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VERTICAL RIB ROOF PANELS

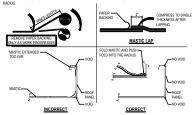
EA3010 - VERTICAL RIB GENERAL NOTES

Download the DWG file by clicking here.

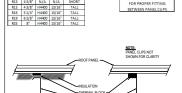
DESIGN AND PERFORMANCE CRITERIA

ROOF PANELS ARE OFTEN PROVIDED BY MBS. IN THIS CASE, GLIE PAINTED TO MATCH THE ROOF COLOR AS A STANDARD.

MASTIC APPLICATION



THERMAL BLOCKS



ROOF SYSTEM COMPONENT WITH DETAILING



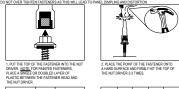
FIELD CUTTING PANELS

INLY METAL SHAVINGS THAT ARE CREATED NEED TO BE CLEANED FROM THE PANEL TO PREVENT SCRATCHING NIDLOR CORROSION. THE MANUFACTURER WILL NOT ACCEPT CLAIMS FOR DAMAGEDETERIORATION DUE TO USE OF



FASTENER INSTALLATION

SOCKET EXTENSIONS (4° OR 6°) ARE RECOMMENDED TO BE USED FOR INSTALLING PANEL CLIP FASTENERS TO MAINTAIN VERTICAL FASTENER INSTALLATION.





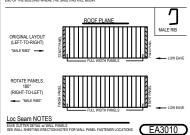








ROOF SHEETING DIRECTION



Detailer Notes:

1) THIS DETAIL REQUIRED ON EVERY VERTICAL RIB ROOF PROJECT.

: 10.14.22 (2020-039) **CERTIFIED ERECTION DETAILS** Detail Size (W x H): 4 x 3 Issued



VERTICAL RIB ROOF PANELS

EA3011 - VERTICAL RIB PANEL INSTALLATION

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BASIC INSTALLATION SEQUENCE

THE FOLLOWING STEPS OUTLINE THE BASIC INSTALLATION OF THE ROOF SYSTEM. REFERENCE THE SPECIFIC DETAILS WITHIN THIS ERECTION 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.

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
THE START PANEL IS SUPPLIED AS A FULL SHEET AND WILL NEED TO BE CUT. REFER TO THE ROOF SHEETING PLAN
THE START PANEL
TH THE START PAREL IS SUPPLEED AS A FULL START FAIR WITH THE STORE OF THE COST THE FORM THE FORM

INTERMEDIATE PANEL & MODULARITY

THE INTERMEDIATE PANELS (FULL PANELS) SHOULD BE INSTALLED BY ROLLING THE PANEL INTO IT ACE ENQUIRING THE SEAM IS FULLY ENGAGED. SECURE THE PANELS WITH PANEL CUPS AND THE LOW EAVE ACROSS THE ROOF. IT IS RECOMMENDED TO INSTALL THE OUTSIDE CLOSINE AT THE HIGH EAVE IRDIDE AS THE ROOF PROGRESSES. THIS WILL HELP MAINTAIN MODULARITY, (REFERENCE HIGH EAVE) RIDDE DETAILS.

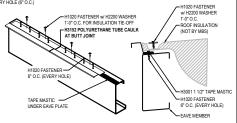
FINISH TANKS.

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

TRM 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 I CHOLL INFO MADDING ON THE OF EAST BEHABER HYDOR TO INSTALLING EAVE PLATE. INSTALL EAVE PLATE BY FASTENING SEVERY HOLE TO EAVE MEMBER (9° CC.) PRINGET OR INSULATION BEING INSTALLED. SECURE INSULATION WITH FASTENER A INSULATION RETAINER WASHER. NOTE: IF NO ROOF INSULATION IS USED SECURE EAVE PLATE IN EVERY HOLE (9° CC.)

