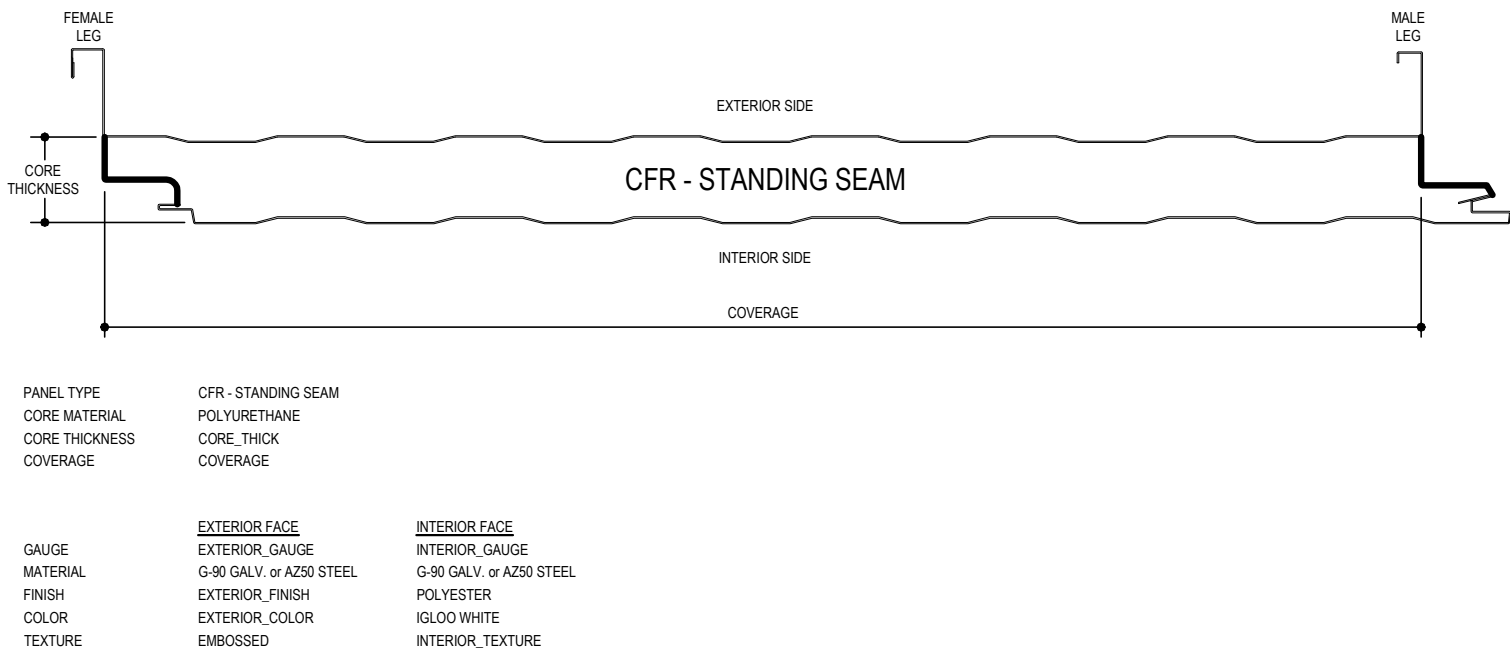


GENERAL ROOF DETAILS

METL-SPAN - CFR
EA8000-PROJECT PREPARATION NOTES
EA8001-PROJECT INSTALLATION NOTES - IMP ROOF
EA8010-ROOF IMP START PANEL
EA8020-ROOF PANEL JOINT DETAILS
EA8030-CLIP FASTENER QUANTITY
EA8040-CLIP FASTENER QUANTITY AT JOIST
EA8076-TRIM LAP COMPRESSION FASTENER
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

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



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
Download the DWG file by clicking here.

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 WAINESS CALLED "OIL CANNING" MAY EXIST IN THE PANEL. MINOR WAINESS IS NOT SUPPORTABLE CAUSE FOR REJECTION AND DOES NOT AFFECT THE STRUCTURAL INTEGRITY OF THE PANEL. MINIMIZING OR ELIMINATION 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 BUNDLED 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 SURE A NOTATION OF IT IS MADE ON THE BILL OF LADING AND SIGNED 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 FOR 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, FORKLIFTS 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.

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

TO PREVENT DAMAGE 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 FROM THE HOOK OF THE VERTICAL BEAM.
- DO NOT CARRY PANELS IN THE FLAT POSITION.

UNLOADING:

PANELS ARE SPINALLY 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 FORKLIFT 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 IN 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)

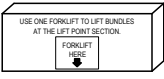
LONG LENGTH PANELS HAVE TWO OR MORE LIFTING POINTS (SEE FIGURE 2).

USE EXTREME CARE TO AVOID BUMPING OR DROPPING THE PANELS WHILE LIFTING AND MANEUVERING.

HOIST 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 FORKLIFT:

- 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 FORKLIFT




USE ONE FORKLIFT TO LIFT BUNDLES AT THE LEFT POINT SECTION.

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 FORKLIFT SHOULD STRADDLE ONE LIFT POINT



USE TWO FORKLIFTS OR CRANE STRAPS TO LIFT BUNDLES AT THE LEFT POINT SECTIONS.

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.
- PLACE FOAM BLOCKS ON THE SIDES OF BUNDLES AT ALL SLING LOCATIONS.
- WHEN BUNDLES ARE LONGER THAN 10' IT IS SUGGESTED THAT A PROPERLY DESIGNED AND FABRICATED LIFTING BEAM IS USED.

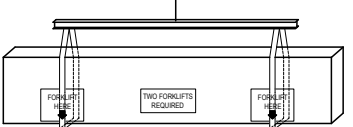


FIGURE 3
BUNDLES UNDER 4,000 LBS AND LESS THAN 44' 0"

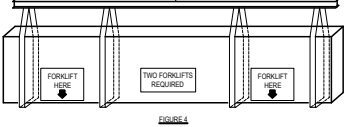


FIGURE 4
BUNDLES OVER 4,000 LBS AND LESS THAN 44' 0"

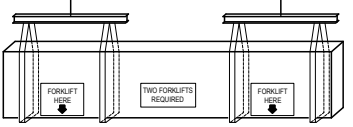
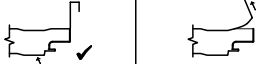


FIGURE 5
BUNDLES OVER 4,000 LBS AND MORE THAN 44' 0"

MANUALLY UNLOADING:

- ON SMALL PROJECTS UNLOADING OF THE PANELS MAY BE CARRIED OUT BY HAND.
- NOTE:** 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 BEAM. LIFT FROM THE BOTTOM SKIN.
- IT IS IMPORTANT THAT WHENEVER A PANEL IS HANDLED, PICKED-UP, MOVED OR CARRIED IT SHOULD BE TURNED ON EDGE FIRST. DO NOT CARRY PANELS WHILE FLAT.
- IMPORTANT NOTE:** 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 OF 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:

- CAREFULLY UNLOAD AND PLACE IMMEDIATELY IN A 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 THE BOTTOM OF THE PLASTIC WRAP IN 1" INCREMENTS AT 8" O.C. ALONG THE LENGTH OF THE BUNDLES. A 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.
- SLOPE AT A MINIMUM OF 1/8" PER FOOT DRAINAGE OF MOISTURE FROM PANELS.
- INSPECTED DAILY FOR MOISTURE. INSURE NO SAGS ARE PRESENT. TRAPPED MOISTURE CAN DAMAGE THE PANEL FINISH AND VOID APPLICABLE FINISH WARRANTIES. IF PANEL BUNDLES CONTAIN MOISTURE, OR SAGS, THE PANEL BUNDLE SHOULD BE DRIED AND RESTACKED. USE CARE IN RESTACKING TO AVOID DAMAGE TO PANELS.

