

GENERAL DETAILS

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 - EA6035 - SS360 START - FINISH PANEL WIDTH DETAIL
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-

EA6000 - ROOF PANEL HAND TOOLS

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

IMPORTANT!

ROOF PANEL HAND TOOLS ARE NO LONGER
PURCHASED THROUGH eQuote OR STEEL STORE.
ROOF PANEL HAND TOOLS CAN BE PURCHASED THROUGH
D.I. ROOF SEAMERS

HAND
TOOLS



ROOF
SEAMERS

SCAN THE QR CODE FOR TOOL PURCHASE AND SEAMER RENTAL
OR VISIT [HTTP://DIROOFSEAMERS.COM/NBG](http://diroofseamers.com/nbg) OR CALL 1(888) 343-0456.

Detailer Notes:

- 1) DETAIL TO BE INSERTED INTO EVERY JOB THAT HAS BEEN ORDERED AFTER 10/12/2023.
- 2) IF HAND TOOLS HAVE BEEN ORDERED IN BOX 6 OF THE ORDER DOCUMENT, REMOVE DETAIL.

EA6011 - SS360 BASIC PANEL INSTALLATION

Download the DWG file by clicking here.

BASIC INSTALLATION SEQUENCE

THE FOLLOWING STEPS OUTLINE THE BASIC INSTALLATION OF THE ROOF SYSTEM. REFERENCE THE SPECIFIC DETAILS WITHIN THIS SECTION DRAWING SET FOR CONDITIONS SPECIFIC TO THIS PROJECT.

START PANEL PREPARATION

THE ROOF SYSTEM IS DESIGNED TO BE ELEVATED AND FLOAT ABOVE THE ROOF SUPPORT MEMBERS, BEGIN AT THE LOWER RAKE CORNER BY INSTALLING THE EAVE PLATE. (REFERENCE EAVE PLATE INSTALLATION BELOW)

AFTER EAVE PLATE HAS BEEN INSTALLED, STITCH THE FIRST ROLL OF ROOF INSULATION FROM RIDGE / HIGH EAVE TO LOW EAVE. THEN INSTALL THE RAKE CLIPS AND RAKE ANGLE TO SUPPORT / SECURE THE START PANEL. (REFERENCE RAKE ANGLE / RAKE CLIP PREPARATION TO THE RIGHT)

FIELD CUT AND INSTALL START PANEL

THE START PANEL IS SUPPLIED AS A FULL SHEET AND WILL NEED TO BE CUT. REFER TO THE ROOF SHEETING PLAN FOR START / FINISH DIMENSIONS AND RAKE DETAILS TO DETERMINE PROPER PANEL CUT. INSTALL THE START PANEL, LOW EAVE PANEL FIRST IF PANEL RUN IS LONG ENOUGH TO REQUIRE ENDLAPS BY SECURING THE PANEL TO THE EAVE PLATE AND RAKE ANGLE. (REFERENCE LOW EAVE AND RAKE DETAILS). INSTALL PANEL CLIPS ON LEADING EDGE OF PANEL AS SHOWN IN THE PANEL CLIP DETAIL. CONTINUE TO INSTALL UPSLOPE START PANEL IF ENDLAPS ARE REQUIRED. REFERENCE THE BACKUP PLATE DETAIL AND ENCLAP DETAIL FOR ATTACHMENT OF START PANEL(S) AT RAKE ANGLE.

INTERMEDIATE PANEL & MODULARITY

THE INTERMEDIATE PANELS (FIELD PANELS) SHOULD BE INSTALLED BY ROLLING THE PANEL INTO PLACE ENSURING THE SEAM IS FULLY ENGAGED. SECURE THE PANEL WITH PANEL CLIPS AND THE LOW EAVE ACROSS THE ROOF. IT IS RECOMMENDED TO INSTALL THE OUTSIDE CLOSURE AT THE HIGH EAVE / RIDGE AS THE ROOF PROGRESSES. THIS WILL HELP MAINTAIN MODULARITY. (REFERENCE HIGH EAVE / RIDGE DETAILS)

FINISH PANEL

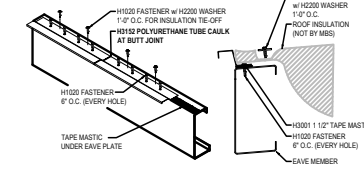
THE FINISH PANEL IS SIMILAR TO THE START PANEL INSTALLATION. THE RAKE ANGLE CLIPS AND RAKE ANGLE NEEDS TO BE INSTALLED ON TOP OF THE INSULATION PRIOR TO INSTALLING THE FINISH PANEL. THE FINISH PANEL SHOULD BE FIELD CUT AND ROLLED INTO PLACE AND SECURED TO THE RAKE ANGLE SIMILAR TO THE START PANEL.

TRIM INSTALLATION

TRIM INSTALLATION CAN BE DONE AFTER THE ROOF PANELS ALL HAVE BEEN INSTALLED OR CAN BE INSTALLED AS ENOUGH PANELS HAVE BEEN INSTALLED FOR ATTACHMENT OF TRIMS. (REFERENCE TRIM DETAILS)

EAVE PLATE INSTALLATION

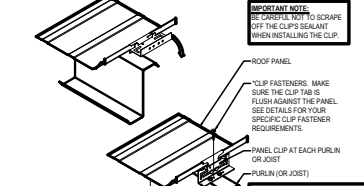
PLACE TAPE MASTIC ON TOP OF EAVE MEMBER PRIOR TO INSTALLING EAVE PLATE. INSTALL EAVE PLATE BY FASTENING EVERY HOLE TO EAVE MEMBER (Ø 1/2" O.C.) PRIOR TO INSULATION BEING INSTALLED. SECURE INSULATION WITH FASTENERS & INSULATION RETAINER WASHER. NOTE: IF NO ROOF INSULATION IS USED, SECURE EAVE PLATE IN EVERY HOLE (Ø 1/2" O.C.)



NOTE: H1200/H1010 (PURLIN/JOIST) FASTENER W/ H2000 WASHER 11/2" O.C. FOR INSULATION TIE-OFF PROVIDED AT HIGH SIDE / RIDGE		
SHORT EAVE PLATE	TALL EAVE PLATE	SUPER TALL EAVE PLATE
EP110	BASIC EAVE / GUTTER	EP110M
EP110	BASIC EAVE / GUTTER	EP110M
EP110	BASIC EAVE / GUTTER	EP110M

PANEL CLIP INSTALLATION

BEFORE INSTALLING THE PANEL CLIP, FEEL FOR THE SUPPORT MEMBER BELOW THE INSULATION. ALIGN CLIP CENTERED OVER THE SUPPORT MEMBER AND ROLL CLIP OVER THE MALE HOOK OF THE PANEL. FASTEN CLIP WITH FASTENERS AS SPECIFIED IN THE DETAILS BASED ON THE SUPPORT MEMBER AND INSULATION UTILIZED FOR THE ROOF SYSTEM.

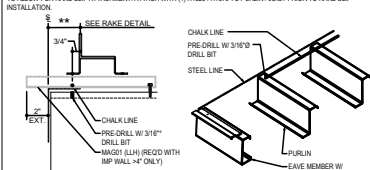


CLIP FASTENER SELECTION	STANDARD CLIPS	PERIMETER CLIPS
SEE DETAIL FIGURE	PART #	PART #
	DESCRIPTION	DESCRIPTION
	SP3C-1	SP3C-1P
	SHORT CLIP	12" SHORT CLIP
	SP3C-1R	SP3C-1R
	SHORT CLIP - REINFORCED	12" TALL CLIP
	SP3C-2T	SP3C-2T
	TALL CLIP	12" TALL CLIP
	SP3C-2TR	SP3C-2TR
	TALL CLIP - REINFORCED	12" TALL CLIP
	SP3C-3T	SP3C-3T
	SUPER TALL CLIP	

RAKE ANGLE / RAKE CLIP PREPARATION

PRIOR TO INSTALLING THE ROOF INSULATION THE SECONDARY MEMBER WILL NEED TO BE PRE-DRILLED FOR THE RAKE CLIPS. PRE-DRILLING WILL MAKE NOTIFICATION OF THE RAKE AND CLIP BACK EASIER AFTER INSULATION IS IN PLACE. DO NOT INSTALL RAKE CLIPS UNTIL INSULATION (IF REQUIRED) IS INSTALLED. **RAKE CLIP IS INSTALLED ON TOP OF THE INSULATION.**

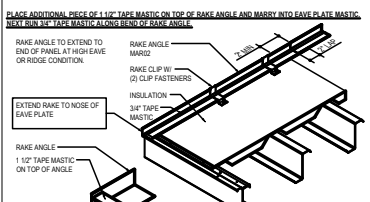
SNAP A CHALK LINE AS SHOWN BELOW FROM HIGH EAVE / RIDGE TO LOW EAVE. DRILL 3/16" Ø HOLE CENTERED ON SECONDARY MEMBER. THIS HELPS TO ALIGN THE START PANEL.



RAKE ANGLE / RAKE CLIP INSTALLATION

AFTER INSULATION IS IN PLACE AND PRIOR TO INSTALLING THE RAKE CLIPS AND RAKE ANGLE APPLY 1/2" TAPE MASTIC ON TOP OF THE EAVE PLATE BUT ONLY REMOVE PAPER BACKING WHERE THE RAKE ANGLE WILL REST. THIS WILL SEAL BETWEEN THE EAVE PLATE AND THE RAKE ANGLE.

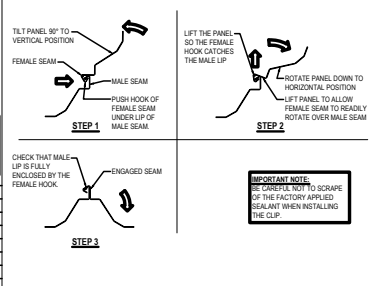
SLIDE RAKE CLIPS ON TO RAKE ANGLE PRIOR TO SECURING THE RAKE CLIPS TO THE SECONDARY MEMBERS. PLACE THE RAKE CLIPS AND ANGLE OVER THE INSULATION USING A SMALL DRIFT PIN TO LOCATE THE PRE-DRILLED HOLE. INSTALL FASTENERS THROUGH OPPOSITE CLIP HOLE INTO SECONDARY MEMBER. REMOVE DRIFT PIN AND INSTALL SECOND FASTENER TO SECURE CLIP. NOTE: (2) SCREWS ARE REQUIRED IN EVERY CLIP. DO NOT CUT INSULATION OUT FROM AROUND THE CLIP.



