

GENERAL ROOF DETAILS

METL-SPAN - CFR

EA8000-PROJECT PREPERATION NOTES

EA8010-ROOF IMP START PANEL

EA8020-ROOF PANEL JOINT DETAILS

EA8030-CLIP FASTENER QUANTITY

EA8040-CLIP FASTENER QUANTITY AT JOIST

EA8100-ROOF END LAP AT PURLIN

EA8110-ROOF END LAP AT JOIST

EA8120-ROOF PANEL LAYOUT WITH NO ENDLAPS

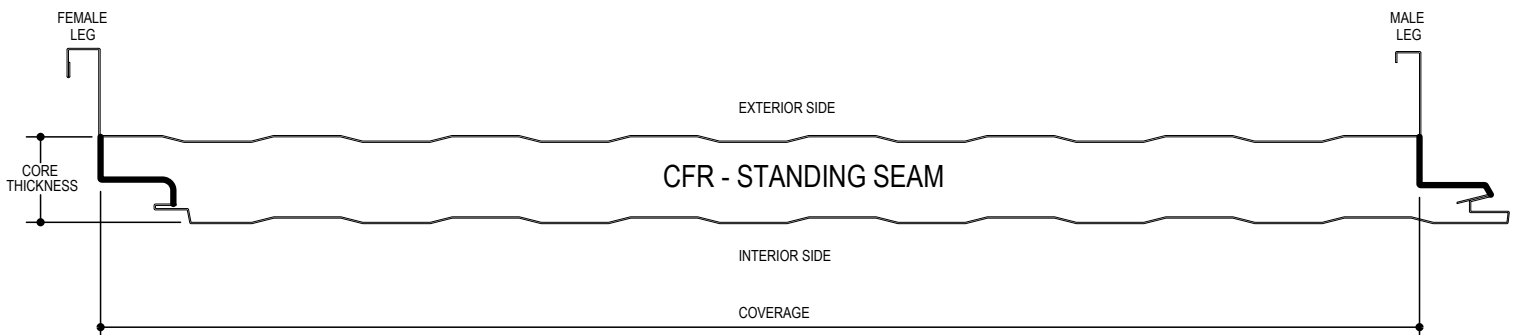
EA8130-ROOF PANEL LAYOUT WITH ONE ENDLAP

EA8140-ROOF PANEL LAYOUT WITH MULTIPLE ENDLAPS

EA8200-PIPE BOOT

METL-SPAN CFR

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PANEL TYPE	CFR - STANDING SEAM
CORE MATERIAL	POLYURETHANE
CORE THICKNESS	X
COVERAGE	X

	<u>EXTERIOR FACE</u>	<u>INTERIOR FACE</u>
GAUGE	24	26
MATERIAL	G-90 GALV. or AZ50 STEEL	G-90 GALV. or AZ50 STEEL
FINISH	PVDF	POLYESTER
COLOR	X	IGLOO.WHITE
PATTERN	EMBOSSSED	EMBOSSSED

Detailer Notes:

1) THIS DETAIL SHOULD BE ADDED TO THE ROOF SHEETING PLAN FOR ALL RESPECTIVE IMP ROOFS. PLACE THIS DETAIL ON THE APPROPRIATE ROOF PLAN AND FILL IN ATTRIBUTES ACCORDINGLY. IF YOU HAVE MULTIPLE COLORS / CONFIGURATIONS OF PANELS, INSERT EACH TYPE AND LABEL ON THE PLAN WHERE EACH UNIQUE PANEL BEGINS / ENDS TO AVOID ERRORS.

EA8000 - PROJECT PREPERATION NOTES

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SUGGESTED INITIAL PROCEDURES FOR INSTALLER:

- CHECK ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES TO VERIFY COMPLIANCE WITH THE CODE.
- BE CERTAIN THAT SITE CONDITIONS ARE SUCH THAT SAFE WORKING PRACTICES ARE STRICTLY OBSERVED.
- REVIEW ALL INSTALLATION DRAWINGS AND ASSOCIATED PROJECT DOCUMENTS.
- CONSULT WITH THE GENERAL CONTRACTOR, DESIGN ENGINEER, ARCHITECT AND/OR OWNER TO CONFIRM THOSE RECOMMENDED.
- COMPLY WITH ALL SAFETY REGULATIONS.

IT IS THE RESPONSIBILITY OF THE DESIGNER/ CONTRACTOR/ INSTALLER TO ENSURE THAT THE DETAILS AND INSTALLATION PROCEDURES ARE ADAPTED TO MEET PARTICULAR BUILDING REQUIREMENTS. THE METAL BUILDING PANEL SUPPLIER SHALL NOT BE HELD LIABLE FOR ANY AND ALL CLAIMS ARISING FROM LACK OF PROPER INSTALLATION. THE DESIGNER/ INSTALLER MUST BE AWARE OF AND ALLOW FOR EXPANSION AND CONTRACTION OF WALL PANELS WHEN DESIGNING AND/OR INSTALLING WALL PANELS.

SOME FIELD CUTTING IS PART OF NORMAL ERECTION WORK. WORKMANSHIP SHALL CONFORM TO THE HIGHEST INDUSTRY STANDARDS. A CERTAIN AMOUNT OF WAINSCOTTING MAY EXIST IN THE PANEL. MINOR WAINSCOTTING IS NOT SUFFICIENT CAUSE FOR REJECTION AND DOES NOT AFFECT THE STRUCTURAL INTEGRITY OF THE PANEL. MINIMIZING OR ELIMINATING THIS EFFECT CAN BE ACCOMPLISHED BY USING SIMPLE INDUSTRY STANDARD PROCEDURES DURING SURFACE PREPARATION.

NOTES FOR HANDLING PANELS AND COMPONENTS:

INSULATED PANELS ARE CAREFULLY INSPECTED AND BUNDLES PRIOR TO LOADING FOR SHIPMENT. IT IS THE RESPONSIBILITY OF THE TRANSPORTATION COMPANY TO DELIVER THESE COMPONENTS UN Damaged. IT IS THE CONSIGNEE'S RESPONSIBILITY TO INSPECT THE SHIPMENT FOR DAMAGE AND SHORTAGES WHEN IT IS RECEIVED.

WHEN A SHIPMENT IS RECEIVED, CHECK EACH ITEM AGAINST THE BILL OF LADING FOR QUANTITY, LENGTH, DAMAGE, ETC. IF A SHORTAGE OR DAMAGE IS FOUND, MAKE A NOTATION OF IT IS MADE ON THE BILL OF LADING AND REPORT BY THE DRIVER. THE MANUFACTURER CANNOT BE RESPONSIBLE FOR SHORTAGES OR DAMAGED MATERIALS UNLESS THEY ARE NOTED ON THE BILL OF LADING.