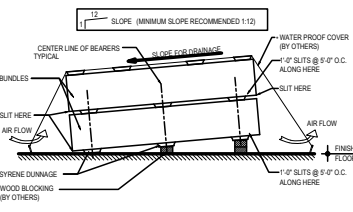


FIGURE 7

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 AREA, TO AVOID UNDESIRABLE 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
RIVET GUN	LEVEL	CHALK LINE
TAPE MEASURE	CHALK GUN	SCREW GUN
POWER SHEARS	HAMMER DRILL	POWER NIBBLER

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

ALIGNMENT & SHIPPING:

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 BY 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 DRAWINGS, ETC.

4L	SELF-DRILLING SCREW 14-14 x 1 1/4" TYP. 2	H1030	SELF-DRILLING SCREW 14-14 x 1 1/4" TYP. 3	H1050	SELF-DRILLING SCREW 14-14 x 1 1/4" TYP. 1
H1100	1" STAINLESS STEEL BLIND POP RIVET GRP RANGE: 1" - 3/8"	17	SELF-DRILLING SCREW 12-14 x 1 1/4" TYP. 3	4	SELF-DRILLING SCREW 14-14 x 1 1/4" TYP. 1
14	1" STAINLESS STEEL BLIND POP RIVET GRP RANGE: 1" - 3/8"	H1200	SELF-DRILLING SCREW 12-14 x 1 1/4" TYP. 3	4	SELF-DRILLING SCREW 14-14 x 1 1/4" TYP. 1
14A	1" STAINLESS STEEL BLIND POP RIVET GRP RANGE: 1" - 3/8"	H1200	SELF-DRILLING SCREW 12-14 x 1 1/4" TYP. 3	4	SELF-DRILLING SCREW 14-14 x 1 1/4" TYP. 1
14A	1" STAINLESS STEEL BLIND POP RIVET GRP RANGE: 1" - 3/8"	H1200	SELF-DRILLING SCREW 12-14 x 1 1/4" TYP. 3	4	SELF-DRILLING SCREW 14-14 x 1 1/4" TYP. 1
18	PVC	17	PVC	4	PVC
14 X	SDPH SELF DRILLING PANCAKE HEAD	17	SDPH SELF DRILLING PANCAKE HEAD	4	SDPH SELF DRILLING PANCAKE HEAD
14	PVC	17	PVC	4	PVC
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14	PVC	17	PVC	4	PVC
14 X	SDPH SELF DRILLING PANCAKE HEAD	17	SDPH SELF DRILLING PANCAKE HEAD	4	SDPH SELF DRILLING PANCAKE HEAD
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14 X	SDPH SELF DRILLING PANCAKE HEAD	17	SDPH SELF DRILLING PANCAKE HEAD	4	SDPH SELF DRILLING PANCAKE HEAD
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14 X	SDPH SELF DRILLING PANCAKE HEAD	17	SDPH SELF DRILLING PANCAKE HEAD	4	SDPH SELF DRILLING PANCAKE HEAD
14	PVC	17	PVC	4	PVC
14 X	SDPH SELF DRILLING PANCAKE HEAD				

EA8001 - PROJECT INSTALLATION NOTES - IMP ROOF

Download the DWG file by clicking here.

INSTALLATION PROCEDURES:

NOTE: INSULATED PANELS, DUE TO THEIR JOINERY, DO NOT PROVIDE DIAPHRAGM STIFFNESS FOR THE BUILDING ROOF TO RESIST LATERAL FORCES INCLUDING WIND. LATERAL BRACING IS TO BE PROVIDED BY CROSS BRACING SYSTEMS CONNECTED TO THE PRIMARY BUILDING FRAMING.

PRIOR TO PANEL INSTALLATION VERIFY:

BUILDING ROOF IS SQUARE: ENSURE BUILDING ROOF TO BE SHEETED IS SQUARE AND THAT ANY CROSS-BRACING REQUIRED IS IN PLACE AND SNUG TO PREVENT MOVEMENT DURING PANEL INSTALLATION. ALL SECONDARY MEMBERS ARE IN PLACE AND SQUARE.

PURLIN BRACING: IF PURLIN BRACING IS REQUIRED FOR YOUR JOB, THEN IT NEEDS TO BE INSTALLED PRIOR TO PANEL INSTALLATION. INSULATED PANELS ARE NOT DESIGNED TO CARRY THOSE LOADS.

ROOF PLANE IS FREE OF OBSTRUCTIONS: SEE "INSTALLATION GUIDELINES" SECTION BELOW.

PANEL LAYOUT: REVIEW CUT DIMENSIONS FOR INSULATED PANELS ON ERECTION DRAWING PANEL LAYOUTS AND BECOME FAMILIAR WITH STARTING AND ENDING PANEL REQUIREMENTS.

- ONCE ALL OF THE ABOVE ITEMS HAVE BEEN VERIFIED, BEGIN INSTALLATION PROCESS:**
- TO ENSURE A PROPER VAPOR BARRIER AND WATER TIGHTNESS, APPLY A 3/8" BEAD OF BUTYL TUBE CAULK (MK H3151 TYP) AT MALE END OF THE PANEL IF CAULK IS NOT PRESENT. ALSO, APPLY A CONTINUOUS 3/8" BEAD OF BUTYL TUBE CAULK RUN AT ALL PERIMETER SUPPORT MEMBERS; BASE, EAVE, HEADER, SILL, AND HORIZONTAL TRANSITIONS. NOTE: THIS CAULK IS NOT REQUIRED AT MID-SPAN (INTERMEDIATE) MEMBERS.
 - OBTAIN FIRST PANEL. STARTING PANEL CUT DIMENSION WILL BE SUPPLIED ON ERECTION DRAWINGS. REFER TO "FIELD CUTTING".
 - PLACE THE FIRST PANEL IN THE LOCATION AS DETAILED ON THE SHEETING PLANS WITH THE LOW EAVE OF THE FIRST PANEL IN THE PROPER POSITION, SQUARE THE PANEL AND SECURE IN PLACE.
 - PREPARE ADJACENT PANEL EDGE (VERIFY / ADD BUTYL CAULK, ETC.) SECURE INTO POSITION.
 - FASTEN PANEL INTO POSITION USING ALL REQUIRED CLIPS AND FASTENERS.
 - CRIMP CLIP TAB AROUND MALE LEG OF PANEL WITH THE MANUAL CRIMPING TOOL.
 - REPEAT THE INSTALLATION PROCESS OCCASIONALLY CHECKING FOR SQUARE. IF ANY MINOR "OUT-OF-SQUARE" IS DETECTED, TAKE CORRECTIVE ACTION IN MINOR STEPS WITH SUBSEQUENT PANELS TO BRING THE SHEETING PROCESS BACK TO SQUARE.
 - ONCE ALL ROOF PANELS HAVE BEEN INSTALLED, USE THE MANUAL CRIMPER TO CRIMP SEAMS FOR 12"-18" AT RIDGE, EAVES AND ENDLAPS.
 - USE ELECTRIC SEAMER ON REMAINING ROOF AREAS.
 - PLEASE NOTE THAT ALL SEAMER ORDERS WILL TAKE APPROXIMATELY 5-7 WORKING DAYS FOR DELIVERY TO JOB SITE FROM DATE OF ORDER.
- DUROOFSEAMERS.COM/MBG
PHONE (888) 343-0456