RAKE CLIP	RAKE ANGLE
H0341	SHORT CLIPS
H0301	TALL CLIPS
H0301	SUPER TALL CLIPS

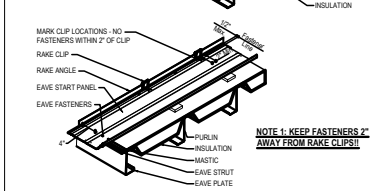
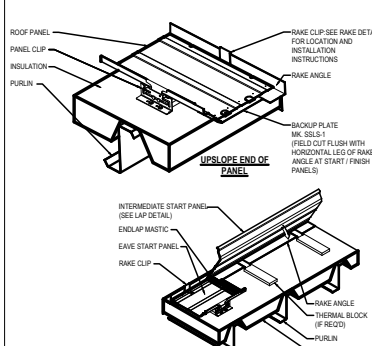
PANEL INSTALLATION

THE PANEL IS DESIGNED TO INTERLOCK AND HOOK TOGETHER AT THE SEAM. IN ORDER TO HOOK THE PANEL LAY PANEL WITH FEMALE RIB OVER TOP OF THE MALE RIB. TILT THE LEADING PANEL UP UNTIL THE HOOK CATCHES THE UP OF THE MALE RIB. ROTATE THE PANEL DOWN WHILE ENSURING THE PANEL HOOKS ENGAGED COMPLETELY UP THE RIB OF THE PANEL.



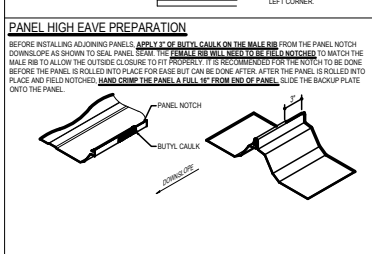
BACKUP PLATE INSTALLATION

THE BACKUP PLATE PROVIDES SUPPORT AT THE ENCLAP AND HIGH SIDE OF THE PANEL TO ALLOW FOR COMPRESSION OF SEALANTS. THE BACKUP PLATE HAS NOTCHES THAT SLIDE ONTO THE PANEL TO LOCATE AND HOLD THE BACKUP PLATE IN PLACE. AT THE RAKE CONDITION, THE BACKUP PLATE IS TO BE FIELD CUT FLUSH WITH THE HORIZONTAL LEG OF THE RAKE ANGLE. DO NOT EXTEND BACKUP PLATE ON TOP OF RAKE ANGLE.



PANEL HIGH EAVE PREPARATION

BEFORE INSTALLING ADJACENT PANELS APPLY 1/2" OF BUTYL CALK ON THE MALE RIB FROM THE PANEL NOTCH DOWN UPSLOPE AS SHOWN TO SEAL PANEL SEAM. THE FEMALE RIB WILL NEED TO BE FIELD NOTCHED TO MATCH THE MALE RIB TO ALLOW THE OUTSIDE CLOSURE TO FIT PROPERLY. IT IS RECOMMENDED FOR THE NOTCH TO BE DONE BEFORE THE PANEL IS ROLLED INTO PLACE FOR EASE BUT CAN BE DONE AFTER. AFTER THE PANEL IS ROLLED INTO PLACE AND FIELD NOTCHED, **HAND CRIMP THE PANEL A FULL 1/8" FROM END OF PANEL.** SLIDE THE BACKUP PLATE ONTO THE PANEL.



OUTSIDE CLOSURE MASTIC INSTALLATION

START & FINISH PANEL NOTE: OUTSIDE CLOSURE CANNOT BE INSTALLED IN THE START / FINISH PANEL UNTIL THE RAKE TRIM IS INSTALLED.

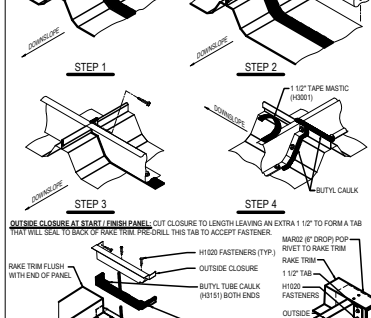
FIELD PANEL NOTE: OUTSIDE CLOSURE MUST BE INSTALLED AS ROOF PROGRESSES AS NEXT PANEL IS INSTALLED. CLOSURE SHOULD BE INSTALLED IN THE PREVIOUS PANEL RUN.

STEP 1: APPLY THE PRECUT MASTIC ACROSS THE PANEL WITH THE BOTTOM OF THE MASTIC ALINE WITH THE NOTCH. PRESS THE MASTIC INTO THE CORNERS OF THE TRAPEZOID TO ENSURE THERE ARE NO GAPS. CUT A 2" PIECE OF THE PRECUT MASTIC TO PLACE A RINGAL AROUND THE PANEL RIB WHERE THE NOTCH IS LOCATED. PULL PRECUT MASTIC SHOWN AND PRESS INTO VOID UNDER SEAM. MARRY RINGAL TO PRECUT AND SEAL END OF PANEL SEAM.

STEP 2: ALIGN THE OUTSIDE CLOSURE WITH THE NOTCH AND SEAT INTO THE PRECUT MASTIC. ATTACH THE OUTSIDE CLOSURE THROUGH THE PREPUNCHED HOLES THROUGH THE PANEL AND INTO THE BACKUP PLATE.

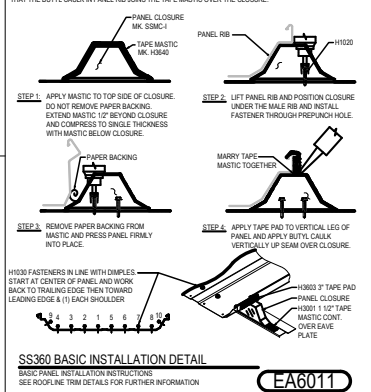
STEP 3: INSTALL FASTENER THROUGH RIB INTO ADJACENT OUTSIDE CLOSURE TO DRAW THEM TOGETHER.

STEP 4: PRIOR TO INSTALLING TRIM APPLY BUTYL CALK DOWN PROFILES OF TRAPEZOID AND 1" MIN ONTO PANEL. TRIM NEED APPLY BUTYL CALK FULL LENGTH OF NOTCH AND ACROSS JOINT OF ADJACENT OUTSIDE CLOSURES. ROLL OUT TAPE MASTIC ACROSS TOP OF OUTSIDE CLOSURES FOR TRIM SEALANT.



VOID CLOSURE INSTALLATION

IT IS CRITICAL TO ENSURE THAT THE TAPE MASTIC OVER THE CLOSURE DOES NOT LEAVE GAPS AT THE CORNERS AND THAT THE BUTYL CALK IN PANEL RIB JOINS THE TAPE MASTIC OVER THE CLOSURE.



Detailer Notes:

EA6011 - SSII BASIC PANEL INSTALLATION

Download the DWG file by clicking here.

BASIC INSTALLATION SEQUENCE

THE FOLLOWING STEPS OUTLINE THE BASIC INSTALLATION OF THE ROOF SYSTEM. REFERENCE THE SPECIFIC DETAILS WITHIN THIS SECTION DRAWING SET FOR CONDITIONS SPECIFIC TO THIS PROJECT.

START PANEL PREPARATION

THE ROOF SYSTEM IS DESIGNED TO BE ELEVATED AND FLOAT ABOVE THE ROOF SUPPORT MEMBERS. BEGIN AT THE LOWER RAKE CORNER BY INSTALLING THE EAVE PLATE. (REFERENCE EAVE PLATE INSTALLATION BELOW)

AFTER EAVE PLATE HAS BEEN INSTALLED, STITCH THE FIRST ROLL OF ROOF INSULATION FROM RIDGE / HIGH EAVE TO LOW EAVE / RAKE CLIPS AND RAKE ANGLE TO SUPPORT / SECURE THE START PANEL. (REFERENCE RAKE ANGLE / RAKE CLIP PREPARATION TO THE RIGHT)

FIELD CUT AND INSTALL START PANEL

THE START PANEL IS SUPPLIED AS A FULL SHEET AND WILL NEED TO BE CUT. REFER TO THE ROOF SHEETING PLAN FOR START / FINISH DIMENSIONS AND RAKE DETAILS TO DETERMINE PROPER PANEL CUT. INSTALL THE START PANEL, LOW EAVE PANEL FIRST IF PANEL RUN IS LONG ENOUGH TO REQUIRE ENDLAPS BY SECURING THE PANEL TO THE EAVE PLATE AND RAKE ANGLE. (REFERENCE LOW EAVE AND RAKE DETAILS). INSTALL PANEL CLIPS ON LEADING EDGE OF PANEL AS SHOWN IN THE PANEL CLIP DETAIL. CONTINUE TO INSTALL UPSLOPE START PANEL IF ENDLAPS ARE REQUIRED. (REFERENCE RETAINER WASHER W/ INSULATION DETAIL FOR ATTACHMENT OF START PANELS) AT RAKE ANGLE.

INTERMEDIATE PANEL & MODULARITY

THE INTERMEDIATE PANELS (FULL PANELS) SHOULD BE INSTALLED BY ROLLING THE PANEL INTO PLACE ENSURING THE SEAM IS FULLY ENGAGED. SECURE THE PANEL WITH PANEL CLIPS AND THE LOW EAVE ACROSS THE ROOF. IT IS RECOMMENDED TO INSTALL THE OUTSIDE CLOSURE AT THE HIGH EAVE / RIDGE AS THE ROOF PROGRESSES. THIS WILL HELP MAINTAIN MODULARITY. (REFERENCE HIGH EAVE / RIDGE DETAILS)

FINISH PANEL

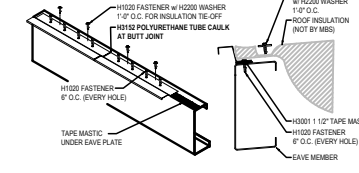
THE FINISH PANEL IS SIMILAR TO THE START PANEL INSTALLATION. THE RAKE ANGLE CLIPS AND RAKE ANGLE NEEDS TO BE INSTALLED ON TOP OF THE INSULATION PRIOR TO INSTALLING THE FINISH PANEL. THE FINISH PANEL SHOULD BE FIELD CUT AND ROLLED INTO PLACE AND SECURED TO THE RAKE ANGLE SIMILAR TO THE START PANEL.

TRIM INSTALLATION

TRIM INSTALLATION CAN BE DONE AFTER THE ROOF PANELS ALL HAVE BEEN INSTALLED OR CAN BE INSTALLED AS ENOUGH PANELS HAVE BEEN INSTALLED FOR ATTACHMENT OF TRIMS. (REFERENCE TRIM DETAILS)

EAVE PLATE INSTALLATION

PLACE TAPE MASTIC ON TOP OF EAVE MEMBER PRIOR TO INSTALLING EAVE PLATE. INSTALL EAVE PLATE BY FASTENING EVERY HOLE TO EAVE MEMBER @ 1'0" O.C. PRIOR TO INSULATION BEING INSTALLED. SECURE INSULATION WITH FASTENERS & INSULATION RETAINER WASHER. NOTE: IF NO ROOF INSULATION IS USED SECURE EAVE PLATE IN EVERY HOLE @ 1'0" O.C.