IN THE CASE OF PACKAGED COMPONENTS (SUCH AS CLIPS, FASTENERS, AND SEALANTS, ETC.), THE QUANTITIES ARE MARKED ON THEIR CONTAINER AND SHOULD BE CHECKED AGAINST THE BILL OF MATERIALS.

IT IS THE CUSTOMER'S RESPONSIBILITY TO MAKE ANY DAMAGE CLAIM IMMEDIATELY NOTIFY THE DESIGNATED CUSTOMER SERVICE COORDINATOR OF ANY SHORTAGES OR DAMAGED MATERIALS. THIS WILL HELP TO MINIMIZE ANY ERECTION DELAYS THAT MAY RESULT FROM THE SHORTAGE OR DAMAGED MATERIALS.

UPON ARRIVAL OF PANELS, FORKLETS OR HOISTING EQUIPMENT WILL BE REQUIRED TO UNLOAD AND POSITION THE PANEL BUNDLES AND ACCESSORY CRATES FOR JOBSITE STORAGE AND INSTALLATION.

EXTREME CARE SHOULD BE TAKEN TO AVOID BUMPING THE PANELS WHILE LIFTING AND MANEUVERING. IN ALL CASES PANELS SHOULD NOT DEFLECT SIGNIFICANTLY IN THE LIFTING PROCESS.

WHEN HANDLING PANELS INDIVIDUALLY, ALL PERSONNEL MUST WEAR THE PROPER CLOTHING, PROTECTIVE EYE WEAR, AND GLOVES.

TO HELP PREVENT DAMAGES TO THE SURFACES AND EDGES:

- ALWAYS LIFT THE PANELS WHEN REMOVING THEM FROM BUNDLES, NEVER DRAG THEM.
- NEVER LIFT THE PANEL FROM THE FLAT POSITION WITH THE HOOK OF THE VERTICAL SEAM.
- DO NOT CARRY PANELS IN THE FLAT POSITION.

UNLOADING:

PANELS ARE SPINAL WRAPPED WITH STRETCH FILM AND SHIPPED FLAT. PANEL BUNDLES ARE REINFORCED AT SPECIFIED LIFTING POINTS TO PREVENT DAMAGE WHEN LIFTING. SEE FIGURES 1 AND 2 IN THIS SECTION TO DETERMINE WHERE THE LIFTING POINTS ARE FOR THE PANEL BUNDLES.

UNLOADERS MUST TAKE CARE THAT FORKLETS FORKS ARE LOCATED AT THE PARTICLE BOARD ON THE PANEL BUNDLES BEFORE LIFTING.

EXTREME CARE SHOULD BE TAKEN TO AVOID BUMPING OR DROPPING THE PANELS WHEN LIFTING AND MANEUVERING.

WHEN UNLOADING BUNDLES OF 36" OR LONGER IN LENGTH, TWO OR MORE LIFTING POINTS MAY BE REQUIRED. OVER ENGAGEMENT OF FORKS WILL CAUSE DAMAGE TO THE MATERIALS LOCATED ON THE OPPOSITE SIDE OF THE BUNDLE BEING LIFTED.

WHEN AN OVERHEAD CRANE IS USED, REINFORCED NYLON SLINGS OR STRAPS SHOULD BE USED. NO CHAINS OR CABLES SHOULD COME IN CONTACT WITH THE PANELS, ALONG WITH SUITABLE STIFF INSERTS LOCATED AT TOP AND BOTTOM OF THE BUNDLES AT THE SLING POSITIONS TO PROTECT THE PANELS FROM DAMAGE. ALSO, PLACE FOAM BLOCKS ON THE SIDES OF BUNDLES AT ALL SLING LOCATIONS.

NOTES:

- REINFORCED LIFTING POINTS ARE CLEARLY MARKED ON THE PANEL BUNDLE. (SEE FIGURES 1 & 2.)
- LONG LENGTH PANELS HAVE TWO OR MORE LIFTING POINTS. (SEE FIGURE 2.)
- USE EXTREME CARE TO AVOID BUMPING OR DROPPING THE PANELS WHILE LIFTING AND MANEUVERING.
- HOST THE PANELS TO THE ROOF WITH THE AID OF NYLON SLINGS AND A SPREADER BAR TO PREVENT ANY CHANCE OF BENDING OR BUCKLING THE PANELS.

UNLOADING WITH A FORKLETT:

- OVER ENGAGEMENT OF FORKS WILL CAUSE DAMAGE TO THE MATERIALS LOCATED ON THE OPPOSITE SIDE OF THE BUNDLE BEING LIFTED.
- PANELS SHOULD NOT DEFLECT SIGNIFICANTLY IN THE LIFTING PROCESS.
- ENSURE THE FORKS STRADDLE THE DESIGNATED LIFT POINT.
- LIFT BUNDLES ONE AT A TIME WITH THE FORKLETT.



FIGURE 1
STANDARD LENGTH BUNDLES

- BE CAREFUL WHEN UNLOADING OR MOVING LONG LENGTH BUNDLES.
- DO NOT POSITION YOUR LIFT AT THE CENTER OF THE BUNDLE, THIS MAY CAUSE PANEL DAMAGE.
- EACH FORKLETT SHOULD STRADDLE ONE LIFT POINT.



FIGURE 2
LONG LENGTH BUNDLES

UNLOADING WITH AN OVERHEAD CRANE:

- USE NYLON REINFORCED SLINGS OR STRAPS LOCATED AT A MINIMUM OF TWO POINTS ALONG THE LENGTH OF THE BUNDLE FOR CRANE LIFTING OF THE INDIVIDUAL BUNDLES.
- CHAINS OR CABLES SHOULD NOT COME IN CONTACT WITH THE PANELS.
- SUITABLE STIFF INSERTS SHOULD BE LOCATED AT TOP AND BOTTOM OF THE BUNDLES AT THE SLING POSITIONS TO PROTECT THE EDGES OF THE UPPER AND LOWER PANELS.
- WHEN BUNDLES ARE LONGER THAN 10' IT IS SUGGESTED THAT A PROPERLY DESIGNED AND FABRICATED LIFTING BEAM IS USED.

