

GENERAL DETAILS

EA6000 - ROOF PANEL HAND TOOLS / INSTALLATION VIDEOS

EA6010 - CFR GENERAL NOTES

EA6012 - CFR MODULARITY GUIDANCE

EA6013 - CFR BASIC PANEL INSTALLATION

EA6014 - CFR BASIC PANEL INSTALLATION

EA6015 - CFR - HAND CRIMPING NOTES

EA6016 - CFR ROOF CLIP & SEAMING PLAN

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EA6200 - PIPE BOOT

EA6000 - ROOF PANEL HAND TOOLS / INSTALLATION VIDEOS

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IMPORTANT!

SCAN THE QR CODE DIRECTLY BELOW
FOR TOOL PURCHASE AND SEAMER RENTAL



VISIT [HTTP://DIROOFSEAMERS.COM/NBG](http://DIROOFSEAMERS.COM/NBG)
CALL 1(888) 343-0456.

INSTALLATION VIDEOS ARE NOW AVAILABLE TO ACCOMPANY ERECTION DETAILS.
SCAN THE QR CODE ADJACENT TO THE TOPIC TO VIEW.

<https://vimeo.com/showcase/11423087>



EAVE
PLATE



RAKE SUPPORT
ANGLE



ROOF START
PANEL



OUTSIDE
CLOSURE



ON-SLOPE
GUTTER



SCULPTURED
RAKE TRIM



END LAP
INSTALLATION



HIGH-EAVE
PARAPET
DETAIL



RAKE
PARAPET



PIPE
PENETRATIONS
IN THE ROOF



STANDING
SEAM PANEL
MODULARITY



EAVE
CLOSURE

EA6000

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, TURN OFF CORRESPONDING LAYER.

EA6010 - CFR GENERAL NOTES

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DESIGN AND PERFORMANCE CRITERIA

ROOF SYSTEM
THE ROOF SYSTEM CONSISTS OF 4 GAUGE PANELS WITH A NOMINAL COVERAGE OF 2" AND A PANEL SEAM THAT IS 1 1/2" 4" OR 1 1/2" HIGH DEPENDING ON CLIP TYPE USED. REFER TO THE DETAILS AND SECTIONS FOR SPECIFIC PANEL CLIP TYPE.

PANEL CLIP FASTENING
THE ROOF SYSTEM USES A CLIP TO ATTACH THE PANELS TO THE ROOF SECONDARY MEMBERS. PANEL CLIP FASTENING REQUIREMENTS AS A STANDARD ARE REQUIRED AT EVERY PURLIN AND/OR ROOF JOIST. CLIP FASTENERS MUST SUPPORT THE MAXIMUM CLIP SPACING IS TO BE 5'-0" FOR PURLIN ROOFS AND 5'-4" FOR JOIST ROOFS.

PANEL CLIP FASTENING REQUIREMENTS
STANDARD CLIP FASTENERS ARE DESIGNED TO FASTEN TO A STEEL STRUCTURAL MEMBER OF .060" MINIMUM THICKNESS (U.S.G.A.) A MINIMUM OF TWO FASTENERS ARE REQUIRED TO ENGAGE THE STRUCTURAL MEMBER AT EVERY PANEL CLIP LOCATION. IN CERTAIN INSTANCES, THREE FASTENERS MAY BE REQUIRED PER CLIP. LOOK IN THE DETAIL DRAWINGS FOR YOUR SPECIFIC FASTENER REQUIREMENTS. FASTENERS PULL OUT VALUES ARE DEPENDENT UPON LOCATION, SIZE, BUILDING CODE AND LOADING.

ROOF TOOTH UNITS AND CURB SUPPORTS
THE ROOF SYSTEM IS ELEVATED ABOVE THE TOP OF THE ROOF SECONDARY STRUCTURAL MEMBERS. THE ROOF TOOTH UNITS AND CURB SUPPORTS ARE SHOWN IN THE SECONDARY STRUCTURAL MEMBERS DETAILS FOR PROPER JAMB LOCATIONS AND DIMENSIONS.

INSULATION REQUIREMENTS
INSULATION IS RECOMMENDED TO BE USED IN ALL ROOF APPLICATIONS TO AVOID PROBLEMS WITH CONDENSATION FORMING ON THE UNDERSIDE OF THE SHEETING. IT ALSO PROVIDES A BARRIER BETWEEN THE PURLINS AND THE ROOF TO ELIMINATE NOISE AND POSSIBLE DAMAGE DUE TO METAL-TO-METAL CONTACT. NOISE REDUCING FOAM TAPE CAN BE SUPPLIED FOR UNLIMITED APPLICATIONS (E.G. WHEN INCLUDED AS PART OF THE ROOF ORDER. REFER TO THE DETAILS FOR FOAM TAPE REQUIREMENTS).

PAINTED ROOF
PRINTED STANDING SEAM ROOF PANELS ARE OFTEN PROVIDED WITH MBS. IN THIS CASE, GUTTER BRACKETS AND OUTSIDE COVERS WILL BE PAINTED TO MATCH THE ROOF COLOR AS A STANDARD.

MASTIC APPLICATION
TEMPERATURE SYSTEMS
TEMPERATURE EXTREMES MUST BE CONSIDERED DURING INSTALLATION OF THE ROOF DUE TO THE SENSITIVITY OF MASTIC. THE RECOMMENDED INSTALLATION TEMPERATURE RANGE IS 20 TO 90 DEGREES FAHRENHEIT. AT COLDER TEMPERATURES, THE MASTIC STIFFENS RESULTING IN LOSS OF ADHESION AND COMPRESSIBILITY. AT HOTTER TEMPERATURES, THE MASTIC BECOMES TOO SOFT FOR HANDLING. ON COLD OR HOT SUNNY DAYS, THE PANEL SURFACES MAY BECOME WARM ENOUGH TO ACCEPT THE APPLICATION OF HEATED MASTIC EVEN THOUGH THE AIR TEMPERATURE IS BELOW 20 DEGREES FAHRENHEIT.

WHEN OVERHEAT TEMPERATURES FALL BELOW FREEZING, THE MASTIC SHOULD BE STORED IN A HEATED ROOM SO IT WILL BE WARM ENOUGH TO USE THE FOLLOWING DAY. ON HOT DAYS, THE MASTIC CARTONS SHOULD BE STORED OFF THE ROOF IN A COOL AND SHADED AREA. WHILE ON THE ROOF, MASTIC ROLLS SHOULD BE KEPT SHADDED UNTIL ACTUAL USE.

IN VERY COLD WEATHER, IT IS RECOMMENDED THAT THE FASTENERS BE TIGHTENED SLOWLY AND ONLY TIGHT ENOUGH THAT THE MASTIC SEAL FULL CONTACT WITH THE PANEL AND FLASHING SURFACES. COMPLETE THE TIGHTENING PROCESS AFTER THE SUN WARMES THE PANEL AND FLASHING SURFACES.

CONTAMINATION
TO AVOID PROBLEMS WITH ADHESION AND SEALING, THE MASTIC MUST HAVE COMPLETE CONTACT WITH ADJOINING SURFACES. CONTAMINANTS SUCH AS WATER, OIL, DIRT AND DUST PREVENT SUCH CONTACT. THE PANEL AND FLASHING SURFACES MUST BE DRY AND THOROUGHLY CLEANED OF ALL CONTAMINANTS. BEFORE APPLYING TAPE MASTIC, THE MASTIC SHOULD BE CHECKED FOR CONTAMINANTS. IF THE MASTIC SURFACES ARE CONTAMINATED, IT MUST NOT BE USED.

COMPRESSION
TO AVOID PROBLEMS WITH COMPRESSION AND SEAL, THE TAPE MASTIC MUST BE COMPRESSED BETWEEN THE PANEL AND FLASHING SURFACES WITH FIRM AND UNIFORM PRESSURE. IN MOST CASES, THE REQUIRED PRESSURE IS APPLIED BY THE CLAMPING ACTION OF SCREWS PULLING THE ADJOINING SURFACES TOGETHER. HOWEVER, THE TAPE SEALANT'S RESISTANCE TO PRESSURE BECOMES GREATER IN COLD WEATHER.

INSECT CONTERS
ANTISEPTIC RADIIUS, SUCH AS WHERE THE PANEL FLAT MEETS A RIB, IS USUALLY THE MOST CRITICAL AREA TO SEAL. A CONCAVE MISTAKE FOR THE INSTALLER TO ACCEPT THE APPLICATION OF HEATED MASTIC EVEN THOUGH THE AIR TEMPERATURE IS BELOW 20 DEGREES FAHRENHEIT.

WHEN THE LAPPING PANEL OR FLASHING IS ADJUSTED INTO PLACE, THE BRIDGED MASTIC IS STRETCHED AND THINNED. THE MASTIC MAY THEN BE TOO THIN TO ADEQUATELY SEAL THIS CRITICAL AREA. WHEN TAPE MASTIC IS APPLIED AT AN INSIDE RADIUS, IT IS RECOMMENDED THAT THE MASTIC BE FOLDED BACK, THEN PUSH THE MASTIC FOLD INTO THE INSIDE RADIUS.

