NUCOR®
BUILDINGS GROUP

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FA2010 - BRIDGE STARTER INSTALLATION

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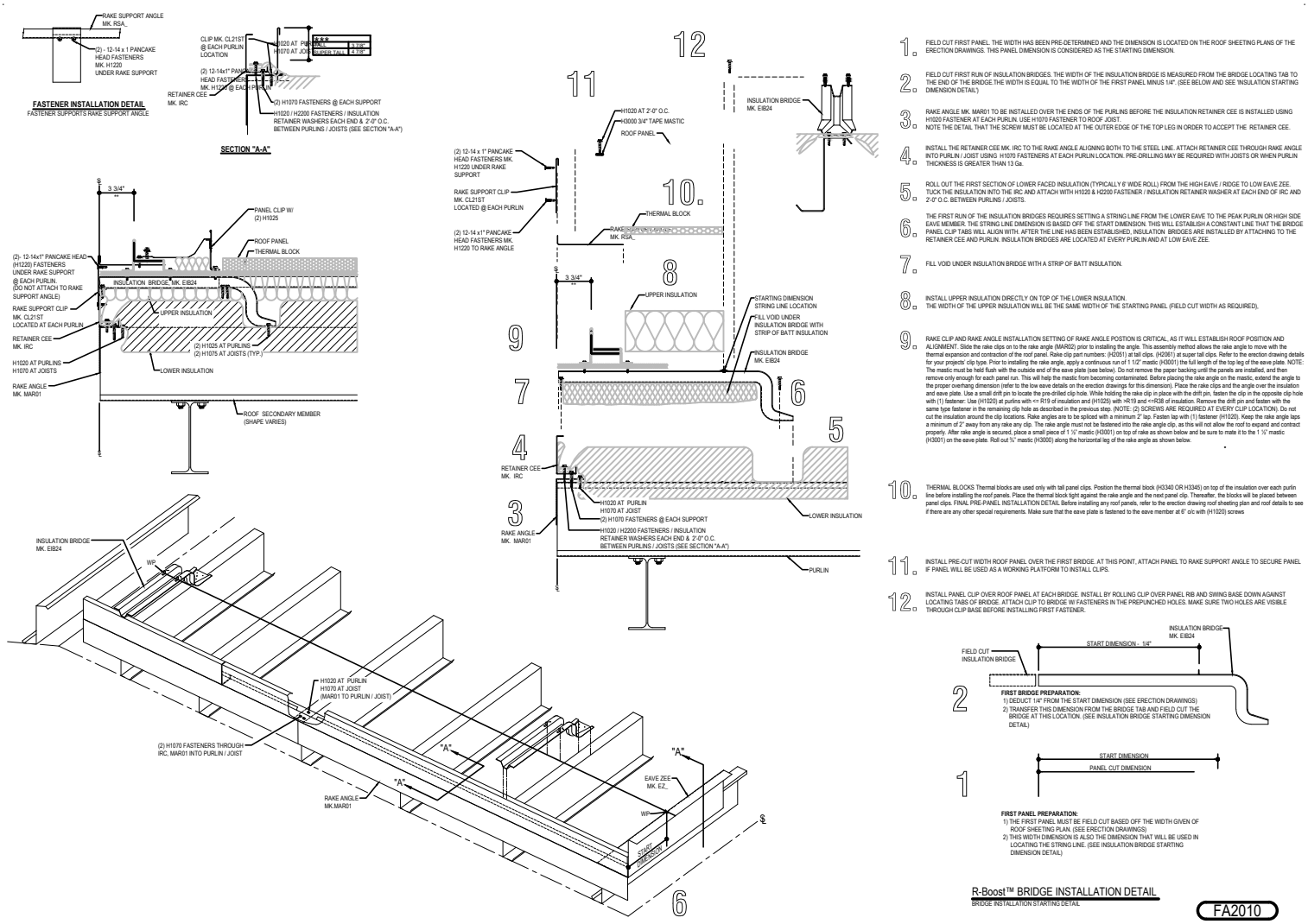

1. FIELD CUT FIRST PANEL. THE WIDTH HAS BEEN PRE-DETERMINED AND THE DIMENSION IS LOCATED ON THE ROOF SHEETING PLANS OF THE ERECTION DRAWINGS. THIS PANEL DIMENSION IS CONSIDERED AS THE STARTING DIMENSION.

