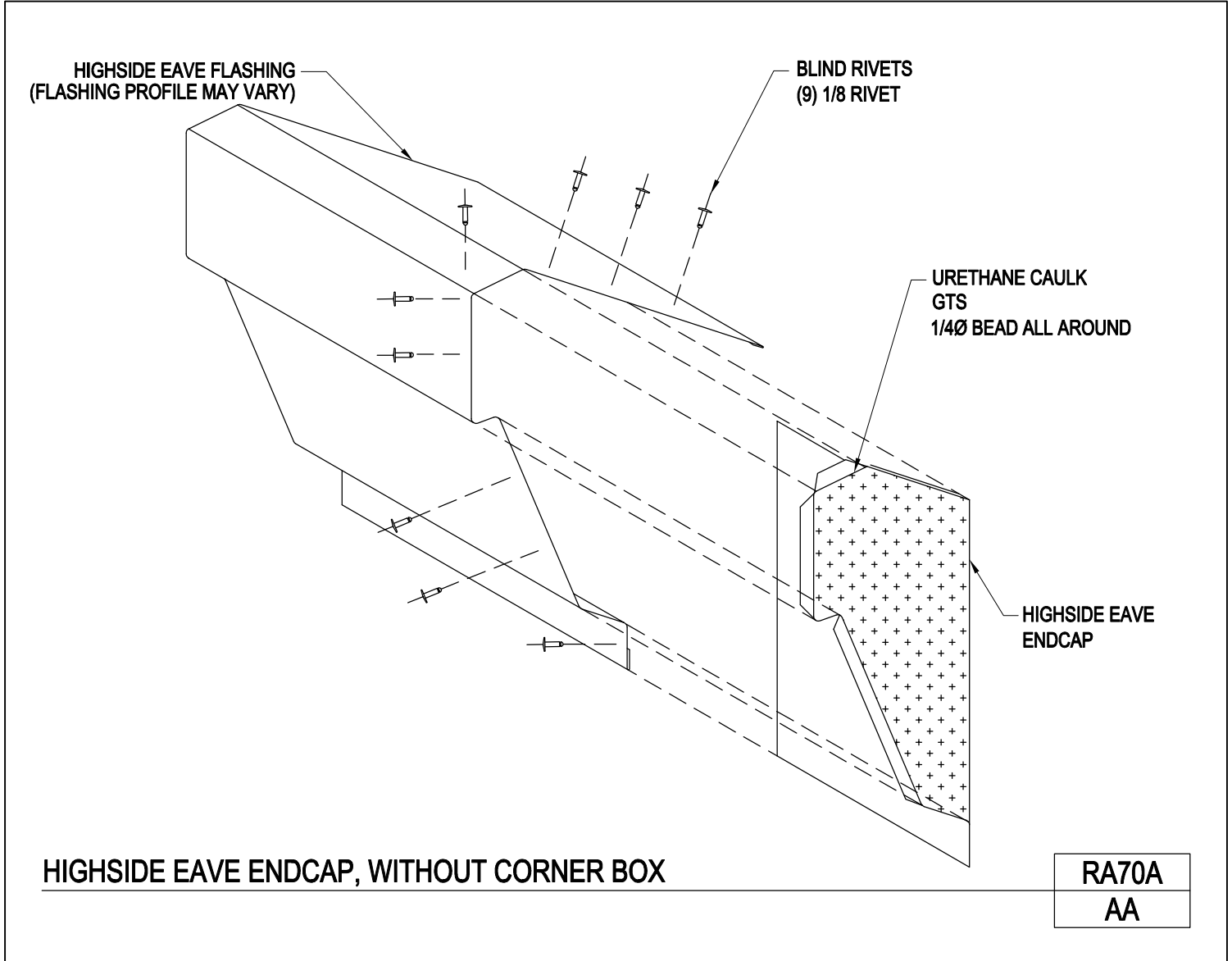


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High Side Eave Endcap, Without Corner Box

RA70A/AA



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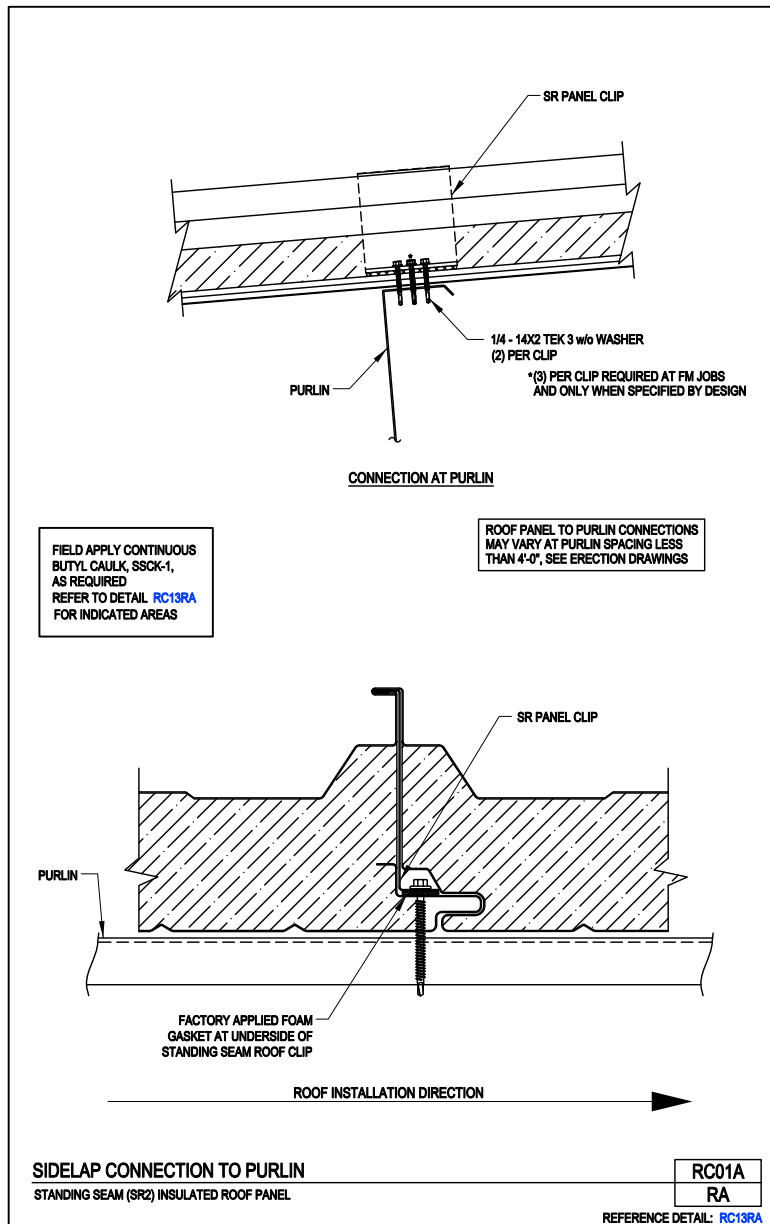
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PRODUCT MANUAL