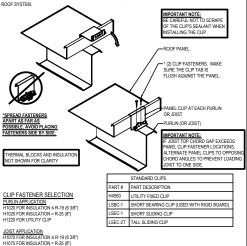


NOTE: H1020/H1070 (PURLIN/JOIST) FASTENER w/ H2200 WASHER 1'-0" O.C. FOR INSULATION TIE-OFF PROVIDED AT HIGH SIDE / RIDGE

TALL EAVE PLATE EPS108 BASIC EAVE / GUTTER

PANEL CLIP INSTALLATION

BEFORE INSTALLING THE PANEL CLIP, FEEL FOR THE SUPPORT MEMBER BELOW THE INSULATION, ALION CLIP CENTREBED OVER THE SUPPORT MEMBER AND ROLL CLIP OVER THE MALE HOOK OF THE PANEL FASTEN CLIP WIT FASTENERS AS SPECIFIED IN THE DETAILS BASED ON THE SUPPORT MEMBER AND INSULATION UTILIZED FOR THE

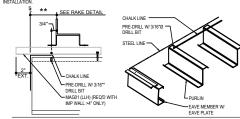


RAKE ANGLE / RAKE CLIP PREPARATION

PRIOR TO INSTALLING THE ROOF INSULATION THE SECONDARY MEMBER WILL NEED TO BE PRE-DRILLED FOR THE RAKE CLIPS. PRE-DRILLING WILL MAKE INSTALLATION OF THE RAKE AND CLIPS MUCH EASIER AFTER INSULATION IS IN PLACE DO NOT NOTALL RAKE CLIPS UNTIL INSULATION (IF REQUIRED) IS INSTALLED. <u>RAKE CLIP IS INSTALLED ON TOP</u> OF THE INSULATION.

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

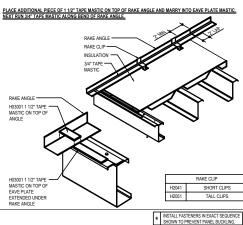
NOTE: IMP WALL PANEL >4" THICK REQUIRE ANGLES ON TOP OF SECONDARY MEMBER EXTENDED BEYOND STEEL LINE TO ALLOW FOR RAKE CLIP ATTACHMENT. ATTACH WITH (1) HI020 / HI070 TO PURLIN / JOIST PRIOR TO RAKE CLIP INSTALLATION.

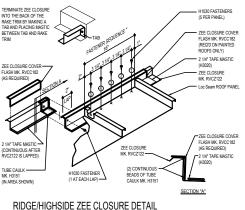


RAKE ANGLE / RAKE CLIP INSTALLATION

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

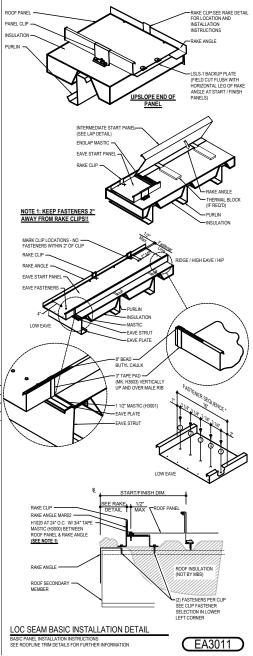
SLIDE RAME CLIPS ONTO RAME AND FIP OR TO SECURING HE RAME CLIPS TO THE SECONDARY MEMBERS. PLACE
THE RAME CLIPS AND ANGLE OVER THE INSULATION USING A SMALL DRIFT PIN TO LOCATE THE PRE-DRILLED HOLE
INSTALL RASTENER THROUGH OPPOSITE CLIP HOLE INTO SECONDARY MEMBER REMOVE DRIFT PIN AND INSTALL
SECOND FASTENER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





BACKUP PLATE INSTALLATION

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



Detailer Notes:

1) THIS DETAIL REQUIRED ON EVERY VERTICAL RIB ROOF PROJECT.