2. FIELD CUT FIRST RUN OF INSULATION BRIDGES. THE WIDTH OF THE INSULATION BRIDGE IS MEASURED FROM THE BRIDGE LOCATING TAB TO THE END OF THE BRIDGE.THE WIDTH IS EQUAL TO THE WIDTH OF THE FIRST PANEL MINUS 1/4". (SEE BELOW AND SEE 'INSULATION STARTING DIMENSION DETAIL')

3. RAKE ANGLE MK. MAR01 TO BE INSTALLED OVER THE ENDS OF THE PURLINS BEFORE THE INSULATION RETAINER CEE IS INSTALLED USING H1020 FASTENER AT EACH PURLIN. USE H1070 FASTENER TO ROOF JOIST.
NOTE THE DETAIL THAT THE SCREW MUST BE LOCATED AT THE OUTER EDGE OF THE TOP LEG IN ORDER TO ACCEPT THE RETAINER CEE.

4. INSTALL THE RETAINER CEE MK. IRC TO THE RAKE ANGLE ALIGNING BOTH TO THE STEEL LINE. ATTACH RETAINER CEE THROUGH RAKE ANGLE INTO PURLIN / JOIST USING H1070 FASTENERS AT EACH PURLIN LOCATION. PRE-DRILLING MAY BE REQUIRED WITH JOISTS OR WHEN PURLIN THICKNESS IS GREATER THAN 13 Ga.

5. ROLL OUT THE FIRST SECTION OF LOWER FACED INSULATION (TYPICALLY 6' WIDE ROLL) FROM THE HIGH EAVE / RIDGE TO LOW EAVE ZEE. TUCK THE INSULATION INTO THE IRC AND ATTACH WITH H1020 & H2200 FASTENER / INSULATION RETAINER WASHER AT EACH END OF IRC AND 2'-0" O.C. BETWEEN PURLINS / JOISTS.

6. THE FIRST RUN OF THE INSULATION BRIDGES REQUIRES SETTING A STRING LINE FROM THE LOWER EAVE TO THE PEAK PURLIN OR HIGH SIDE EAVE MEMBER. THE STRING LINE DIMENSION IS BASED OFF THE START DIMENSION. THIS WILL ESTABLISH A CONSTANT LINE THAT THE BRIDGE PANEL CLIP TABS WILL ALIGN WITH. AFTER THE LINE HAS BEEN ESTABLISHED, INSULATION BRIDGES ARE INSTALLED BY ATTACHING TO THE RETAINER CEE AND PURLIN. INSULATION BRIDGES ARE LOCATED AT EVERY PURLIN AND AT LOW EAVE ZEE.

7. FILL VOID UNDER INSULATION BRIDGE WITH A STRIP OF BATT INSULATION.

8. INSTALL UPPER INSULATION DIRECTLY ON TOP OF THE LOWER INSULATION.
THE WIDTH OF THE UPPER INSULATION WILL BE THE SAME WIDTH OF THE STARTING PANEL (FIELD CUT WIDTH AS REQUIRED).