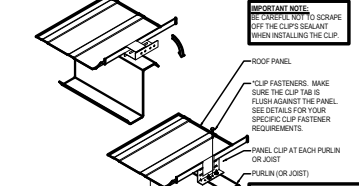


NOTE: H1020/H1010 (PURLIN/JOST) FASTENER W/ H2020 WASHER 1'10" O.C. FOR INSULATION TIE-OFF PROVIDED AT HIGH SIDE / RIDGE

SHORT EAVE PLATE	TALL EAVE PLATE	SUPER TALL EAVE PLATE
EP1101 BASIC EAVE / OUTER	EP1102 BASIC EAVE / OUTER	EP1103 BASIC EAVE / OUTER

PANEL CLIP INSTALLATION

BEFORE INSTALLING THE PANEL CLIP, FEEL FOR THE SUPPORT MEMBER BELOW THE INSULATION. ALIGN CLIP CENTERED OVER THE SUPPORT MEMBER AND ROLL CLIP OVER THE MALE HOOK OF THE PANEL. FASTEN CLIP WITH FASTENERS AS SPECIFIED IN THE DETAILS BASED ON THE SUPPORT MEMBER AND INSULATION UTILIZED FOR THE ROOF SYSTEM.



IMPORTANT NOTE: DO NOT SCRUB OFF THE CLIP'S SEALANT WHEN INSTALLING THE CLIP.

IMPORTANT NOTE: IF JOIST TOP CHORD GAP EXCEEDS PANEL CLIP FASTENER LOCATIONS, ALTERNATE PANEL CLIPS TO OPPOSITE CHORD ANGLES TO PREVENT LOADING JOIST TO ONE SIDE.

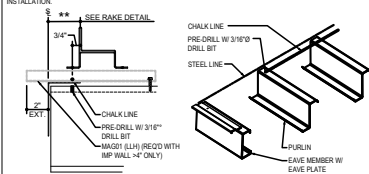
CLIP FASTENER SELECTION

FASTENER TYPE	STANDARD CLIPS	PERIMETER CLIPS
INSULATION FOR INSULATION	HR-19 @ 3/8" AND HR-18 @ 1/2"	PART # PART DESCRIPTION
JOIST APPLICATION	SSPC-1 SHORT CLIP W/ 2 FASTENERS	SSPC-2 TALL CLIP W/ 2 FASTENERS
H1015 FOR INSULATION	HR-19 @ 3/8" AND HR-18 @ 1/2"	

RAKE ANGLE / RAKE CLIP PREPARATION

PRIOR TO INSTALLING THE ROOF INSULATION THE SECONDARY MEMBER WILL NEED TO BE PRE-DRILLED FOR THE RAKE CLIPS. PRE-DRILLING WILL MAKE NOTIFICATION OF THE RAKE AND CLIP BACKLASH AFTER INSULATION IS IN PLACE. DO NOT INSTALL RAKE CLIPS UNTIL INSULATION (IF REQUIRED) IS INSTALLED. **RAKE CLIP IS INSTALLED ON TOP OF THE INSULATION.**

SNAP A CHALK LINE AS SHOWN BELOW FROM HIGH EAVE / RIDGE TO LOW EAVE. DRILL 3/16" Ø HOLE CENTERED ON SECONDARY MEMBER. THIS HELPS TO ALIGN THE START PANEL.

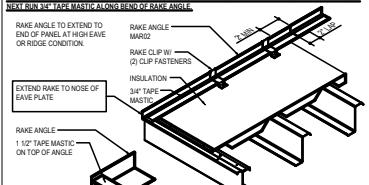


RAKE ANGLE / RAKE CLIP INSTALLATION

AFTER INSULATION IS IN PLACE AND PRIOR TO INSTALLING THE RAKE CLIPS AND RAKE ANGLE APPLY 1"12" TAPE MASTIC ON TOP OF THE EAVE PLATE BUT ONLY REMOVE PAPER BACKING WHERE THE RAKE ANGLE WILL REST. THIS WILL SEAL BETWEEN THE EAVE PLATE AND THE RAKE ANGLE.

SLIDE RAKE CLIPS ON TOP OF RAKE ANGLE PRIOR TO SECURING THE RAKE CLIPS TO THE SECONDARY MEMBERS. PLACE THE RAKE CLIPS AND ANGLE OVER THE INSULATION USING A SMALL DRIFT PIN TO LOCATE THE PRE-DRILLED HOLE. INSTALL FASTENERS THROUGH OPPOSITE CLIP HOLE INTO SECONDARY MEMBER. REMOVE DRIFT PIN AND INSTALL SECOND FASTENER TO SECURE CLIP. NOTE: (2) SCREWS ARE REQUIRED IN EVERY CLIP. DO NOT CUT INSULATION OFF FROM AROUND THE CLIP.

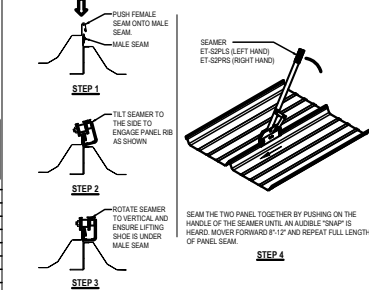
PLACE ADDITIONAL PIECE OF 1"12" TAPE MASTIC ON TOP OF RAKE ANGLE AND MARRY INTO EAVE PLATE MASTIC. NEXT STEP IS TO PLACE MASTIC ALONGSIDE OF RAKE ANGLE.



RAKE CLIP	RAKE ANGLE
1030A1 SHORT CLIPS	1030A1 SHORT CLIPS
1030A2 TALL CLIPS	1030A2 TALL CLIPS
1030A3 SUPER TALL CLIPS	1030A3 SUPER TALL CLIPS

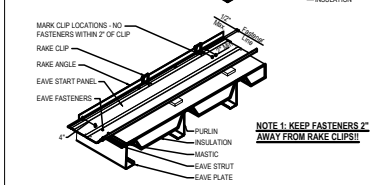
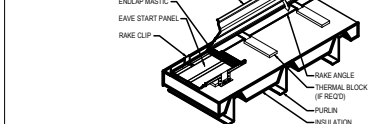
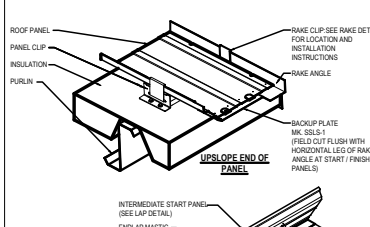
PANEL INSTALLATION

THE PANEL IS DESIGNED TO INTERLOCK AND HOOK TOGETHER AT THE SEAM. IN ORDER TO HOOK THE PANEL LAY PANEL WITH FEMALE RIB OVER TOP OF THE MALE RIB. PUSH THE FEMALE SEAM ONTO THE MALE SEAM TO SNAP INTO PLACE. USE THE SEAMER TO SNAP THE FULL LENGTH OF THE SEAM INTO PLACE AS SHOWN BELOW.



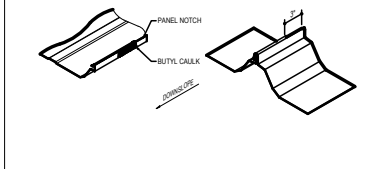
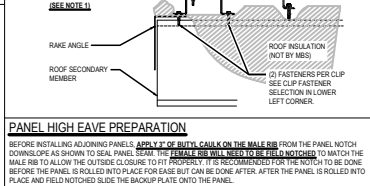
BACKUP PLATE INSTALLATION

THE BACKUP PLATE PROVIDES SUPPORT AT THE ENDLAP AND HIGH SIDE OF THE PANEL TO ALLOW FOR COMPRESSION OF SEALANTS. THE BACKUP PLATE HAS NOTCHES THAT SLIDE ONTO THE PANEL TO LOCATE AND HOLD THE BACKUP PLATE IN PLACE. AT THE RAKE CONDITION, THE BACKUP PLATE IS TO BE FIELD CUT FLUSH WITH THE HORIZONTAL LEG OF THE RAKE ANGLE. DO NOT EXTEND BACKUP PLATE ON TOP OF RAKE ANGLE.



PANEL HIGH EAVE PREPARATION

BEFORE INSTALLING ADJACENT PANELS APPLY 1"12" TAPE MASTIC ON THE MALE RIB FROM THE PANEL NOTCH DOWN SLOPE AS SHOWN TO SEAL PANEL SEAM. THE FEMALE RIB WILL NEED TO BE FIELD NOTCHED TO MATCH THE MALE RIB TO ALLOW THE OUTSIDE CLOSURE TO FIT. PREPARE IT IS RECOMMENDED FOR THE NOTCH TO BE DONE BEFORE THE PANEL IS ROLLED INTO PLACE FOR EASE BUT CAN BE DONE AFTER AFTER THE PANEL IS ROLLED INTO PLACE AND FIELD NOTCHED. SLIDE THE BACKUP PLATE ONTO THE PANEL.



OUTSIDE CLOSURE MASTIC INSTALLATION

START & FINISH PANEL NOTE: OUTSIDE CLOSURE CANNOT BE INSTALLED IN THE START / FINISH PANEL UNTIL THE RAKE TRIM IS INSTALLED.

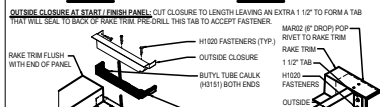
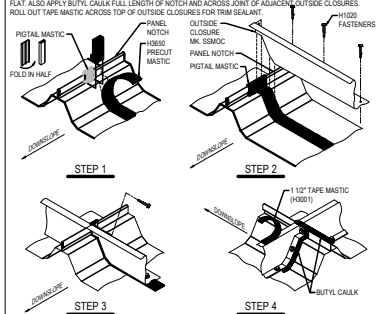
MODULARITY NOTE: OUTSIDE CLOSURE MUST BE INSTALLED AS ROOF PROGRESSES AS NEXT PANEL IS INSTALLED. CLOSURE SHOULD BE INSTALLED IN THE PREVIOUS PANEL RUN.

STEP 1: APPLY THE PRECUT MASTIC ACROSS THE PANEL WITH THE BOTTOM OF THE MASTIC ALINE WITH THE NOTCH. PRESS THE MASTIC INTO THE CORNERS OF THE TRAPEZOID TO ENSURE THERE ARE NO GAPS. CUT A 3" PIECE OF THE PRECUT MASTIC TO PLACE A NOTCH AROUND THE PANEL RIB WHERE THE NOTCH IS LOCATED. FOLD PRECUT MASTIC SHOWN AND PRESS INTO VOID UNDER SEAM. MARRY PITGAL TO PRECUT AND SEAL END OF PANEL SEAM.

