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VERTICAL RIB ROOF PANELS

EA3010 - VERTICAL RIB GENERAL NOTES

Download the DWG file by clicking here.

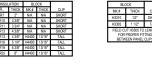
DESIGN AND PERFORMANCE CRITERIA

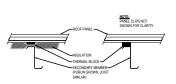
MASTIC APPLICATION





THERMAL BLOCKS





ROOF SYSTEM COMPONENT WITH DETAILING

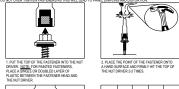
UILDING & PANEL PREPARATION

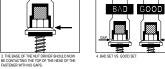
FIELD CUTTING PANELS

NY METAL SHAVINGS THAT ARE CREATED NEED TO BE CLEANED FROM THE PANEL TO PREVENT SCRATCHING ND/OR CORROSION. THE MANUFACTURER WILL NOT ACCEPT CLAIMS FOR DAMAGE/DETERIORATION DUE TO USE O

SPECIAL CONDITION AT A STRONG-BACK EAVE BEAM

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

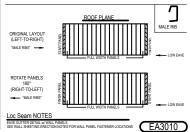












Detailer Notes:

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

: 02.06.23 (MR2023.03) **CERTIFIED ERECTION DETAILS** Detail Size (W x H): 4 x 3 Issued



VERTICAL RIB ROOF PANELS

EA3011 - VERTICAL RIB 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 ERECTION DRAWING SET FOR CONDITIONS SPECIFIC TO THIS PROJECT.

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
FOR START I FAMEL BOUNDESSONS AND RAKE DETAILS TO DETERNINE 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, LOPS ON LEADING EDOG
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 ENDLAP DETAIL FOR ATTACHMENT OF START PANEL(S) AT
RAKE ANGLE.

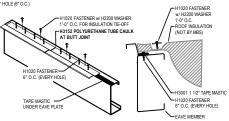
INTERMEDIATE PANEL & MODULARITY
THE INTERMEDIATE PANELS (FULL PANELS) SHOULD BE INSTALLED BY ROLLING THE PANEL INTO PLACE ENSURING
THE SEAM IS FULL YENGAGED. SECURE THE PANELS WITH PANEL CUPS AND THE LOW EAR EARDOSS THE ROOF. IT IS
RECOMMENDED TO INSTALL THE OUT SIDE OLSURE AT THE HIGH EAVE INDICE AS THE ROOF PROGRESSES. THIS
WILL HELP MAINTAIN MODULARITY, REFERENCE HIGH EAPER / RIOGE 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
FIELD CUT AND ROLLED INTO PLACE AND SECURED TO THE RAKE ANGLE SIMILAR TO THE START PANEL.

TRIN INSTALLATION
THIN INSTALLATION
THIN INSTALLATION CAN BE DONE AFTER THE ROOF PANELS ALL HAVE BEEN INSTALLED OR CAN BE INSTALLED AS ENOUGH PANELS HAVE BEEN INSTALLED FOR ATTROHIEM OF TRINS, (REFERENCE TRIM DETALS)

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 (F) O.C.) PRIOR TO INSULATION BEING INSTALLED. SECURE INSULATION WITH FASTENER & INSULATION RETAINER WASHER, NOTE: IF NO ROOF INSULATION IS USED SECURE EAVE PLATE IN EVERY HOLE (F) O.

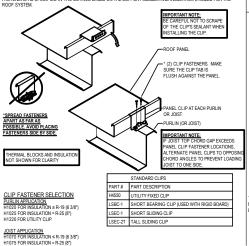


NOTE: H1020/H1070 (PURLINIJOIST) FASTENER w/ H2200 WASHER 1'-0" O.C. FOR INSULATION TIE-OFF PROVIDED AT HIGH SIDE / RIDGE

SHORT EAVE PLATE
EPS108 BASIC EAVE / GUTTER TALL EAVE PLATE

PANEL CLIP INSTALLATION

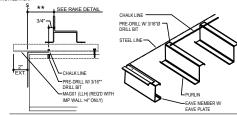
BEFORE INSTALLING THE PANEL CLIP, FEEL FOR THE SUPPORT MEMBER BELOW THE INSULATION, ALIGN CLIP CENTERED OVER THE SUPPORT MEMBER AND ROLL CLIP OVER THE MALE HOOK OF THE PANEL FASTEN CLIP WIT FASTENERS AS SPECIFIED IN THE DETAILS BASED ON THE SUPPORT MEMBER AND INSULATION UTILIZED FOR THE ROOF SYSTEM.