INSULATED STANDING SEAM ROOF PANEL

Sidelap Connection to Purlin
Standing Seam (SR2) Insulated Roof Panels
RC01A/RA

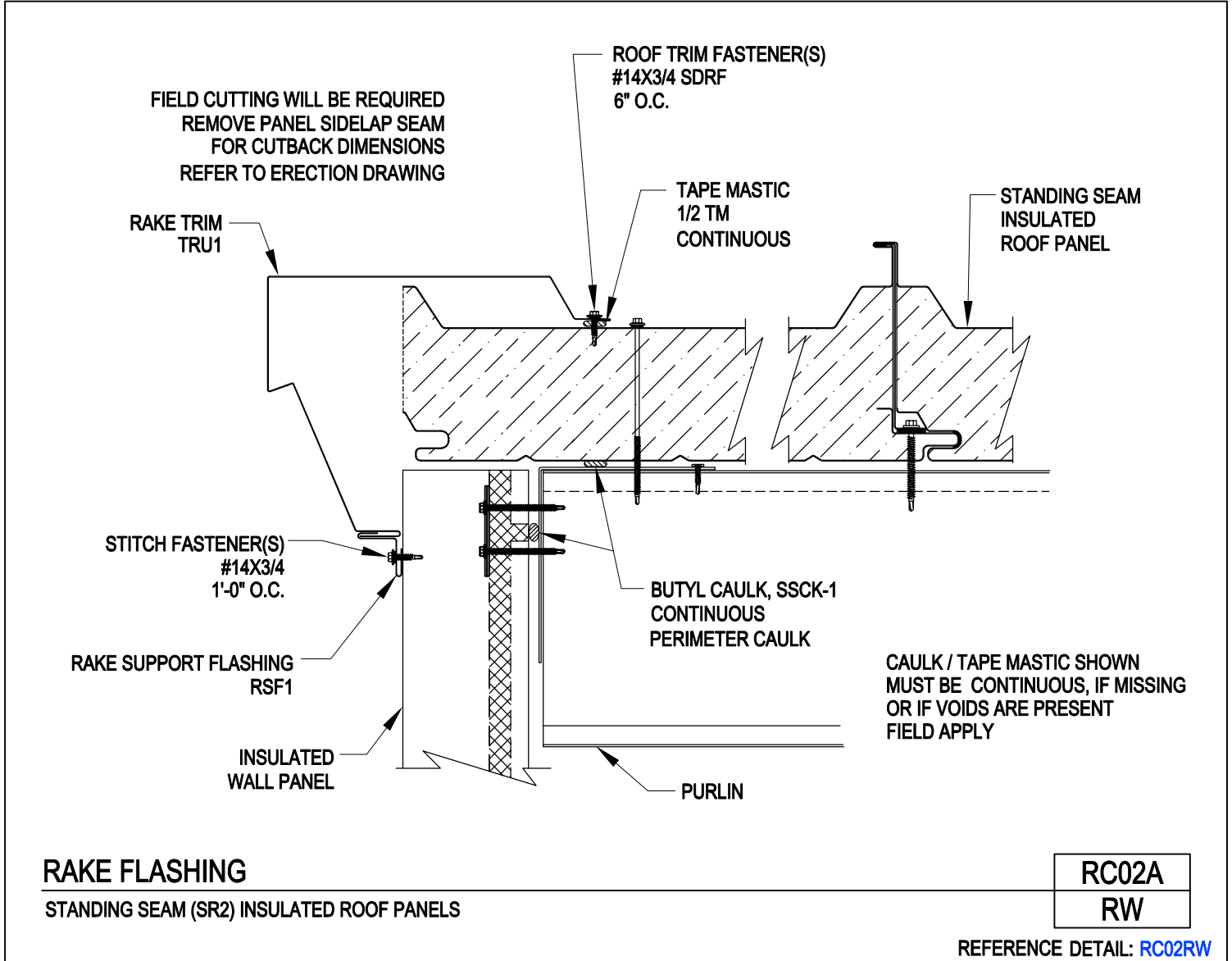


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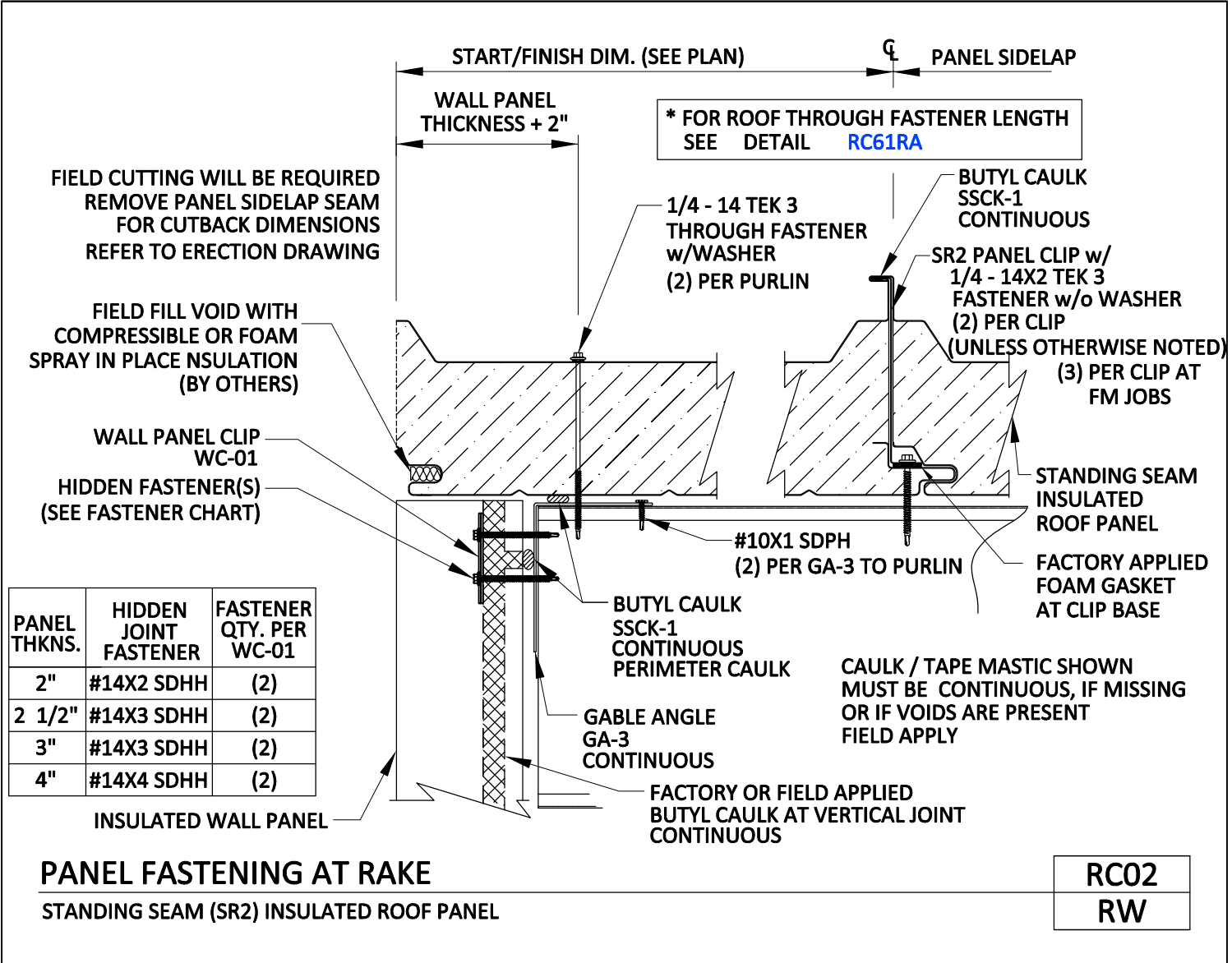
Rake Flashing
Standing Seam (SR2) Insulated Roof Panels
RC02A/RW



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Panel Fastening at Rake
 Standing Seam (SR2) Insulated Roof Panels
 RC02/RW



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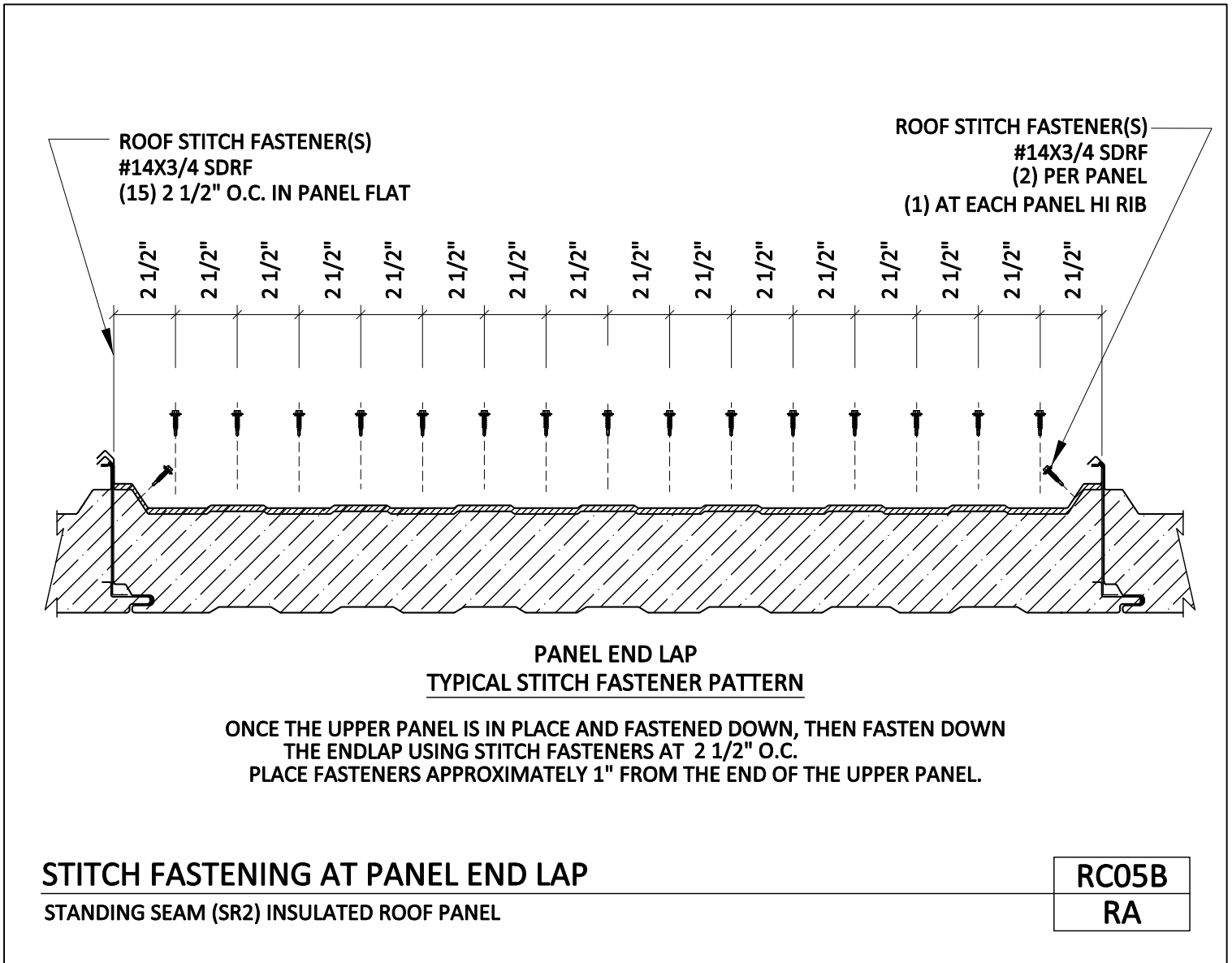
AMERICAN BUILDINGS

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PRODUCT MANUAL

INSULATED STANDING SEAM ROOF PANEL

Stitch Fastening at Panel Endlap
Standing Seam (SR2) Insulated Roof Panel
RC05B/RA