STEP 2: ALIGN THE OUTSIDE CLOSURE WITH THE NOTCH AND SEAT INTO THE PRECUT MASTIC. ATTACH THE OUTSIDE CLOSURE THROUGH THE PREPUNCHED HOLES THROUGH THE PANEL AND INTO THE BACKUP PLATE.

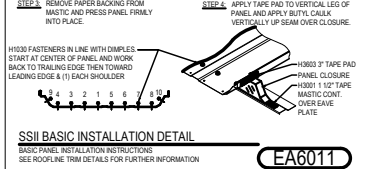
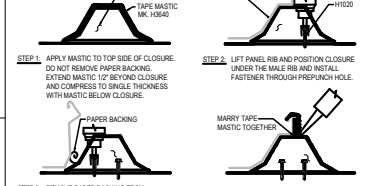
STEP 3: INSTALL FASTENER THROUGH RIB INTO ADJACENT OUTSIDE CLOSURE TO DRAW THEM TOGETHER.

STEP 4: PRIOR TO INSTALLING TRIM APPLY BUTYL CALK UNDER PROFILE OF TRAPEZOID AND 1" MIN ONTO PANEL. TRIM NEED APPLY BUTYL CALK FULL LENGTH OF NOTCH AND ACROSS JOINT OF ADJACENT OUTSIDE CLOSURES. ROLL OUT TAPE MASTIC ACROSS TOP OF OUTSIDE CLOSURES FOR TRIM SEALANT.



VOID CLOSURE INSTALLATION

IT IS CRITICAL TO ENSURE THAT THE TAPE MASTIC OVER THE CLOSURE DOES NOT LEAVE GAPS AT THE CORNERS AND THAT THE BUTYL CALK IN PANEL RIB JOINTS THE TAPE MASTIC OVER THE CLOSURE.



Detailer Notes:

EA6012 - SS360 MODULARITY GUIDANCE

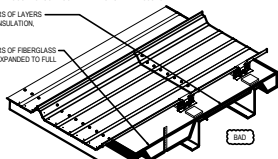
Download the DWG file by clicking here.

SPECIAL ATTENTION MUST BE GIVEN TO INSULATION SAG AND RECOMMEND PRE-DRILLING TO LOCATE CLIPS. MODULARITY TOOLS ARE AVAILABLE TO AID IN MODULARITY.

ENSURE THE INSULATION IS PERMITTED TO SAG AT MID-SPAN BETWEEN ROOF SECONDARY MEMBERS AND EXPANDED TO THE FULL THICKNESS WHILE STILL KEEPING CONTACT WITH BOTTOM OF PANEL.

DO NOT PULL THE INSULATION TIGHT AS THIS WILL SIGNIFICANTLY REDUCE THE THERMAL PERFORMANCE OF THE ROOF SYSTEM AND COULD CAUSE ROOF PANEL MODULARITY ISSUES.

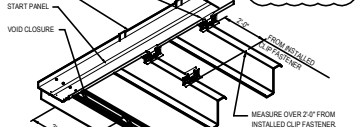
SINGLE OR MULTI LAYERS OF FIBERGLASS BLANKET INSULATION PULLED TOO TIGHT
SINGLE OR MULTI LAYERS OF FIBERGLASS BLANKET INSULATION, EXPANDED TO FULL THICKNESS



PRE-DRILL ONE PILOT HOLE FOR ROOF PANEL CLIPS AT MID-SPAN, HIGH SIDE OR RIDGE AND PANEL END LAP, IF ANY.

INSTALL NEXT VOID CLOSURE AT BUILDING EAWE.

ROOF PANEL CLIP
RAKE ANGLE
START PANEL
VOID CLOSURE

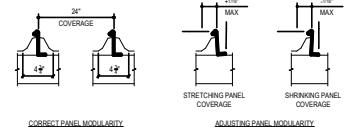
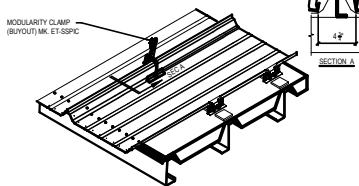


MEASURE OVER 2" FROM CENTER OF INSTALLED VOID CLOSURE AND MARK ON EAWE PLATE TAPE MASTIC. INSTALL NEXT VOID CLOSURE AS SHOWN.

USE MODULARITY CLAMPS TO HOLD PANEL TRAPEZOID AT 5/16" WIDE ALONG FULL LENGTH OF PANEL SEAM. SEE SECTION A.

USE MODULARITY TOOLS TO HOLD PANEL CLIPS IN PLACE, PRIOR TO FASTENING, TO MAINTAIN A CONSTANT 24" WIDE PANEL COVERAGE.

DO NOT ADJUST THE PANEL WIDTH BY MORE THAN + 1/8" ON ANY PANEL.

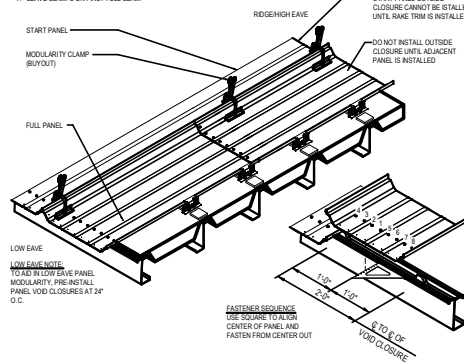


PANEL MODULARITY SEQUENCE

THE PROCEDURES AND SEQUENCE SHOWN ARE RECOMMENDED TO AID IN MAINTAINING PANEL MODULARITY. THE TOOLS SHOWN ARE NOT REQUIRED BUT RECOMMENDED TO AID INSTALLATION.

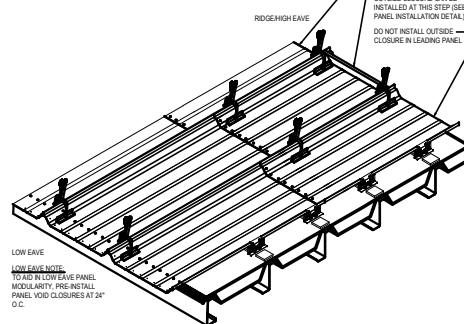
STAGE #1

1. AFTER INSTALLING START PANEL, PRE-DRILL CLIP HOLES 2" O.C. AND MARK EAWE PLATE 1" O.C. TO LOCATE CENTER OF VOID CLOSURES AND CENTER OF PANEL FLAT.
2. ROLL FIRST FULL PANEL IN PLACE AND ALIGN CENTER OF PANEL FLAT TO SQUARE AS SHOWN BELOW.
3. APPLY THE LOW EAWE CLAMP AS SHOWN TO DRAW PANEL TIGHT TO CLOSURE.
4. INSTALL THE EAWE FASTENERS STARTING AT CENTER OF PANEL AND WORK BACK TO TRAILING RB. THEN FROM CENTER OF PANEL TOWARD LEADING RB.
5. AS PANEL INSTALLATION PROGRESS, INSTALL MORE CLAMP UPSLOPE AS SHOWN.
6. ADD ADJUST OR LEAVE CLAMPS OFF TO MAINTAIN PANEL MODULARITY AS NECESSARY.
7. LEAVE CLAMPS ON FIRST FULL SEAM.



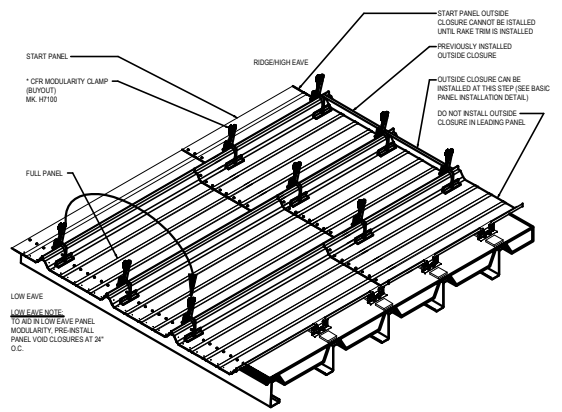
STAGE #2

1. INSTALL THE NEXT LOW EAWE PANEL AND ADD CLAMP.
2. REPEAT STEPS 3 THROUGH 6 FROM STAGE #1 NOTES.
3. LEAVE CLAMPS ON FIRST AND SECOND FULL SEAM.
4. INSTALL THE OUTSIDE CLOSURE IN THE FIRST FULL PANEL.
- 4.1. DO NOT INSTALL OUTSIDE CLOSURE IN THE LEADING PANEL.



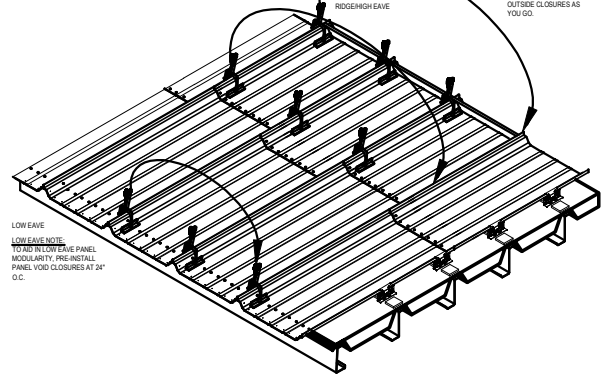
STAGE #3

1. KEEP CLAMPS IN PLACE ON THE FIRST TWO SEAMS WITH THE EXCEPTION OF THE LOW EAWE CLAMP.
2. INSTALL THE NEXT LOW EAWE PANEL AND LEAP PROG CLAMP AS SHOWN.
3. REPEAT STEPS 2 THROUGH 5 FROM STAGE #1 NOTES.



STAGE #4

1. INSTALL CLAMPS IN PLACE ON THE FIRST TWO SEAMS WITH THE EXCEPTION OF THE LOW EAWE CLAMP.
2. INSTALL THE NEXT LOW EAWE PANEL AND LEAP PROG THE CLAMP AS SHOWN.
3. INSTALL EAWE PLATE FASTENERS.
4. AS PANEL INSTALLATION PROGRESS, LEAP PROG CLAMPS FROM THREE SEAMS BACK ONTO PANEL SEAM AS SHOWN.
5. MAINTAIN TWO RINGS OF CLAMPS ON PREVIOUS SEAMS AS PANEL INSTALLATION CONTINUES.
6. REPEAT ALL STEPS / STAGES OF THIS METHOD THROUGHOUT THE ROOF PANEL ERECTION.