INSTALLATION GUIDELINES:

INSULATED PANELS PROVIDE INSULATION PERFORMANCE SUPERIOR TO CONVENTIONAL METAL ROOF PANELS WITH FIELD ASSEMBLED INSULATION SYSTEMS. THE FULL ENERGY SAVINGS POTENTIAL CAN ONLY BE REALIZED WHEN THE INSULATED PANELS ARE INSTALLED WITH CAREFUL ATTENTION TO THE DETAILS AFFECTING THE QUALITY OF AIR AND MOISTURE SEAL.

TO ENSURE A PROPER VAPOR BARRIER AND WATER TIGHTNESS, A 3/8" BEAD OF BUTYL CAULK IS REQUIRED AT LOCATIONS INDICATED ON THE ERECTION DRAWINGS. JOINT CAULK MAY BE FACTORY OR FIELD APPLIED. IT IS HOWEVER, THE INSTALLERS RESPONSIBILITY TO FIELD APPLY CONTINUOUS BUTYL CAULK AT AREAS WITH VOIDS OR MISSING CAULK. CONTINUITY, SIZE AND PROPER BEAD PLACEMENT ARE CRITICAL IN OBTAINING A SATISFACTORY SEAL AT EACH PANEL EDGE. DETAILS FOR PLACEMENT OF CAULK AT PANEL EDGES SHOULD BE REVIEWED IN ADVANCE. APPLICATION OF CAULK SHOULD BE CONTINUOUS.

SPECIAL CARE IN HANDLING IS REQUIRED TO PREVENT DAMAGE OR CONTAMINATION BY FIELD DEBRIS WITHIN THE PANEL JOINT. ALL SECONDARY SUPPORT STEEL SHOULD BE IN PLACE FOR CONTINUOUS ATTACHMENT OF PANELS ACROSS THE SURFACE OF PRIMARY FRAMING MEMBERS, INCLUDING OUTER EXTREMES OF CORNERS, OPENINGS, GABLES, ETC.

PRIOR TO INSTALLATION OF INSULATED PANEL, INSPECT EACH ROOF FOR COMPONENT ALIGNMENT AND PLANE FLATNESS. ROOF COMPONENTS SHOULD NOT VARY MORE THAN 1/8" OVER THE ENTIRE ROOF SURFACE. INCLUDING FASTENER HEADS AND OTHER OBSTRUCTIONS THAT WOULD INTERFERE WITH CONTINUOUS BEARING OF THE INSULATED PANEL LINER FACE.

ALIGNMENT AT TRANSITION AREAS, SUCH AS CORNERS AND EAVE, SHALL BE WITHIN 1/8" OF THE THEORETICAL PLANE TO ACCOMMODATE CORNER PANELS AND FORMED FLASHING.

MISALIGNED SECONDARY STEEL MAY REQUIRE THE ERECTOR TO SHIM THE INSULATED ROOF PANELS AT SOME LOCATIONS. SHIMS AND LABOR FOR INSTALLING SHIMS ARE NOT BY MBS.

DO NOT OVERDRIVE FASTENERS: OVERDRIVING FASTENERS CAN CAUSE DAMAGE AND DISTORTION OF THE PANEL FACE.

DO NOT SKIP ATTACHMENTS AT SECONDARY SUPPORT MEMBERS: PANELS MUST BE ATTACHED AT EACH PURLIN LINE IN PROGRESSION. SECURING PANELS AT TOP AND BOTTOM ONLY CAN CAUSE PANELS TO BOW AND IT MIGHT BE IMPOSSIBLE FOR THEM TO RETURN TO THEIR NORMAL POSITION.

WEATHER TIGHTNESS REQUIREMENTS:

TO PREVENT CONDENSATION ISSUES CARE MUST BE TAKEN BY THE INSULATED PANEL INSTALLER TO ENSURE PROPER SEALING OF THE BUILDING.

- NOTE THE FOLLOWING:**
- ALL MATERIALS MUST BE INSTALLED AS SHOWN ON THE PROVIDED ERECTION DETAILS.
 - ALL PERIMETER CAULKING AND BUTYL TAPE APPLICATIONS MUST BE INSTALLED AS AS SHOWN ON THE ERECTION DETAILS.
 - CONTINUOUS CAULK AND TAPE MASTIC APPLICATIONS (FACTORY OR FIELD) MUST BE CAREFULLY INSPECTED AND ANY VOIDS FOUND MUST BE FIELD APPLIED.
 - GAPS, VOIDS OR AIR SPACE CREATED AT PANEL TO PANEL TRANSITIONS; AS AT RAKE, LOW EAVE, RIDGE, HIGH SIDE EAVE, ROOF TO WALL OR CORNERS MUST BE FIELD FILLED WITH FOAM SPRAY IN PLACE INSULATION (BY OTHERS).

MBS WILL NOT BE RESPONSIBLE FOR ANY CONDENSATION ISSUES THAT MAY OCCUR DUE TO IMPROPER INSTALLATION.

IF THE ERECTOR IS NOT EXPERIENCED WITH THE INSULATED PANELS SUPPLIED, IT IS STRONGLY RECOMMENDED THAT A FIELD TECHNICIAN BE ON SITE BEFORE BEGINNING PANEL INSTALLATION. CONTACT YOUR PROJECT COORDINATOR TO REQUEST AND SCHEDULE A FIELD TECHNICIAN.

FIELD CUTTING:

SOME FIELD CUTTING OF PANELS AND FLASHING WILL BE REQUIRED. IT IS THE WORKERS RESPONSIBILITY TO MAKE SURE ALL SAFETY PRECAUTIONS ARE FOLLOWED. SOME SAFETY PRECAUTIONS INCLUDE, BUT ARE NOT LIMITED TO; EYE PROTECTION, ADEQUATE VENTILATION, NO SMOKING AND AVOID EXPOSING PANELS TO HIGH HEAT.