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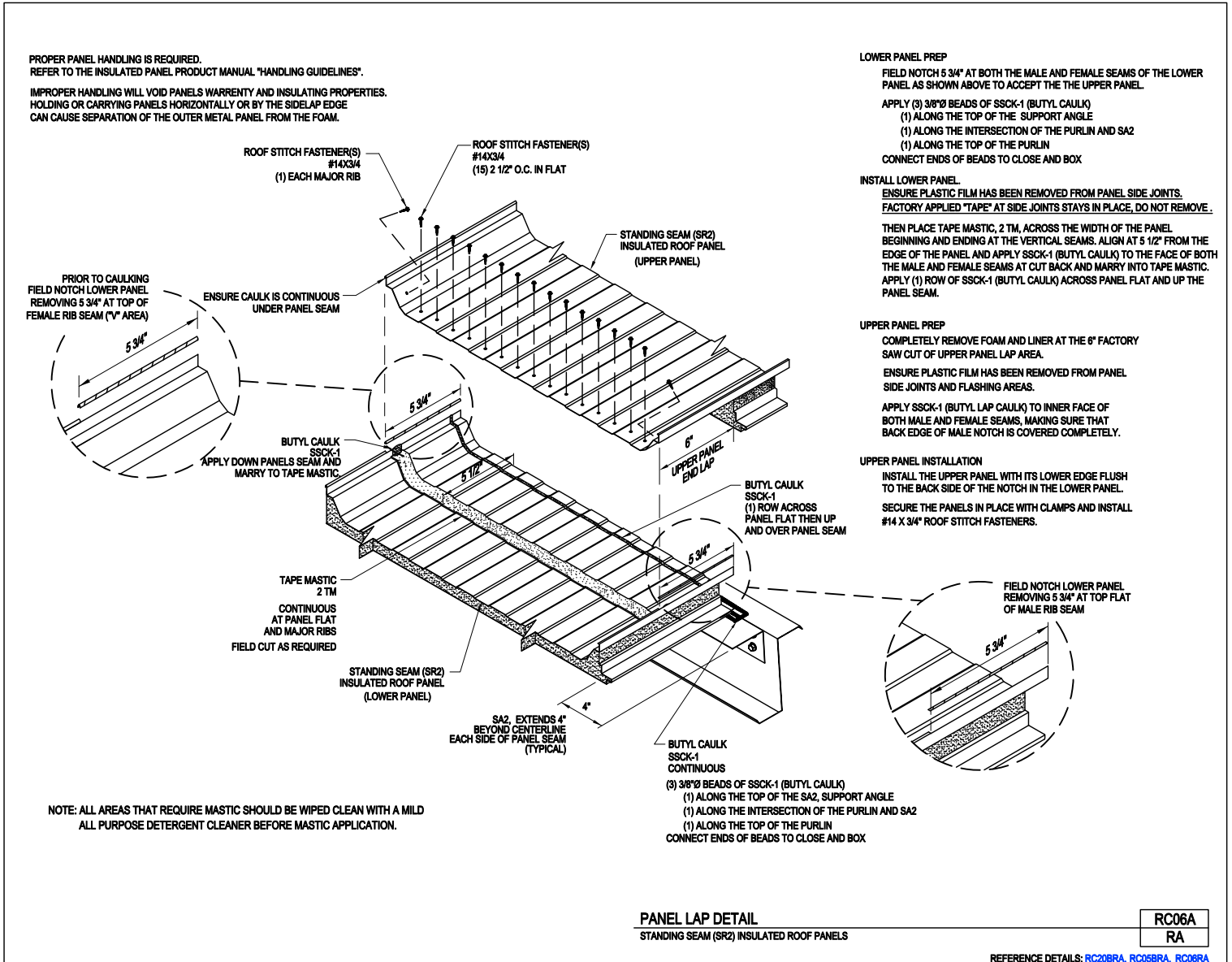
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INSULATED STANDING SEAM ROOF PANEL

Panel Lap Detail Standing Seam (SR2) Insulated Roof Panels RC06A/RA



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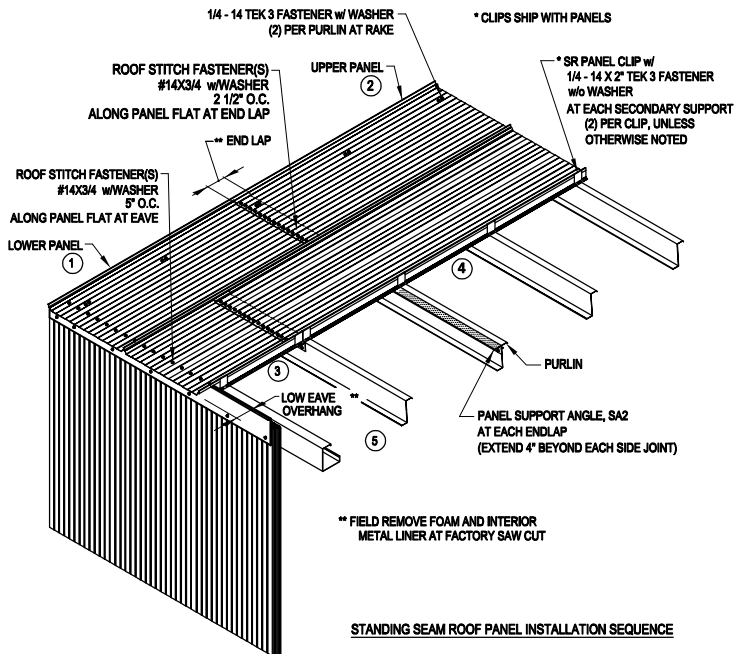
Installation Sequence and Guidelines

Standing Seam (SR2) Insulated Roof Panels

RC11/RW

PANEL INSTALLATION SEQUENCE

STANDING SEAM ROOF PANELS MUST BE INSTALLED IN A SPECIFIC SEQUENCE. THIS ENSURES THE CORRECT LAPPING OF THE SIDE AND END LAPS. THE PANEL NUMBERS IN THE DETAIL BELOW SHOW THE CORRECT ORDER OF INSTALLATION.



STANDING SEAM ROOF PANEL INSTALLATION SEQUENCE

PRE-DRILLING FOR FASTENERS (RECOMMENDED):

AFTER REMOVAL OF THE PROTECTIVE PLASTIC FILM, PRE-DRILL THE HOLES FOR THE MAIN ROOF FASTENERS, 1/4 - TEK 3 FASTENERS. IN ADDITION AT LEAST ONE OF THE HOLES FOR PANEL CLIP ATTACHMENT BE PRE-DRILLED AS AN AID TO THE INSTALLATION PROCESS.

DRILL BIT SIZES ARE LISTED BELOW.

MATERIAL THICKNESS	DRILL
18 GA. - 16 GA.	5/32" PILOT
14 GA.	3/16" PILOT
12 GA. - 11 GA.	# 3 DRILL
3/16" TO 3/8"	# 1 DRILL
3/8" & HEAVIER	.231" PILOT

MAIN FASTENERS AND PANEL CLIPS

A BEAD OF CAULK, SSCK-1, SHOULD BE PLACED ON THE STANDING SEAM STARTER PANEL TO BE OVERLAPPED. AFTER APPLYING THE CAULK ALONG TOP EDGE OF MALE LEG, INSTALL THE SR PANEL CLIPS AS IN CONNECTION DETAILS. CONNECTION DETAILS. APPLY ANOTHER STRIP OF BUTYL CAULK, SSCK-1, ON TOP OF CLIP EXTENDING IT 1" BEYOND CLIP ENDS. TO ENSURE THAT THE JOINERY IS FULLY NESTED AND TIGHTEN DOWN UNTIL ASSEMBLY IS SNUG. PANEL TO BE FASTENED PER THE ROOF PANEL FASTENING SCHEDULE AND CALCULATIONS. (FASTENER REQUIREMENTS ARE BASED ON DESIGN LOADS SPECIFIC TO THE PROJECT.) THE USE OF A 600 RPM ELECTRIC SCREW GUN TO DRIVE FASTENERS IS RECOMMENDED. DO NOT USE IMPACT TOOLS AS THESE DEVICES WILL OVER TIGHTEN AND CAUSE DAMAGE.

PRIOR TO PANEL INSTALLATION

- INSTALL ALL SECONDARY SUPPORT MEMBERS.
- VERIFY ALL STEEL IS ALIGNED PRIOR TO PANEL INSTALLATION
- KEEP PANELS SHADED TO MINIMIZE THERMAL BOW WHICH MAY HINDER PANEL ENGAGEMENT.
- VISUALLY EXAM MALE AND FEMALE EDGES AS EACH PANEL IS REMOVED FROM THE PACK AND CAREFULLY REMOVE ANY SLIGHT INSULATION SPILL OVER.
- REMOVE PROTECTIVE PLASTIC FILM AND PRE-DRILL AS REQUIRED.
- ALWAYS CLEAN PANEL TO REMOVE METAL FILLINGS AFTER DRILLING.
- REMOVE FOAM FOR OVERLAP AS REQUIRED AT LOW EAVE PANEL AND UPPER PANEL END LAP. TAKE EXTRA CARE TO COMPLETELY REMOVE THE FOAM FROM THE UNDERSIDE OF THE PANEL TO ENSURE A POSITIVE AIR AND WATER SEAL IS ACHIEVED BY THE BUTYL CAULK AND TAPE MASTIC APPLICATIONS.

PANEL INSTALLATION GUIDELINES: REFER TO CONNECTION DETAILS FOR COMPLETE REQUIREMENTS.

1 INSTALL (FIRST/STARTER) PANEL

LAY FIRST PANEL IN ACCORDANCE WITH CONNECTION DETAILS, WITH APPROPRIATE OVERHANG AT LOW EAVE AND FLUSH WITH INSIDE OF THE END WALL PANEL. (PRIOR TO INSTALLATION FIELD CUT PANEL AS INDICATED ON THE ERECTION DRAWINGS.)

FIRST TIER PANELS MUST BE LAID TRUE TO LINE TO MAINTAIN PANEL MODULARITY. PROPERLY LINE WITH A STRING TO ENSURE A TRUE AND NEAT RUN. EACH PANEL MUST BE SQUARE BEFORE INSTALLING CLIPS AND FASTENERS.

FASTEN THE FIRST PANEL, PER CONNECTION DETAILS, TO EACH PURLIN ALONG THE RAKE EDGE THEN INSTALL CLIPS AND FASTENERS TO PURLIN / SUPPORT ANGLE LOCATIONS.