9. RAKE CLIP AND RAKE ANGLE INSTALLATION SETTING OF RAKE ANGLE POSTION IS CRITICAL, AS IT WILL ESTABLISH ROOF POSITION AND ALIGNMENT. Slide the rake clips on to the rake angle (MAR02) prior to installing the angle. This assembly method allows the rake angle to move with the thermal expansion and contraction of the roof panel. Rake clip part numbers: (H2051) at tall clips. (H2061) at super tall clips. Refer to the erection drawing details for your projects' clip type. Prior to installing the rake angle, apply a continuous run of 1 1/2" mastic (H3001) the full length of the top leg of the eave plate. NOTE: The mastic must be held flush with the outside end of the eave plate (see below). Do not remove the paper backing until the panels are installed, and then remove only enough for each panel run. This will help the mastic from becoming contaminated. Before placing the rake angle on the mastic, extend the angle to the proper overhang dimension (refer to the low eave details on the erection drawings for this dimension). Place the rake clips and the angle over the insulation and eave plate. Use a small drift pin to locate the pre-drilled clip hole. While holding the rake clip in place with the drift pin, fasten the clip in the opposite clip hole with (1) fastener. Use (H1020) at purlins with <= R19 of insulation and (H1025) with >R19 and <=R38 of insulation. Remove the drift pin and fasten with the same type fastener in the remaining clip hole as described in the previous step. (NOTE: (2) SCREWS ARE REQUIRED AT EVERY CLIP LOCATION). Do not cut the insulation around the clip locations. Rake angles are to be spliced with a minimum 2' lap. Fasten lap with (1) fastener (H1020). Keep the rake angle laps a minimum of 2" away from any rake any clip. The rake angle must not be fastened into the rake angle clip, as this will not allow the roof to expand and contract properly. After rake angle is secured, place a small piece of 1 ½" mastic (H3001) on top of rake as shown below and be sure to mate it to the 1 ½" mastic (H3001) on the eave plate. Roll out ½" mastic (H3000) along the horizontal leg of the rake angle as shown below.

10. THERMAL BLOCKS Thermal blocks are used only with tall panel clips. Position the thermal block (H3340 OR H3345) on top of the insulation over each purlin line before installing the roof panels. Place the thermal block tight against the rake angle and the next panel clip. Thereafter, the blocks will be placed between panel clips. FINAL PRE-PANEL INSTALLATION DETAIL Before installing any roof panels, refer to the erection drawing roof sheeting plan and roof details to see if there are any other special requirements. Make sure that the eave plate is fastened to the eave member at 6" o/c with (H1020) screws

11. INSTALL PRE-CUT WIDTH ROOF PANEL OVER THE FIRST BRIDGE. AT THIS POINT, ATTACH PANEL TO RAKE SUPPORT ANGLE TO SECURE PANEL IF PANEL WILL BE USED AS A WORKING PLATFORM TO INSTALL CLIPS.

12. INSTALL PANEL CLIP OVER ROOF PANEL AT EACH BRIDGE. INSTALL BY ROLLING CLIP OVER PANEL RIB AND SWING BASE DOWN AGAINST LOCATING TABS OF BRIDGE. ATTACH CLIP TO BRIDGE W/ FASTENERS IN THE PREPUNCHED HOLES. MAKE SURE TWO HOLES ARE VISIBLE THROUGH CLIP BASE BEFORE INSTALLING FIRST FASTENER.

R-Boost™ BRIDGE INSTALLATION DETAIL
BRIDGE INSTALLATION STARTING DETAIL

FA2010

Detailer Notes:

1) REQUIRED ON ALL R-Boost™ PROJECTS.