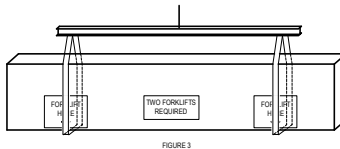


FIGURE 3
BUNDLES UNDER 4000 LBS AND LESS THAN 44' 0"

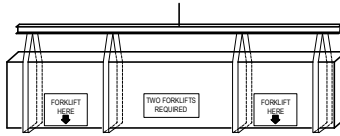


FIGURE 4
BUNDLES OVER 4000 LBS AND LESS THAN 44' 0"

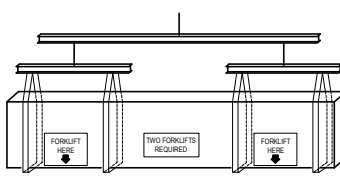


FIGURE 5
BUNDLES OVER 4000 LBS AND MORE THAN 44' 0"

MANUALLY UNLOADING:

- ON SMALL PROJECTS UNLOADING OF THE PANELS MAY BE CARRIED OUT BY HAND.
- SPECIAL CARE SHOULD BE TAKEN WHEN HANDLING. ALWAYS LIFT THE PANELS WHEN REMOVING FROM A BUNDLE, NEVER DRAG THEM.
- WARNING: TO PREVENT JOINT DAMAGE, NEVER LIFT THE PANEL FROM THE FLAT POSITION WITH THE HOOK OF THE VERTICAL SEAM. LIFT FROM THE BOTTOM SIDE.
- IT IS IMPORTANT THAT WHENEVER A PANEL IS HANDLED, PICKED UP, MOVED OR CARRIED IT SHOULD BE TURNED ON EDGE FIRST. DO NOT CARRY PANEL WHILE FLAT.
- WORKING SAFELY: ALL PERSONNEL DOING THESE PROCEDURES MUST WEAR AT ALL TIMES THE PROPER CLOTHING, PROTECTIVE EYE WEAR AND GLOVES.

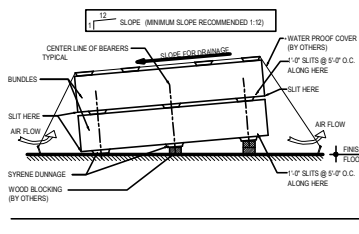


THE METAL BUILDING PANEL SUPPLIER DOES NOT TAKE ANY RESPONSIBILITY FOR DAMAGE CAUSED FROM MISUSE OF PANELS. DAMAGED PANELS SHALL BE REPLACED OR CORRECTED TO APPROVAL BY THE ARCHITECT AND ANY COSTS INCURRED SHALL BE BORNE BY THE PARTIES RESPONSIBLE FOR THE DAMAGE.

JOBSITE STORAGE:

UPON ACCEPTANCE OF THE SHIPMENT, THE CUSTOMER IS RESPONSIBLE FOR PROPER HANDLING, STORAGE AND SECURITY OF THE RECEIVED MATERIALS. THE MANUFACTURER IS NOT RESPONSIBLE FOR DAMAGE OR LOSS OF MATERIALS AT THE JOBSITE.

- PANELS NOT REQUIRED FOR IMMEDIATE USE SHOULD BE:**
- CORRECTLY UNLOAD AND PLACE IN PROTECTED STORAGE AREA ON A FIRM LEVEL SURFACE CLEAR OF DEBRIS, PREFERABLY UNDER WATER PROOF COVER AND SLIT PLASTIC WRAP AT BASE TO ALLOW AIR FLOW FOR NO LONGER THAN 30 DAYS.
 - CUT SLIT BOTTOM OF THE PLASTIC WRAP IN 1" INCREMENTS AT 8" O.C. ALONG THE LENGTH OF THE BUNDLES.
 - CONTINUOUS CUT SLIT SHOULD BE MADE ALONG THE WIDTH OF THE BUNDLE.
 - ELEVATE WITH WOOD BLOCKS TO ALLOW AIR CIRCULATION UNDER THE BUNDLE ON A FIRM LEVEL SURFACE CLEAR OF DEBRIS, STANDING WATER, DIRECT SUN, AND DRIFTING SNOW.
 - SEPARATE FLAT AND BUNDLES WITH THE STYROFOAM DUNNAGE PROVIDED WITH THE SHIPMENT.
 - BUNDLES CAN BE STACKED, NO MORE THAN 2 BUNDLES HIGH.
 - SLIPS AT A MINIMUM OF 60" O.C. DRAINAGE OF MOISTURE FROM PANELS.
 - INSPECT DAILY FOR MOISTURE. INSURE NO SAPS ARE PRESENT. TRAPPED MOISTURE CAN DAMAGE THE PANEL FINISH AND VOID APPLICABLE FINISH WARRANTIES. IF PANEL BUNDLES CONTAIN MOISTURE OR SAPS, THE PANEL BUNDLE SHOULD BE DRIED AND RESTACKED. USE CARE IN RESTACKING TO AVOID DAMAGE TO PANELS.



PANELS FOR IMMEDIATE USE:

IF THE PANELS ARE TO BE USED IMMEDIATELY, THE BUNDLES SHOULD BE PLACED AT PRE-PLANNED STRATEGIC LOCATIONS AROUND THE PERIMETER OF THE BUILDING, AS CLOSE AS POSSIBLE TO THE PLANNED WORK AREAS, TO AVOID ON-SITE MANEUVERING.

WHEN MOVING PANEL BUNDLES, EXTREME CAUTION SHOULD BE TAKEN TO PREVENT DAMAGE TO THE PANEL SURFACES AND EDGES.

WHEN HANDLING PANELS INDIVIDUALLY, THEY SHOULD BE CARRIED IN A VERTICAL, NOT FLAT POSITION. NEVER DRAG PANELS WHEN REMOVING THEM FROM BUNDLES.

(SEE "HANDLING PANELS AND COMPONENTS")

INSTALLATION TOOLS:

- READ BEFORE YOU START!**
- SLIDING PANELS TOGETHER WILL SCUFF, DISCOLOR OR DAMAGE THE FINISH.
 - IT IS IMPORTANT TO NOTE THAT, DUE TO THE HIDDEN FASTENER SIDE LAP CONNECTIONS OF THESE PANELS, EXTRA CARE SHOULD BE TAKEN WHEN HANDLING THESE COMPONENTS.
 - THE FOLLOWING IS A LIST OF COMMON TOOL REQUIREMENTS. REFER TO "FIELD CUTTING" FOR PANEL CUTTING GUIDELINES.
 - WEARING CLEAN GLOVES, HANDLING THE PANELS BY EDGES AND TAKING A LITTLE EXTRA CARE WILL PAY OFF BY PRODUCING A GOOD CLEAN FINISHED ROOF.