2 INSTALL FIRST UPPER PANEL (IF APPLICABLE)

THE UPPER PANEL INSTALLATION CAN BEGIN ONCE THE FIRST LOWER PANEL HAS BEEN INSTALLED AND THE BUTYL CAULK AND TAPE MASTIC HAVE BEEN APPLIED TO THE UPPER END OF THE FIRST PANEL. (SEE APPROPRIATE DETAILS). PLACE THE ADJOINING PANEL INTO POSITION (SEE "PRIOR TO PANEL INSTALLATION" ABOVE)

NOTE: EACH PANEL MUST BE SQUARE BEFORE INSTALLING FASTENERS.

FASTEN THE FIRST UPPER PANEL AS SHOWN ON PANEL DETAIL TO EACH PURLIN AT THE RAKE EDGE AND INSTALL CLIPS AT AT EACH PURLIN LOCATION.

INSTALL THE CLIPS AT EACH PURLIN LOCATION, THEN INSTALL STITCH FASTENERS AT PANEL END LAP. AFTER APPLYING THE REQUIRED CAULK / MASTIC AT THE MALE LEG OF THE FIRST ROW OF PANELS, INSTALL THE ADJOINING PANEL AS SOON AS POSSIBLE.

3 INSTALL ADJOINING LOW EAVE PANEL

PLACE THE ADJOINING PANEL (SEE "PRIOR TO PANEL INSTALLATION" ABOVE) INTO POSITION BY PUSHING IT INTO THE LINER SIDE TONGUE AND GROOVE. THE OVERLAPPING FEMALE LEG SHOULD NOW BE ALIGNED OVER THE FASTENED PANELS LEADING MALE LEG WITH THE CLIPS SANDWICHED BETWEEN THE FOAM AND METAL EDGES.

4 INSTALL ADJOINING UPPER PANEL (IF APPLICABLE)

REPEAT INSTALLATION STEP 3, AS REQUIRED.

5 INSTALL ADJOINING LOW EAVE PANEL

REPEAT INSTALLATION STEP 2 AS REQUIRED.

FOLLOW SR SERIES STANDING SEAM ELECTRIC SEAMER AND HAND SEAMER MANUALS TO SEAM JOINTS TO A 180° BEND. TO PREVENT THE POSSIBILITY OF PANELS BEING WIND DAMAGED OR BLOWN OFF THE ROOF, IT IS HIGHLY RECOMMENDED THAT SEAMING IS COMPLETED AS SOON AS POSSIBLE. THIS WILL ENSURE THAT THE ROOF PANEL IS ADEQUATELY SECURED DURING INSTALLATION.

AFTER ALL PANELS ARE INSTALLED, FASTENED AND SEAMED, FASTEN EAVE, RAKE AND PEAK TRIMS RESPECTIVELY.

INSTALLATION SEQUENCE AND GUIDELINES
STANDING SEAM (SR2) INSULATED ROOF PANELS

RC11
RW

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

Panel Seaming Requirements
Standing Seam (SR2) Insulated Roof Panels
RC12/RA

SR2 ROOF PANEL SEAMING REQUIREMENTS

THE DESIGN OF THIS STRUCTURE REQUIRES THAT THE 90° SEAMING METHOD BE UTILIZED.

90° SEAM

The 90° seam is required on the entire SR2 roof. The best way to accomplish this is with the DI's SR Electric Seamer. Before starting the electric seamer on the roof, the panels must be hand crimped at the seamer starting location.

HAND CRIMP ONLY TO START THE SEAMER

The hand crimper supplied by DI Seamers is only used to crimp the seam into a 90° seam so that the electric seamer can be placed onto the seam.

ERECTOR NOTE: DO NOT HAND CRIMP PANEL CLIPS USING DI SEAMERS HAND CRIMPER.

THIS HAND CRIMPER IS TO BE USED ONLY TO START THE ELECTRIC SEAMING MACHINE.

If during installation of the roof panel you need to hand crimp around the male side of the panel clip before the next panel is installed. A separate hand crimper is required for crimping the panel clip. This crimper is available upon request. "Contact your Customer Service representative to obtain the hand crimper for the SR-__ Clip."

WHEN TO SEAM

The roof panels may be seamed as work progresses or the entire roof can be seamed all at once.

Refer to the SR2 Seaming Instructions included in the Electric Seamer Kit.

The Electric seamer should be run from ridge to eave after hand crimping at the ridge (refer to seamer instructions). Place the electric seamer machine on a panel rib that has been hand crimped and seam the full length of the roof panel with the electric seamer.

CAUTION

Un-seamed roof panels cannot provide their designed wind load and weather resistance.

The roof seam profile is complete only after the entire roof has been mechanically seamed.

PANEL SEAMING REQUIREMENTS

STANDING SEAM (SR2) INSULATED ROOF PANELS

RC12
RA

REF.DETAILS: [RC62RA](#) and [RC36RA](#)

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

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AMERICAN BUILDINGS

A NUCOR COMPANY

PRODUCT MANUAL

INSULATED STANDING SEAM ROOF PANEL

Roof Panel Joint
Standing Seam (SR2) Insulated Roof Panels
RC13/RA

NOTES:

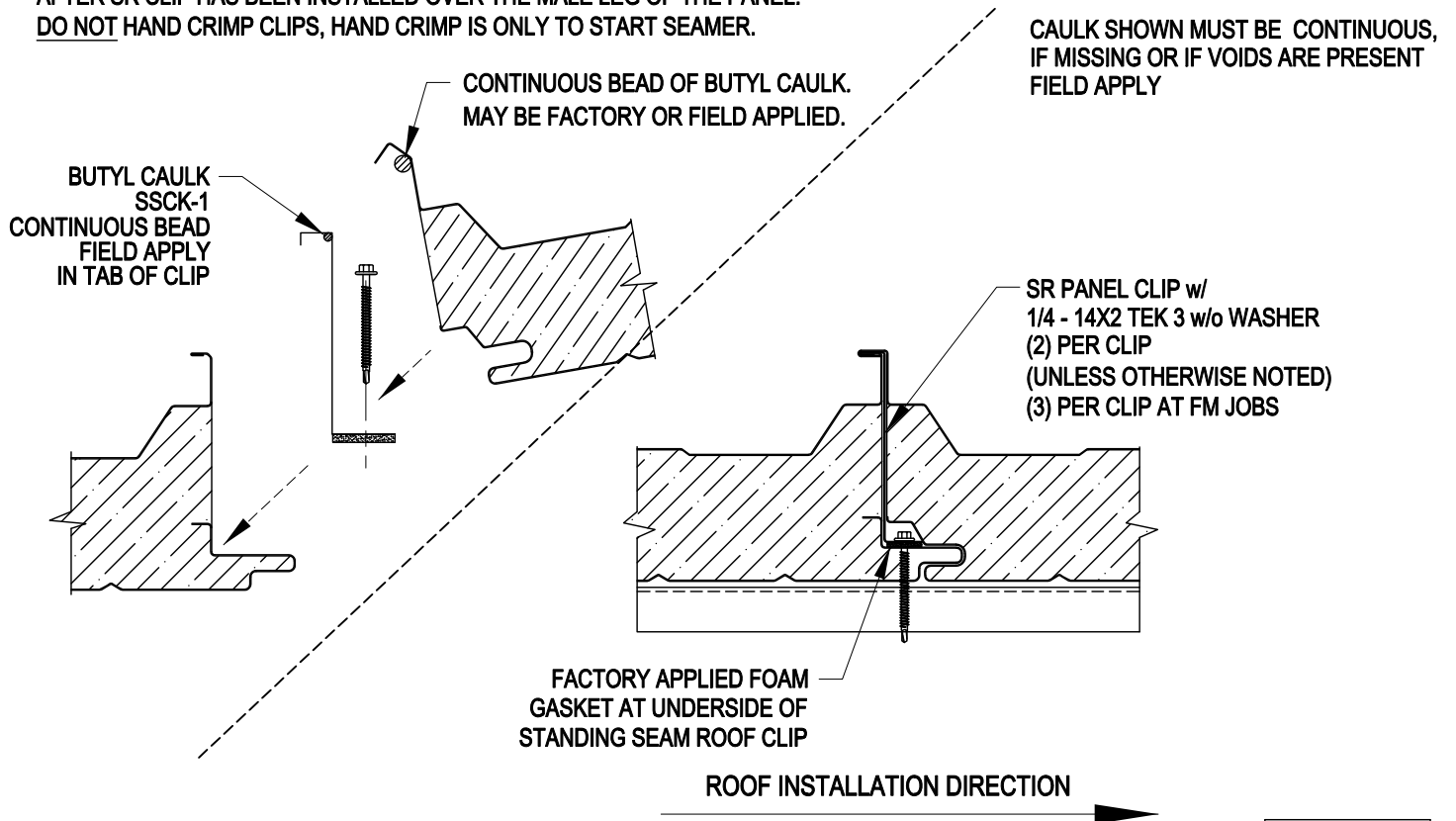
ENSURE PLASTIC FILM HAS BEEN REMOVED FROM PANEL SIDE JOINTS.

DO NOT OVER DRIVE FASTENERS

IF THE METAL AT THE EDGE OF THE PANEL IS DEFORMED OUT OF PLANE, THE ADJACENT PANEL WILL BE DIFFICULT TO ENGAGE AND WILL NOT SEAM

AFTER SR CLIP HAS BEEN INSTALLED OVER THE MALE LEG OF THE PANEL.

DO NOT HAND CRIMP CLIPS, HAND CRIMP IS ONLY TO START SEAMER.