FA2012 - INTERMEDIATE BRIDGE INSTALLATION DETAIL

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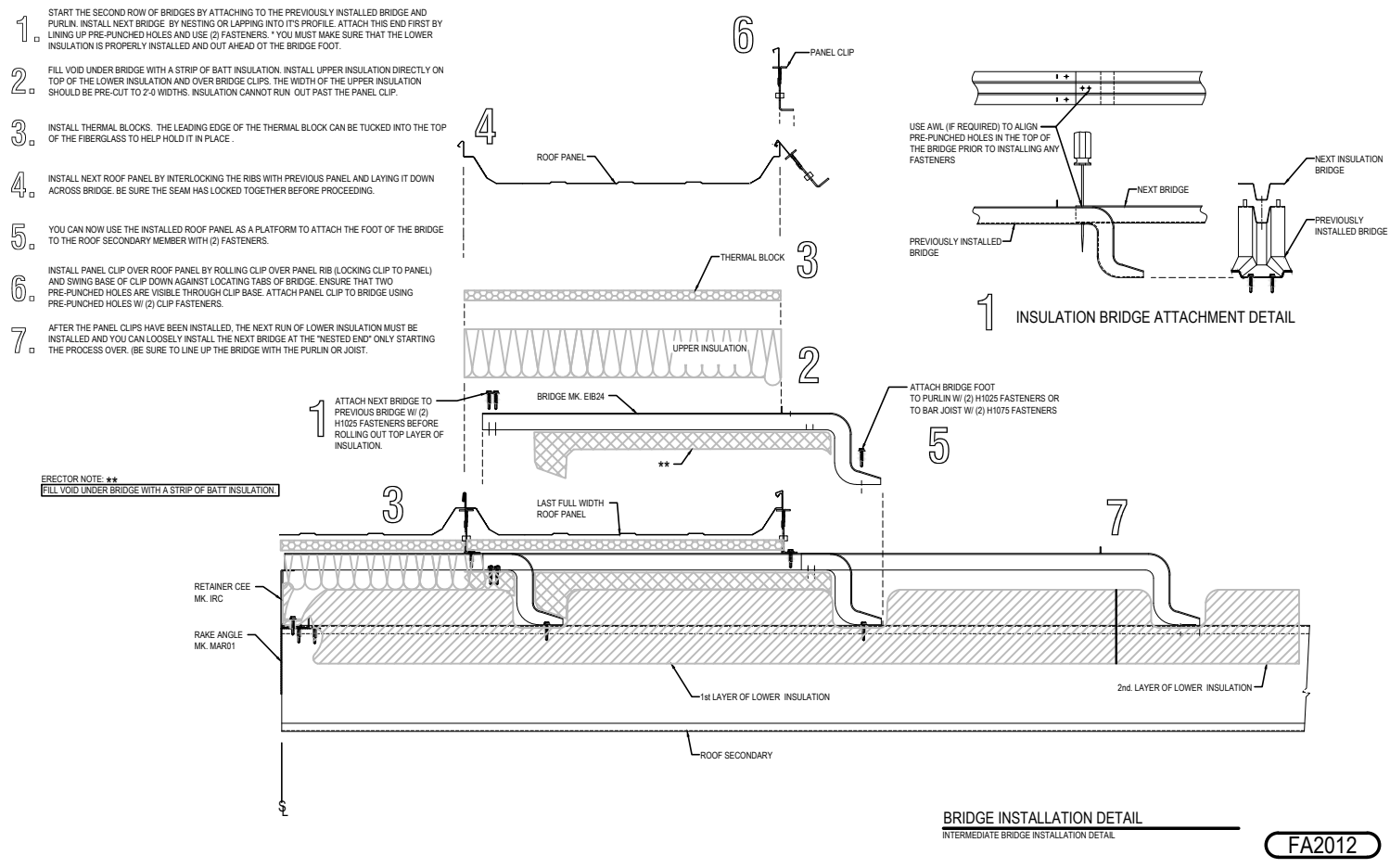

Detailer Notes:

1) REQUIRED ON ALL R-Boost™ PROJECTS

FA2013 - ENDING BRIDGE INSTALLATION DETAIL

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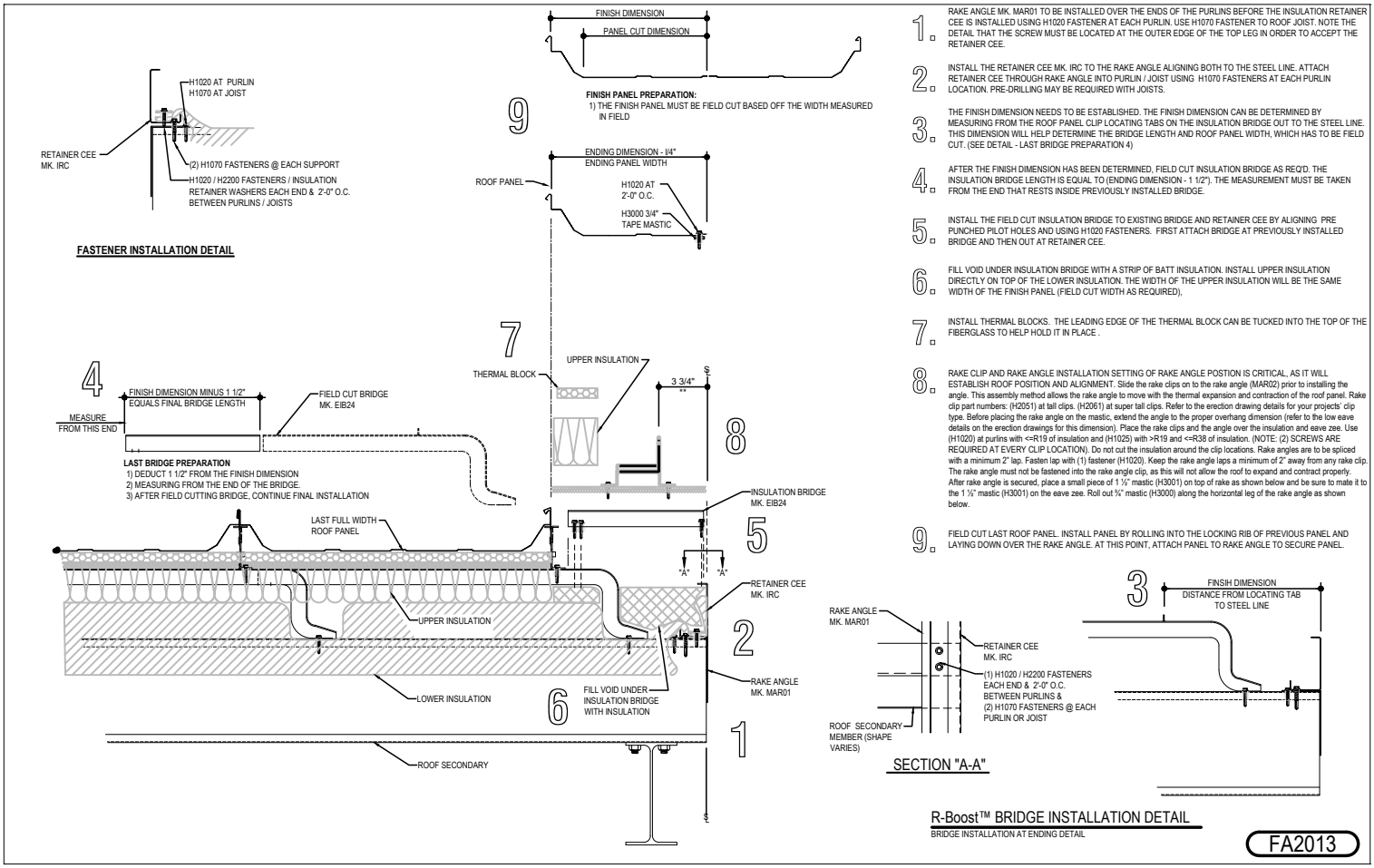

Detailer Notes:

1) REQUIRED ON ALL R-Boost™ PROJECTS

FA2035 - SS360 START / FINISH PANEL WIDTH DETAIL

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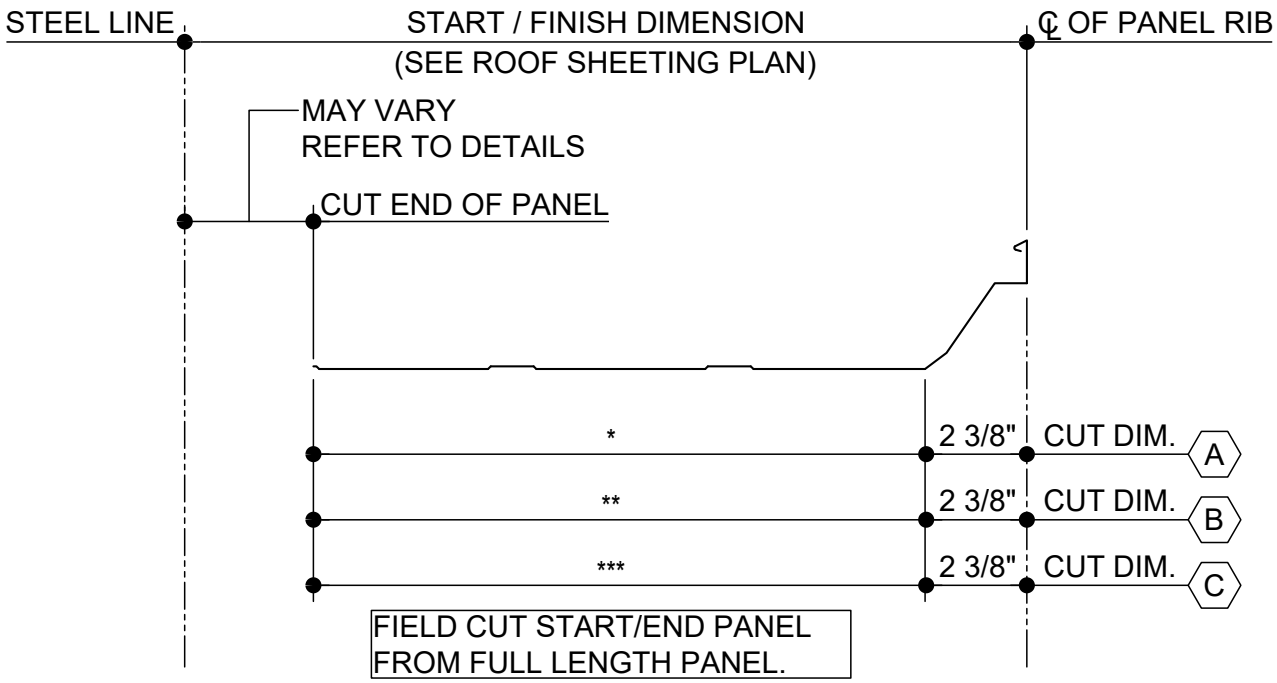

START / END CUT PANEL DIMENSION DETAIL

- WHEN FIELD CUTTING OR MITERING ROOF PANELS, NON-ABRASIVE CUTTING TOOLS SUCH AS NIBBLERS OR TIN-SNIPS SHALL BE USED.
- ABRASIVE CUTTING TOOLS SUCH AS MECHANICAL GRINDERS, SAWS, SHEARS OR SCISSORS CAN DAMAGE THE PANEL FINISH AND CREATE EXCESS METAL SHAVINGS THAT CAN CORRODE THE PANELS.
- THE USE OF NON-APPROVED CUTTING DEVICES MAY VOID YOUR FACTORY WARRANTY.

FA2035

Detailer Notes:

1) THIS DETAIL IS REQUIRED ON EVERY R-Boost™ PROJECT.