COMMON TOOL REQUIREMENTS:		
CIRCULAR SAW	POWER DRILL	CARPENTER'S SQUARE
PIVET GUN	LEVEL	CHALK LINE
TAPE MEASURE	CALLAW GUN	SCREW GUN
POWER SHEARS	HAMMER DRILL	POWER NIBBLER

CAUTION: ANY METAL FILMS OR BURRS SHOULD BE CLEARED OFF THE FACE OF THE PANELS AS SOON AS POSSIBLE TO PREVENT RUST FROM FORMING ON THE PAINT. (SEE "CLEANING PROCEDURES")

ALIGNMENT SHIMMING:

PRIOR TO INSTALLATION, ROOF SECONDARY MEMBERS SHOULD BE CHECKED FOR OVERALL DIMENSIONS AND EVENNESS OF PLANE. THE ROOF SECONDARY MEMBERS SHOULD ALSO BE CHECKED TO VERIFY THE ROOF SYSTEM CAN BE INSTALLED WITHOUT INTERFERENCE. PRIOR TO INSTALLATION OF INSULATED PANEL, INSPECT ROOF FOR COMPONENT ALIGNMENT AND PLANE FLATNESS.

MISALIGNED SECONDARY STEEL MAY REQUIRE THE ERECTOR TO SHIM THE INSULATED ROOF PANELS AT SOME LOCATIONS. SHIMS AND LABOR FOR INSTALLING SHIMS ARE OTHERS.

FASTENERS:

INSULATED PANEL FASTENERS VARY BASED ON LOCATION AND PANEL THICKNESS. THE FASTENERS LISTED BELOW ARE TYPICAL FASTENERS. ADDITIONAL FASTENERS, WHEN REQUIRED BY DESIGN, WILL BE INDICATED ELSE WHERE ON THE ERECTION DRAWING SET.

4L	SELF-DRILLING SCREW	H1030	SELF-DRILLING SCREW	H1050	SELF-DRILLING SCREW
	14-14 x 1 1/4" TYPE 7		14-14 x 1 1/4" TP 3		14-14 x 1 1/4" TP 1
			W WASHER		W WASHER
H1100	1" STAINLESS STEEL BLIND POP RIVET	17	SELF-DRILLING SCREW	4	SELF-DRILLING SCREW
	GRP RANGE: 18" - 31 1/2"		13-14 x 1 1/4" TP 3		14-14 x 1 1/4" TP 1
11	1" STAINLESS STEEL BLIND POP RIVET	H1200	SELF-DRILLING SCREW	4	LOCKWASHER
	GRP RANGE: 18" - 31 1/2"		13-14 x 1 1/4" TP 3		LOCKWASHER 303 B DOMED HEAD W/ WASHER
11A	1" STAINLESS STEEL BLIND POP RIVET		SQUARE / PHILLIPS PANCAKE HEAD		
	GRP RANGE: 5' 8" - 31 1/2"				
11A	1" STAINLESS STEEL BLIND POP RIVET				
	GRP RANGE: 5' 8" - 31 1/2"				

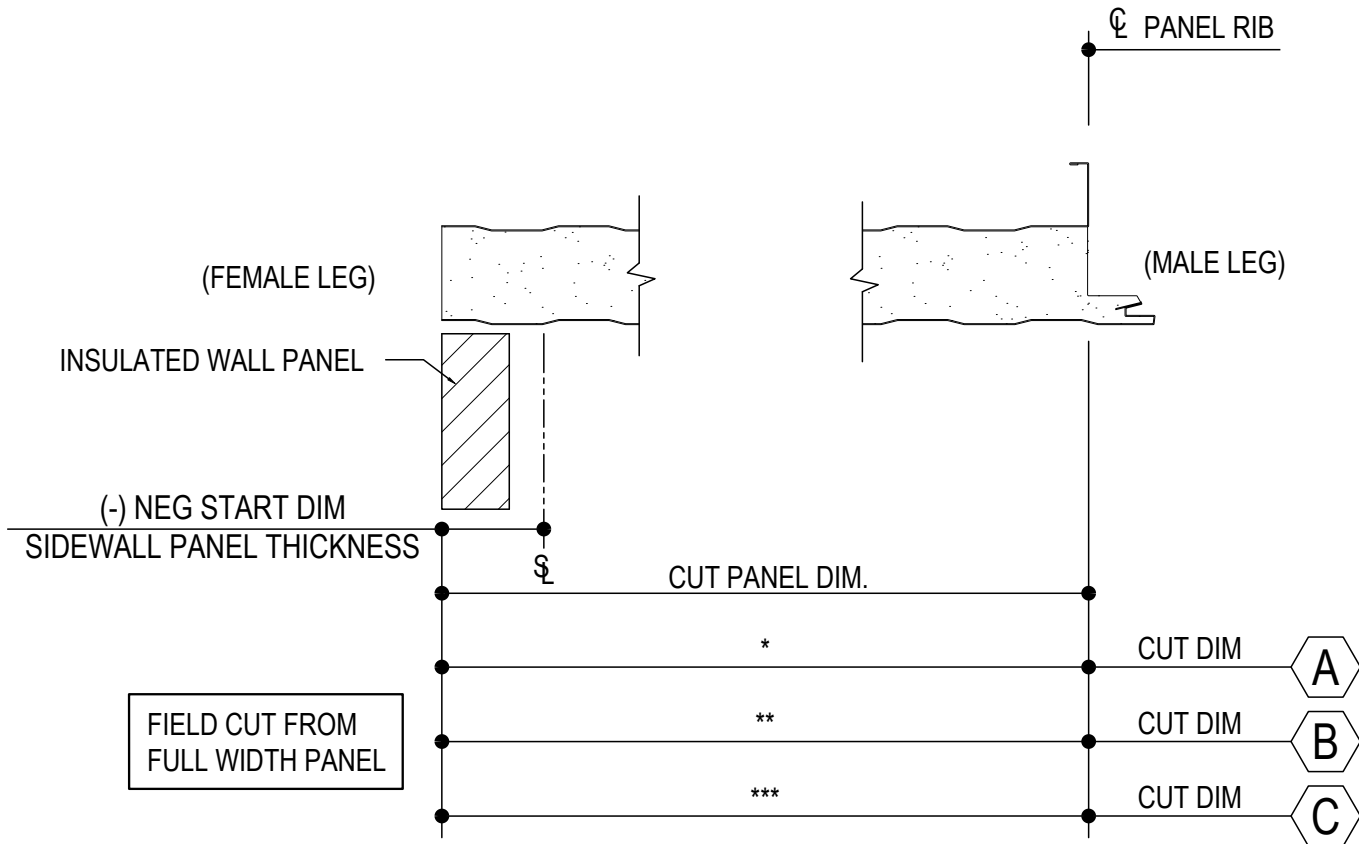
16	PNC 17	PNC	STRUCTURAL FASTENERS AT PANEL JOINT
#14 X .50H (SELF DRILLING HEX HEAD)			
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16	PNC	STRUCTURAL FASTENER AT PANEL FACE
#14 X .50H (SELF DRILLING PANCAKE HEAD)		
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16	PNC	STRUCTURAL FASTENER FOR THROUGH
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EA8010 - CFR IMP START PANEL DETAIL