ROOF PANEL JOINT

STANDING SEAM (SR2) INSULATED ROOF PANEL

RC13
RA

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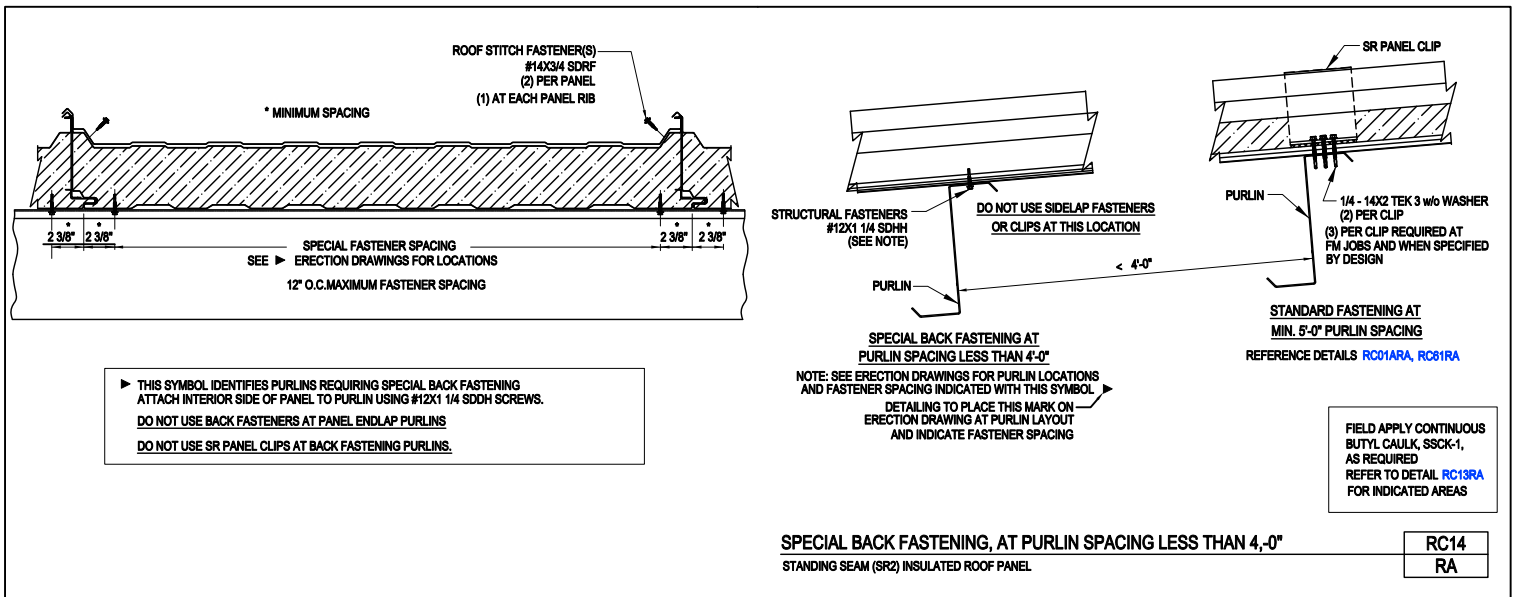
AMERICAN BUILDINGS

A **NUCOR** COMPANY

PRODUCT MANUAL

INSULATED STANDING SEAM ROOF PANEL

Special Back Fastening, at Purlin Spacing Less Than 4'-0" Standing Seam (SR2) Insulated Roof Panels RC14/RA



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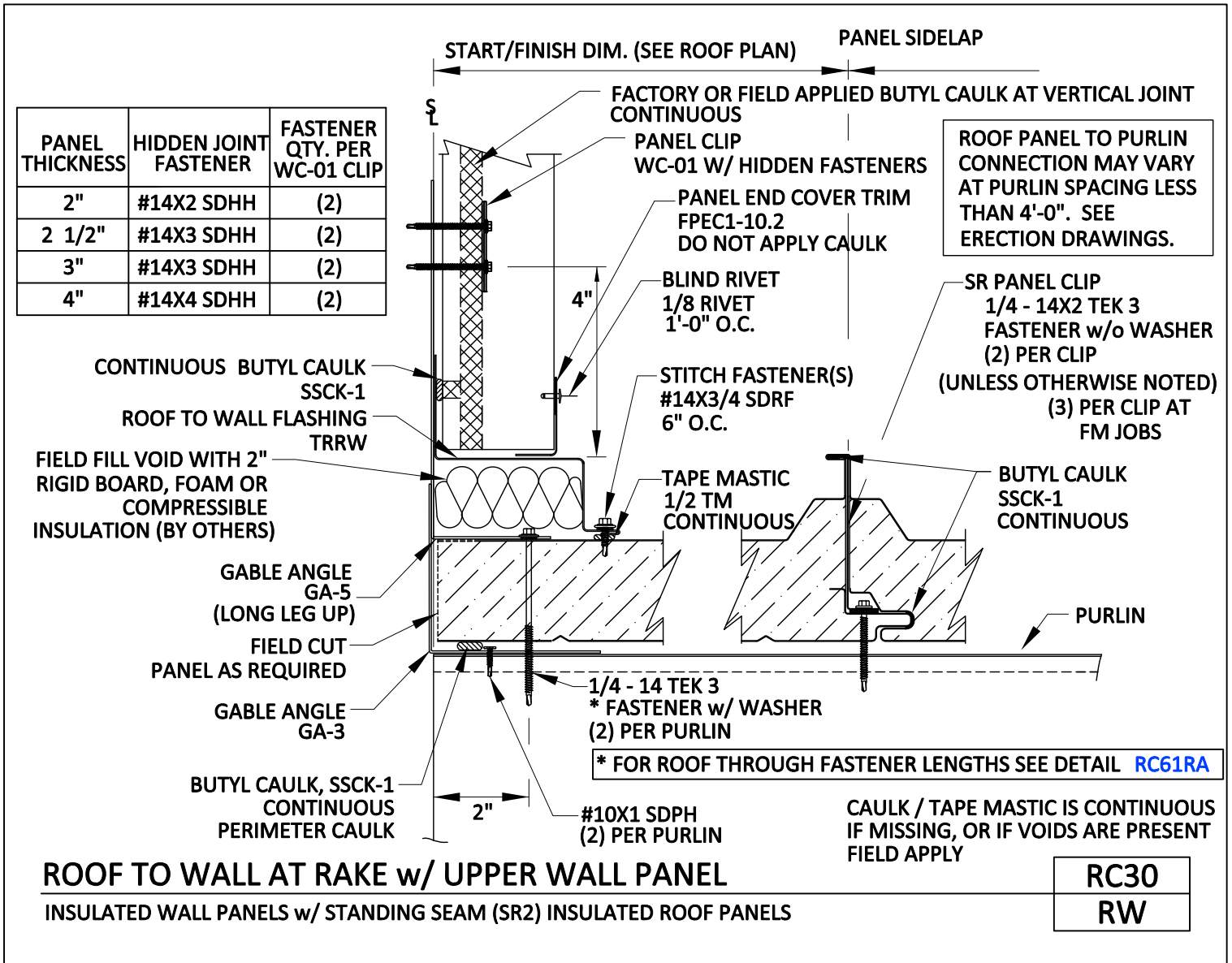
AMERICAN BUILDINGS

A NUCOR COMPANY

PRODUCT MANUAL

INSULATED STANDING SEAM ROOF PANEL

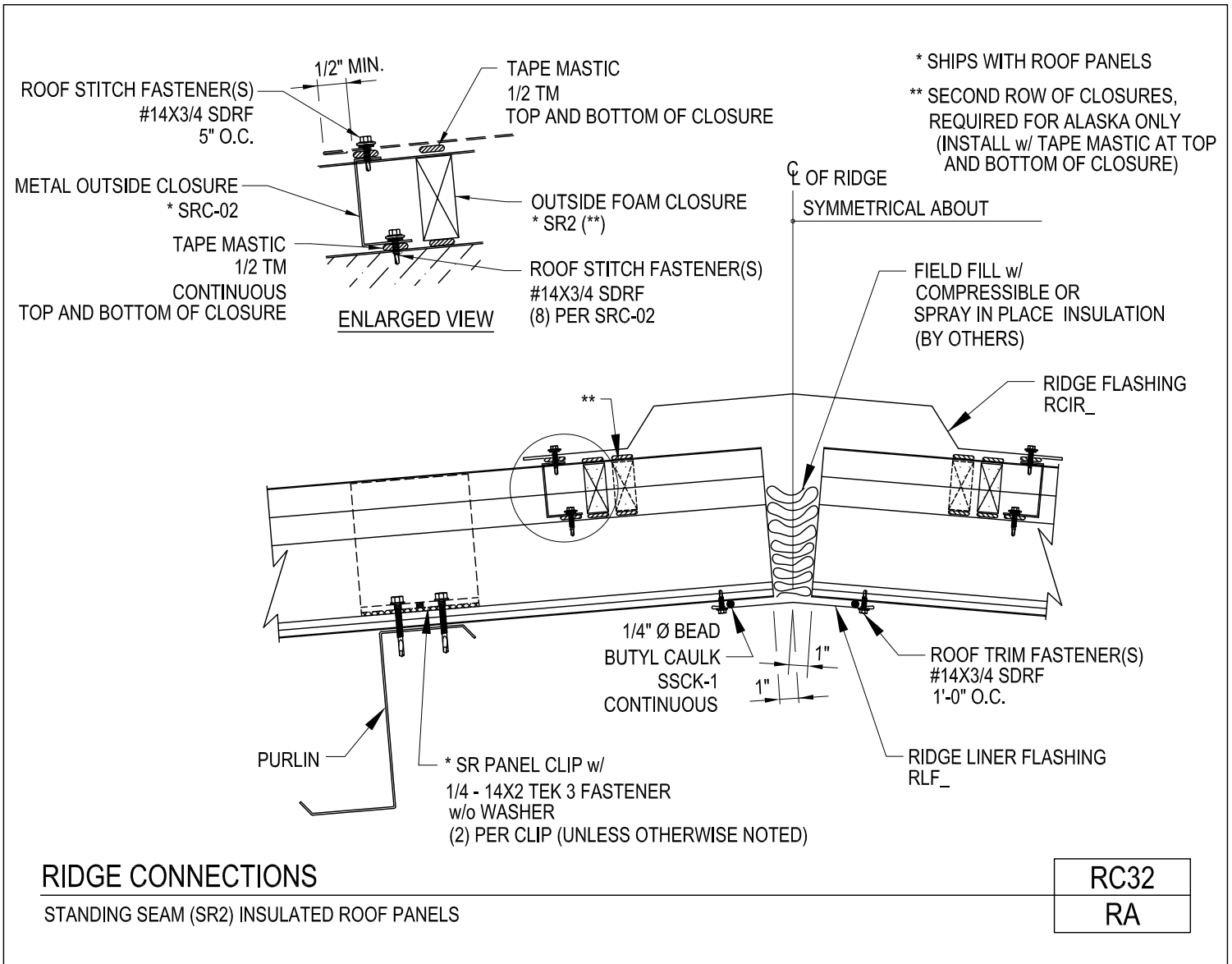
Roof to Wall at Rake w/ Upper Wall Panel
 Insulated Wall Panels w/ Standing Seam (SR2) Insulated Roof Panels
 RC30/RW