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

SPECIAL CONDITION AT A STRONG-BACK EAVE BEAM
IF THIS PROJECT HAS AN EAVE BEAM WITH (2) PURLINS, AS SHOWN, **DO NOT** ATTACH ROOF CLIPS TO THE "SECOND" PURLIN.

CFR GENERAL NOTES
GENERAL ROOF PANEL NOTES

EA6010

ERECTOR'S RESPONSIBILITY

REGULATIONS
THE ERECTOR IS RESPONSIBLE FOR THE OCCUPATIONAL SAFETY AND HEALTH ACT, LOCAL, STATE, AND/OR FEDERAL AGENCIES SHOULD BE ADHERED TO AT ALL TIMES. MBS IS NOT RESPONSIBLE FOR INJURY, DAMAGE, OR FAILURE, WHICH MAY BE THE RESULT OF FALLING TO MEET ANY OF THESE REGULATIONS.

HAZARD COMMUNICATION
IN COMPLIANCE WITH THE HAZARD COMMUNICATION RULE 1910.1200, MATERIAL SAFETY DATA SHEETS (MSDS) HAVE BEEN PROVIDED FOR YOUR USE AND SAFETY. THESE DATA SHEETS SHOULD BE MADE AVAILABLE TO ALL PERSONNEL THAT COME IN CONTACT WITH THESE PRODUCTS. THESE DATA SHEETS WILL GIVE YOU THE NECESSARY INFORMATION TO PROPERLY HANDLE SUCH MATERIALS AND WHAT TO DO IN CASE OF AN EMERGENCY. (THE MSDS SHEETS ARE LOCATED ONLINE AND ARE AVAILABLE UPON REQUEST).

ERECTOR'S RESPONSIBILITY
THE ERECTOR OF THE ROOF SYSTEM IS RESPONSIBLE FOR THE SAFE EXECUTION OF THIS DETAIL. THESE INSTRUCTIONS ARE INTENDED TO DESCRIBE THE SEQUENCE AND PROPER PLACEMENT OF PARTS. THEY ARE NOT INTENDED TO PRESCRIBE COMPREHENSIVE SAFETY PROCEDURES. THE PROCEDURES IN THIS DETAIL ARE BELIEVED TO BE RELIABLE. HOWEVER, MBS SHALL NOT BE RESPONSIBLE FOR INJURY, DAMAGE, OR FAILURE DUE TO THE MISAPPLICATION OF THESE PROCEDURES, IMPROPER ERECTOR TECHNIQUES, OR NEGLIGENCE.

WORKING AND WALKING ON ROOF PANELS
DO NOT PLACE BUNDLES OF PANELS ON THE ROOF STRUCTURE WITHOUT FIRST VERIFYING THE STRUCTURE WILL SAFELY SUPPORT THE CONCENTRATED WEIGHT OF THE PANELS AND THE WEIGHT OF THE INSTALLATION CREW. SOME ROOF STRUCTURES MAY NOT BE DESIGNED TO SUPPORT THE WEIGHT OF A FULL PANEL BUNDLE WITHOUT ADDITIONAL STRUCTURE SUPPORT.

DO NOT WALK ON THE LAST INSTALLED PANEL RUN, AS AN UNSECURED EDGE COULD COLLAPSE UNDER A PERSON'S WEIGHT. WHEN INSTALLING CLIPS OR MAKING END LAP CONNECTIONS, ETC., STAND WHERE THE ROOF STRUCTURAL WILL SUPPORT YOUR WEIGHT.

SAFETY EQUIPMENT
THE USE OF SAFETY EQUIPMENT FOR THE ROOF PANEL INSTALLATION IS RECOMMENDED AT ALL TIMES DURING THE INSTALLATION PROCESS. HOWEVER, WHEN USING LADDERS, ENSURE THAT THE CLASP, BELT HOODS AND WIRE CABLES ARE COVERED IN SUCH A MANNER THAT THEY WILL NOT SCRATCH THE PANEL SURFACE. IF ACCIDENTALLY DRAGGED ALONG THE PANEL.

CREW SIZE
THE USE OF THE INDIVIDUAL ROOF PANELS SHOULD BE CONSIDERED WHEN DETERMINING CREW SIZE. IT IS RECOMMENDED THAT UNDER NORMAL CONDITIONS, THERE BE ONE PERSON FOR EVERY TEN FEET OF PANEL LENGTH, PLUS ONE.

PANEL OVERHANG
THE END OF UNSUPPORTED CANTILEVERED PANELS AT THE EAVE OR RIDGE. STANDING ON THE CANTILEVER PORTION MAY RESULT IN PANEL COLLAPSE.

POINT LOADS
ROOF PANELS SUPPORTED BY THE STRUCTURAL STEEL, PANELS ARE DESIGNED TO SUPPORT UNIFORM LOADS, WHICH ARE EVENLY DISTRIBUTED OVER THE PANEL SURFACES. POINT LOADS THAT OCCUR IN SMALL OR CONCENTRATED AREAS, SUCH AS HEAVY EQUIPMENT, LADDER, OR PLATFORM FEET, ETC. MAY CAUSE PANEL DEFORMATION OR EVEN PANEL COLLAPSE.

SLICK SURFACES
PANEL SURFACES AND STRUCTURAL STEEL SURFACES ARE HARD, SMOOTH, AND NONABSORBENT, WHICH CAUSES THESE SURFACES TO BE VERY SLICK WHEN WET OR COVERED WITH SNOW OR ICE. EVEN BLOWING SAND OR HEAVY DUST CAN MAKE THESE SURFACES DIFFICULT TO WALK ON WITHOUT SLIPPING.

ELECTRICAL CONDUCTANCE
METAL PANELS ARE EXCELLENT ELECTRICAL CONDUCTORS. A COMMON CAUSE OF INJURY IS THE CONTACT OF METAL PANELS WITH POWER LINES DURING HANDLING AND INSTALLATION. THE LOCATION OF ALL POWER LINES MUST BE NOTED AND, IF POSSIBLE, FLAGGED. THE INSTALLATION PROCESS MUST BE ROUTED TO AVOID ACCIDENTAL CONTACT WITH ALL POWER LINES AND HIGH VOLTAGE SERVICES AND EQUIPMENT. ALL TOOLS AND POWER CORDS MUST BE PROPERLY INSULATED AND GROUNDED AND THE USE OF APPROVED GROUND FALL (CIRCUIT BREAKERS) IS RECOMMENDED.

FALSE SECURITY OF INSULATION
BLANKET AND RIDGE BOARD INSULATION BLOCK THE INSTALLER'S VIEW OF THE GROUND BELOW THE ROOF. SERIOUS INJURY CAN OCCUR WHEN THE INSTALLER SETS A FALSE SENSE OF SECURITY BECAUSE HE CANNOT SEE THE GROUND AND STEPS THROUGH THE INSULATION.

SHARP EDGES
SOME EDGES ON PANELS AND FLASHING ARE RAZOR SHARP AND CAN CAUSE SEVERE CUTS IF PROPER PROTECTIVE HAND GEARS IS NOT WORN. BE CAREFUL NOT TO INJURE OTHERS WHILE MOVING PANELS AND FLASHING.

COORDINATION WITH OTHER TRADES
SUPPORTS FOR THE ROOF SYSTEM SHALL BE PROVIDED AND ARE REQUIRED AS SHOWN IN THE SECTIONS AND AS NOTED IN THESE SPECIFICATIONS. ALL NECESSARY CLEARANCE DIMENSIONS FOR PROPER ELEVATIONS RELATIVE TO THE ROOF PANELS HAVE BEEN SHOWN. THE ERECTOR SHALL BE RESPONSIBLE FOR COORDINATING THESE DIMENSIONAL REQUIREMENTS WITH OTHER TRADES ASSOCIATED WITH THE BUILDING ROOF SYSTEM.

ERECTION CARE
THE ERECTOR MUST BE SKILLED IN THE ERECTION OF METAL BUILDING SYSTEMS AND IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, FEDERAL AND STATE CONSTRUCTION AND SAFETY REGULATIONS INCLUDING OSHA REGULATIONS AS WELL AS ANY APPLICABLE REQUIREMENTS OF LOCAL, NATIONAL, OR INTERNATIONAL UNION RULES OR PRACTICES. THE ERECTOR REMAINS SOLELY RESPONSIBLE FOR THE SAFETY AND APPROPRIATENESS OF ALL TECHNIQUES AND METHODS UTILIZED BY ITS CREW IN THE ERECTION OF THE METAL BUILDING SYSTEM AND/OR THE ROOF SYSTEM. THE ERECTOR IS ALSO RESPONSIBLE FOR SUPPLYING ANY SAFETY DEVICES SUCH AS SCAFFOLDS, RUNWAYS, NETS, ETC. WHICH MAY BE REQUIRED TO SAFELY ERECT THE METAL BUILDING SYSTEM AND/OR ROOF SYSTEM.

CONTRACTOR'S RESPONSIBILITY
THE ERECTOR OF THE ROOF SYSTEM SHALL EXERCISE GREAT CARE AND ATTENTION TO THE DETAILS AS SHOWN IN THESE DRAWINGS TO INSURE A SECURE AND PROPER FIT OF ALL COMPONENTS. MBS SHALL NOT BE RESPONSIBLE FOR SUPPLYING AND/OR COORDINATING THE ERECTION OF THE ROOF SYSTEM WITH OTHER TRADES.