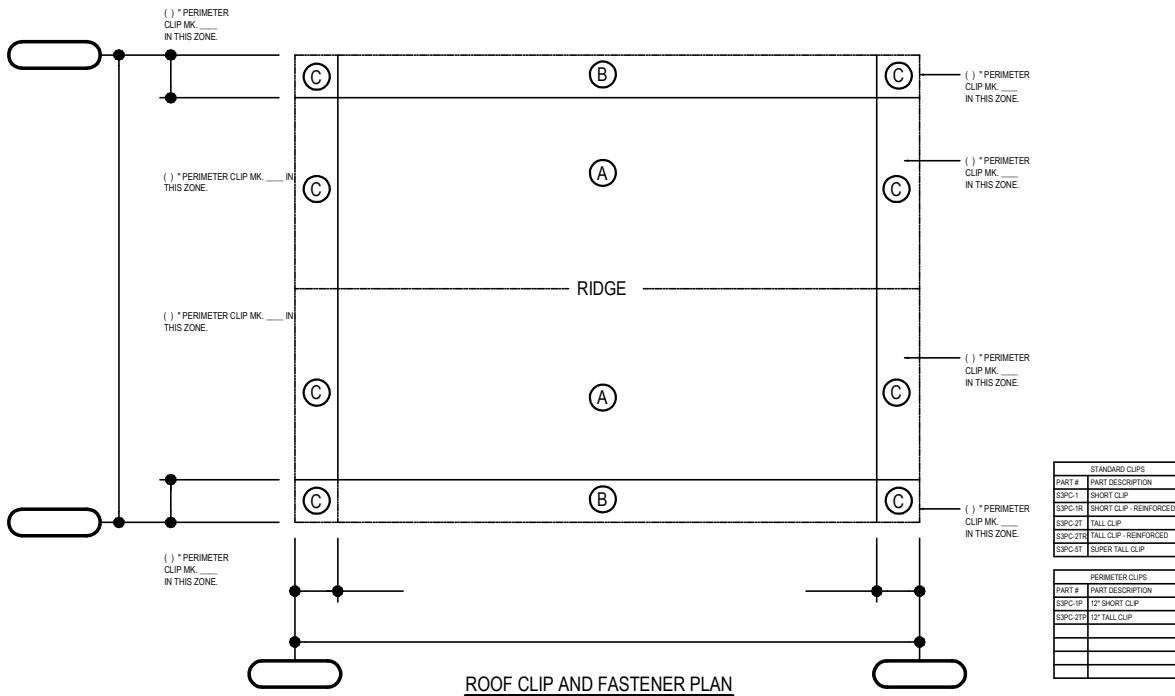


Detailer Notes:

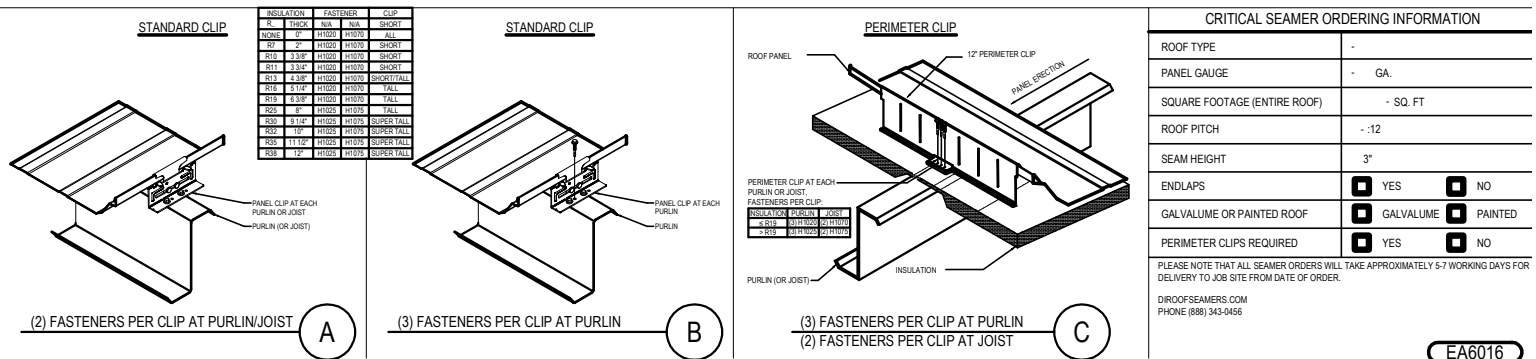
1) THIS DETAIL REQUIRED ON EVERY TRAPEZOIDAL ROOF PROJECT.

EA6016 - SS360 ROOF CLIP PLAN

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



ROOF CLIP AND FASTENER PLAN



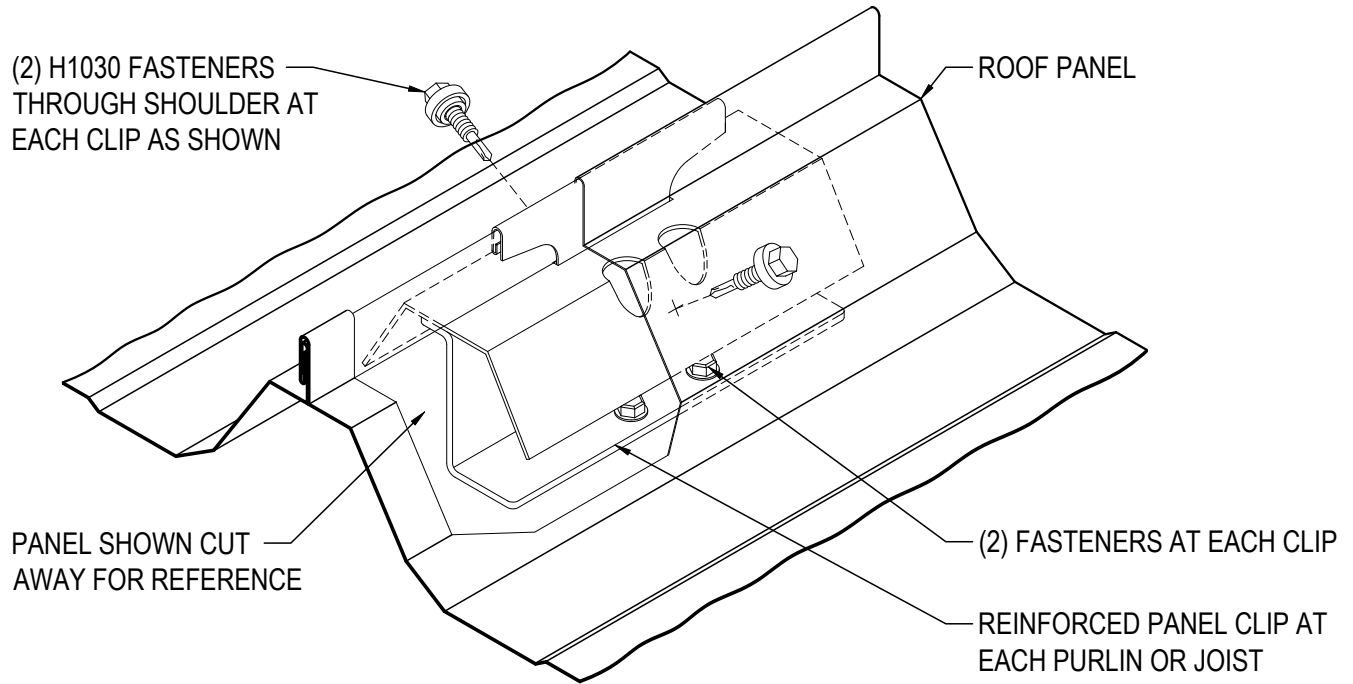
EA6016

Detailer Notes:

- 1) THIS DETAIL REQUIRED ON EVERY TRAPEZOIDAL ROOF PROJECT.
- 2) DETAILER NOTE: ATTRIBUTES WITH "SP" TAG DO NOT NEED TO BE FILLED OUT.

EA6018 - SS360 REINFORCED PANEL CLIP

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



CLIP FASTENER SELECTION

PURLIN APPLICATION

H1020 FOR INSULATION $\leq R-19$ (6 3/8")

H1025 FOR INSULATION $>R-19$ (6 3/8")
AND $\leq R-25$ (8")

JOIST APPLICATION

H1070 FOR INSULATION $\leq R-19$ (6 3/8")

H1075 FOR INSULATION $>R-19$ (6 3/8")
AND $\leq R-25$ (8")

IMPORTANT NOTE:

IF JOIST TOP CHORD GAP EXCEEDS PANEL CLIP FASTENER LOCATIONS, ALTERNATE PANEL CLIPS TO OPPOSING CHORD ANGLES TO PREVENT LOADING JOIST TO ONE SIDE.

OTHER FASTENERS AND INSULATION NOT SHOWN FOR CLARITY

REINFORCED CLIPS	
PART #	PART DESCRIPTION
S3PC-1R	SHORT CLIP - REINFORCED
S3PC-2TR	TALL CLIP - REINFORCED

SS360 REINFORCED PANEL CLIP

FACTORY MUTUAL APPROVED

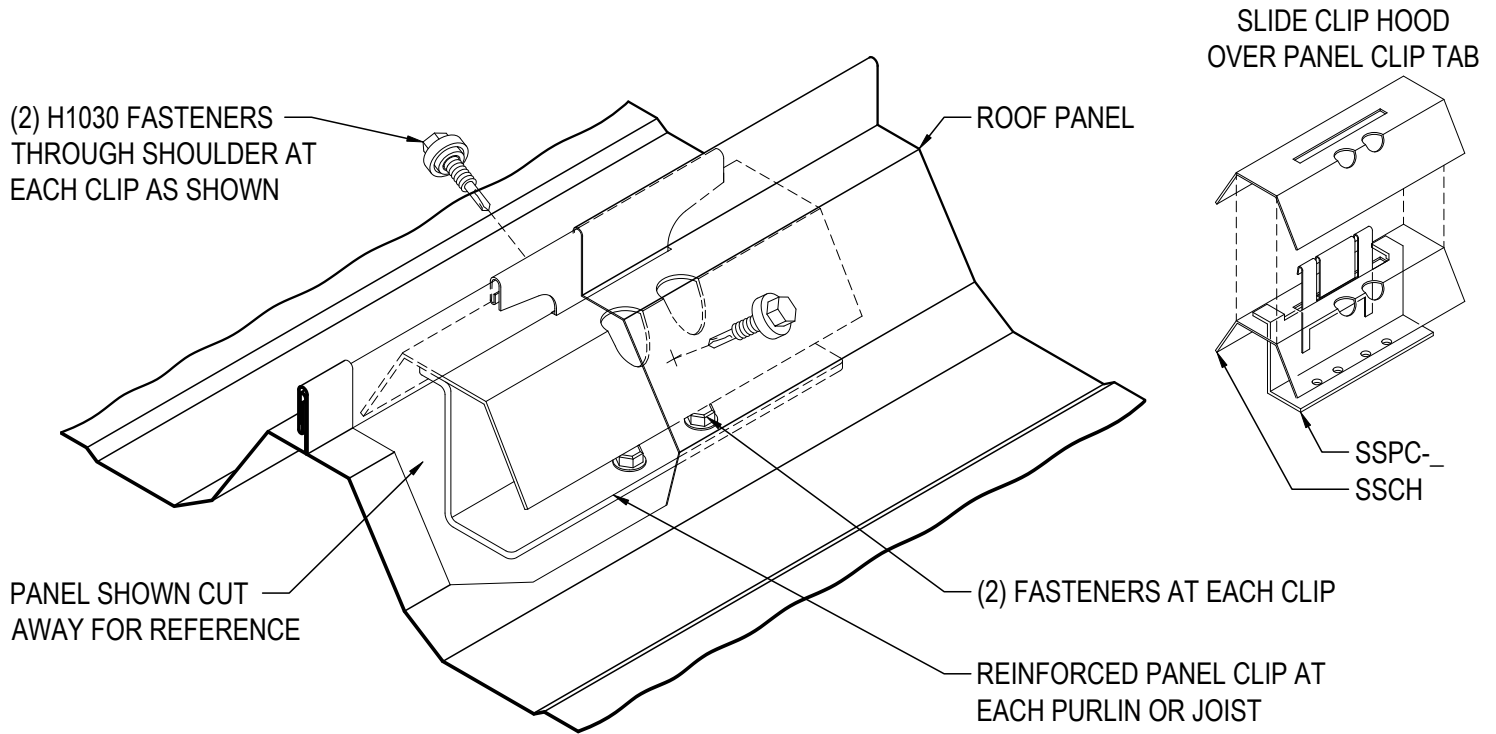
EA6018

Detailer Notes:

1) THIS DETAIL REQUIRED ONLY ON FM RATED PROJECTS WITH 24GA PANEL. IF 22GA PANEL IS USED THE REINFORCED CLIP IS NOT REQUIRED. REFERENCE THE PRAC MANUAL.