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Ridge Connections
SR2, Standing Seam Insulated Roof Panel
RC32/RA

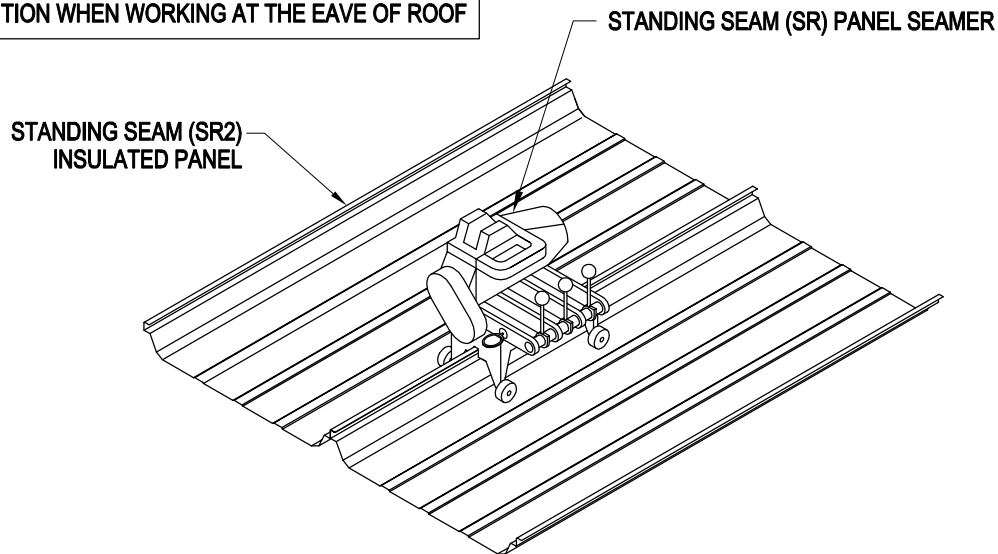


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Electric Seamer Seaming Detail
 Standing Seam (SR2) Insulated Roof Panels
 RC36/RA

**SAFETY PRECAUTION:
 USE EXTREME CAUTION WHEN WORKING AT THE EAVE OF ROOF**



IN PREPARATION OF THE SEAMING OPERATION, ALL CONSTRUCTION DEBRIS SHOULD BE REMOVED FROM THE ROOF TO PREVENT MACHINE DAMAGE AND/OR ROOF DAMAGE.
 MAINTAIN A CONSTANT CHECK FOR PROPER SEAMING OF THE ROOF PANELS.
 HAND CRIMP STARTER SEAM AS SPECIFIED IN ELECTRIC SEAMER OWNER'S MANUAL.

REFER TO THE OWNER'S MANUAL INCLUDED WITH THE ELECTRIC SEAMER FOR SAFE AND PRACTICAL SEAMING INSTRUCTIONS

ELECTRIC SEAMER SEAMING DETAIL

STANDING SEAM (SR2) INSULATED ROOF PANELS

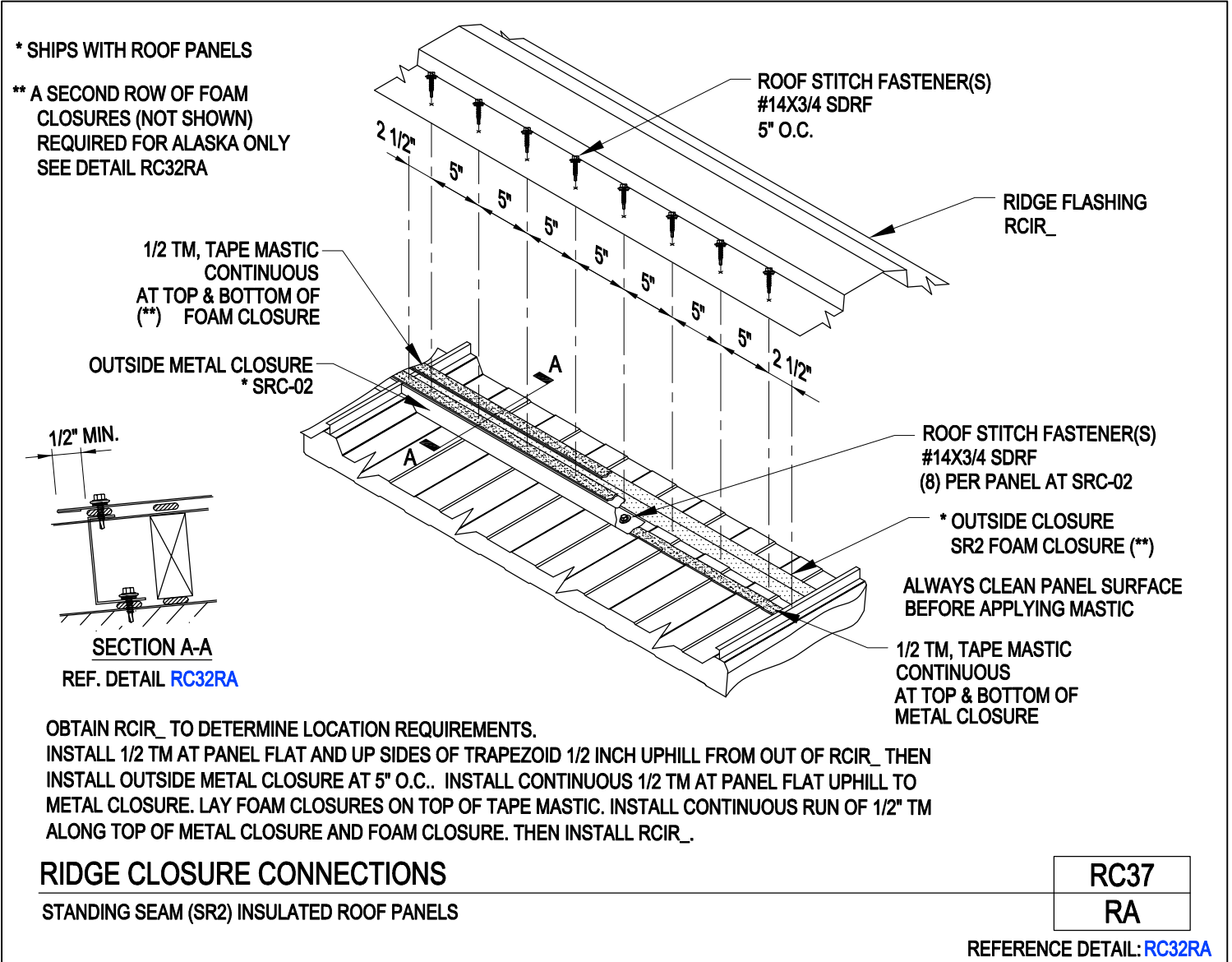
RC36
RA

REFERENCE DETAIL: [RC62RA](#)

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

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Ridge Closure Connections
SR2, Standing Seam Insulated Roof Panel
RC37/RA

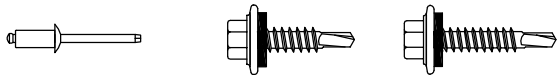


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Basic Fasteners and Fastener Charts
 Standing Seam (SR2) Insulated Roof Panels
 RC61/RA

Face Fastening at Flashing and Trim, (Color Match):

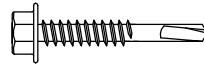


1/8 RIVET
 1/8 Blind Rivet

#14X3/4 SDRF
 Self Drilling, Hex Head w/ Washer
 with Washer
 (Premium Fastener)

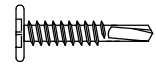
#14X1 SDRF
 Self Drilling, Hex Head
 with Washer

Structural Fastener(s)
 SA2 Angle to Purlin:

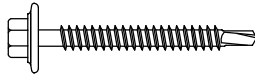


#12X1 1/4 SDHH (TEK3)
 Self Drilling, Carbon Steel Hex Head
 Fastener without Washer
 (#12X1 1/2SDHHTEK5)

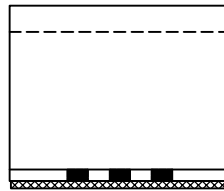
Miscellaneous Fastener:



#10X1 SDPH
 Self Drilling Pan Head Screw



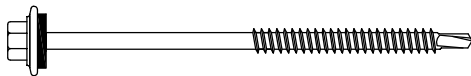
1/4 - 14X2 TEK 3 Fastener w/o Washer
 Self Drilling, Hex Head
 (2) per Panel Clip (Unless Otherwise Noted)



* SR Panel Clip
 SR-__
 * Clip Ships with Panel

Standing Seam (SR2) Panel Clip with
 Factory Applied Foam Gasket

Roof Panel Thickness	Clip Part Mark
3 1/4"	SR-325
4"	SR-04
5"	SR-05
6"	SR-06



1/4 - 14 TEK 3 Fastener w/ Washer
 Self Drilling, Hex Head

Structural Fastening at Panel Flat
 (2) per Purlin at Rake (Unless Otherwise Noted)

Roof Panel Thickness	* 1/4 - 14 TEK 3 Fastener w/ Washer
3 1/4"	* 1/4 - 14X5 TEK 3 w/ Washer
4"	* 1/4 - 14X5 TEK 3 w/ Washer
5"	* 1/4 - 14X6 TEK 3 w/ Washer
6"	* 1/4 - 14X7 TEK 3 w/ Washer

Note: See detail [RC11/RW](#) for pre-drilling requirements.