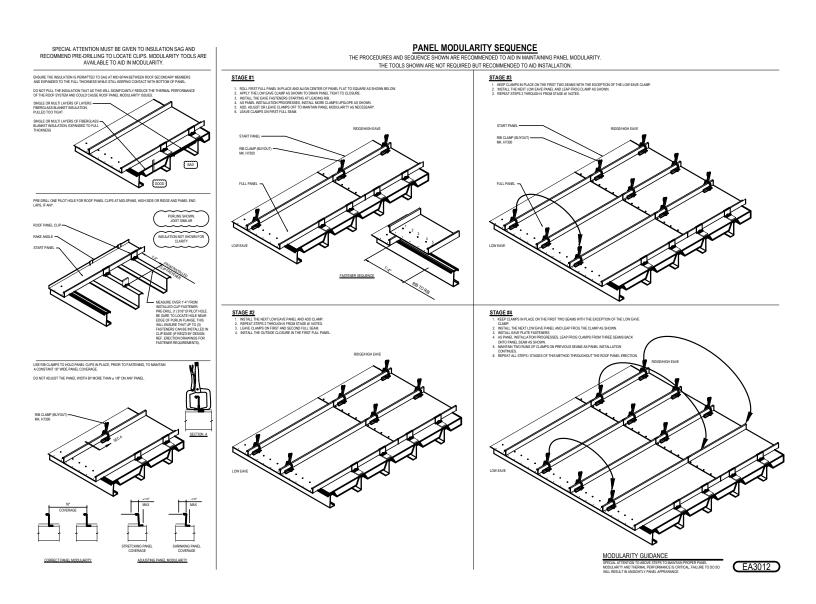
: 10.14.22 (2020-039) **CERTIFIED ERECTION DETAILS** Detail Size (W x H): 3 x 3 Issued



VERTICAL RIB ROOF PANELS

EA3012 - VERTICAL RIB MODULARITY GUIDANCE

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Detailer Notes:

1) THIS DETAIL REQUIRED ON EVERY VERTICAL RIB ROOF PROJECT.

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VERTICAL RIB ROOF PANELS

EA3015 - VERTICAL RIB ROOF CRIMPING NOTES

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IMPORTANT NOTE:

SPECIALIZED SEAMING AND HAND CRIMPING TOOLS
THE EMISSIEN SEAM OF THE ROOF PANELS REQUIRES SPECIAL SEAMING TOOLS THAT ARE AVAILABLE ONLY THROUGH THE MBS. CAUTION: THE USE OF OTHER SEAMING / CRIMPING EQUIPMENT WILL RESULT IN FAULTY AND / OR DAMAGED SEAMS AND SHALL INVALIDATE ANY OF THE ROOF SYSTEM'S MATERIAL AND WEATHER TIGHTNESS WARRANTIES.

SEAMING TOOL SOURCE
THE SEAMING TOOLS ARE PROVIDED BY MISS IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORDER
THOUGHBUTS. CONTACT YOUR SERVICE REPRESENTATIVE TO PURCHASE NECESSARY CRIMPING TOOLS. CONTACT
THE SEAMER RENTAL COMPANY FOR RENTAL INFORMATION OF THE MECHANICAL SEAMER IF REQUIRED.

CRIMPING & SEAMING REQUIREMENTS

THE DESIGN OF THIS STRUCTURE REQUIRES SEAMING TO MEET DESIGN AND CODE REQUIREMENTS. SEE THE SEAMING PLAN FOR ROOF PLANE SPECIFIC SEAMING REQUIREMENTS. THERE ARE THE TWO SEAM TYPES FOSSIBLE WITH THE RISE GLO SEEM AS NOTED BELOW. ALL OF THESE SEAM TYPES CAN BE ACHIEVED WITH THE AVAILABLE CRIMPERS. IT IS RECOMMENDED TO RENT A MECHANICAL SEAMER TO AID IN THE SEAMING PROCESS.

NBG Loc Seam 90
THE Loc Seam 90 SEAM REQUIRES HAND CRIMPING THE ROOF PANEL WITH THE MANUAL SEAMING TOOL AT THE
STARTING FAVE OR RIDGE END OF THE PANELS, AND AT THE END LAPS. ONCE THE HAND CRIMPING HAS BEEN
COMPLETED, THEN SEAM THE FULL LENGTH OF THE ROOF PANELS WITH THE MOTORIZED SEAMING MACHINE.

NIGOL LOS SAIN 300.

THE LOS SAIN 300.

THE LOS SAIN SOS MAINS ACHIEVED BY RUNNING THE SINGLE DIRECTIONAL SEAMER OVER THE ENTIRE ROOF.

THE ERECTOR MUST FIRST HAND CRIMP ENTIRE ROOF PAREL IN THE LOS SAIN 90 SEAM WITH THE MANUAL.