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START PANEL WIDTH DETAIL (FIELD CUT)

NOTE: THE FINISH PANEL ALSO NEEDS TO BE CUT TO THE REQUIRED WIDTH FROM A FULL PANEL. WIDTH DETERMINED IN THE FIELD

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

EA8010

Detailer Notes:

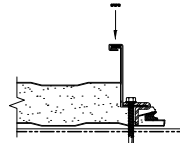
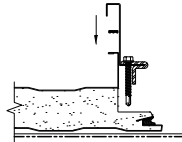
- 1) THIS DETAIL SHOULD BE PLACED ON THE ERECTION DRAWINGS

EA8020 - ROOF PANEL JOINT DETAILS

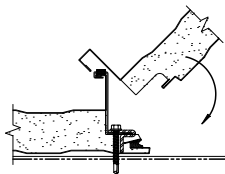
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PANEL JOINT SEQUENCE

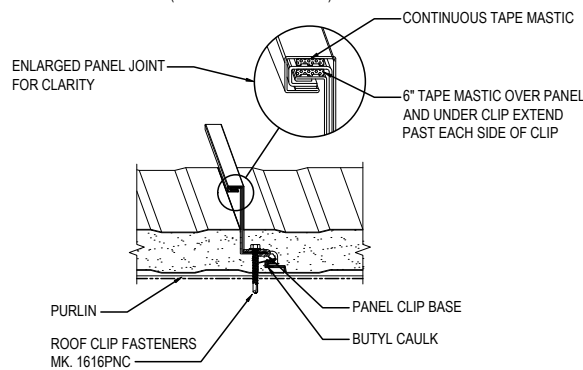
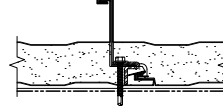
- | | |
|--|---|
| <p>① SET PANEL IN PLACE</p> <p>② INSTALL PANEL CLIP ON TOP OF 6" OF 1/2" TAPE MASTIC MK. H3010</p> <p>③ SECURE TO PURLINS W/ ROOF CLIP FASTENERS MK. 1616PNC</p> | <p>④ HAND "CRIMP" THE STANDING RIB / CLIP ASSEMBLY AT EACH CLIP LOCATION</p> <p>⑤ INSTALL CONTINUOUS TAPE MASTIC MK. H3010 ON TOP OF MALE STANDING SEAM</p> |
|--|---|



- ⑥ TILT NEXT PANEL TO BE INSTALLED AT 45 DEGREE ANGLE, ROTATE INTO POSITION



- ⑦ USE CLAMPS TO ENSURE PROPER PANEL ENGAGEMENT
- ⑧ HAND CRIMP AT RIDGE, ENDLAP AND EAVES
- ⑨ INSTALL RIDGE, RAKE AND EAVE COMPONENTS, THEN MECHANICALLY SEAM ROOF



DIRECTION OF INSTALLATION →

FINISHED PANEL JOINT

PANEL JOINT

INSULATED METAL PANEL ROOF INSTALLATION SEQUENCE

EA8020

Detailer Notes:

- 1) N/A

EA8030 - CLIP FASTENER QUANTITY

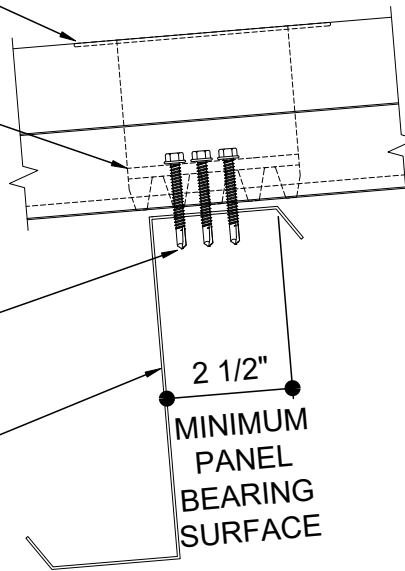
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6" OF 1/2" TAPE MASTIC H3010
UNDER PANEL CLIP

PANEL CLIP

(3) ROOF CLIP FASTENERS
MK. 1616PNC

PURLINS



CLIP FASTENER QUANTITY

INSULATED METAL PANEL ROOF CLIP ATTACHMENT

EA8030

Detailer Notes:

1) N/A

EA8040 - CLIP FASTENER QUANTITY AT JOIST

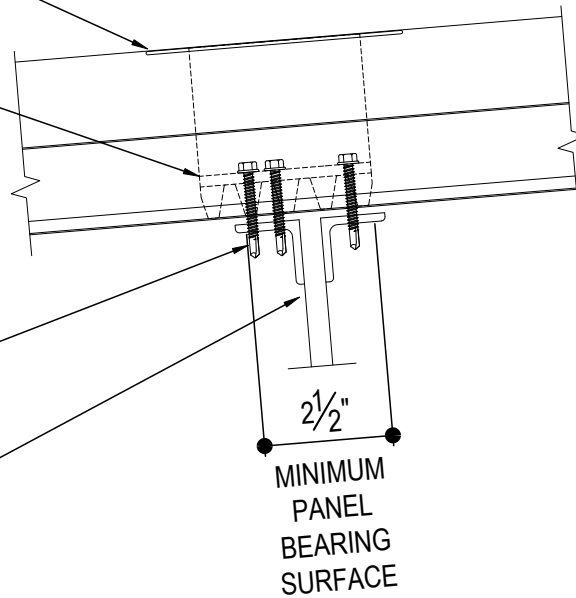
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6" OF 1/2" TAPE MASTIC H3010
UNDER PANEL CLIP