BASIC FASTENERS AND FASTENER CHARTS
 STANDING SEAM (SR2) INSULATED ROOF PANELS

RC61
RA

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

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Erection Tools
Standing Seam (SR2) Insulated Roof Panels
RC62/RA

THE STANDING SEAM (SR2) INSULATED ROOF SYSTEM HAS SIDE JOINT RIBS WHICH ENGAGE WITH THE ADJACENT PANEL TO FORM A TIGHT PENETRATION FREE CONNECTION. FIELD CAULKING IS REQUIRED.

THE PANEL IS ATTACHED TO THE SUPPORT FRAMING BY SR-__ PANEL CLIPS, INTERLOCKED WITHIN THE PANEL RIB AND THROUGH FASTENED AT THE SIDE JOINT TO THE PURLIN WITH A SELF-DRILLING FASTENER.

FOR PROPER INSTALLATION OF THE PANEL THE FOLLOWING SEAMER AND TOOLS ARE SPECIFICALLY DESIGNED FOR THE STANDING SEAM (SR2) INSULATED ROOF PANELS, THEY ARE INCLUDED IN THE SR ELECTRIC SEAMER PACKAGE

SEAM CLAMP
HAND CRIMPER (REQUIRED AT STARTING END OF PANEL FOR SEAMING, NOT AT PANEL CLIPS)
SR PANEL ELECTRIC SEAMER

INSTRUCTIONS FOR TOOL USE AND SEAMING ARE PROVIDED WITH THE SR ELECTRIC SEAMER OWNER'S MANUAL. THE SR SEAMING PACKAGE IS AVAILABLE FOR PURCHASE OR RENTAL THROUGH:

D.I. ROOF SEAMERS
915 HIGHWAY 45
CORINTH, MS 38834
888.343.0456
WWW.EAGLESEAMERS.COM

NOTE: POWER SUPPLY IS BY OTHERS.

POWER REQUIREMENTS ARE AS FOLLOWS:

THE ROOF SEAMER MOTOR REQUIRES 20 amp, 100-125 volt AC POWER SUPPLY.

POOR PERFORMANCE AND MOTOR DAMAGE CAN RESULT FROM USE OF AN IMPROPER POWER SUPPLY.

REQUIRED:

- MAXIMUM EXTENSION CORD LENGTH: 75 ft. (22.8m)
- MINIMUM OF 10 GA. 10/2 CORD
- MUST HAVE A DEDICATED POWER SUPPLY FOR THE ROOF SEAMER

ERECTION TOOLS

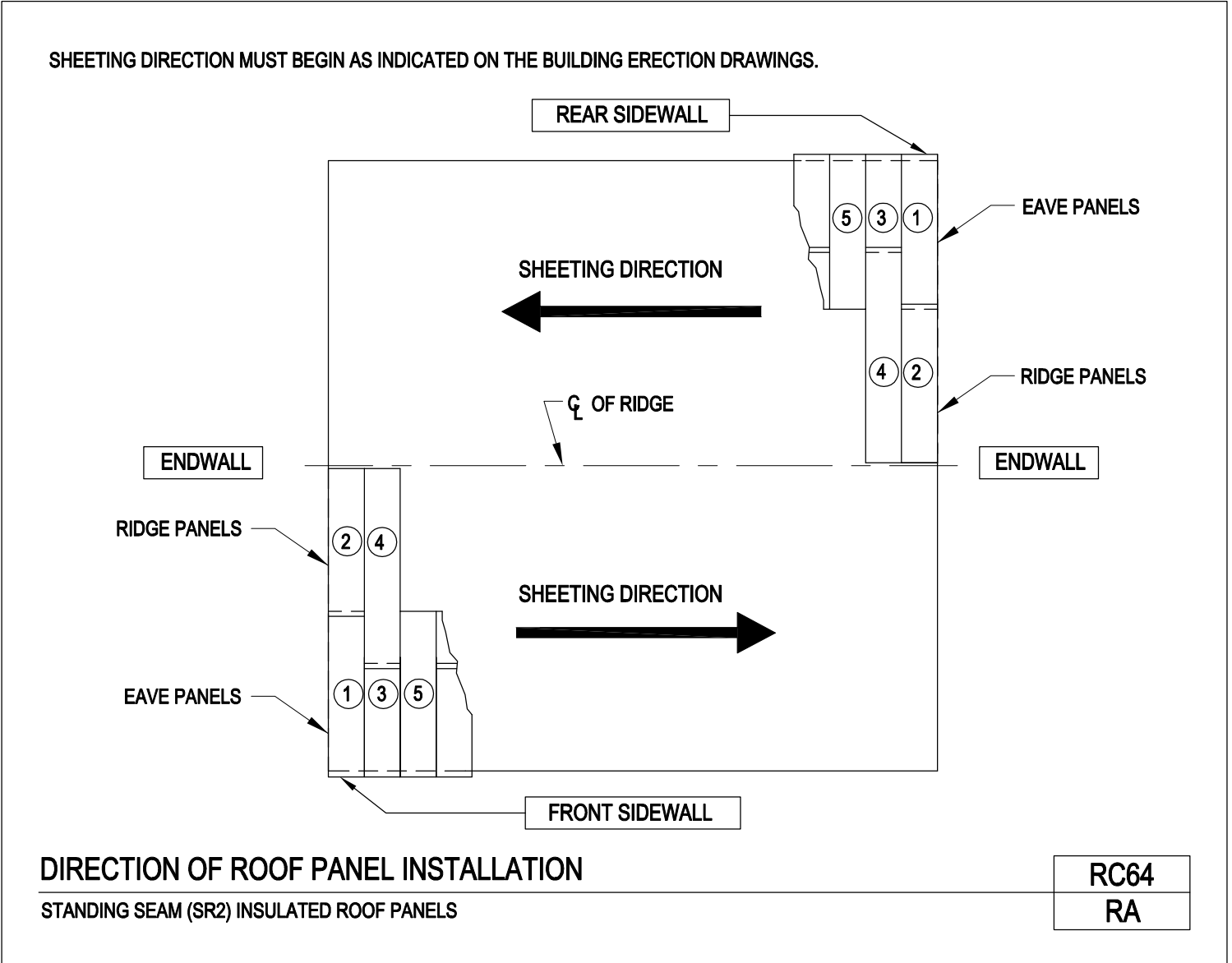
STANDING SEAM (SR2) INSULATED ROOF PANELS

RC62
RA

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

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Direction of Roof Panel Installation
Standing Seam (SR2) Insulated Roof Panels
RC64/RA



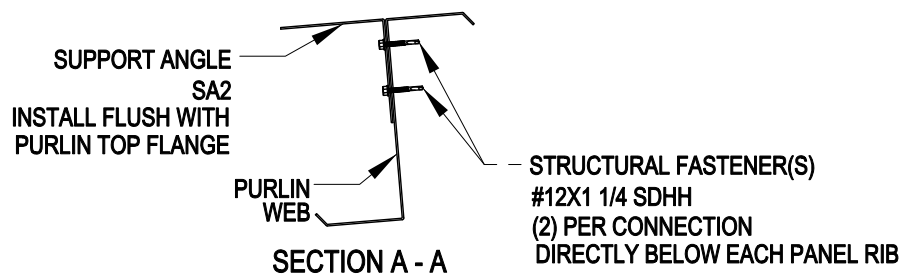
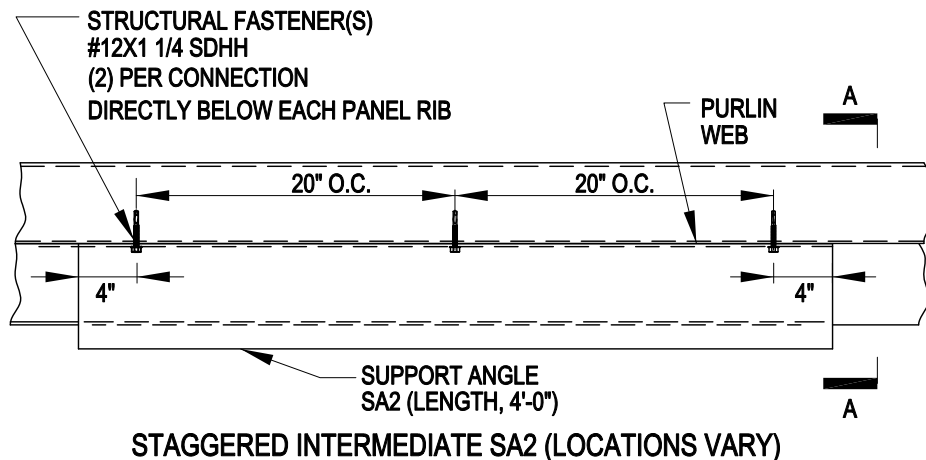
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Top View at Panel Endlap with Staggered Support Angle, SA2
Standing Seam (SR2) Insulated Roof Panels
RF20B/RA

NOTE: SA2, SUPPORT ANGLE CONNECTIONS TO PURLIN WEB

- 1) REFER TO ERECTION DRAWING PANEL LAYOUT FOR LOCATION OF PURLINS AT ROOF PANEL ENDLAP.
- 2) OBTAIN THE FIRST TWO ENDLAP PANELS TO DETERMINE WHERE THE ROOF PANEL RIBS WILL FALL WHEN INSTALLED.
- 3) LAY PANELS IN PLACE, MARK LOCATIONS OF ROOF PANEL RIBS ON PURLIN. THEN RETURN PANEL TO STORAGE AREA).
- 4) ATTACH SA2 TO PURLIN AT MARKED LOCATION 20" ON CENTER FROM RIB TO PANEL CENTER TO RIB.