SEAMING TOOL. BEFORE THE SEAMER IS LOCKEDON THE LOW BOIL OF THE PAREL MUST SEE HAND CRIMPED

INTO A NOS LOS SAIN JUTILIZING THE HAND CRIMPED THAT IS SUPPLIED IN THE SEAMER WIT. THIS

WILL ENABLE YOU'LD LOCK THE SEAMER ONTO THE PARM IS SAIM. THE SAIL MET HE FULL LENGTH OF THE ROOF

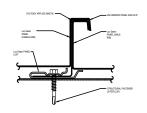
NBG Loc Seam 90 SEAM



NBG Loc Seam 360 SEAM



CHECK PANEL ASSEMBLY



SIDE LAD FITUP

BEFORE SEAMING, INSPECT THE FULL LENGTH OF EACH ROOF PANEL SIDE LAP, CHECK THAT THE TWO PANELS ARE
PROPERLY HAND CRIMPED AT ALL CLIP LOCATIONS, LOW EAVE, HIGH EAVE AND END LARS. ANY CONDITIONS WHERE
PROPERLY HAND CRIMPED PROPERLY WINST BE CORRECTION SERVED HIGH PRINT OF SEAM THE ROOF PANELS.
UN-SEAMED ROOF PANELS CANNOT PROVIDE THEIR DESIGNED WIND LOAD AND WEATHER RESISTANCE.

CLIP ALIGNMENT
BEFORE CRIMPING AND J OR SEAMING, INSPECT THAT EACH ROOF PANEL CLIP IS PROPERLY ENGAGED IN THE SIDE
A RASSEMBLY, ANY DISPLACED CLIPS MUST BE CORRECTED BEFORE ATTEMPTING TO CRIMP! SEAM THE ROOF
PANELS, PANEL CLIPS THAT ARE NOT PROCERLY ENGAGED AND ALIGNED CAN CAUSE FAULTY CRIMP! SEAM AND
OLICIFOTHABLE SEAM APPEARANCE. THE MISS NOT RIFE SEAMER RENTAL COMPANY CAN BE HELD RESPONSIBLE
FOR ANY CONCERNS RELATED TO IMPROPERLY ALIGNED CLIPS.

SEAN DIMAGE

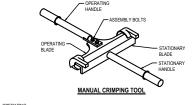
SEGRE CRAIMING AND JOR SEAMING, INSPECT THAT EACH ROOF PANEL MALE AND FEMALE ARE FREE FROM
DISTORTION AND KINKS WHICH CAN LEAD TO DIFFICULTY AND JOR DIAMAGE TO THE PANEL WHILE ATTEMPTING TO
CRIMP JESAMT HE PANEL ANY DISTORTIONS JAKINS WIST SE CORRECTED EFFOR ATTEMPTING TO CRIMP JESAMT
THE PANELS. THE MISS NOR THE SEAMER RENTAL COMPANY CAN BE HELD RESPONSIBLE FOR ANY CONCERNS
RELATED TO DAMAGE CAUSED IN THE FELD.

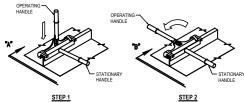
MANUAL CRIMPING TOOL OPERATION FOR Loc Seam 90 SEAM

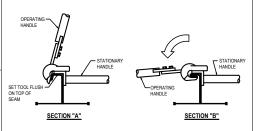
ASSEMBLE THE SEAMING TOOL
WHEN RECEIVED, THE MANUAL CRIMPING TOOL MAY BE DISASSEMBLED. ASSEMBLE THE HANDLE TO THE TOOL BODY WITH THE PROVIDED BOLTS.

TOOL ORIENTATION TO SEAM
ORENT THE TOOL TO FIT CORRECTLY ON THE ROOF PANEL SEAM (SEE SECTION A BELOW). THE STATIONARY HANDLE
MINST BE IN THE HORIZONTAL POSITION AND THE OPERATING HANDLE MUST BE ROTATED UP TO THE OPEN OR
VERTICAL POSITION

FORMING THE SEAM
WHEN THE TOOL IS CORRECTLY POSITIONED ON THE PANEL, PUSH THE STATIONARY BLADE SOLIDLY AGAINST THE
TOP OF THE SEAM, WHILE HOLDING THE STATIONARY HANDLE IN THE HORIZONTAL POSITION, ROTATE THE
OPERATING HANGLE DOWN TO THE HORIZONTAL POSITION. THIS WILL FORM THE SEAM (SEE SECTION B BELOW).