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 INSTALL RAKE CLIPS UNTIL INSULATION (IF REQUIRED) IS INSTALLED. **RAKE CLIP IS INSTALLED ON TOP**

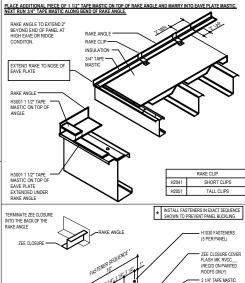
SNAP A CHALK LINE AS SHOWN BELOW FROM HIGH EAVE / RIDGE TO LOW EAVE. DRILL 3/16" Ø HOLE CENTERED ON SECONDARY MEMBER. THIS IS HELPS TO ALIGN THE START PANEL.

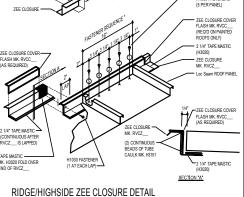


RAKE ANGLE / RAKE CLIP INSTALLATION

AFTER INSULATION IS IN PLACE AND PRIOR TO INSTALLING THE RAKE CLPS AND RAKE ANGLE APPLY 1 1/2" TAPE 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.

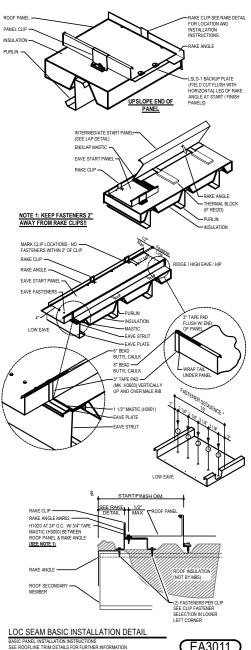
SLIDE RAKE CLIPS ONTO RAKE ANGLE PRIOR TO SECURING THE RAKE CLIPS TO THE SECONDARY MEMBERS. PLACE THE RAKE CLIPS AND ANGLE OVER THE INSLALATION LISTING A SMALL DRIFF THY TO LOCATE THE PRE-ORLICE IN IDLE INSTALL PASTEMENT FIROUGH OPPOSITE CLIP PICE IN INFO SCONDARY MEMBER. REMOVE DRIFT PIN AND INSTALL SECOND FASTEMENT OS EQUIPS CLIP (IN DITE (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 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 FLID CUT FLUSH WITH THE HORIZONTAL LEG OF THE RAKE ANGLE DO NOT EXTEND BACKUP PLATE ON TOP OF RAVE ANGLE.



(EA3011)

Detailer Notes:

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

Detail Size (W x H): 3 x 3 Revised: 07.27.23 (MR2023.08) **CERTIFIED ERECTION DETAILS**

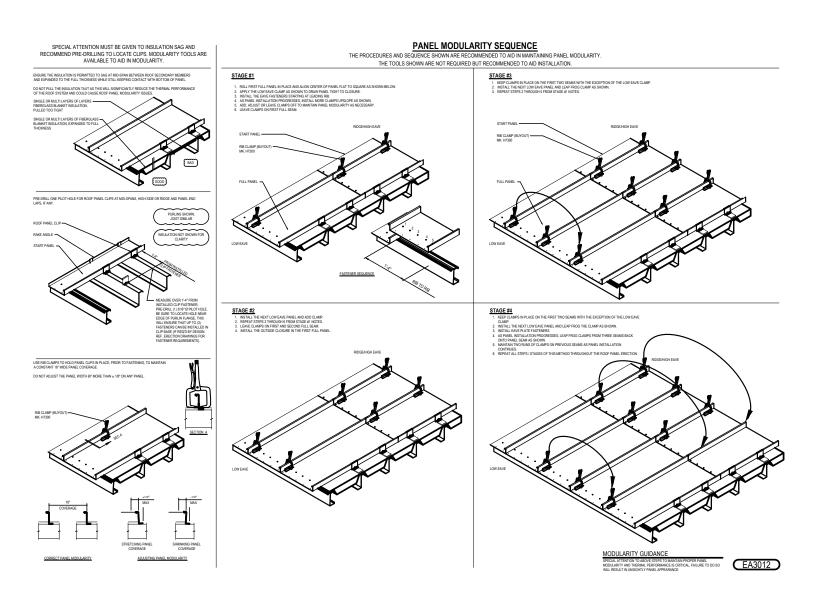
Revised By: BSS



VERTICAL RIB ROOF PANELS

EA3012 - VERTICAL RIB MODULARITY GUIDANCE

Download the DWG file by clicking here.



Detailer Notes:

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

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

Issued By: WME





VERTICAL RIB ROOF PANELS

EA3015 - VERTICAL RIB ROOF CRIMPING NOTES

Download the DWG file by clicking here.

IMPORTANT NOTE:

SPECIALIZED SEAMING AND HAND CRIMPING TOOLS
THE EMISSION 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 DAM SEAMS AND SHALL INVALIDATE ANY OF THE ROOF SYSTEM'S MATERIAL AND WEATHER TIGHTNESS WARRANTIES.