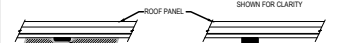
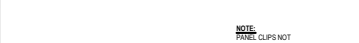
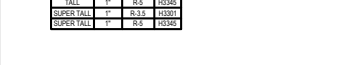
CONTRACTOR'S RESPONSIBILITY
DUE CONSIDERATION MUST BE GIVEN BY THE ERECTOR TO THE EFFECTS OF THERMAL EXPANSION AND CONTRACTION WHEN ERECTING A ROOF TO AN EXISTING STRUCTURE TO INSURE A SAFE, SECURE, WEATHER TIGHT CONDITION. FLASHING FOR THE INS TO DISTANT BUILDINGS IS TYPICALLY NOT INCLUDED AS PART OF THE MATERIAL PROVIDED BY MBS. REFER TO THE SECTION DETAILS FOR SPECIFIC MATERIALS PROVIDED BY MBS.

THERMAL BLOCKS

PURPOSE
THERMAL BLOCKS ARE USED IN BOTH INSULATED AND UN-INSULATED CONDITIONS. THEY PROVIDE IMPROVED THERMAL PERFORMANCE WHERE INSULATION HAS BEEN COMPRESSED AT THE SECONDARY MEMBERS UNDER THE PANEL. THEY ALSO PROVIDE SUPPORT TO THE PANEL, AND REDUCE PANEL FLUTTERING AND RUMBLE IN AN UN-INSULATED CONDITION. IN INSULATED CONDITIONS, THERMAL BLOCKS OR FOAM SPACERS THAT HAVE ADHESIVE TO ATTACH TO THE SECONDARY MEMBER TO PREVENT THEM FROM FALLING OUT OF PLACE.

LOCATION
THERMAL BLOCKS OR FOAM SPACERS ARE TO BE USED OVER EVERY SECONDARY MEMBER WITH THE EXCEPTION OF THE EAVE MEMBER WHERE THE EAVE PLATE IS LOCATED.

INSULATED ROOF				UNINSULATED ROOF			
THERMAL BLOCK				THERMAL BLOCK			
CLIP	THICK	MIN.	MAX.	CLIP	THICK	MIN.	MAX.
SHORT	N/A	N/A	N/A	SHORT	1/2"	0.030	
TALL	1"	0.3	0.500	TALL	1 1/2"	0.030	
SUPER TALL	1"	0.3	0.500				
SUPER TALL	1"	0.3	0.500				



ROOF SYSTEM COMPONENT WITH DETAILING

DEFINITION
COMPONENTS WITH DETAILING DEFINITION IS A CASE WHERE MBS IS PROVIDING THE ROOF SYSTEM TO BE USED IN CONJUNCTION WITH ANOTHER STRUCTURE. MBS REFERS TO THAT AS "COMPONENTS WITH DETAILING" THIS SHARP MEANS THAT MBS SHALL CALCULATE THE QUANTITIES AND LENGTHS FOR THE MATERIAL REQUIRED. MBS IS PROVIDING NO ENGINEERING STUDY OF THE EXISTING STRUCTURE. THE ENGINEER OF RECORD ON THE PROJECT SHALL BE RESPONSIBLE FOR COORDINATING THE ROOF SYSTEM WITH THE OTHER TRADES OF THE PROJECT TO INSURE A SAFE, QUALITY AND PROPER APPLICATION OF THE ROOF SYSTEM.

WARNING
THE ROOF IS DESIGNED TO ACCOMMODATE THERMAL EXPANSION AND CONTRACTION AND WILL NOT ACT AS A DIAPHRAGM FOR RESISTING LATERAL LOAD FORCES OR PROVIDING LATERAL STABILITY TO THE ROOF STRUCTURAL MEMBERS. DUE CONSIDERATION FOR THIS MUST BE ADDRESSED BY THE PROJECT ENGINEER OF RECORD. IN ADDITION, THE ROOF SYSTEM BECAUSE IT IS DESIGNED TO FLOAT, WILL NOT SUPPORT STRUCTURAL MEMBERS. LATERALLY. WHEN REPLACING AN EXISTING SCREW DOWN ROOF, ADDITIONAL BRACING MAY BE REQUIRED TO LATERALLY SUPPORT THE MEMBERS. ENGINEERS AND ARCHITECTS FOR THESE USES SHALL NOT BE PROVIDED BY MBS.

BUILDING & PANEL PREPARATION

STEP 1: FLUSH AND SQUARE
THE FIRST STEP IN THE SUCCESSFUL INSTALLATION OF WALL PANELS IS TO HAVE THE PRIMARY FRAMING PLUMB AND SQUARE. FOR BEST RESULTS, IT IS RECOMMENDED THAT A TRIMBIT BE USED WHEN ERECTING THE STRUCTURAL STEEL. MAKE SURE THAT THE FOUNDATION AND BUILDING STRUCTURE IS SQUARE, LEVEL, AND CORRECT TO THE OUT-TO-OUT STEEL LINE DIMENSIONS. SEE FIGURE "A".

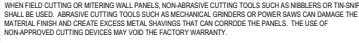


FIELD CUTTING PANELS

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

SPECIAL CONDITION AT A STRONG-BACK EAVE BEAM

IF THIS PROJECT HAS AN EAVE BEAM WITH (2) PURLINS, AS SHOWN, **DO NOT** ATTACH ROOF CLIPS TO THE "SECOND" PURLIN.



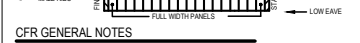
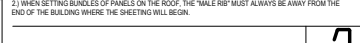
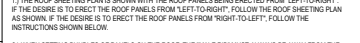
FASTENER INSTALLATION

RECOMMENDED TOOL TYPES - SEE ALSO FASTENER SCHEDULE
4" MIN OR HIGHER RATED TOOLS DO NOT USE IMPACT DRILL TOOLS
2000 - 2800 RPM SCREW GUN WITH TORQUE ADJUSTABLE CLUTCH MANUAL OR ELECTRIC RIVET TOOL

DO NOT USE IMPACTING TOOLS
TO AVOID PROPER FORCE TO THE TOOL, EXTENSION CORDS SHOULD BE CHECKED FOR PROPER WIRE SIZE/CORD LENGTH
1/8 GAUGE WIRE, MAXIMUM CORD LENGTH = 100'
14 GAUGE WIRE, MAXIMUM CORD LENGTH = 200'
12 GAUGE WIRE, MAXIMUM CORD LENGTH = 300'

REVOLVING TOOL
A REVOLVING TOOL DRIVER AS DESCRIBED BELOW PRIOR TO INSTALLING FASTENERS TO PREVENT FASTENER WOBBLING. SOCKET EXTENSIONS (IF OR) ARE RECOMMENDED TO BE USED FOR INSTALLING PANEL CLIP FASTENERS TO MAINTAIN VERTICAL FASTENER INSTALLATION.

EXCESSIVE PRESSURE CAN CAUSE DRILL POINT FAILURE. LET THE FASTENER DO THE WORK. DO NOT OVER TIGHTEN FASTENERS AS THIS WILL LEAD TO PANEL DIMPING AND DISTORTION.



Detailer Notes:

1) THIS DETAIL REQUIRED ON EVERY TRAPEZOIDAL ROOF PROJECT.

EA6012 - CFR MODULARITY GUIDANCE

Download the DWG file by clicking here.

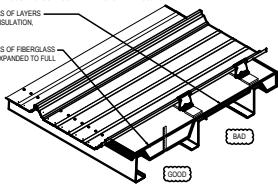
SPECIAL ATTENTION MUST BE GIVEN TO INSULATION SAG AND RECOMMEND PRE-DRILLING TO LOCATE CLIPS. MODULARITY TOOLS ARE AVAILABLE TO AID IN MODULARITY.

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 TAUT 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 LAPS, IF ANY.

INSTALL NEXT VOID CLOSURE AT BUILDING EAVE.

ROOF PANEL CLIP

RAKE ANGLE

START PANEL

VOID CLOSURE

MEASURE OVER 2" FROM INSTALLED CLIP FASTENERS. PRE-DRILL (1) 3/16" Ø PILOT HOLE BE SURE TO LOCATE HOLE NEAR EDGE OF PURLIN FLANGE. THIS WILL ENSURE THAT UP TO (3) FASTENERS CAN BE INSTALLED IN CLIP BASE (IF REQ'D BY DESIGN. SEE ERECTION DRAWINGS FOR FASTENER REQUIREMENTS).

MEASURE OVER 2" FROM CENTER OF INSTALLED VOID CLOSURE AND MARK ON EAVE 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.