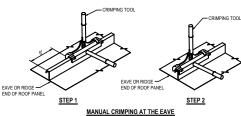
MANUAL CRIMPING TOOL OPERATION FOR Loc Seam 90 SEAM CONT.

TOOL POSITION ON THE ROOF
WHEN HAND SEAMING AT THE LOW EAVE, RIDGE END, END LAP AND ALL ROOF CLIP LOCATIONS. THE SEAMING MUST

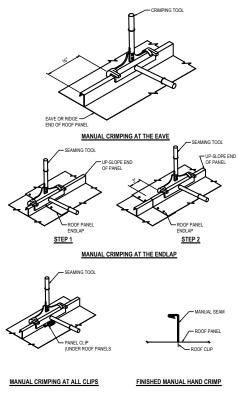
NEED 1: POSITION THE CRIMPING TOOL AS SHOWN BELOW IN THE VARIOUS AREAS OF THE ROOF. ROTATE THE MOVEABLE HANDLE DOWN TO FORM A Loc Seam 90 SEAM. RELEASE HANDLE.

STEP 2: RE-POSITION THE CRIMPING TOOL AS SHOWN BELOW AND REPEAT STEP 1.

CHECKING THE FINISHED SEAM ROTATE THE OPEN POSITION, REMOVE THE TOOL AND CHECK THAT THE SEAM IS RECTLY FORMED. AS SHOWN BI



ERECTOR NOTES:
THE ROOF SEAM PROFILE IS COMPLETE ONLY AFTER THE ENTIRE ROOF HAS BEEN MECHANICALLY SEAMED. IF YOUR
BUILDING HAS A VRTIG 1-390 SEAM, DO NOT SEAMCRIMP THE PANEL INTO A VRTIG 1-390 SEAM, 16" UP FROM THE LOW
EAVE. IF THE SEAM HAS BEEN FORMED INTO A VRTIG 1-390 SEAM, THE GUTTER BRACKET WILL NOT FIT UP PROPERLY.



EA3015

LOC SEAM HAND CRIMPING NOTES

Detailer Notes:

1) THIS DETAIL REQUIRED ON EVERY VERTICAL RIB ROOF PROJECT.

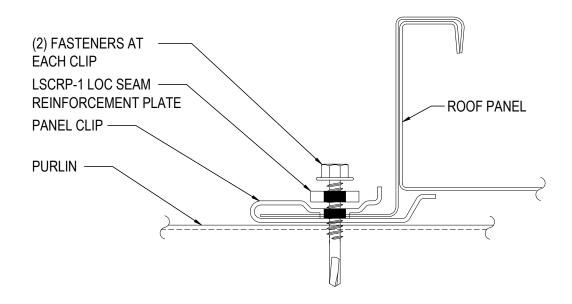
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VERTICAL RIB ROOF PANELS

EA3018 - LOC SEAM REINFORCEMENT PLATE

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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.

THERMAL BLOCKS AND INSULATION NOT SHOWN FOR CLARITY

REINFORCED CLIPS	
PART#	PART DESCRIPTION
LSEC-1	SHORT CLIP
LSEC-2T	TALL CLIP

LOC SEAM REINFORCEMENT PLATE

FACTORY MUTUAL APPROVED FM CLASS 1-120 @ 5'-0" PURLIN SPACING FM CLASS 1-180 @ 2'-6" PURLIN SPACING

EA3018

Detailer Notes:

1) THIS DETAIL REQUIRED ON FM 1-120 & 1-180 RATED PROJECTS. REFERENCE THE PRAC MANUAL.