SEAMING TOOL SOURCE
THE SEAMING TOOLS ARE PROVIDED BY MBS IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORDER
THE SEAMING TOOLS ARE PROVIDED BY MBS IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORDER
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. I THERE ARE THE TWO SEAM TYPES FOSSIBLE WITH THE RIGHT GOT OF SHEAT 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 SEAM REQUIRES HAND CRIMPING THE ROOF PANEL WITH THE MANUAL SEAMING TOOL AT THE THE LOC Seam 90 SEAM REQUIRES HAND CRIMPING THE ROOF PANEL WITH THE MANUAL SEAMING TOOL AT THE STARTING EAVE 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.

NBO Loc Sans 380.

THE LOS SANS AS ACHEVED BY RUNNING THE SINGLE DIRECTIONAL SEAMER OVER THE ENTIRE ROOF
THE ERECTOR MIST FIRST HAND CRIMP ENTIRE ROOF PAILE. IN THE LOC SANS 90 SEAM WITH THE MANUAL
SEAMING TOOL. BEFORE THE SEAMER SLOCKED ON THE LOW BIOD OF THE PAILE MIST SHAWND CRIMPED
INTO A NGO LOC SANS 300 SEAM UTILIZING THE HAND CRIMPED THAT IS SUPPLIED IN THE SEAMER WIT. THIS
WILL ENABLE YOU'D LOCK THE SEAMER ONTO THE PRAIS SEAM. THE SAUL RENTAL THE FULL ENDRIFF OF THE ROOF

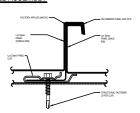
NBG Loc Seam 90 SEAM



NBG Loc Seam 360 SEAM



CHECK PANEL ASSEMBLY



SIDE LAP TITUP

BEFORE SEAMING, INSPECT THE FULL LENGTH OF EACH ROOF PANEL SIDE LAP, CHECK THAT THE TWO PANELS ARE
BEFORE SEAMING, INSPECT THE FULL LENGTH OF EACH ROOF PANEL SIDE LAP, CHECK THAT THE TWO PANELS ARE
PROPERLY HAND CRIMEPED ALL CLEIP CLEIP CHECK THE SEAM SEAM TO END LAPS. ANY CONDITIONS WHERE
THE PANEL IS NOT CRIMEPED PROPERLY MUST SEC CORRECTION SEFORM THE PRINT OF SEAM THE FOOR 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 A LIGNED CAN CAUSE FAULTY CRIMP! SEAM AND
OLICIFOTHANGE ESAM APPEARANCE. THE MISS NOT RIFE SEAMER RENTAL COMPANY CAN BE HELD RESPONSIBLE
FOR ANY CONCERNS RELATED TO IMPROPERLY ALIGNED CLIPS.

SEAD DAMAGE

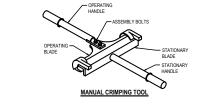
SECOND AND A SECOND A SECO

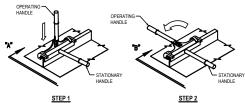
MANUAL CRIMPING TOOL OPERATION FOR Loc Seam 90 SEAM

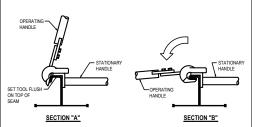
ASSEMBLE THE SEAMING TOOL
WHEN RECEIVED, THE MANUAL CRIMPING TOOL MAY BE DISASSEMBLED. ASSEMBLE THE HANDLE TO THE TOOL BODY

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 MINST 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 HANDLE 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

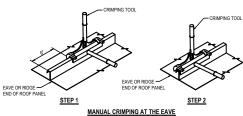
WHEN HAND SEAMING AT THE LOTT CALL, INSUCALLY, INC.

EDONE IN TWO STEPS.

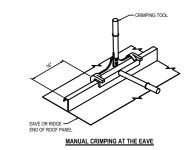
STEP 1, POSITION THE CRIMPING TOOL AS SHOWN BELOW IN THE VARIOUS AREAS OF THE ROOF. ROTATE THE MOVEABLE HANDLE DOWN TO FORM A Loc Seam 90 SEAM. RELEASE HANDLE.

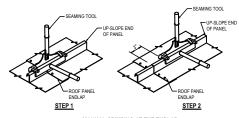
STEP 2: RE-POSITION THE CRIMPING TOOL AS SHOWN BELOW AND REPEAT STEP 1.