EA6019 - SSII REINFORCED PANEL CLIP

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



CLIP FASTENER SELECTION

PURLIN APPLICATION

H1020 FOR INSULATION ≤R-19 (6 3/8")

H1025 FOR INSULATION >R-19 (6 3/8")
AND ≤R-25 (8")

JOIST APPLICATION

H1070 FOR INSULATION ≤R-19 (6 3/8")

H1075 FOR INSULATION >R-19 (6 3/8")
AND ≤R-25 (8")

IMPORTANT NOTE:

IF JOIST TOP CHORD GAP EXCEEDS PANEL CLIP FASTENER LOCATIONS, ALTERNATE PANEL CLIPS TO OPPOSING CHORD ANGLES TO PREVENT LOADING JOIST TO ONE SIDE.

OTHER FASTENERS AND THERMAL BLOCKS AND INSULATION NOT SHOWN FOR CLARITY

STANDARD CLIPS	
PART #	PART DESCRIPTION
SSPC-1	SHORT CLIP
SSPC-2T	TALL CLIP

SSII REINFORCED PANEL CLIP

REINFORCED CLIP REQUIRED AS SHOWN ON PLAN

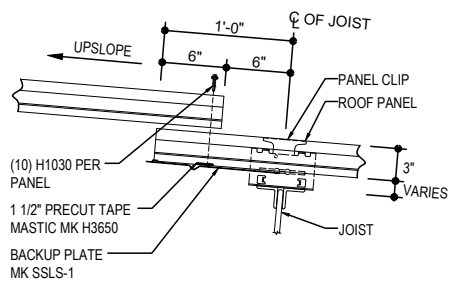
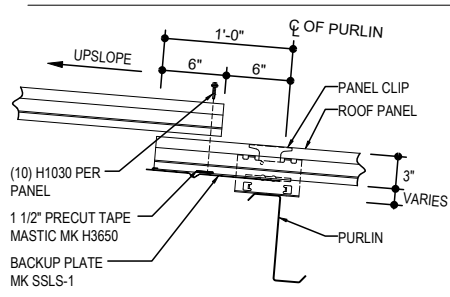
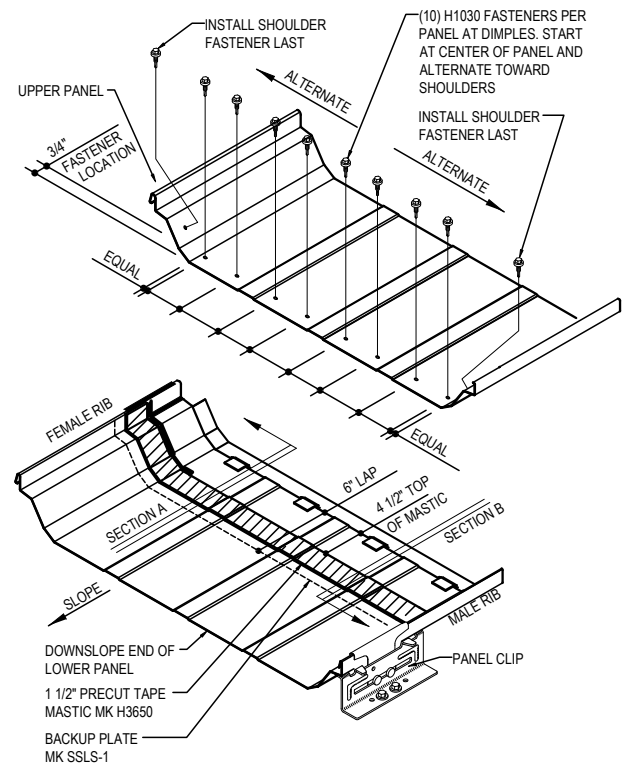
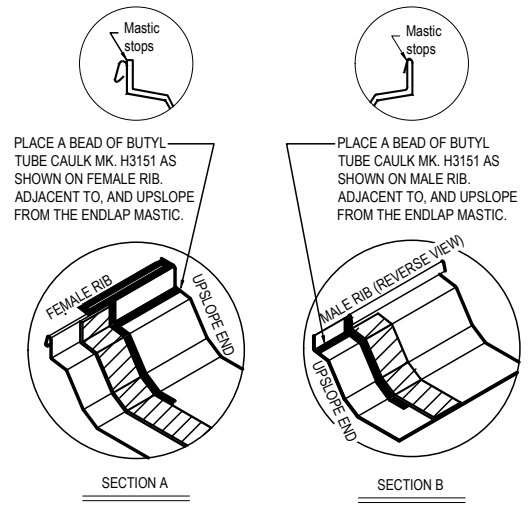
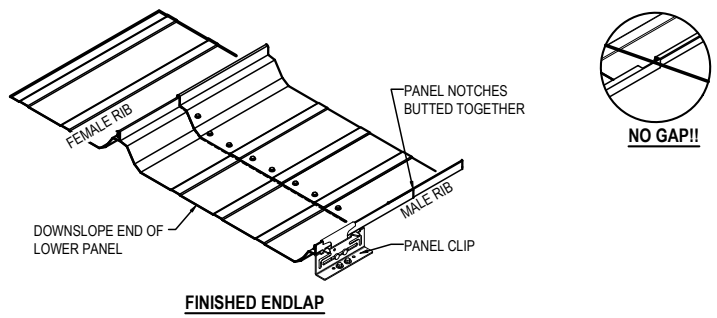
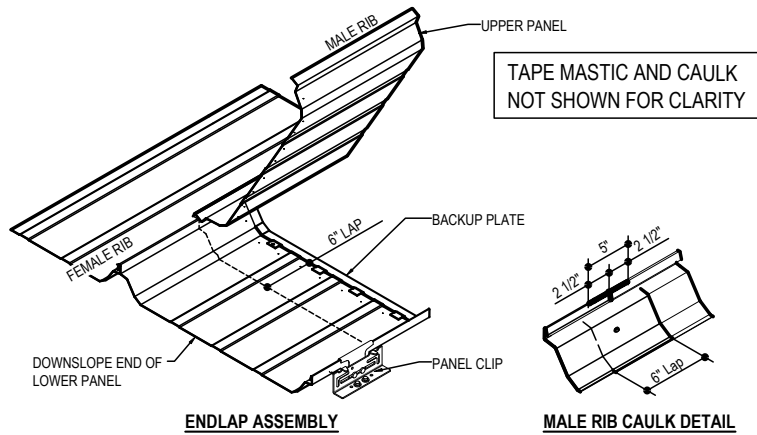
EA6019

Detailer Notes:

- 1) THIS DETAIL REQUIRED ONLY PER DESIGN.

EA6020 - SS360 PANEL ENDLAP

Download the DWG file by clicking here.



ERECTION NOTES:
PROPER PLACEMENT OF ENDLAP MASTIC IS CRITICAL TO WEATHER-TIGHTNESS OF ROOF AND ENDLAPS. WIPE DRY AND CLEAN THE PANEL SURFACES.

MARK LOWER PANEL AT 4" FOR TOP OF MASTIC AND 6" FOR LAP LOCATION. (DO NOT USE PENCIL) SLIDE BACKUP PLATE ONTO LOWER PANEL.

APPLY PRECUT TAPE MASTIC, START AT CORNER OF MALE RIB AND FINISH AT TOP OF FEMALE RIB. LEAVE PAPER BACKING ON MASTIC UNTIL UPPER PANEL HAS BEEN PLACED. MASTIC WILL NOT COVER DIMPLES OF LOWER PANEL.

APPLY BUTYL CAULK UPSLOPE OF TAPE MASTIC IN RIB LOCATIONS AS SHOWN. (BOTH MALE AND FEMALE RIBS)

AFTER ALL SEALANTS ARE IN PLACE, HOOK THE UPPER PANEL ONTO PREVIOUS PANEL, ALIGNING PANEL ALONG THE 6" LAP MARK ON LOWER PANEL. BOW THE PAN OF THE UPPER PANEL UP AND TUCK THE MALE RIB UNDER THE HOOK OF THE LOWER PANEL. **NOTE: THE NOTCHES MUST BUTT TIGHT TO AVOID A POTENTIAL LEAK. NO GAPI!** PEEL PAPER BACKING OFF MASTIC AND FASTEN ENDLAP AS SHOWN. FASTENERS MUST PASS THROUGH MASTIC.

PRIOR TO INSTALLING NEXT LOWER PANEL, CAULK THE MALE LEG ENDLAP NOTCH AREA WITH BUTYL CAULK AS SHOWN ABOVE.

REPEAT PROCESS SUBSEQUENT ENDLAPS.