FA2076 - TRIM LAP COMPRESSION FASTENER

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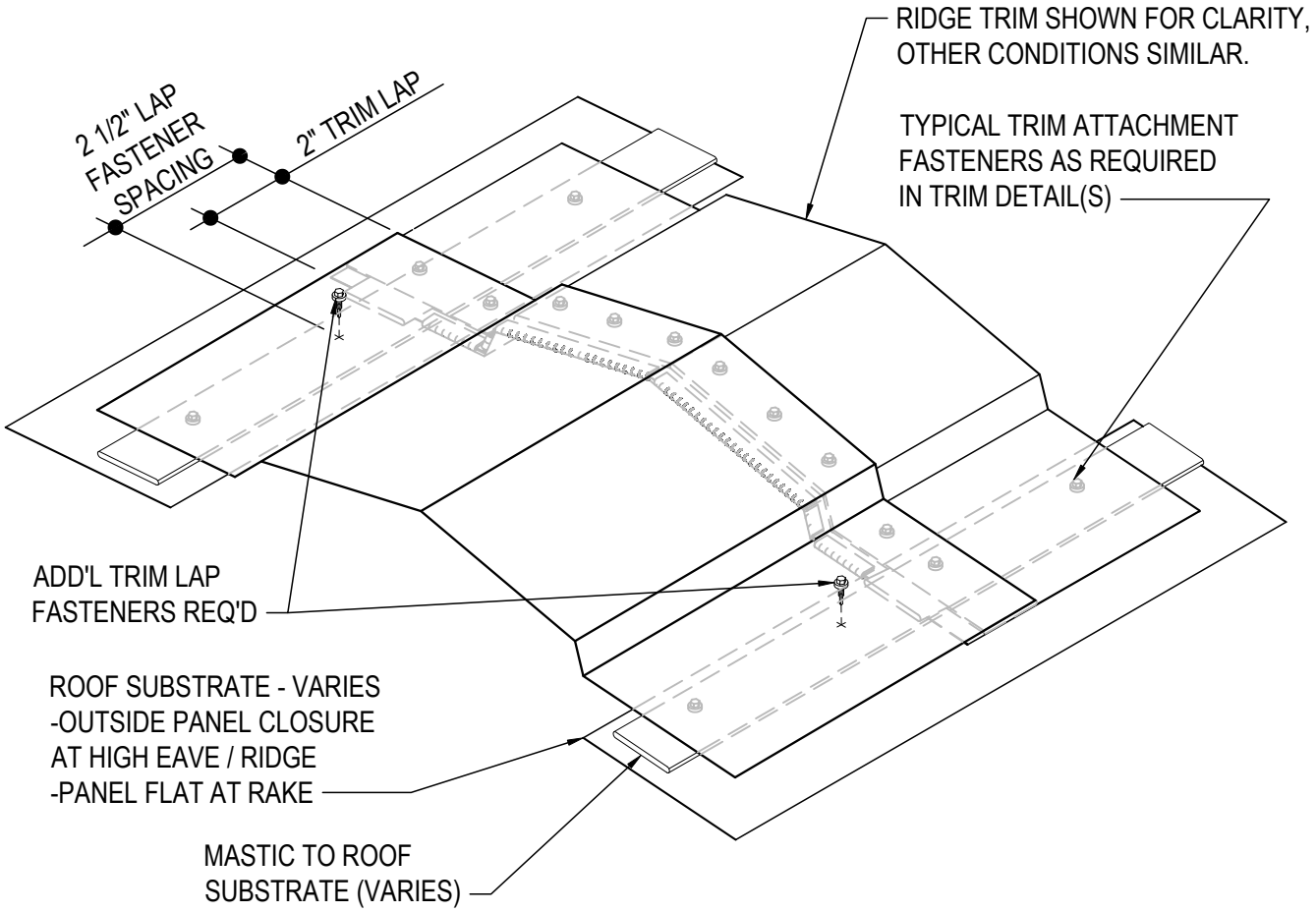
NOTE:
REFERENCE TRIM CONDITION DETAIL FOR
REQUIRED SEALANT AND FASTENERS



TRIM LAP COMPRESSION FASTENER

THE ADDITIONAL FASTENER IS REQUIRED AT TRIM LAPS TO AID IN ELIMINATING GAPS AND COMPRESSING SEALANTS WHERE THE MULTIPLE LAYERS OF FLASHING COME TOGETHER.

FA2076

Detailer Notes:

1) THIS DETAIL IS TO BE PROVIDED ON ALL PROJECTS WHERE THERE IS LAPPED ROOF LINE TRIM.
2) THIS DETAIL IS DUPLICATE OF DA0076, EA3076, EA6076 AND EA8076. DUPLICATE DETAILS ARE TO ENSURE THAT THEY ARE PLACED IN ORDER IN ERECTION DRAWINGS.