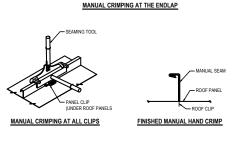
CHECKING THE FINISHED SEAM.
ROTATE THE OPERATING HANDLE TO THE OPEN POSITION, REMOVE THE TOOL AND CHECK THAT THE SEAM IS



ERECTOR NOTES.
THE ROOF SEAM PROFILE IS COMPLETE ONLY AFTER THE ENTIRE ROOF HAS BEEN MECHANICALLY SEAMED. IF
BUILDING HAS LOC SEAM 380 SEAM. DO NOT SEAM FORMET THE PANEL INTO A LOC SEAM 380 SEAM 16" UP FROM THE
LOW EAVE, OTHERWISE THE GUTTER BRACKET WILL NOT FIT UP PROPERLY.







LOC SEAM HAND CRIMPING NOTES

EA3015

Detailer Notes:

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

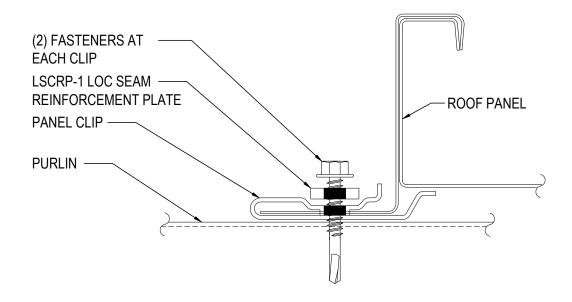
: 03.31.23 (MR2023-04) **CERTIFIED ERECTION DETAILS** Detail Size (W x H): 3 x 3 Issued



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.

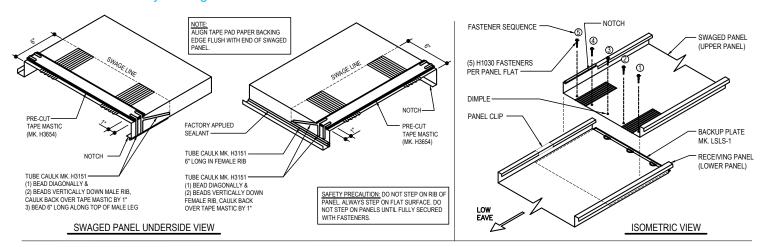
Issued : 10.14.22 (2020-039) **CERTIFIED ERECTION DETAILS** Detail Size (W x H) : 1 x 1



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

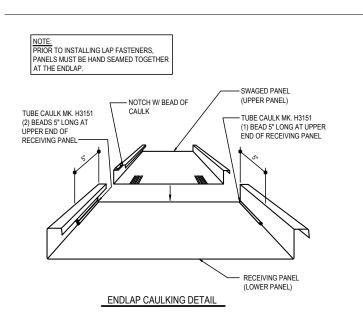
3) NEXT INSTALL A PIECE OF PRE-CUT TAPE MASTIC ACROSS THE WIDTH OF THE UNDERSIDE OF THE SWAGED PANEL BEGINNING AND ENDING AT THE VERTICAL SEAMS (LEGS). ALSO APPLY TUBE CAULK ON THE MALE AND FEMALE RIBS OF THE SWAGED PANEL AS SHOWN IN DETAIL ABOVE.

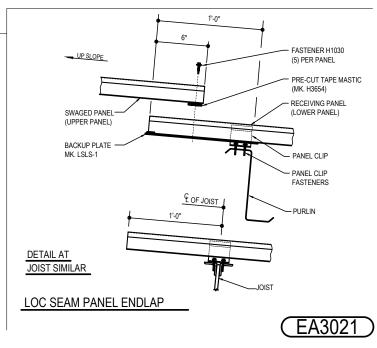
4) NEXT APPLY TUBE CAULK ALONG BOTH PANEL RIBS OF THE LOWER RECEIVING PANEL AS SHOWN IN THE ENDLAP CAULKING DETAIL.

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

Issued: 10.14.22 (2020-039) CERTIFIED ERECTION DETAILS Detail Size (W x H): 2 x 2

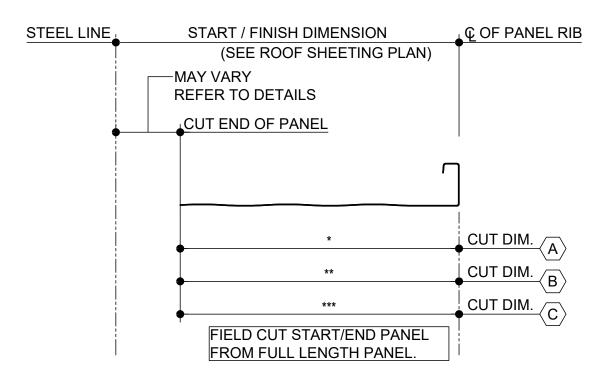
Issued By: WME



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.

Issued: 10.14.22 (2020.039) CERTIFIED ERECTION DETAILS Detail Size (W x H): 1 x 1