CFR MODULARITY CLAMP

CFR MODULARITY TOOL (SUPPLIED IN KIT)

SECTION A

24" COVERAGE

5/16" MAX

5/16" MAX

STRETCHING PANEL COVERAGE

SHRINKING PANEL COVERAGE

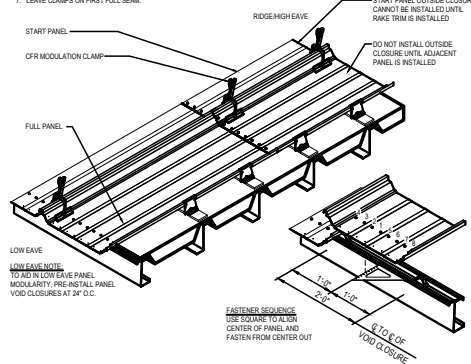
ADJUSTING PANEL MODULARITY

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.

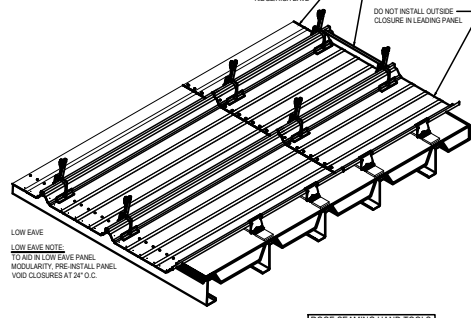
STAGE #1

1. AFTER INSTALLING START PANEL. PRE-DRILL CLIP HOLES 2" Ø C.C. AND MARK EAVE PLATE 1" Ø C.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 EAVE CLAMP AS SHOWN TO DRAW PANEL TIGHT TO CLOSURE.
4. INSTALL THE EAVE FASTENERS STARTING AT CENTER OF PANEL AND WORK BACK TO TRAILING RIB. THEN FROM CENTER OF PANEL TOWARD LEADING RIB.
5. AS PANEL INSTALLATION PROGRESSES, INSTALL MORE CLAMPS UPLOPSE AS SHOWN.
6. ADD, ADJUST OR LEAVE CLAMPS OFF TO MAINTAIN PANEL MODULARITY AS NECESSARY.
7. LEAVE CLAMPS ON FIRST FULL SEAM.



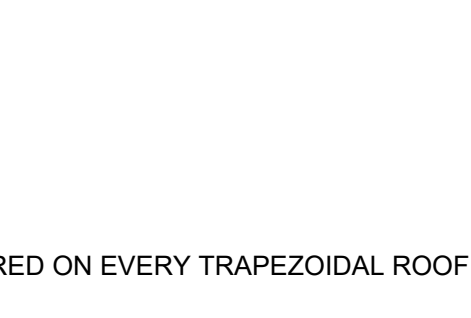
STAGE #2

1. INSTALL THE NEXT LOW EAVE PANEL AND ADD CLAMP.
2. REPEAT STEPS 2 THROUGH 8 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 EAVE CLAMP.
2. INSTALL THE NEXT LOW EAVE PANEL AND LEAP FROG THE CLAMP AS SHOWN.
3. INSTALL EAVE PLATE FASTENERS.
4. AS PANEL INSTALLATION PROGRESSES, LEAP FROG 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 1 STAGES OF THIS METHOD THROUGHOUT THE ROOF PANEL ERECTION.



STAGE #4

1. KEEP CLAMPS IN PLACE ON THE FIRST TWO SEAMS WITH THE EXCEPTION OF THE LOW EAVE CLAMP.
2. INSTALL THE NEXT LOW EAVE PANEL AND LEAP FROG THE CLAMP AS SHOWN.
3. INSTALL EAVE PLATE FASTENERS.
4. AS PANEL INSTALLATION PROGRESSES, LEAP FROG 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 1 STAGES OF THIS METHOD THROUGHOUT THE ROOF PANEL ERECTION.



ROOF SEAMING HAND TOOLS
ROOF SEAMING HAND TOOLS CAN BE PURCHASED BY VISITING WWW.SEMARS.COM/ENR OR BY CALLING (888) 343-0456

MODULARITY GUIDANCE

SPECIAL ATTENTION TO ABOVE STEPS TO MAINTAIN PROPER PANEL MODULARITY AND THERMAL PERFORMANCE IS CRITICAL. FAILURE TO DO SO WILL RESULT IN UNSIGHTLY PANEL APPEARANCE.

EA6012

Detailer Notes:

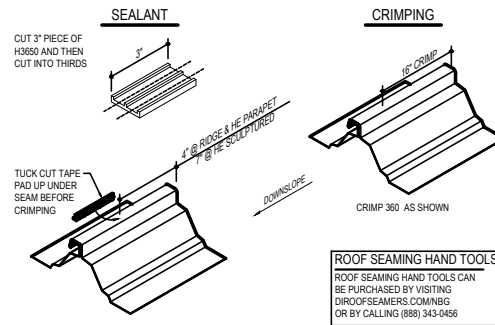
1) THIS DETAIL REQUIRED ON EVERY TRAPEZOIDAL ROOF PROJECT.

EA6014 - CFR BASIC PANEL INSTALLATION

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

PANEL HIGH EAVE PREPARATION

CUT A 3" PIECE OF H3650 TAPE MASTIC TO BE PLACED UP IN SEAM OF PANEL. MASTIC SHOULD BE PLACED AS SHOWN FROM END OF PANEL TO CENTER OF TAPE PAD. PLACE INSIDE THE MALE HOOK ON THE VERTICAL FACE.



OUTSIDE CLOSURE MASTIC INSTALLATION

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

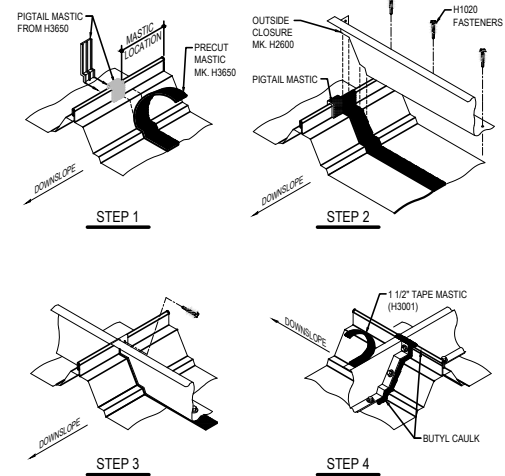
MODULARITY NOTE: OUTSIDE CLOSURE IS RECOMMENDED TO BE INSTALLED AS ROOF PROGRESSES. AS NEXT PANEL IS INSTALLED, CLOSURE SHOULD BE INSTALLED IN THE PREVIOUS PANEL RUN.

STEP 1: REFERENCE HIGH EAVE OR RIDGE DETAIL FOR PROPER LOCATION. APPLY THE PRECUT MASTIC ACROSS THE PANEL WITH THE BOTTOM OF THE MASTIC 4" DOWN FROM END OF PANEL FOR RIDGE, HIGH EAVE SCULPTURED & HIGH EAVE PARAPET CONDITIONS. ALIGN MASTIC 3" DOWN FROM END OF PANEL FOR HIGH EAVE EXTENSIONS. 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 PIGTAIL AROUND THE PANEL RIB AGAINST THE DOWNSLOPE EDGE OF PRECUT MASTIC. FOLD PIGTAIL AS SHOWN AND PRESS INTO VOID UNDER SEAM. MARRY PIGTAIL TO PRECUT.

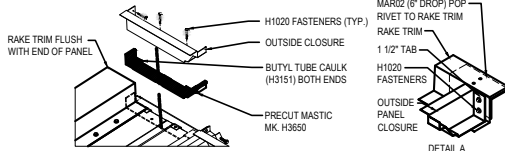
STEP 2: ALIGN THE OUTSIDE CLOSURE WITH MASTIC AND SEAT INTO THE PRECUT MASTIC. ATTACH THE OUTSIDE CLOSURE THROUGH THE PREPUNCHED HOLES THROUGH THE PANEL AND INTO THE BACKUP PLATE.

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

STEP 4: PRIOR TO INSTALLING TRIM, APPLY BUTYL CAULK DOWN PROFILE OF TRAPEZOID AND 1" MIN ONTO PANEL FLAT. ALSO APPLY BUTYL CAULK ACROSS JOINT OF ADJACENT OUTSIDE CLOSURES AND UPHILL 3". ROLL OUT TAPE MASTIC ACROSS TOP OF OUTSIDE CLOSURES FOR TRIM SEALANT.

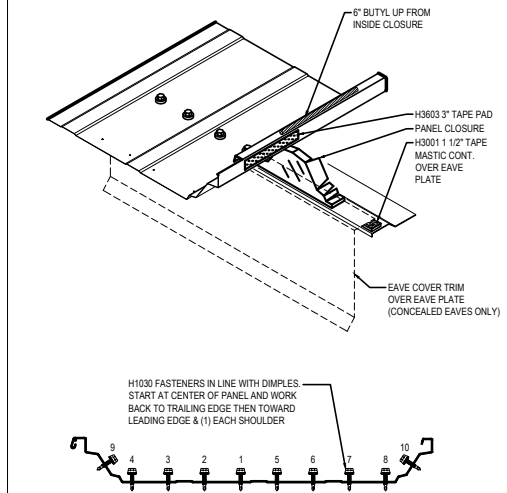
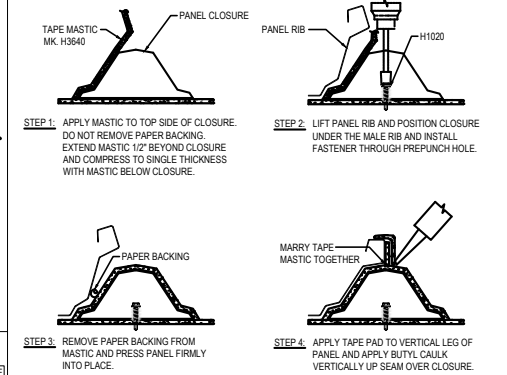


OUTSIDE CLOSURE AT START / FINISH PANEL: CUT CLOSURE TO LENGTH LEAVING AN EXTRA 1 1/2" TO FORM A TAB THAT WILL SEAL TO BACK OF RAKE TRIM. PRE-DRILL THIS TAB TO ACCEPT FASTENER.