TOP VIEW AT PANEL ENDLAP WITH STAGGERED SUPPORT ANGLE, SA2

STANDING SEAM (SR2) INSULATED ROOF PANEL

RF20B

RA

REFERENCE DETAIL: [RC11/RW](#)

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

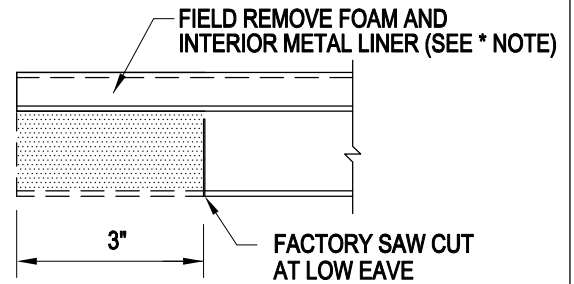
Panel End Prep
Insulated Roof Panels
RP10/QA

FIELD REMOVE INTERIOR METAL LINER AND ALL FOAM AT FACTORY SAW CUTS

PANEL AT LOW EAVE

INTERIOR METAL LINER FACE AND FOAM INSULATION WILL HAVE A FACTORY SAW CUT AT LOW EAVE LOCATION VARIES FROM END OF PANEL.

- 3" AT ALL ROOF SLOPES



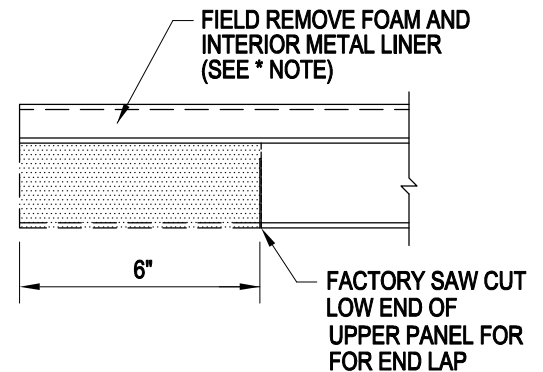
*** NOTE:** CAREFULLY FIELD REMOVE ALL FOAM FROM THE UNDERSIDE OF THE OUTER METAL SKIN TO ENSURE A POSITIVE AIR AND WATER INFILTRATION SEAL.

UPPER PANEL AT END LAP

INTERIOR METAL LINER FACE AND INSULATION FACTORY SAW CUT IS 6" AT THE LOW END OF THE UPPER PANEL FOR END LAP,

STANDARD ENDLAP APPLICATION BY ROOF PANEL PROFILE IS:

- 6" AT SR2 ROOF PANELS WITH SLOPES EQUAL TO OR GREATER THAN 1/2:12
- 6" AT HR3 ROOF PANELS WITH ROOF SLOPES EQUAL TO OR GREATER THAN 1:12



PANEL END PREP

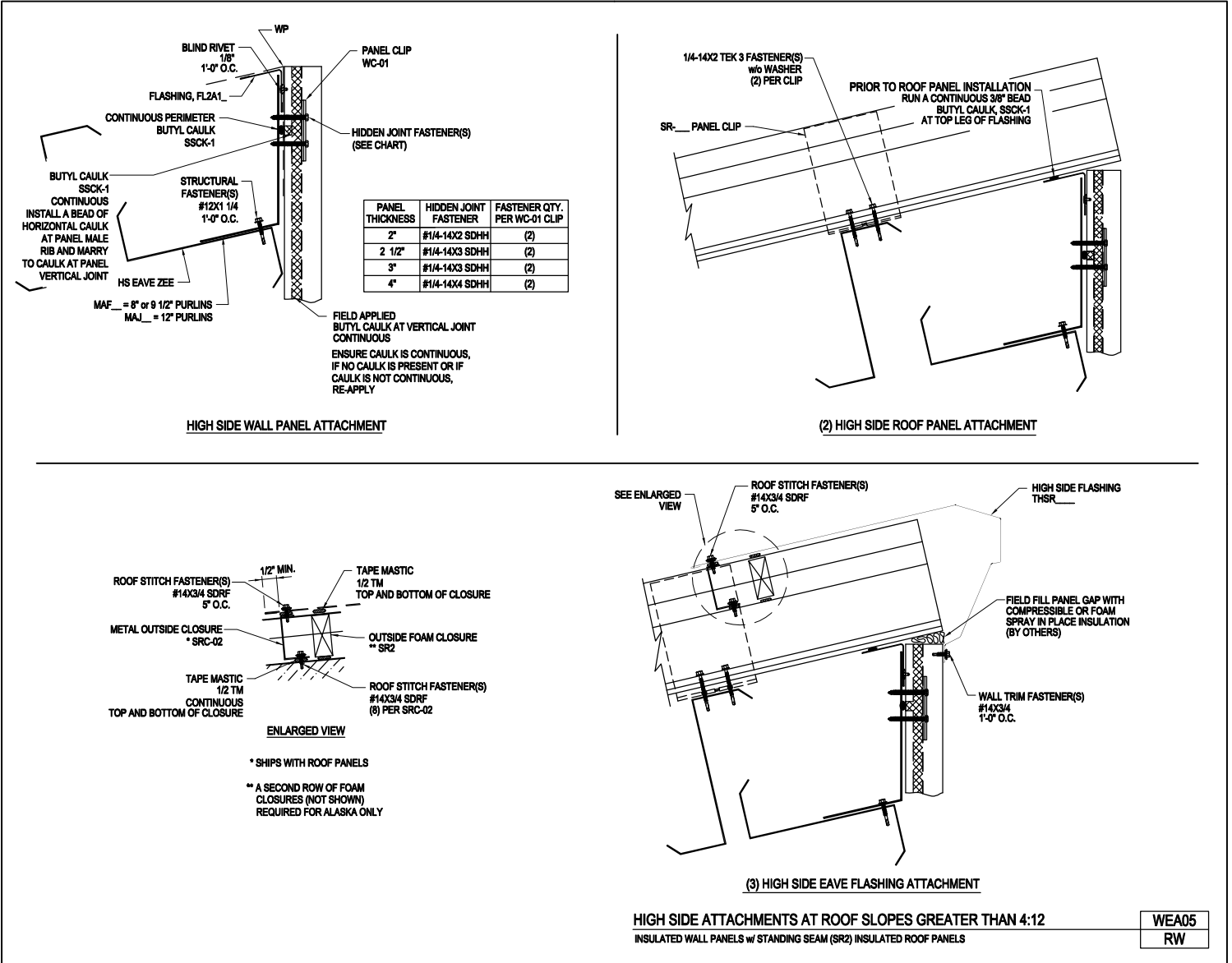
INSULATED ROOF PANELS

RP10
QA

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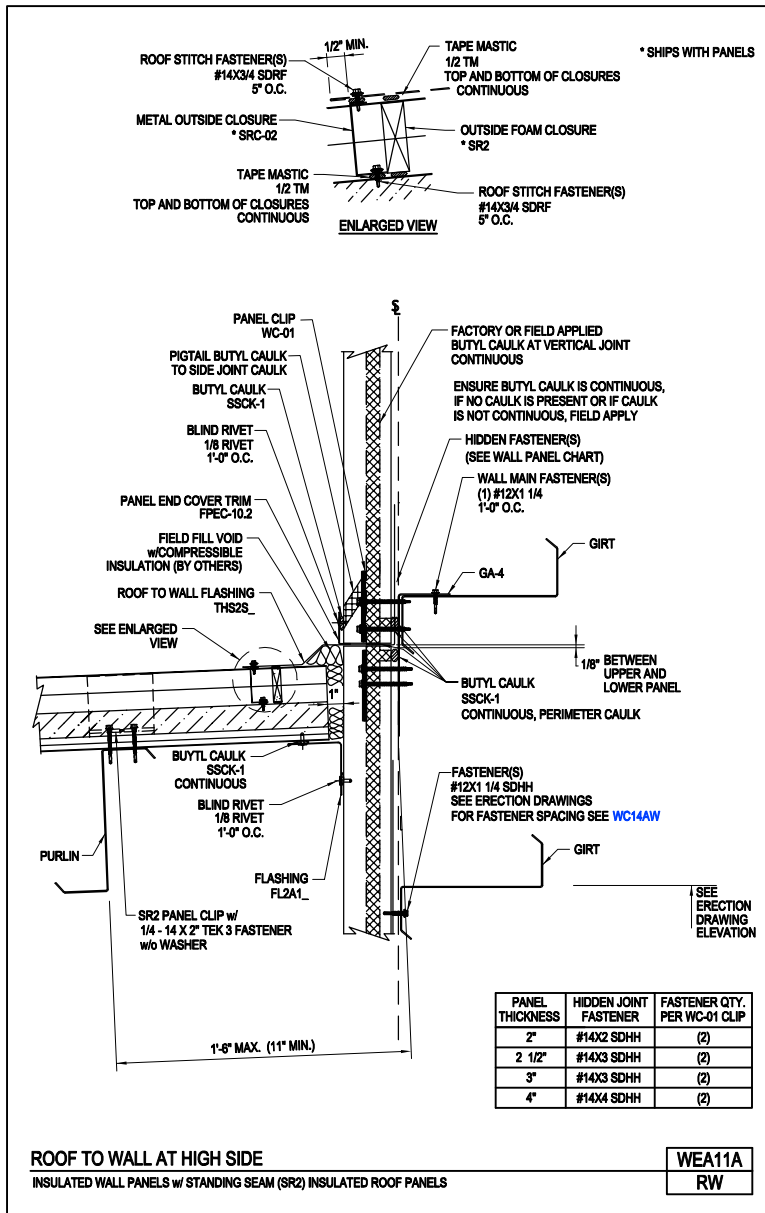
High Side Attachments
 Insulated Wall Panels w/ Standing Seam (SR2) Insulated Roof Panels
 WEA05/RW



WEA05
RW

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

Roof to Wall at High Side
 Insulated Wall Panels w/ Standing Seam (SR2) Insulated Roof Panels
 WEA11A/RW



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