PANELS ARE TO BE CUT ONE METAL SIDE AT A TIME AND THE INSULATION CAN BE REMOVED WITH A SERRATED KNIFE. A CIRCULAR SAW WITH AN APPROPRIATE BLADE SET TO CUT THROUGH THE METAL SKIN ONLY CAN BE USED. CIRCULAR SAWS WITH ABRASIVE BLADES ARE NOT ACCEPTABLE. BE SURE TO CUT COMPLETELY THROUGH THE METAL SKIN AT THE PANEL JOINTS. A CIRCULAR SAW WITH A **PROPER CARBIDE BLADE** MAY BE USED. **CHECK THE SAW BLADE MANUFACTURER'S SPECIFICATIONS FOR PROPER APPLICATION.**

- RECOMMENDED CUTTING TOOLS INCLUDE:**
- (1) CIRCULAR SAW
 - (2) PANEL NIBBLER
 - (3) PANEL SAW
 - (4) SERRATED KNIFE
 - (5) BLADE OF A CARPENTER'S HAND SAW

IMP CUTTING PROCEDURES:

- MEASURE THE AREA TO CUT & MARK A LINE ON PANEL SURFACE (DO NOT USE GRAPHITE TO MARK PANEL).
- USE ADHESIVE TAPE ON BOTH SIDES OF THE CUTTING LINE TO PROTECT PANEL SURFACE.
- CONFIRM MEASUREMENT, AND PROCEED WITH CUTTING OPERATION.
- ALWAYS PROMPTLY CLEAN PANEL SURFACES TO REMOVE ANY METAL DUST OR FLINGS FROM CUTTING OPERATIONS.
- IF NECESSARY TURN PANEL OVER AND REPEAT STEPS ABOVE ON OPPOSITE SIDE.
- FILE OR SAND OFF ANY BURRS ON THE CUT EDGE OF THE PANEL. THE PANEL WILL THEN BE READY FOR INSTALLMENT. THE INSTALLER MUST CONSIDER THE APPLICATION OF THE CONTINUOUS BEAD OF SEALANT, & IF NECESSARY, THE CUTTING OF THERMAL BREAKS PRIOR TO INSTALLATION. SUCH TASKS SHALL BE DONE ON THE GROUND.
- FIELD-CUT EDGES SHOULD ALWAYS BE COVERED WITH TRIMS.

THE PANEL/BLDG MANUFACTURER **WILL NOT** BE RESPONSIBLE FOR DAMAGE TO PANELS CAUSED BY IMPROPER CUTTING METHODS.

- **NEVER** USE A RECIPROCATING SAW TO CUT INSULATED PANELS. RECIPROCATING SAWS CAN CAUSE STRUCTURAL DAMAGE TO THE INSULATED PANELS BY DELAMINATING THE PANEL FACE METAL FROM THE FOAM CORE MATERIAL.
- **NEVER** USE ANY TYPE OF TORCH TO CUT INSULATED PANEL.
- **NEVER** SUBJECT AN INSULATED PANEL TO THE HEAT OF A TORCH EVEN WHEN CUTTING NEARBY STEEL. HIGH HEAT WILL DAMAGE THE PANEL FINISH AND CAN CAUSE THE FOAM CORE TO PRODUCE FUMES WHICH MAY BE IRRITATING TO SOME INDIVIDUALS.
- **NEVER** BURN REMNANTS, DISPOSE OF INSULATED PANEL REMNANTS BY DEPOSITING IN PROPER CONTAINER.

ACCESSORIES:

- * TRIM LENGTHS SUPPLIED WILL VARY AND MAY REQUIRE SOME FIELD CUTTING.
- * TRIM COLOR OR AVAILABILITY MATCHES PANEL COLOR AVAILABILITY.

TRIM ATTACHMENT:

TRIMS ARE FASTENED WITH BLIND RIVETS OR STITCH SCREWS, PAINTED TO MATCH TRIM COLOR. REFER TO THE ERECTION DETAILS AND THE ERECTION DRAWINGS FOR LOCATIONS AND FASTENING SPACING.

SURFACE CLEANING PROCEDURES:

GENERAL:

DIRT, OIL, GREASE, FINGERPRINTS OR ANY OTHER TYPE ON CONTAMINATE MUST BE COMPLETELY REMOVED WHEN INSTALLATION IS COMPLETE IN ORDER TO MAXIMIZE COATING PERFORMANCE.

STEEL FILINGS FROM ADJACENT WORK MAY BECOME EMBEDDED IN THE PAINT SURFACE. THESE FILINGS WILL RUST AND FORM UNSIGHTLY RED SPOTS ON THE PAINTED SURFACE THAT CAN BECOME LARGER THAN THE ORIGINAL FILING. WHEN USING SAWS, DRILLS OR CUTTING DISCS, PROTECT THE PAINTED SURFACED WITH A NON-FLAMMABLE COVER AND REMOVE OR COVER ADJACENT OR NEARBY PANELS IF POSSIBLE.

BRUSH ANY FILINGS OF STEEL OFF THE PAINTED SURFACE. EMBEDDED FILINGS SHOULD BE REMOVED MECHANICALLY. CARE SHOULD BE TAKEN BY WORKMEN TO AVOID STEPPING ON OR EXERTING PRESSURE AGAINST ANY STEEL FILINGS WHICH MAY BECOME EMBEDDED IN THE PAINTED SURFACE.

THINGS TO REMEMBER WHEN CLEANING:

USE ONLY MILD DETERGENTS	(NO LEMON, ALCOHOL OR AMMONIA INGREDIENTS)
USE ONLY SOFT BRISTLE BRUSHES	(NO SCRUB TYPE OR WIRE BRISTLES)
USE ONLY LUKEWARM WATER	(NO HOT WATER)

LIGHT OR PERIODIC CLEANING MAY BE ACCOMPLISHED ON A REGULAR BASIS BY WASHING WITH PLAIN WATER USING A STANDARD GARDEN HOSE OR LOW PRESSURE SPRAYER IS USUALLY SUFFICIENT TO REMOVE MOST CONTAMINATION. CAULKING COMPOUNDS, OIL, GREASE, TARS, WAX AND SIMILAR SUBSTANCES CAN BE REMOVED BY WIPING WITH A CLOTH SOAKED IN MINERAL SPIRITS. WIPE ONLY CONTAMINATED AREAS AND FOLLOW WITH DETERGENT AND THOROUGHLY CLEAN WITH WATER.