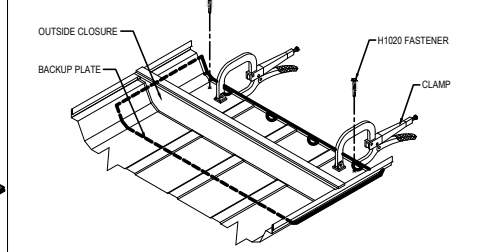
INSIDE VOID CLOSURE INSTALLATION

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



BACKUP PLATE INSTALLATION

IF THE BACKUP PLATE DOES NOT REACH THE FIRST PURLINE, CLAMP THE BACKUP PLATE TO THE END OF THE PANEL AND INSTALL (2) H1020 FASTENERS TO HELP HOLD THE BACKUP PLATE IN PLACE TO INSTALL YOUR OUTSIDE CLOSURES.



CFR BASIC INSTALLATION DETAIL

BASIC PANEL INSTALLATION INSTRUCTIONS
SEE ROOFLINE TRIM DETAILS FOR FURTHER INFORMATION

EA6014

Detailer Notes:

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

EA6015 - CFR - HAND CRIMPING NOTES

Download the DWG file by clicking here.

IMPORTANT NOTE:

THE INSTRUCTIONS ON THIS PAGE ONLY ADDRESS THE USE OF THE HAND CRIMPING TOOLS. INSTRUCTIONS FOR MECHANICAL SEAMING, IF REQUIRED, ARE OUTLINED IN THE SEAMING MANUAL, WHICH IS INCLUDED WITH THE MECHANICAL SEAMER KIT PROVIDED BY D.I. ROOF SEAMERS.

SPECIALIZED SEAMING AND HAND CRIMPING TOOLS

THE FINISHED SEAM OF THE ROOF PANELS REQUIRES SPECIAL SEAMING TOOLS THAT ARE AVAILABLE ONLY THROUGH D.I. ROOF SEAMERS. CAUTION: THE USE OF OTHER SEAMING / CRIMPING EQUIPMENT WILL LIKELY RESULT IN FAULTY AND / OR DAMAGED SEAMS AND SHALL INVALIDATE ANY OF THE ROOF SYSTEMS MATERIAL AND WEATHER TIGHTNESS WARRANTIES.

SEAMING TOOL SOURCE

CONTACT D.I. ROOF SEAMERS TO PURCHASE ANY NECESSARY CRIMPING TOOLS AND FOR RENTAL INFORMATION OF THE MECHANICAL SEAMER IF REQUIRED.

VISIT DIROOFSEAMERS.COM/IMG OR CALL (888) 343-0456

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 THREE SEAM TYPES POSSIBLE WITH THE NUCOR CFR ROOF AS NOTED BELOW. ALL OF THESE SEAM TYPES CAN BE ACHIEVED WITH THE AVAILABLE CRIMPERS. WHEN VISE LOCK AND VISE LOCK 360 SEAMS ARE REQUIRED, IT IS RECOMMENDED TO RENT A MECHANICAL SEAMER TO AID IN THE SEAMING PROCESS.

1. NUCOR ROLL LOCK™ (SEE NOTES 1 AND 2 BELOW)
2. NUCOR VISE LOCK® (SEE NOTES 1, 2 AND 3 BELOW)
3. NUCOR VISE LOCK 360® (SEE NOTES 2 AND 3 BELOW)

NOTE 1

NUCOR ROLL LOCK SEAM IS THE MINIMUM REQUIRED BY DESIGN FOR ANY ROOF PLANE. ADDITIONAL SEAMING MAY BE REQUIRED BY THE BUILDER OR ARCHITECT. IT IS THE ERECTOR'S RESPONSIBILITY TO PERFORM ANY ADDITIONAL CRIMPING / SEAMING REQUIRED BY THE BUILDER, ARCHITECT, ETC. ABOVE AND BEYOND THE DESIGN REQUIREMENT OF THE MBS.

NOTE 2

MULTIPLE SEAM TYPES MAY BE REQUIRED BY DESIGN IN DIFFERENT ZONES OF THE ROOF PLANE. REVIEW THE ROOF SEAMING PLAN CAREFULLY FOR ROOF PLANE SPECIFIC SEAMING REQUIREMENTS.

NOTE 3

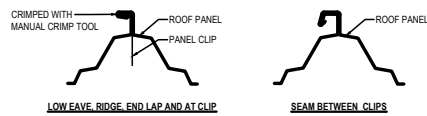
NOT ALL ROOF SYSTEMS REQUIRE MECHANICAL SEAMING. THE BUYER, ARCHITECT, OWNER, ETC. MAY ELECT TO SPECIFY A MECHANICALLY SEALED ROOF. OFTEN, FACTORY MUTUAL RATINGS ALSO REQUIRE A VISE LOCK 360 MECHANICAL SEAM.

SEE THE SEAMING MANUAL FOR IMPORTANT ERECTOR INFORMATION ABOUT THE VISE LOCK 360 SEAMER REQUIREMENTS.

WHEN TO CRIMP

AS WORK PROGRESSES, IT SHALL BE THE ERECTOR'S RESPONSIBILITY TO APPLY THE NUCOR ROLL LOCK HAND CRIMPING REQUIREMENTS IN SUCH A WAY AS TO ENSURE THAT THE PANELS HAVE BEEN ADEQUATELY SECURED AT THE COMPLETION OF EACH DAY'S WORK.

NUCOR ROLL LOCK SEAM™

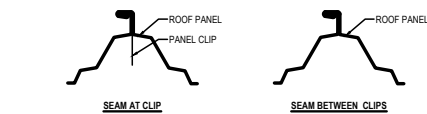


THE ROLL LOCK SEAM™ ROLL LOCK SEAM REQUIRES THE ROOF PANELS TO BE CRIMPED WITH A MANUAL CRIMPING TOOL BY THE COMPLETION OF EACH DAY'S WORK. THIS DOES NOT REQUIRE THE USE OF A MOTORIZED SEAMER.

CRIMPING IS REQUIRED AT THE FOLLOWING LOCATIONS

1. LOW EAVE 16"
2. RIDGE / HIGH SIDE 16"
3. ENDLAP 16"
4. AT CLIPS SINGLE CRIMP

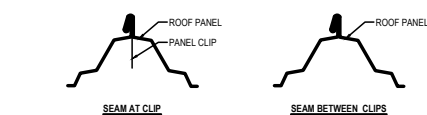
NUCOR VISE LOCK SEAM®



THE VISE LOCK SEAM® IS CONTINUOUS FULL LENGTH OF THE PANEL. THE VISE LOCK SEAM CAN BE ACHIEVED BY TWO DIFFERENT METHODS.

1. CONTINUALLY HAND CRIMPING THE SEAM WITH THE VISE LOCK HAND CRIMPER.
2. MECHANICALLY SEAMING WITH A VISE LOCK MOTORIZED SEAMER.

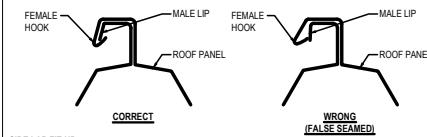
NUCOR VISE LOCK 360 SEAM®



THE VISE LOCK 360 SEAM® IS CONTINUOUS FULL LENGTH OF THE PANEL. THE VISE LOCK 360® SEAM CAN BE ACHIEVED BY TWO DIFFERENT METHODS.

1. CONTINUALLY HAND CRIMPING THE SEAM WITH THE VISE LOCK 360 HAND CRIMPER. THE SEAM NEEDS TO BE HAND CRIMPED INTO A VISE LOCK SEAM PRIOR TO USING THE VISE LOCK 360 CRIMPER.
2. MECHANICALLY SEAMING WITH A MOTORIZED SEAMER.

CHECK PANEL ASSEMBLY



SIDE LAP FIT-UP

BEFORE CRIMPING AND / OR SEAMING, INSPECT THE FULL LENGTH OF EACH PANEL SIDE LAP. CHECK THAT THE LIP AT THE MALE EDGE OF THE PANEL IS ENCLOSED BY THE HOOK OF THE ADJACENT PANEL'S FEMALE EDGE AS SHOWN IN THE DETAIL ABOVE. ANY CONDITIONS WHERE THE SEAM IS NOT ENGAGED PROPERLY MUST BE CORRECTED BEFORE ATTEMPTING TO CRIMP OR SEAM THE PANEL. FALSE SEAMING OCCURS WHEN THE PANELS ARE NOT PROPERLY ENGAGED. FALSE SEALED PANELS CANNOT PROVIDE THE REQUIRED WIND LOAD AND WEATHER RESISTANCE THEY WERE DESIGNED TO WITHSTAND. FALSE SEAMING CAN ALSO LEAD TO PANEL DAMAGE AND THE MBS NOR D.I. ROOF SEAMERS CAN BE HELD RESPONSIBLE FOR ANY CONCERNS RELATED TO FALSE SEAMING.