PANEL CLIP

(3) ROOF CLIP FASTENERS
MK. 1724PNC

ROOF JOIST



CLIP FASTENER QUANTITY

INSULATED METAL PANEL ROOF CLIP ATTACHMENT

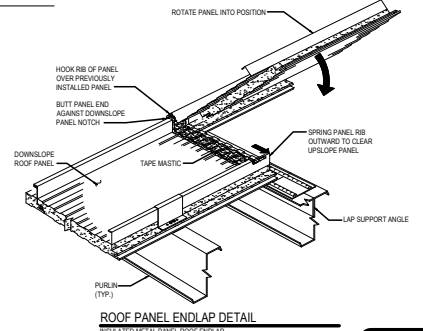
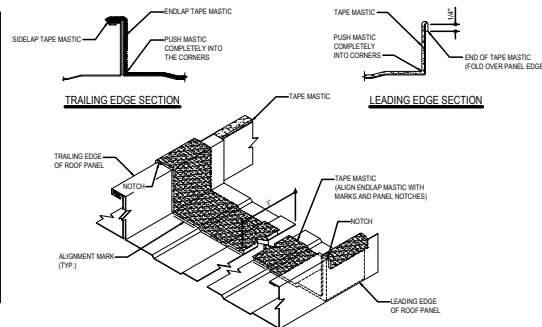
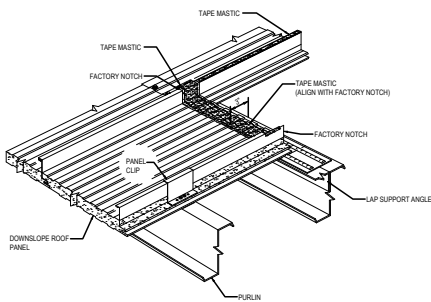
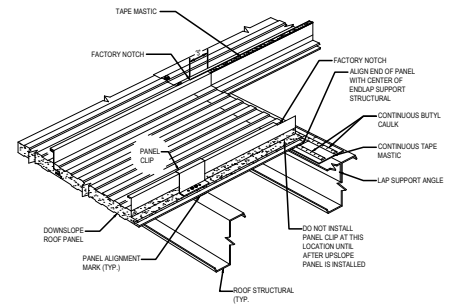
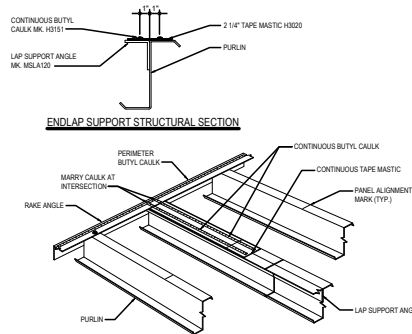
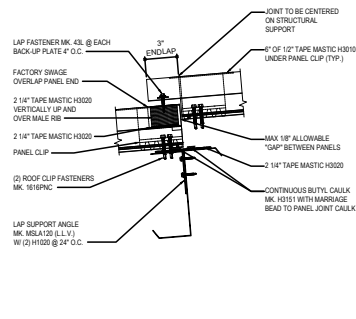
EA8040

Detailer Notes:

1) N/A

EA8100 - ROOF END LAP AT PURLIN

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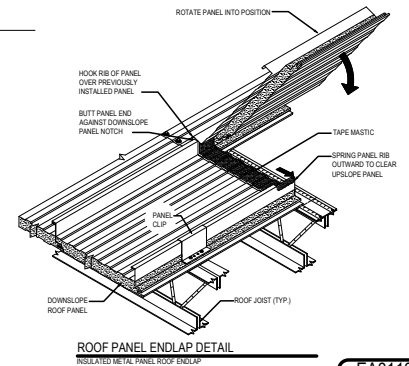
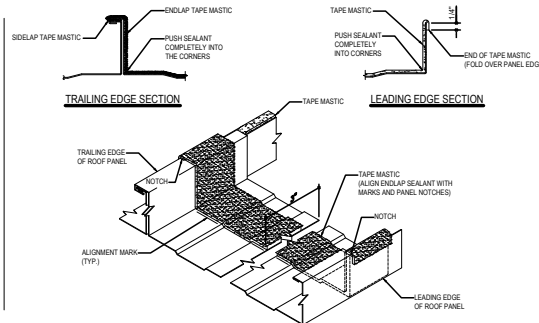
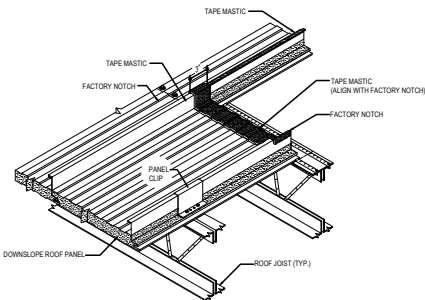
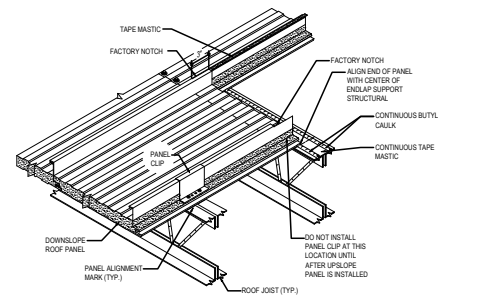
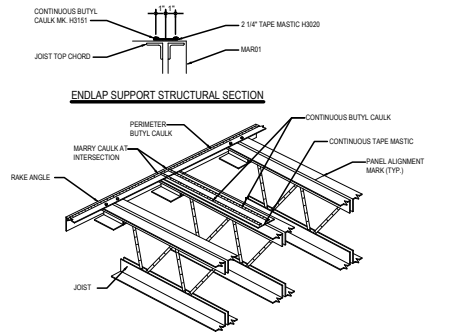
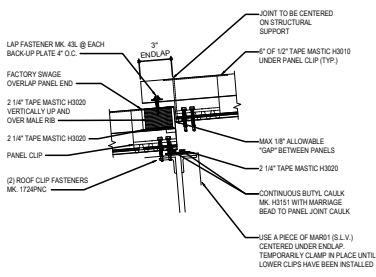
EA8100

Detailer Notes:

1) N/A

EA8110 - ROOF END LAP AT JOIST

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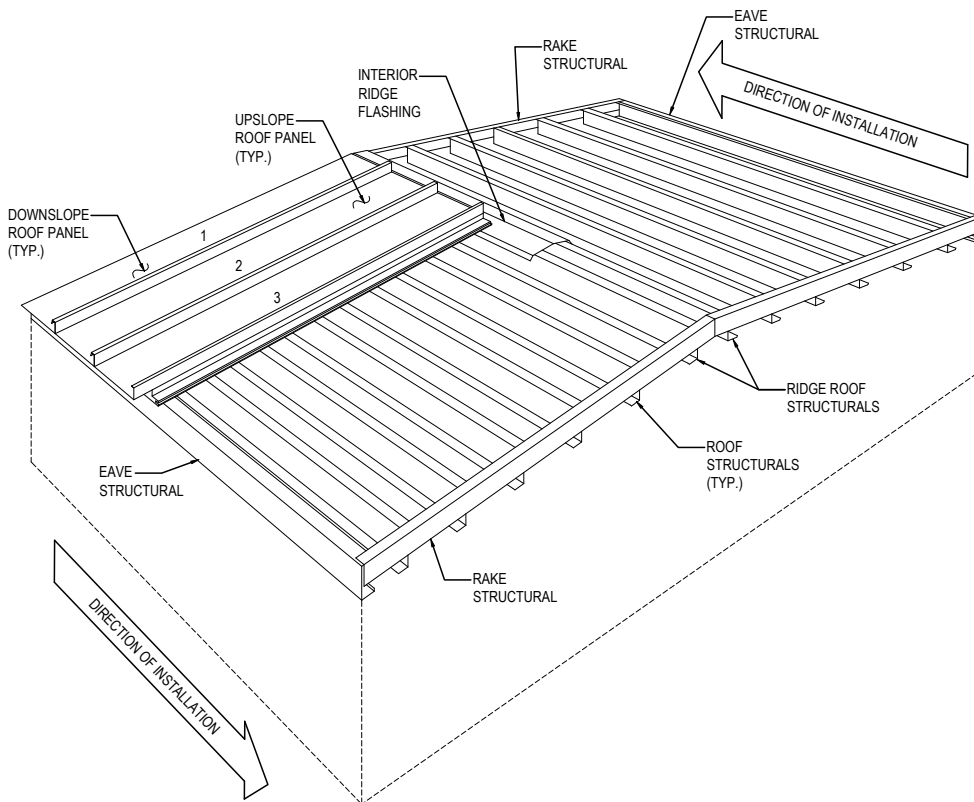
EA8110

Detailer Notes:

1) N/A

EA8120 - ROOF PANEL LAYOUT WITH NO ENDLAPS

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ROOF PANEL LAYOUT

ROOF PANEL LAYOUT WITH NO ENDLAP

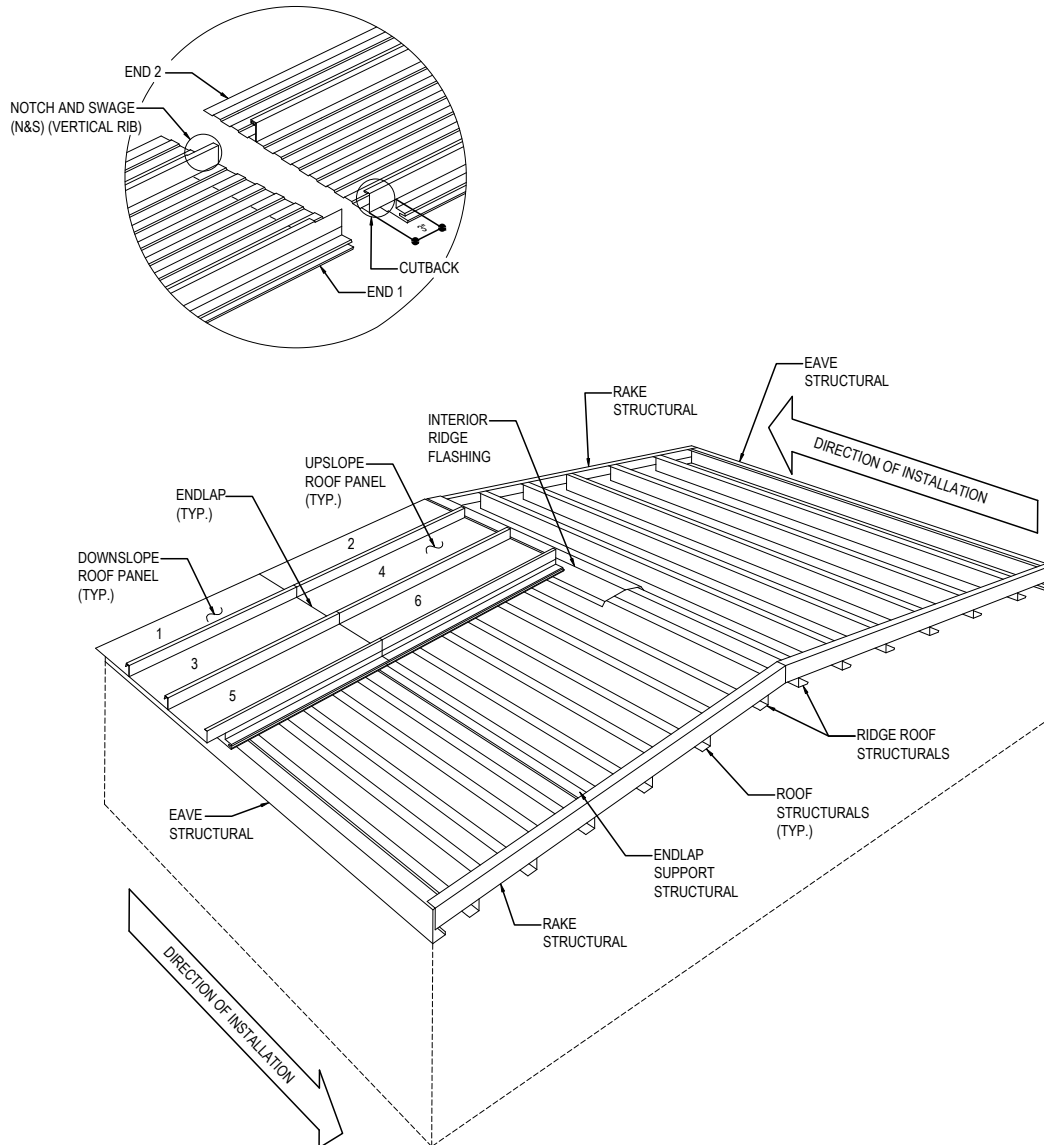
EA8120

Detailer Notes:

1) N/A

EA8130 - ROOF PANEL LAYOUT WITH ONE ENDLAP

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ROOF PANEL LAYOUT

ROOF PANEL LAYOUT WITH ONE ENDLAP

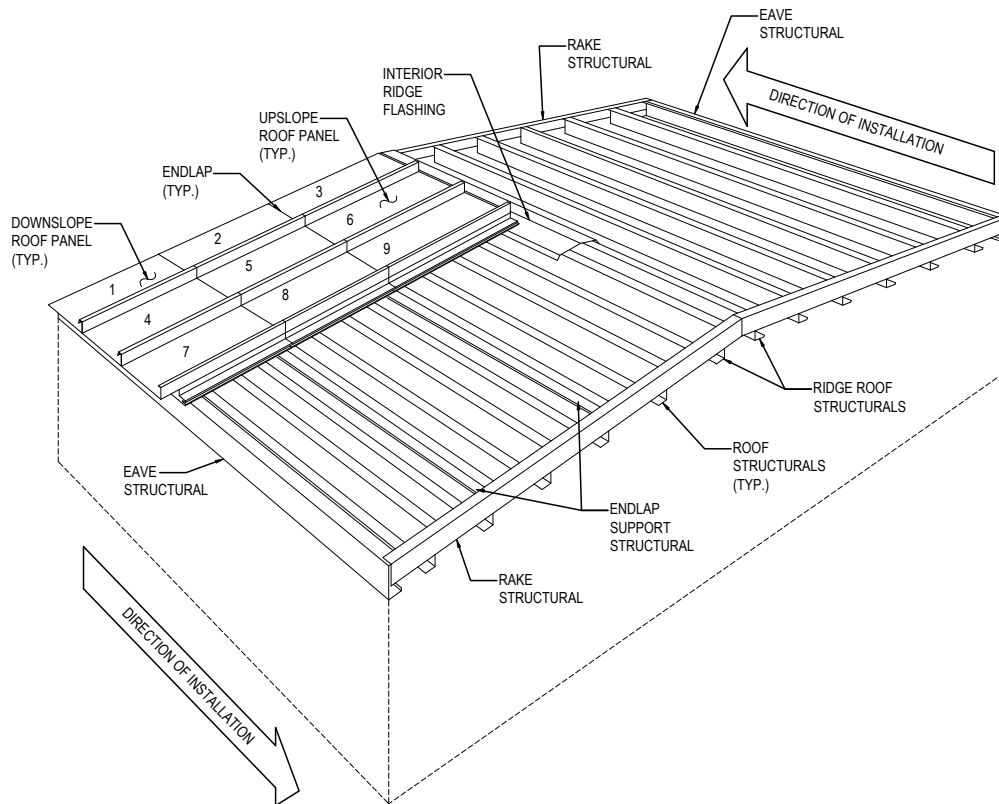
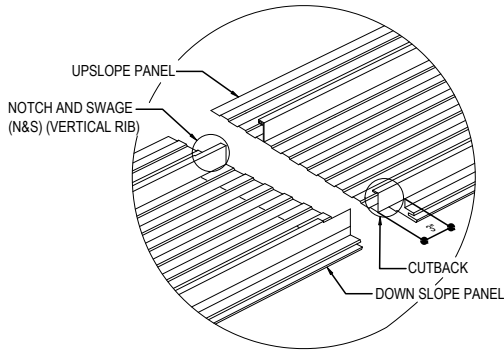
EA8130

Detailer Notes:

1) N/A

EA8140 - ROOF PANEL LAYOUT WITH TWO OR MORE ENDLAPS

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ROOF PANEL LAYOUT
 ROOF PANEL LAYOUT WITH TWO OR MORE ENDLAPS

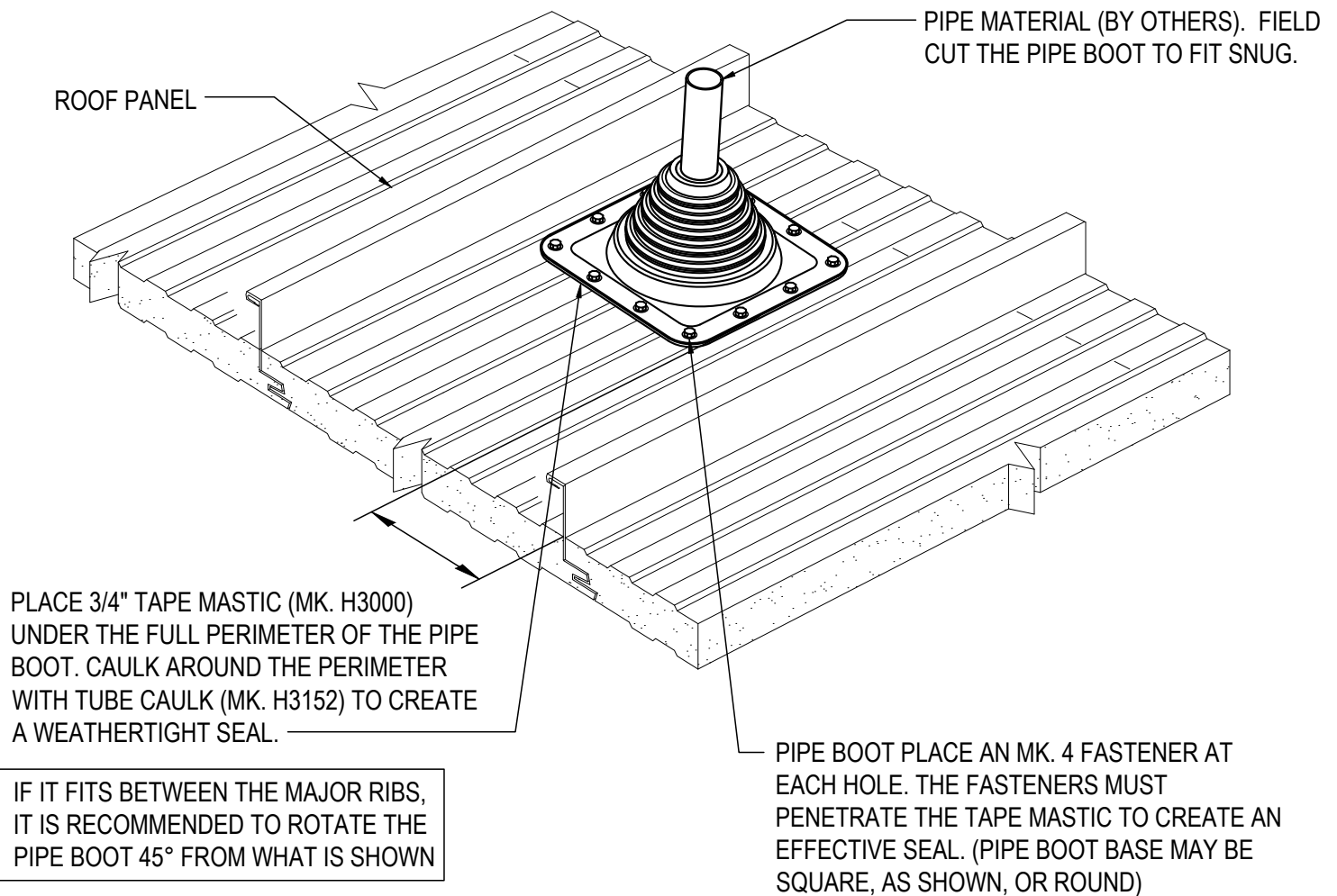
EA8140

Detailer Notes:

- 1) N/A

EA8200 - PIPE BOOT

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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

EA8200

Detailer Notes:

- 1) N/A