SURFACE REPAIR PROCEDURES:

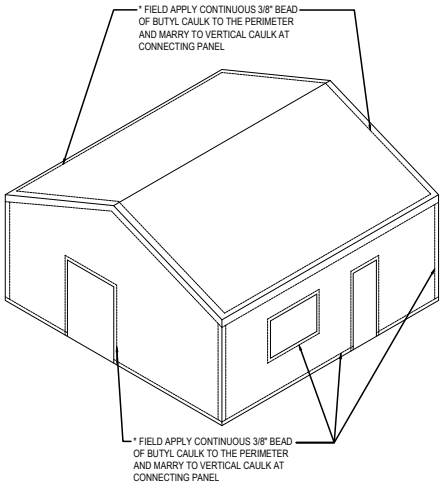
IF "TOUCH UP" PAINT IS REQUIRED CONTACT YOUR PROJECTS CUSTOMER SERVICE COORDINATOR.

PRECAUTIONS:

PROTECT EYES, FACE, AND HANDS FROM DIRECT CONTACT WITH TOUCH-UP PAINT AND / OR SOLVENTS. PROVIDE GOOD VENTILATION IN WORK AREA. ENFORCE NO SMOKING. REMOVE ALL SOURCES OF IGNITION. THESE COATINGS AND SOLVENTS ARE FLAMMABLE.

1. LIGHTLY SAND OR FEATHER EDGES OF DEEP SCRATCHES USING #400 GRIT SAND PAPER
2. WIPE SCRATCHES AND ADJACENT AREAS USING A LINT FREE CLOTH DAMPENED IN MINERAL SPIRITS.
3. ALLOW AREA TO DRY THOROUGHLY BEFORE APPLYING TOUCH-UP PAINT.
4. SHAKE / STIR PAINT TO MIX THOROUGHLY BEFORE APPLYING.
5. CHECK TOUCH-UP PAINT FOR CORRECT MATCH BEFORE APPLYING.
6. APPLY THIN LAYER OF TOUCH-UP PAINT TO DAMAGED AREA. REPEAT LAYERS AS REQUIRED.

PERIMETER CAULKING:



PERIMETER CAULKING IS A CRITICAL PART OF THE PANEL INSTALLATION. NOT INSTALLING THE PERIMETER CAULKING WILL LEAD TO AIR LEAKS, WHICH WILL LEAD TO CONDENSATION AND / OR FROST. REFERENCE THE DETAILS AND THE ERECTION MANUAL FOR PROPER CAULKING PLACEMENT.

FIELD INSTALLED INSULATION NOTE

IT IS THE RESPONSIBILITY OF THE ERECTOR TO FIELD FILL ALL AIR VOIDS WITH INSULATION. UNINSULATED AREAS WILL CAUSE HOT AND COLD SPOTS THAT CAN CAUSE CONDENSATION AND / OR FROST. THESE VOIDS COMMONLY HAPPEN AROUND THE PERIMETER OF THE BUILDING. FAILURE TO DO SO WILL CAUSE FUTURE PROBLEMS.

PROJECT INSTALLATION NOTES AND GUIDELINES

INSULATED ROOF PANEL
INSTALLATION PROCEDURES & GUIDELINES, WEATHER TIGHTNESS REQUIREMENTS, FIELD CUTTING & ACCESSORY INFO & SURFACE, CLEANING / REPAIR INFORMATION.

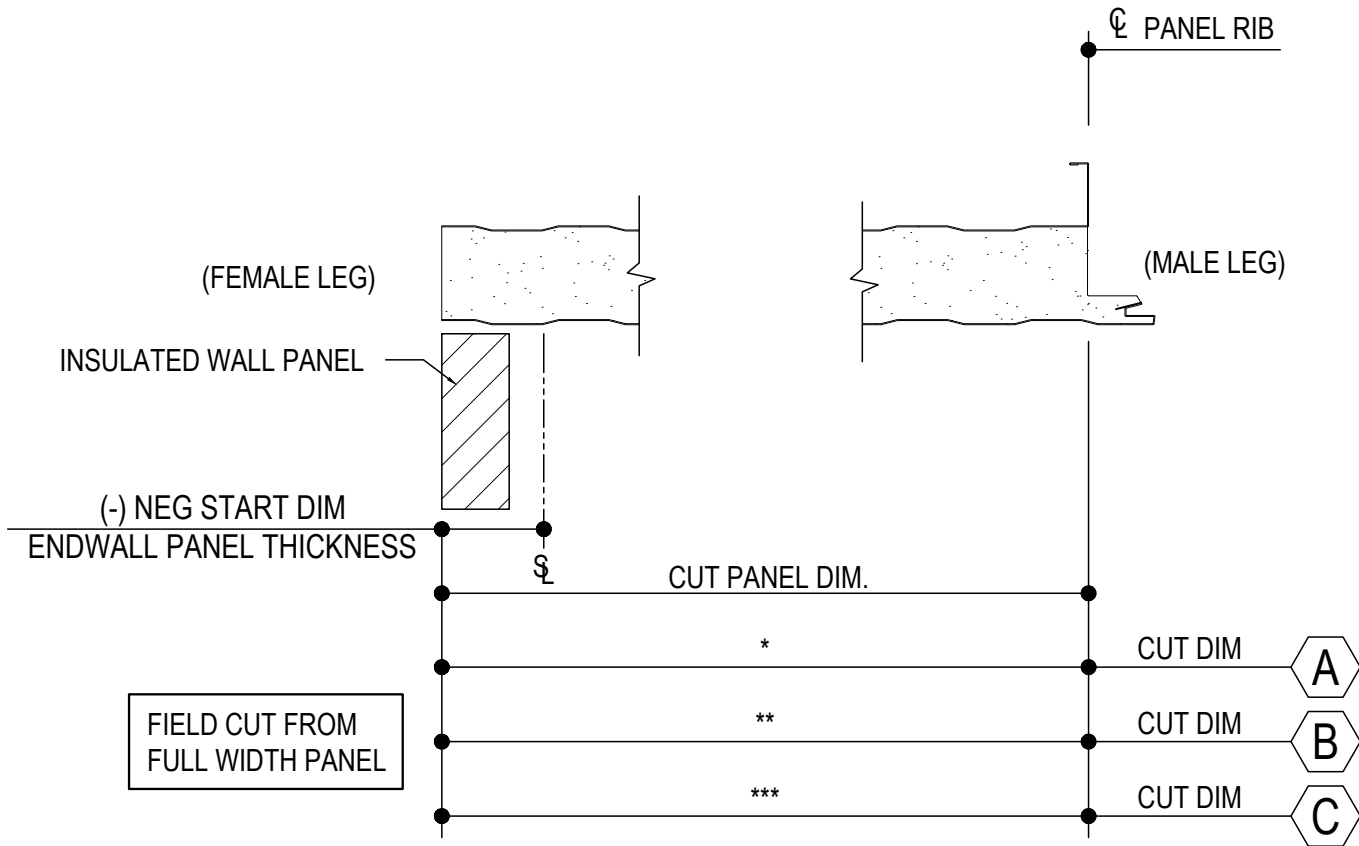
EA8001

Detailer Notes:

1) THIS DETAIL SHOULD BE USED ON ALL METL-SPAN IMP ROOF PANEL PROJECTS.

EA8010 - CFR IMP START PANEL DETAIL

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



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.