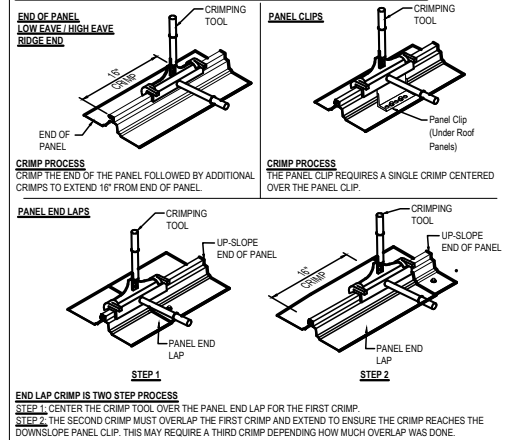
CLIP ALIGNMENT

BEFORE CRIMPING AND / OR SEAMING, INSPECT THAT EACH ROOF PANEL CLIP IS PROPERLY ENGAGED IN THE SIDE LAP ASSEMBLY. ANY DISPLACED CLIPS MUST BE CORRECTED BEFORE ATTEMPTING TO CRIMP / SEAM THE ROOF PANELS. PANEL CLIPS THAT ARE NOT PROPERLY ENGAGED AND ALIGNED CAN CAUSE FAULTY CRIMP / SEAM AND OBJECTIONABLE SEAM APPEARANCE. THE MBS NOR D.I. ROOF SEAMERS CAN BE HELD RESPONSIBLE FOR ANY CONCERNS RELATED TO IMPROPERLY ALIGNED CLIPS.

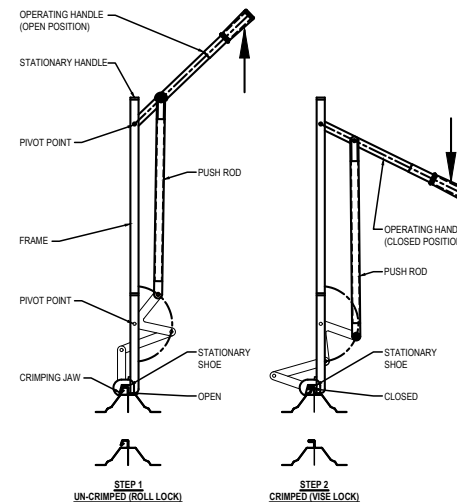
SEAM DAMAGE

BEFORE CRIMPING AND / OR SEAMING, INSPECT THAT EACH ROOF PANEL MALE AND FEMALE ARE FREE FROM DISTORTION AND KINKS WHICH CAN LEAD TO DIFFICULTY AND / OR DAMAGE TO THE PANEL WHILE ATTEMPTING TO CRIMP / SEAM THE PANEL. ANY DISTORTIONS / KINKS MUST BE CORRECTED BEFORE ATTEMPTING TO CRIMP / SEAM THE PANELS. THE MBS NOR D.I. ROOF SEAMERS CAN BE HELD RESPONSIBLE FOR ANY CONCERNS RELATED TO DAMAGE CAUSED IN THE FIELD.

MANUAL CRIMPING - EAVE / END LAP / RIDGE / PANEL CLIP



MANUAL CRIMPING STAND-UP VISE LOCK CRIMPER



THE MANUAL CRIMPING PROCEDURE FOR THE STAND-UP VISE LOCK CRIMPER IS THE SAME PROCEDURE AS THE SMALL VISE LOCK HAND CRIMPER. THE STAND-UP AND SMALL HAND CRIMPERS CAN BE USED IN CONJUNCTION WITH EACH OTHER. THE MANUAL CRIMPERS CAN BE UTILIZED TO CREATE A CONTINUOUS SEAM BY MAKING ADJACENT CRIMPS WITH SLIGHT OVERLAP.

TOOL OPERATION

STEP 1

WITH THE HANDLE IN THE UPWARD (OPEN) POSITION, PLACE THE CRIMPER ON THE PANEL RIB. MAKE SURE THE CRIMPER HEAD IS COMPLETELY SEATED ON THE TOP OF THE PANEL RIB BEFORE CRIMPING. IT IS CRITICAL THAT THE OPERATING JAW IS TOWARD THE HOOK SIDE OF THE PANEL AS SHOWN ABOVE. OPERATING THE CRIMPER BACKWARDS ON THE PANEL WILL RESULT IN DAMAGE TO THE PANEL.

STEP 2

PUSH DOWN ON THE HANDLE UNTIL IT STOPS. RAISE HANDLE TO RELEASE CRIMPER. REPOSITION CRIMPER AS NECESSARY AND REPEAT TO EXTEND THE LENGTH OF THE CRIMP.

ROOF SEAMING HAND TOOLS
ROOF SEAMING HAND TOOLS CAN BE PURCHASED BY VISITING DIROOFSEAMERS.COM/IMG OR BY CALLING (888) 343-0456

CFR HAND CRIMPING NOTES
HAND CRIMPING TOOLS AND PROCEDURES

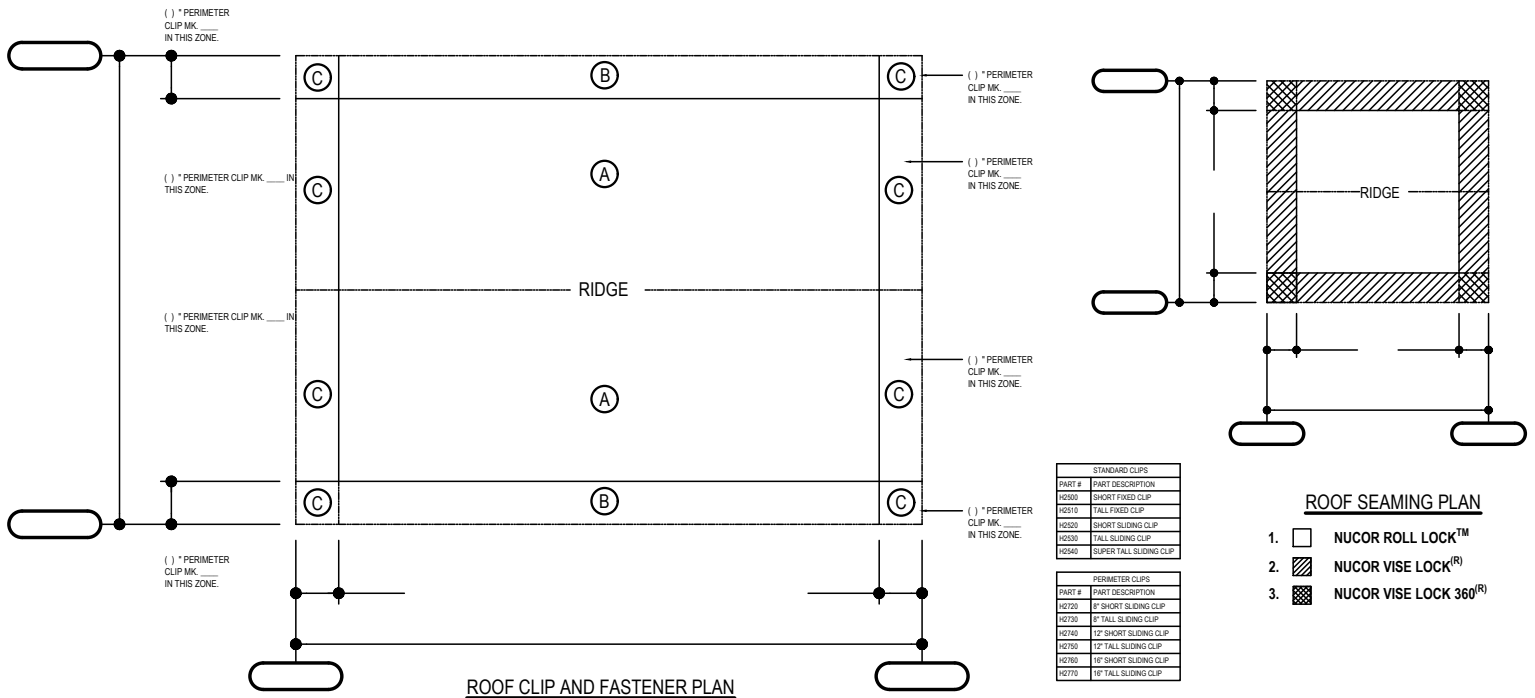
EA6015

Detailer Notes:

- 1) THIS DETAIL REQUIRED ON EVERY CFR ROOF PROJECT.