PANEL ENDLAP DETAIL
ENDLAP DETAIL WITH STRAIGHT OR STAGGERED ENDLAPS (SEE ROOF SHEETING PLAN)
NOTE: INSULATION AND THERMAL BLOCKS NOT SHOWN FOR CLARITY

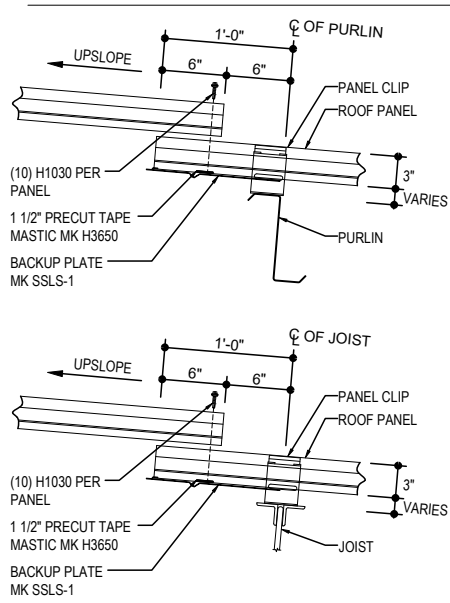
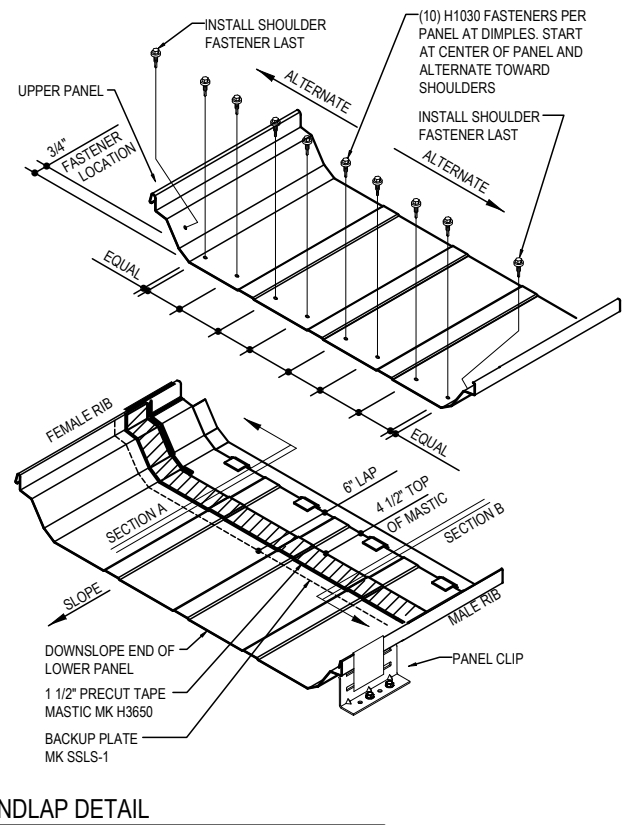
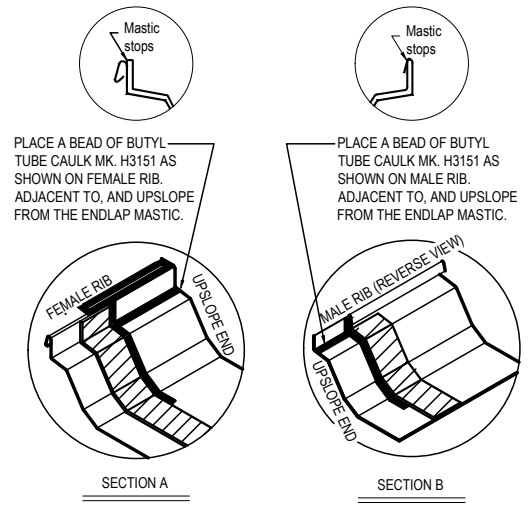
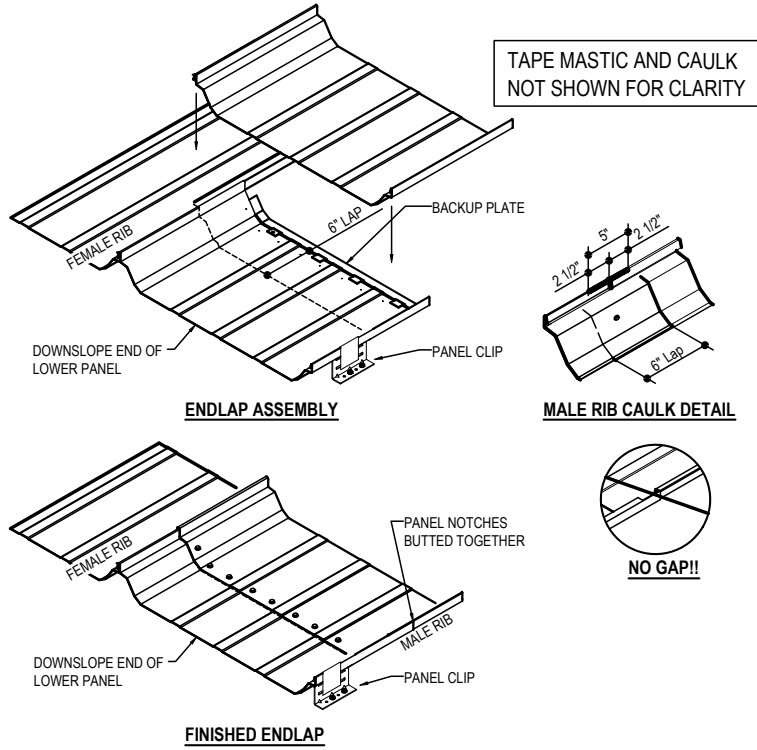
EA6020

Detailer Notes:

- 1) THIS DETAIL IS REQUIRED ON EVERY PROJECT WITH TRAPEZOIDAL ROOF PANEL WITH ENDLAPS.
- 2) TURN ON THE CORRECT LAYER BASED ON THE SPECIFIC TRAPEZOIDAL PANEL PROFILE AND TURN OFF THE PANEL PROFILES NOT USED.
- 3) THIS STANDARD DETAIL IS APPROVED FOR MIAMI-DADE USE. ALTERATIONS TO THIS DETAIL MAY IMPACT APPROVAL.

EA6020 - SSII PANEL ENDLAP

Download the DWG file by clicking here.



ERECTION NOTES:
PROPER PLACEMENT OF ENDLAP MASTIC IS CRITICAL TO WEATHER-TIGHTNESS OF ROOF AND ENDLAPS. WIPE DRY AND CLEAN THE PANEL SURFACES.
MARK LOWER PANEL AT 4" FOR TOP OF MASTIC AND 6" FOR LAP LOCATION. (DO NOT USE PENCIL) SLIDE BACKUP PLATE ONTO LOWER PANEL.
APPLY PRECUT TAPE MASTIC, START AT CORNER OF MALE RIB AND FINISH AT TOP OF FEMALE RIB. LEAVE PAPER BACKING ON MASTIC UNTIL UPPER PANEL HAS BEEN PLACED. MASTIC WILL NOT COVER DIMPLES OF LOWER PANEL.
APPLY BUTYL CAULK UPSLOPE OF TAPE MASTIC IN RIB LOCATIONS AS SHOWN. (BOTH MALE AND FEMALE RIBS)
AFTER ALL SEALANTS ARE IN PLACE, HOOK THE UPPER PANEL ONTO PREVIOUS PANEL, ALIGNING PANEL ALONG THE 6" LAP MARK ON LOWER PANEL. BOW THE PAN OF THE UPPER PANEL UP AND TUCK THE MALE RIB UNDER THE HOOK OF THE LOWER PANEL. **NOTE: THE NOTCHES MUST BUTT TIGHT TO AVOID A POTENTIAL LEAK. NO GAPI!** PEEL PAPER BACKING OFF MASTIC AND FASTEN ENDLAP AS SHOWN. FASTENERS MUST PASS THROUGH MASTIC.
PRIOR TO INSTALLING NEXT LOWER PANEL, CAULK THE MALE LEG ENDLAP NOTCH AREA WITH BUTYL CAULK AS SHOWN ABOVE.
REPEAT PROCESS SUBSEQUENT ENDLAPS.

PANEL ENDLAP DETAIL
ENDLAP DETAIL WITH STRAIGHT OR STAGGERED ENDLAPS (SEE ROOF SHEETING PLAN)
NOTE: INSULATION AND THERMAL BLOCKS NOT SHOWN FOR CLARITY

EA6020

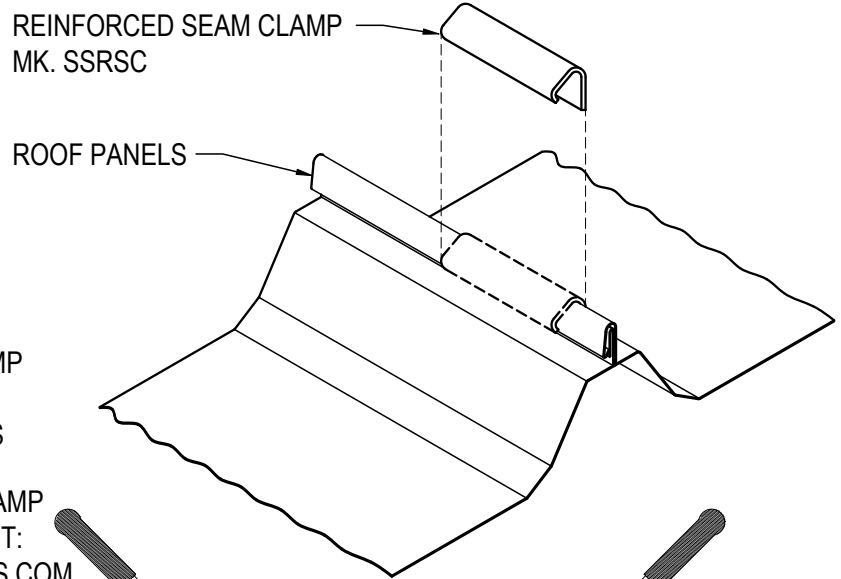
Detailer Notes:

- 1) THIS DETAIL IS REQUIRED ON EVERY PROJECT WITH TRAPEZOIDAL ROOF PANEL WITH ENDLAPS.
- 2) TURN ON THE CORRECT LAYER BASED ON THE SPECIFIC TRAPEZOIDAL PANEL PROFILE AND TURN OFF THE PANEL PROFILES NOT USED.