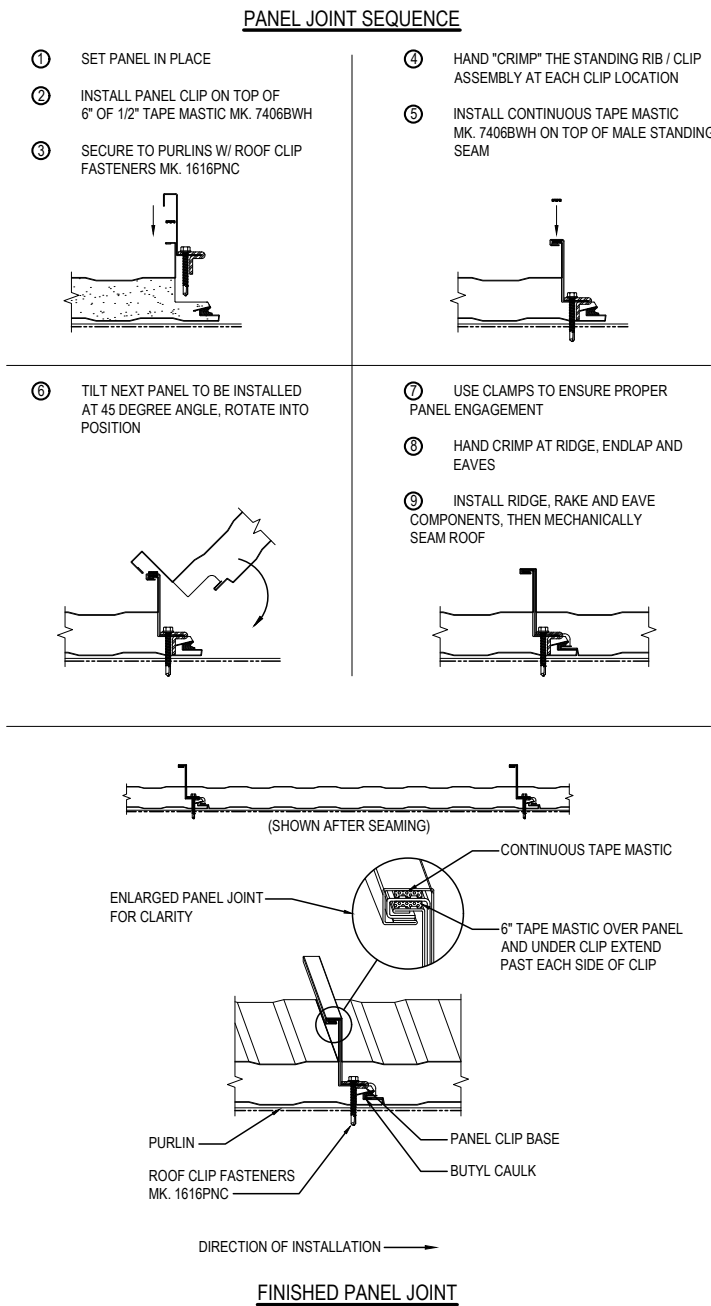
EA8010

Detailer Notes:

1)THIS DETAIL SHOULD BE PLACED ON THE ERECTION DRAWINGS

EA8020 - ROOF PANEL JOINT DETAILS

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



PANEL JOINT
INSULATED METAL PANEL ROOF INSTALLATION SEQUENCE

EA8020

Detailer Notes:

1) N/A

EA8030 - CLIP FASTENER QUANTITY

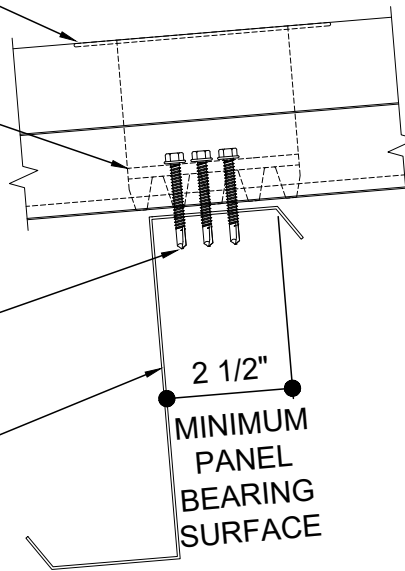
[Download the DWG file by clicking here.](#)

6" OF 1/2" TAPE MASTIC 7406BWH
UNDER PANEL CLIP

PANEL CLIP

(3) ROOF CLIP FASTENERS
MK. 1616PNC

PURLINS



CLIP FASTENER QUANTITY

INSULATED METAL PANEL ROOF CLIP ATTACHMENT

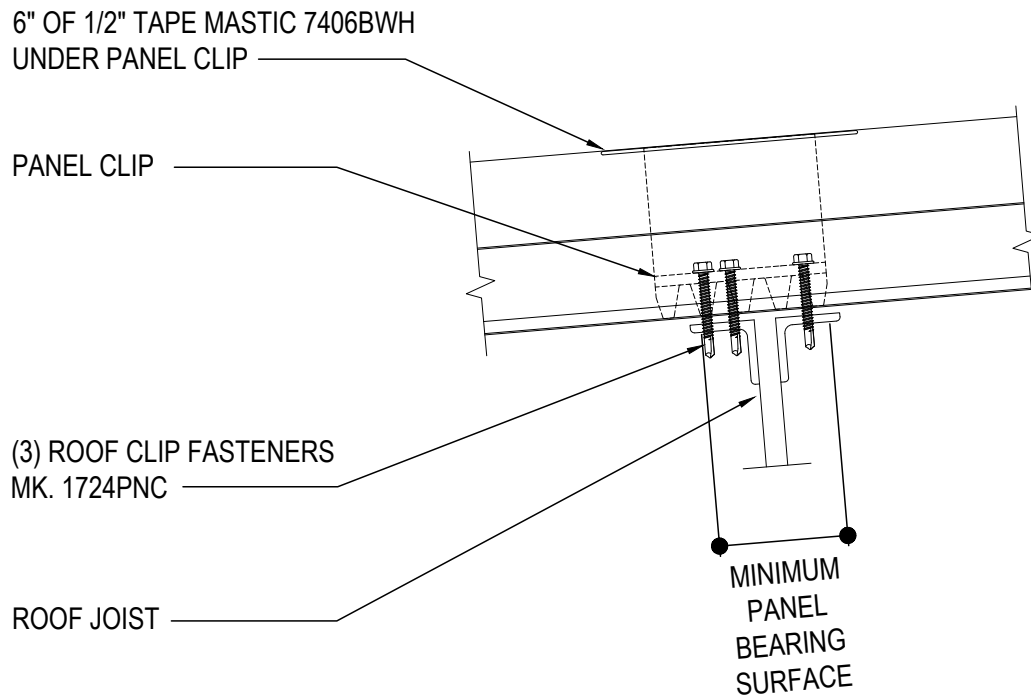
EA8030

Detailer Notes:

1) N/A

EA8040 - CLIP FASTENER QUANTITY AT JOIST

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



CLIP FASTENER QUANTITY

INSULATED METAL PANEL ROOF CLIP ATTACHMENT

EA8040

Detailer Notes:

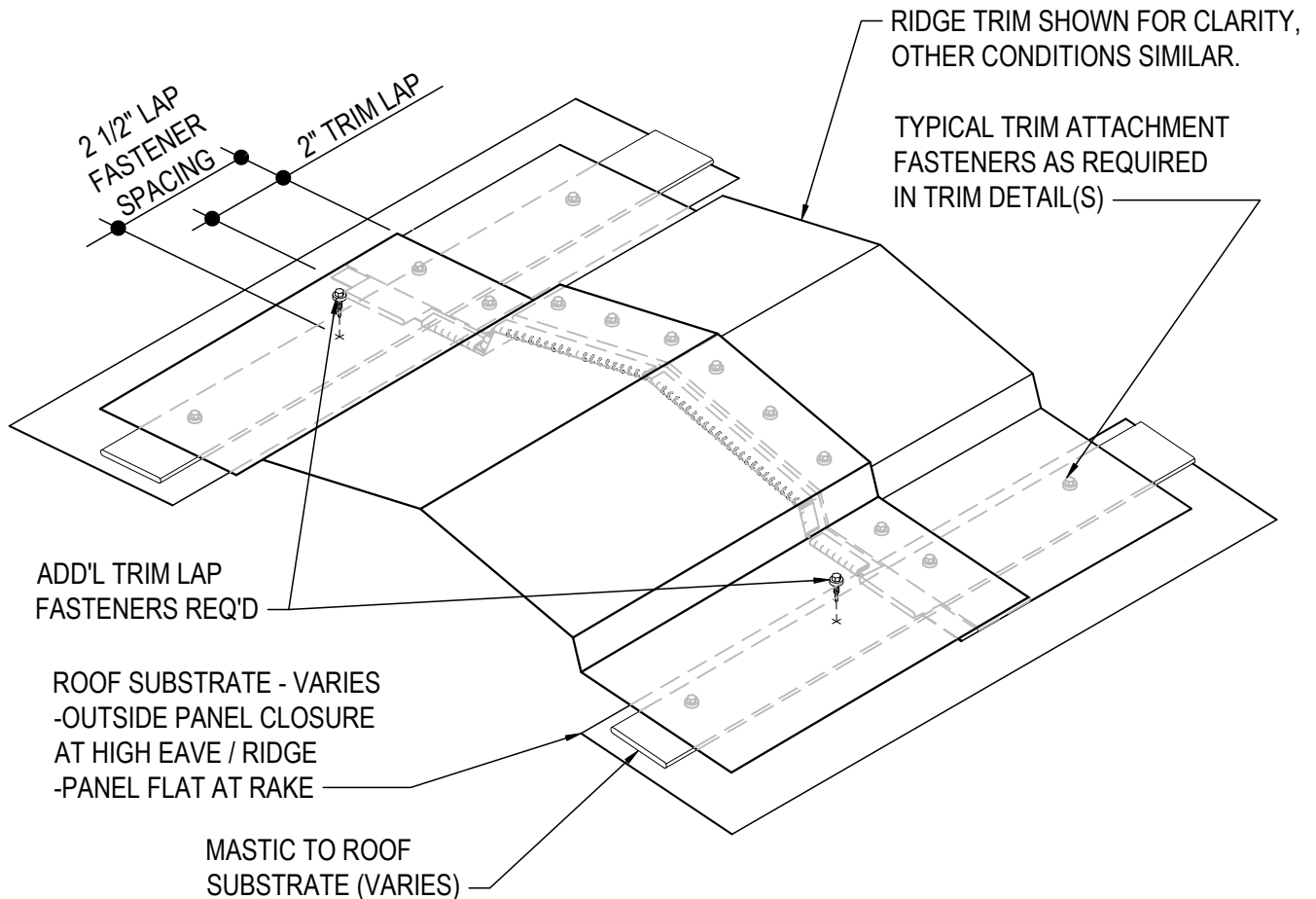
1) N/A

EA8076 - 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.

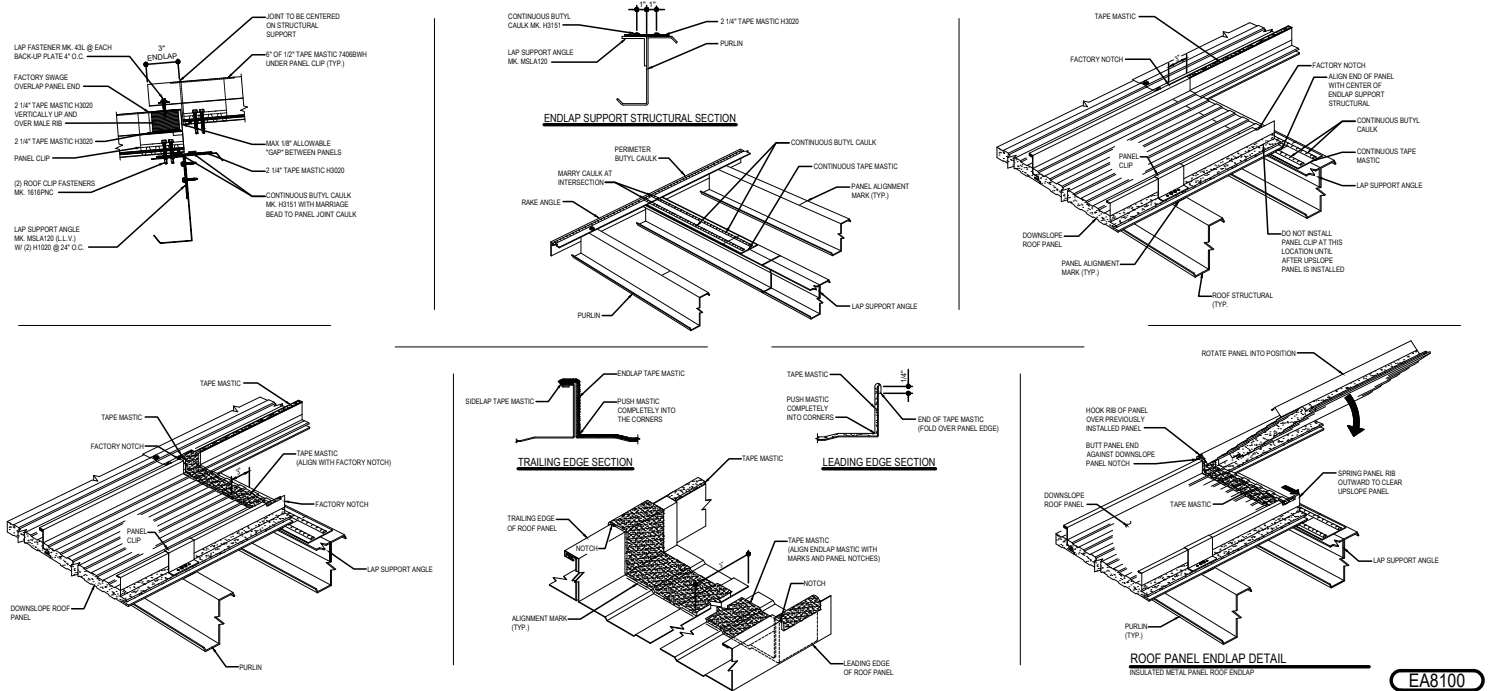
EA8076

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, EA6076 AND FA2076. DUPLICATE DETAILS ARE TO ENSURE THAT THEY ARE PLACED IN ORDER IN ERECTION DRAWINGS.