EA6016 - CFR ROOF CLIP & SEAMING PLAN

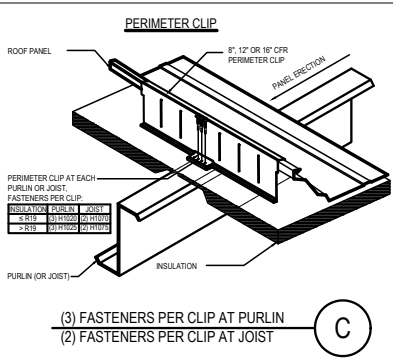
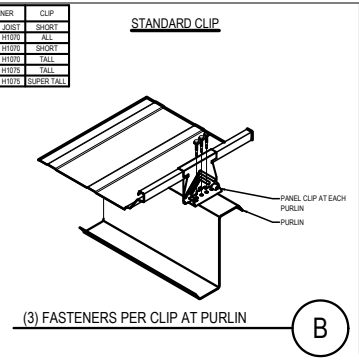
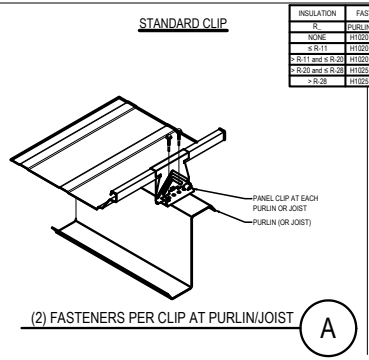
[Download the DWG file by clicking here.](#)



STANDARD CLIPS	
PART #	PART DESCRIPTION
H2300	SHORT FIXED CLIP
H2370	TALL FIXED CLIP
H2320	SHORT SLIDING CLIP
H2330	TALL SLIDING CLIP
H2400	SUPER TALL SLIDING CLIP

PERIMETER CLIPS	
PART #	PART DESCRIPTION
H2720	8" SHORT SLIDING CLIP
H2730	10" TALL SLIDING CLIP
H2740	12" SHORT SLIDING CLIP
H2750	12" TALL SLIDING CLIP
H2760	14" SHORT SLIDING CLIP
H2770	14" TALL SLIDING CLIP

- ROOF SEAMING PLAN**
- NUCOR ROLL LOCK™
 - NUCOR VISE LOCK®
 - NUCOR VISE LOCK 360®



CRITICAL SEAMER ORDERING INFORMATION	
ROOF TYPE	-
PANEL GAUGE	- GA.
SQUARE FOOTAGE (ENTIRE ROOF)	- SQ. FT.
ROOF PITCH	- :12
SEAM HEIGHT	3"
ENDLAPS	<input type="checkbox"/> YES <input type="checkbox"/> NO
GALVALUME OR PAINTED ROOF	<input type="checkbox"/> GALVALUME <input type="checkbox"/> PAINTED
PERIMETER CLIPS REQUIRED	<input type="checkbox"/> YES <input type="checkbox"/> NO

PLEASE NOTE THAT ALL SEAMER ORDERS WILL TAKE APPROXIMATELY 5-7 WORKING DAYS FOR DELIVERY TO JOB SITE FROM DATE OF ORDER. VISE LOCK OPTIONS INCLUDE A 3 STATION SINGLE DIRECTION OR 5 STATION BI-DIRECTIONAL. VISE LOCK 360 ONLY HAS (5) STATION SINGLE DIRECTION AVAILABLE.

DROROFSEAMERS.COM
PHONE: (888) 343-0456

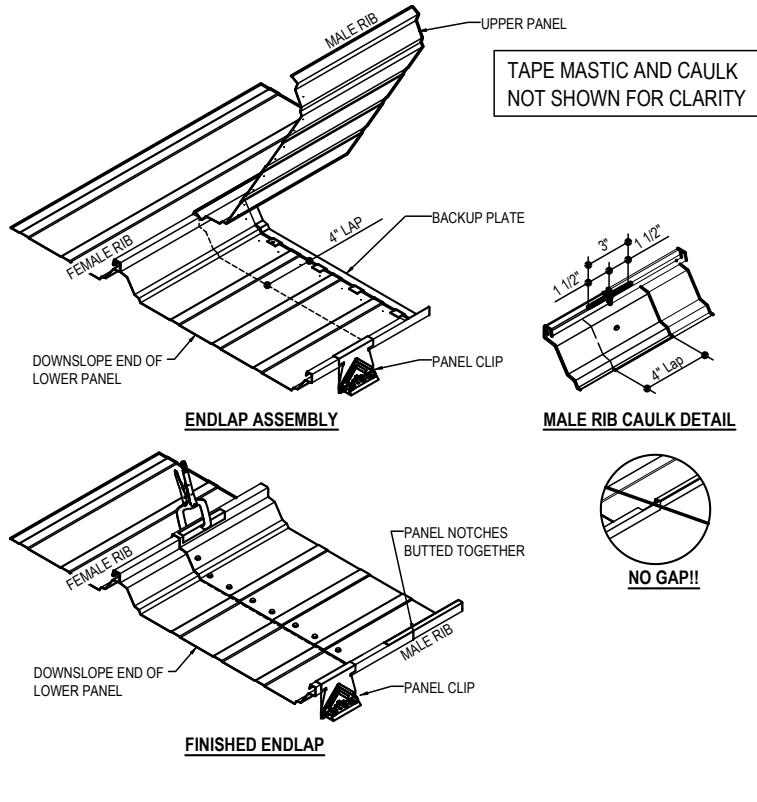
EA6016

Detailer Notes:

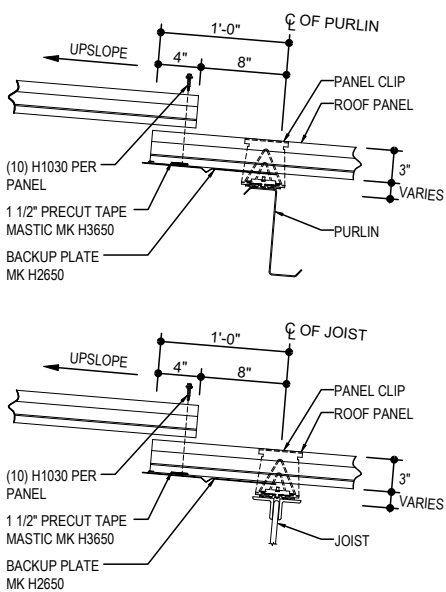
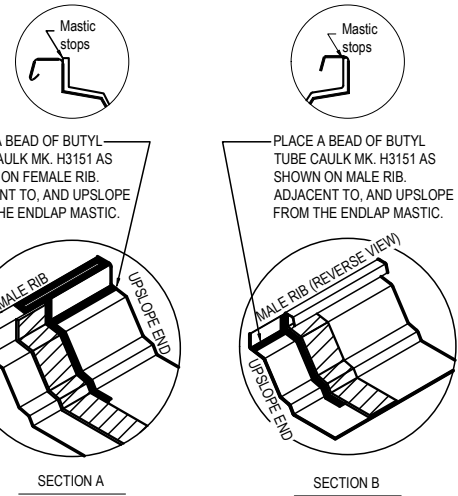
- THIS DETAIL REQUIRED ON EVERY TRAPEZOIDAL ROOF PROJECT.
- PLACE THIS FULL PAGE DETAIL AHEAD OF THE ROOF SHEETING PLAN IN THE ERECTION DRAWING SET.

EA6020 - CFR PANEL ENDLAP

Download the DWG file by clicking here.



TAPE MASTIC AND CAULK NOT SHOWN FOR CLARITY



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 2 1/2" FOR TOP OF MASTIC AND 4" FOR LAP LOCATION. (DO NOT USE PENCIL) SLIDE BACKUP PLATE ONTO LOWER PANEL.

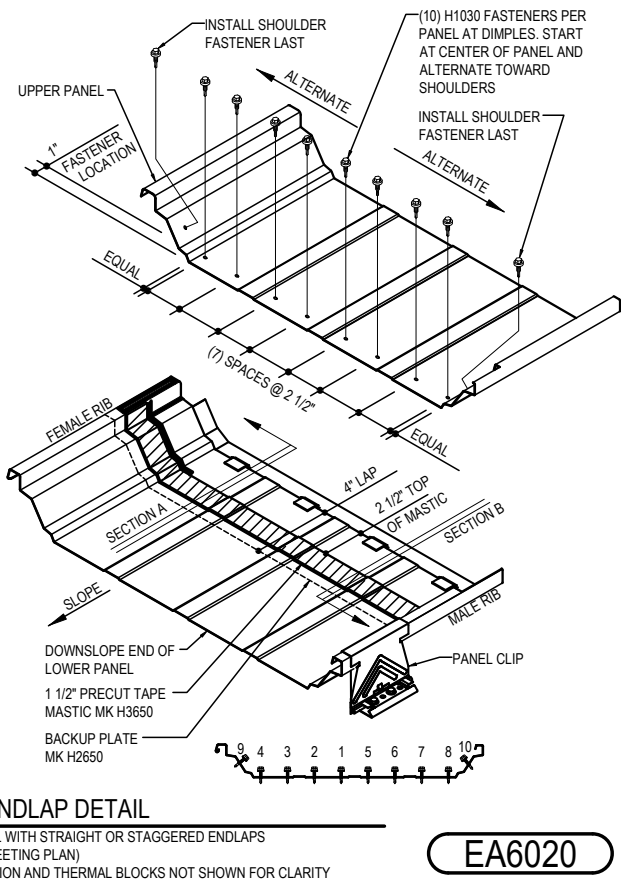
APPLY PRECUT TAPE MASTIC, START AT CORNER OF MALE RIB AND FINISH AT TOP OF FEMALE RIB. LEAVE PAPER BACKING ON MASTIC UNTIL UPPER PANEL HAS BEEN PLACED. MASTIC WILL NOT COVER DIMPLES OF LOWER PANEL.