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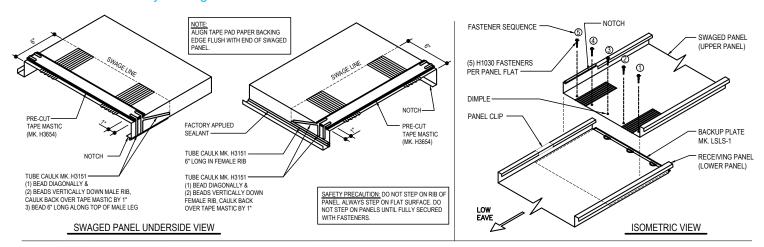
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VERTICAL RIB ROOF PANELS

EA3021 - VERTICAL RIB PANEL ENDLAP

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NOTE: ALL AREAS ON ALUMINUM COATED PANELS THAT REQUIRE MASTIC SHOULD BE WIPED CLEAN WITH A MILD ALL PURPOSE DETERGENT CLEANER BEFORE MASTIC APPLICATION.

1) WHEN ENDLAPS ARE REQUIRED THE LOWER 6 INCHES OF THE UPPER PANEL ARE SWAGED, WHICH ALLOWS FOR A BETTER LAP ON TO THE LOWER RECEIVING PANEL. THIS LAP WILL OCCUR APPROXIMATELY 12 INCHES UPSLOPE FROM A PURLIN OR JOIST RUN.

2) PRIOR TO SETTING THE SWAGED PANEL, INSTALL THE BACKUP PLATE ONTO THE LOWER RECEIVING PANEL AS SHOWN

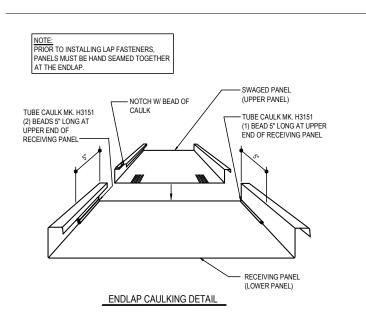
3) NEXT INSTALL A PIECE OF PRE-CUT TAPE MASTIC ACROSS THE WIDTH OF THE UNDERSIDE OF THE SWAGED PANEL BEGINNING AND ENDING AT THE VERTICAL SEAMS (LEGS). ALSO APPLY TUBE CAULK ON THE MALE AND FEMALE RIBS OF THE SWAGED PANEL AS SHOWN IN DETAIL ABOVE.

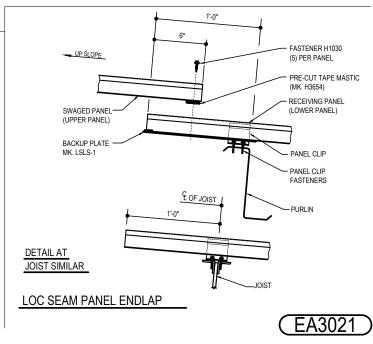
4) NEXT APPLY TUBE CAULK ALONG BOTH PANEL RIBS OF THE LOWER RECEIVING PANEL AS SHOWN IN THE ENDLAP CAULKING DETAIL.

5) INSTALL THE UPPER SWAGED PANEL. BOW PANEL IN THE MIDDLE DURING INSTALLATION TO AVOID SWIPING CAULK FROM THE VERTICAL LEGS OF THE PANEL AT THE ENDLAP.

6) NEXT SECURE THE LAP WITH (5) H1030, ROOF FASTENERS IN THE PRE-DIMPLED LOCATIONS.

7) HAND SEAM PANEL RIBS TOGETHER AT ENDLAP PRIOR TO MECHANICALLY SEAMING





Detailer Notes:

1) N/A

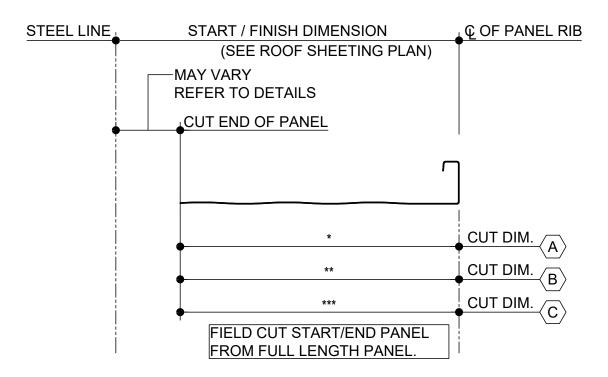
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VERTICAL RIB ROOF PANELS

EA3035 - 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.

EA6035

Detailer Notes:

1) THIS DETAIL IS REQUIRED ON EVERY VERTICAL RIB ROOF PROJECT.

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