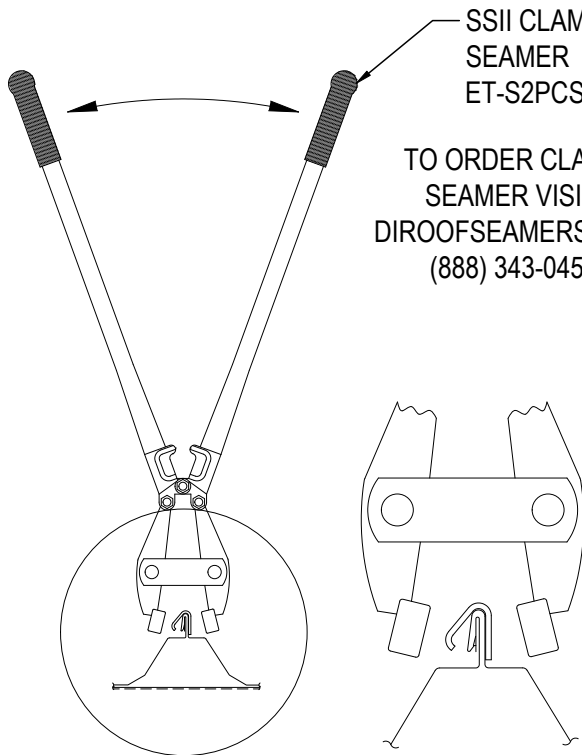
EA6029 - SSII REINFORCED SEAM CLAMP

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

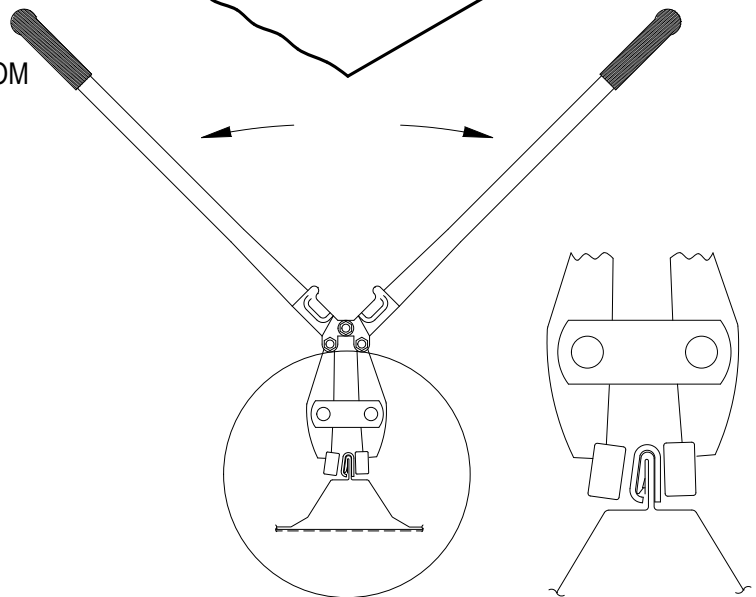
AFTER PANELS HAVE BEEN COMPLETELY INSTALLED AND SNAPPED TOGETHER, INSTALL REINFORCING CLAMP AT DESIGNATED LOCATIONS. USE THE CLAMP SEAMER AS SHOWN TO CRIMP THE CLAMP ONTO THE PANEL SEAM.



SSII CLAMP SEAMER ET-S2PCS
TO ORDER CLAMP SEAMER VISIT:
DIROOFSEAMERS.COM
(888) 343-0456



STEP 1
POSITION SEAMER OVER CLAMP



STEP 2
OPEN HANDLES TO CRIMP CLAMP TO SEAM

SSII REINFORCED SEAM CLAMP

REINFORCED SEAM CLAMP REQUIRED AS SHOWN ON PLAN

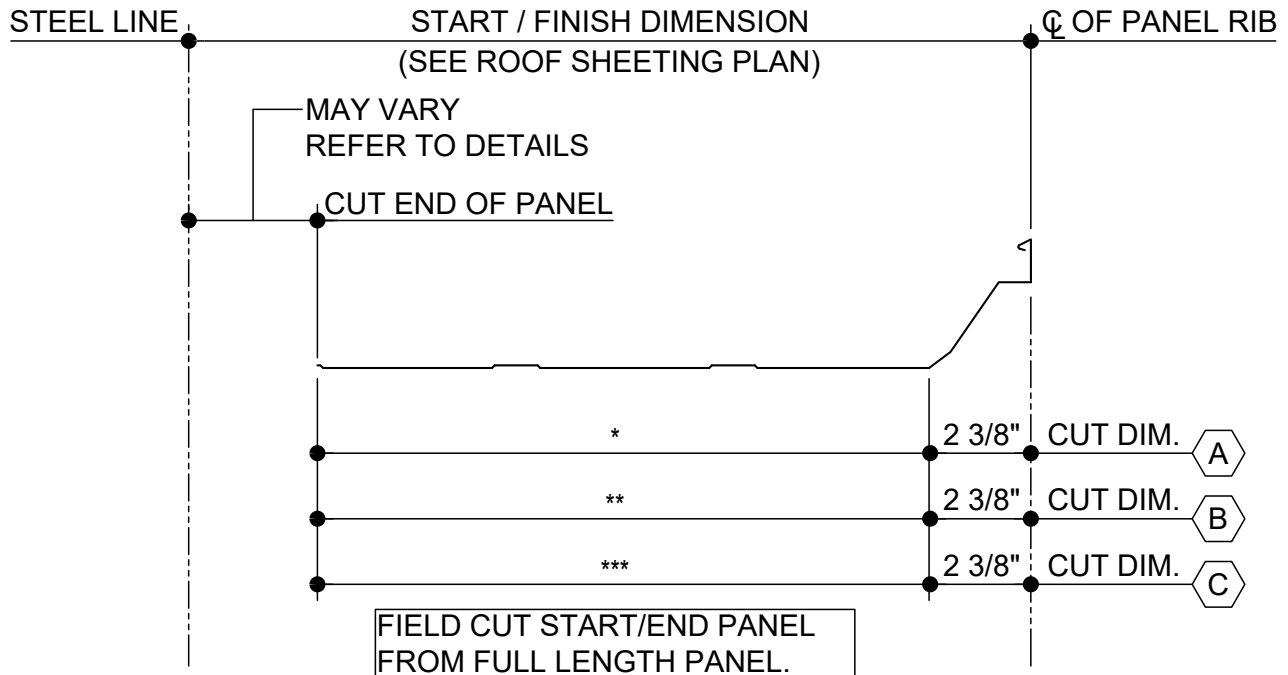
EA6029

Detailer Notes:

- 1) THIS DETAIL REQUIRED ONLY PER DESIGN.

EA6035 - SS360 START / FINISH PANEL WIDTH DETAIL

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



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.

EA6035

Detailer Notes:

- 1) THIS DETAIL IS REQUIRED ON EVERY TRAPEZOIDAL ROOF PROJECT.

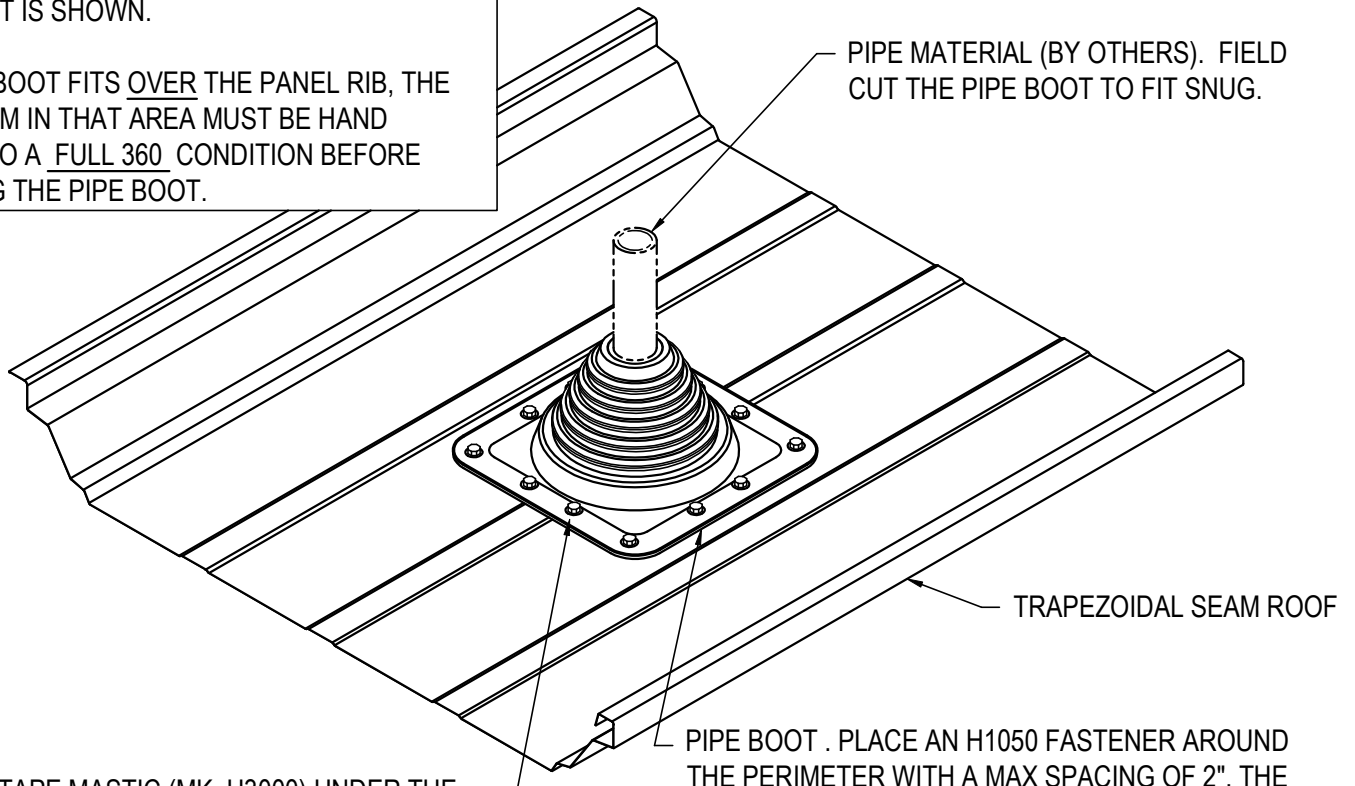
EA6200 - PIPE BOOT

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

NOTES:

1.) IF PIPE BOOT FITS BETWEEN THE MAJOR RIBS, IT IS RECOMMENDED TO ROTATE THE PIPE BOOT 45° FROM WHAT IS SHOWN.

2.) IF PIPE BOOT FITS OVER THE PANEL RIB, THE PANEL SEAM IN THAT AREA MUST BE HAND CRIMPED TO A FULL 360 CONDITION BEFORE INSTALLING THE PIPE BOOT.



PLACE 3/4" TAPE MASTIC (MK. H3000) UNDER THE FULL PERIMETER OF THE PIPE BOOT. CAULK AROUND THE PERIMETER WITH TUBE CAULK (MK. H3152) TO CREATE A WEATHERTIGHT SEAL.

PIPE BOOT . PLACE AN H1050 FASTENER AROUND THE PERIMETER WITH A MAX SPACING OF 2". THE FASTENERS MUST PENETRATE THE TAPE MASTIC TO CREATE AN EFFECTIVE SEAL. (PIPE BOOT BASE MAY BE SQUARE AS SHOWN OR ROUND).

PIPE BOOT DETAIL

PIPE BOOT PART NUMBERS

- (#3) H3500 1/4"-5" DIAMETER
- (#5) H3510 4 1/4"-7 1/2" DIAMETER
- (#8) H3520 7"-13" DIAMETER

EA6200

Detailer Notes:

- 1) N/A