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 4" 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:

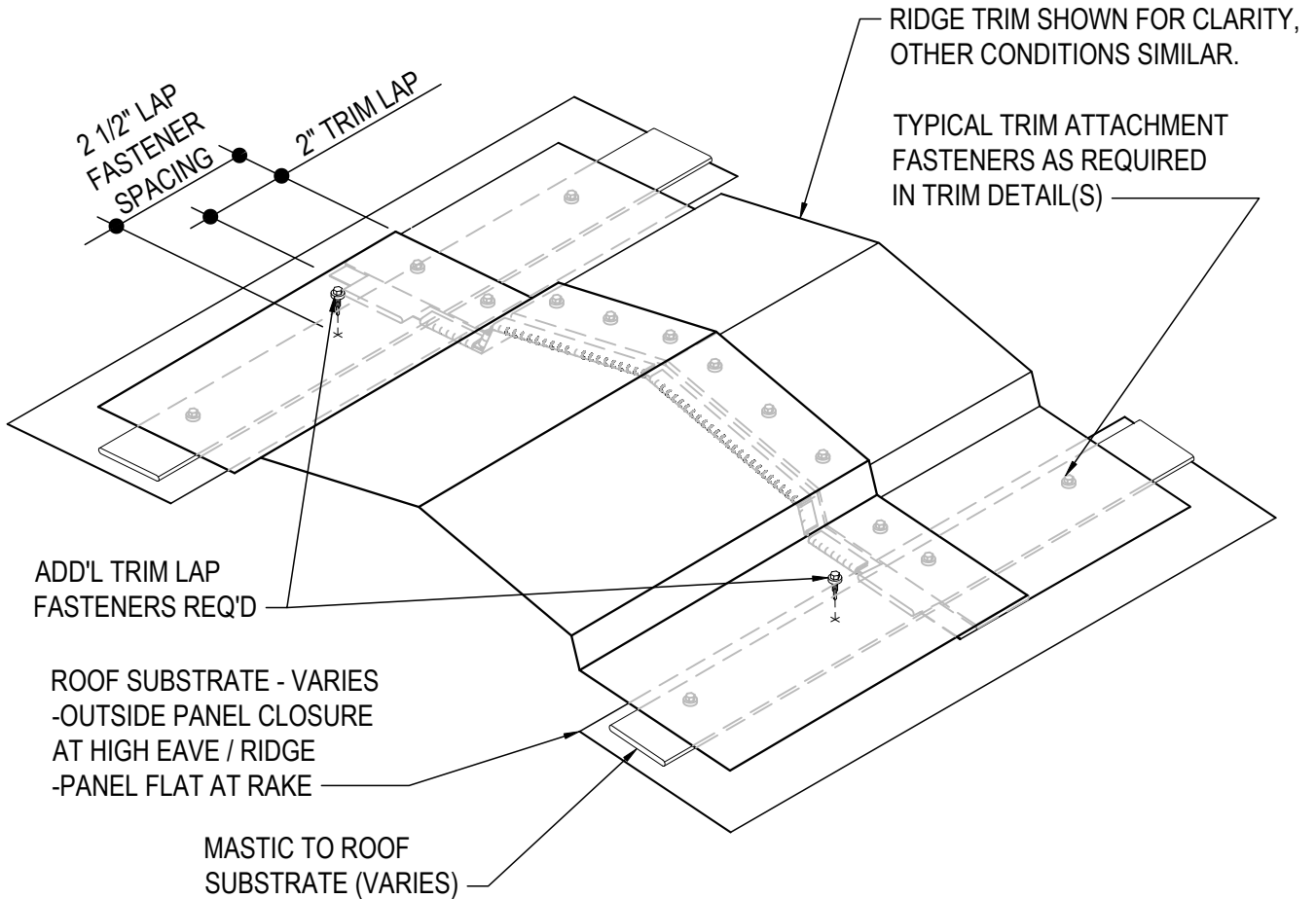
- 1) THIS DETAIL IS REQUIRED ON EVERY PROJECT WITH TRAPEZOIDAL ROOF PANEL WITH ENDLAPS.
- 2) TURN ON THE CORRECT LAYER BASED ON THE SPECIFIC TRAPEZOIDAL PANEL PROFILE AND TURN OFF THE PANEL PROFILES NOT USED.
- 3) THIS STANDARD DETAIL IS APPROVED FOR MIAMI-DADE USE. ALTERATIONS TO THIS DETAIL MAY IMPACT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

EA6076 - TRIM LAP COMPRESSION FASTENER

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

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.

EA6076

Detailer Notes:

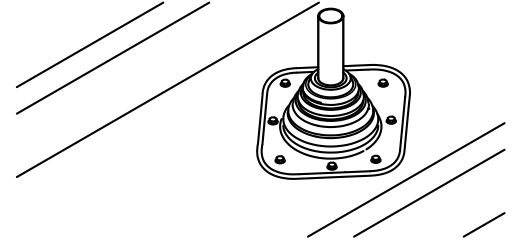
- 1) THIS DETAIL IS TO BE PROVIDED ON ALL PROJECTS WHERE THERE IS LAPPED ROOF LINE TRIM.
- 2) THIS DETAIL IS DUPLICATE OF DA0076, EA3076, EA8076 AND FA2076. DUPLICATE DETAILS ARE TO ENSURE THAT THEY ARE PLACED IN ORDER IN ERECTION DRAWINGS.

EA6200 - PIPE BOOT

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

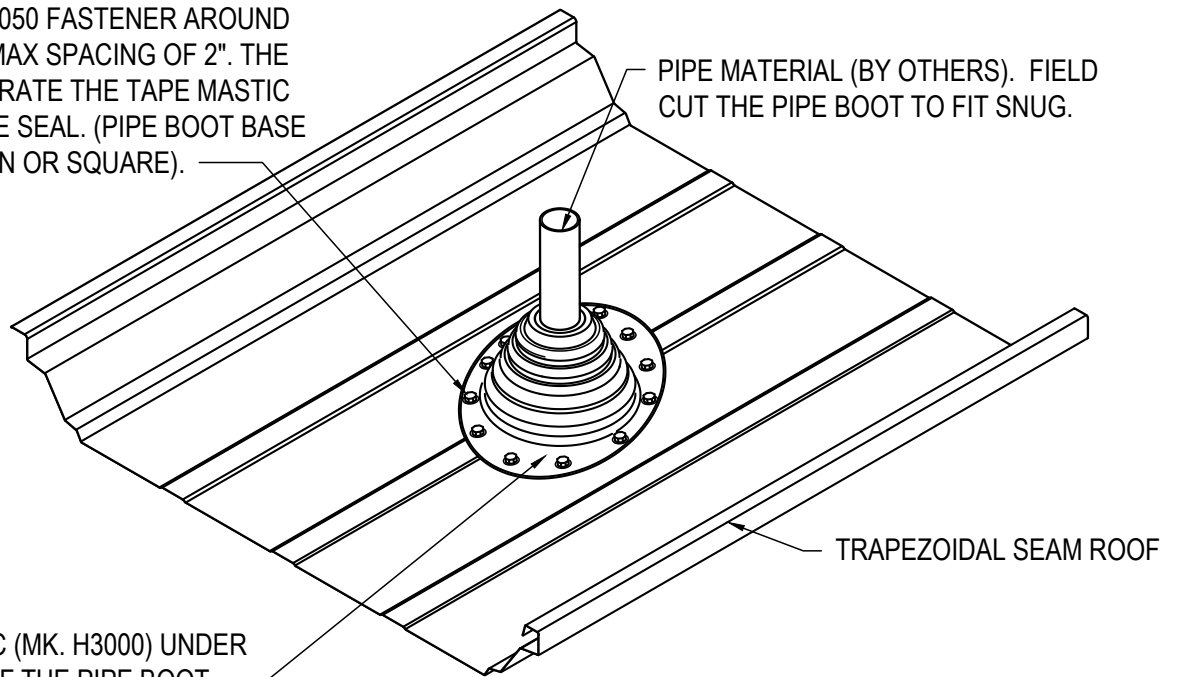
NOTES:

- 1.) IF PIPE BOOT IS SQUARE AND FITS BETWEEN THE MAJOR RIBS, IT IS RECOMMENDED TO ROTATE THE PIPE BOOT 45° AS SHOWN HERE.
- 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.



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 ROUND AS SHOWN OR SQUARE).

PIPE MATERIAL (BY OTHERS). FIELD CUT THE PIPE BOOT TO FIT SNUG.



PLACE 3/4" TAPE MASTIC (MK. H3000) UNDER THE FULL PERIMETER OF THE PIPE BOOT.

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