EA8100 - ROOF END LAP AT PURLIN

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

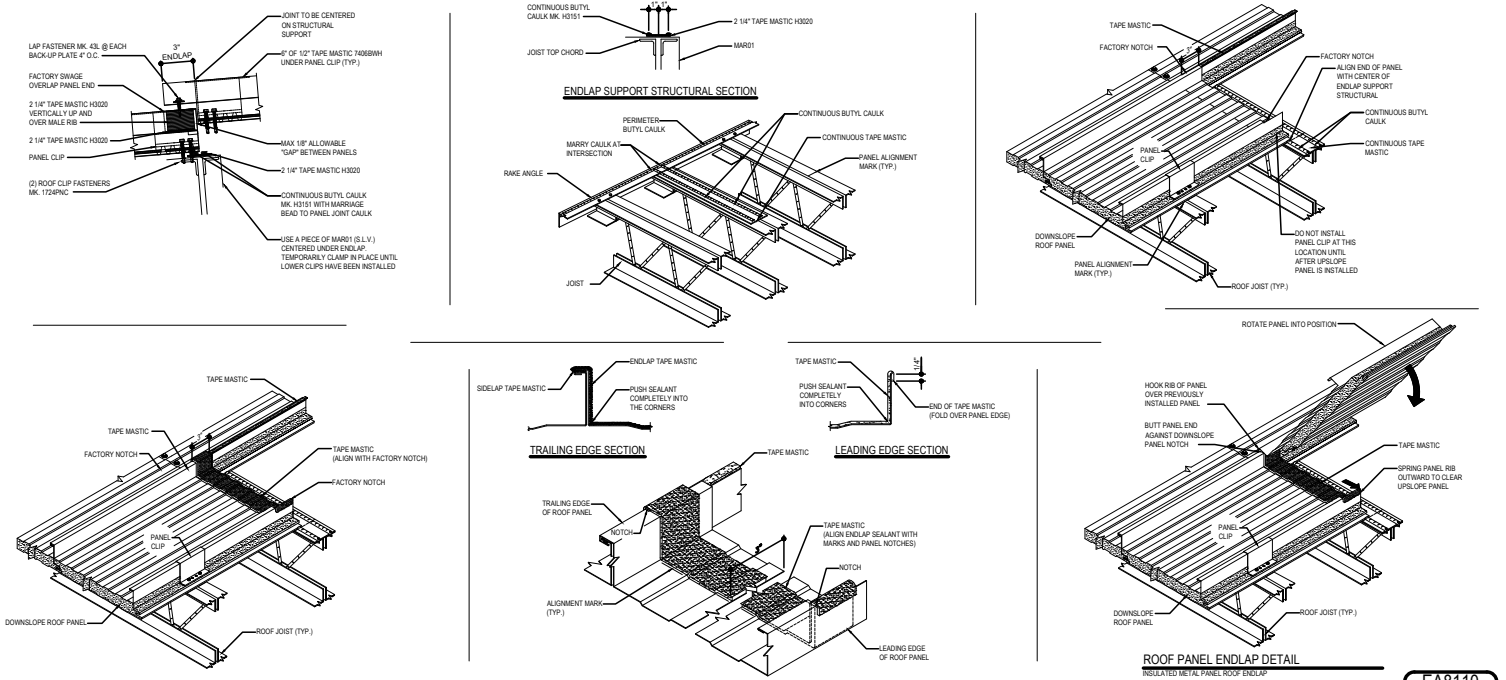


Detailer Notes:

1) N/A

EA8110 - ROOF END LAP AT JOIST

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

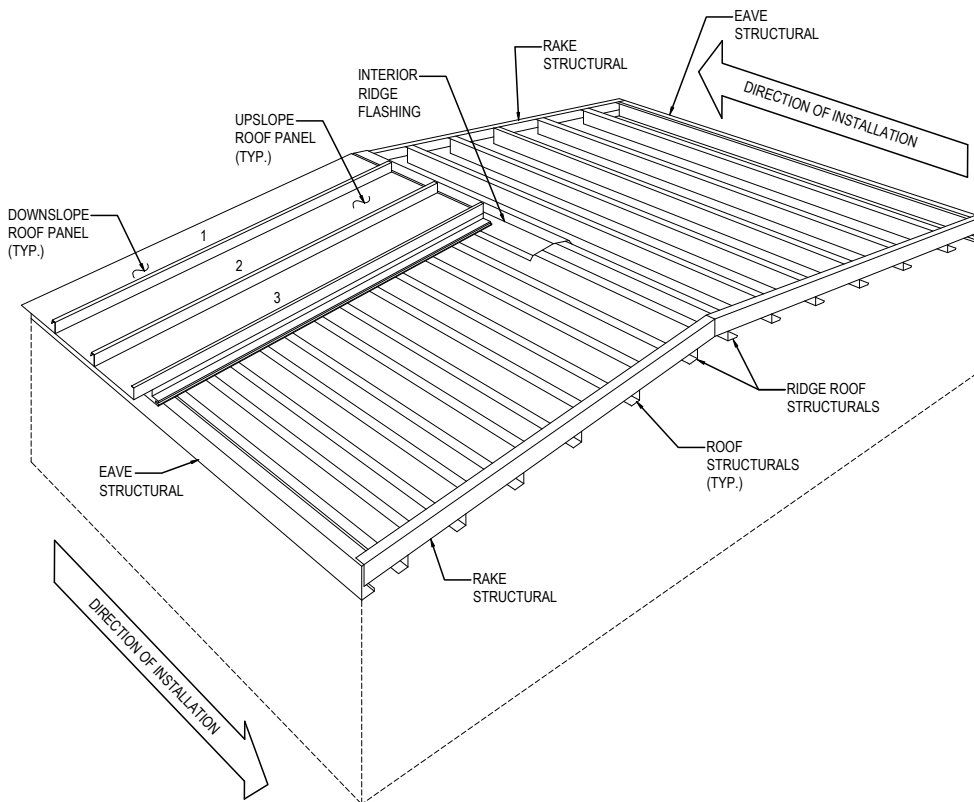


Detailer Notes:

1) N/A

EA8120 - ROOF PANEL LAYOUT WITH NO ENDLAPS

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



ROOF PANEL LAYOUT

ROOF PANEL LAYOUT WITH NO ENDLAP

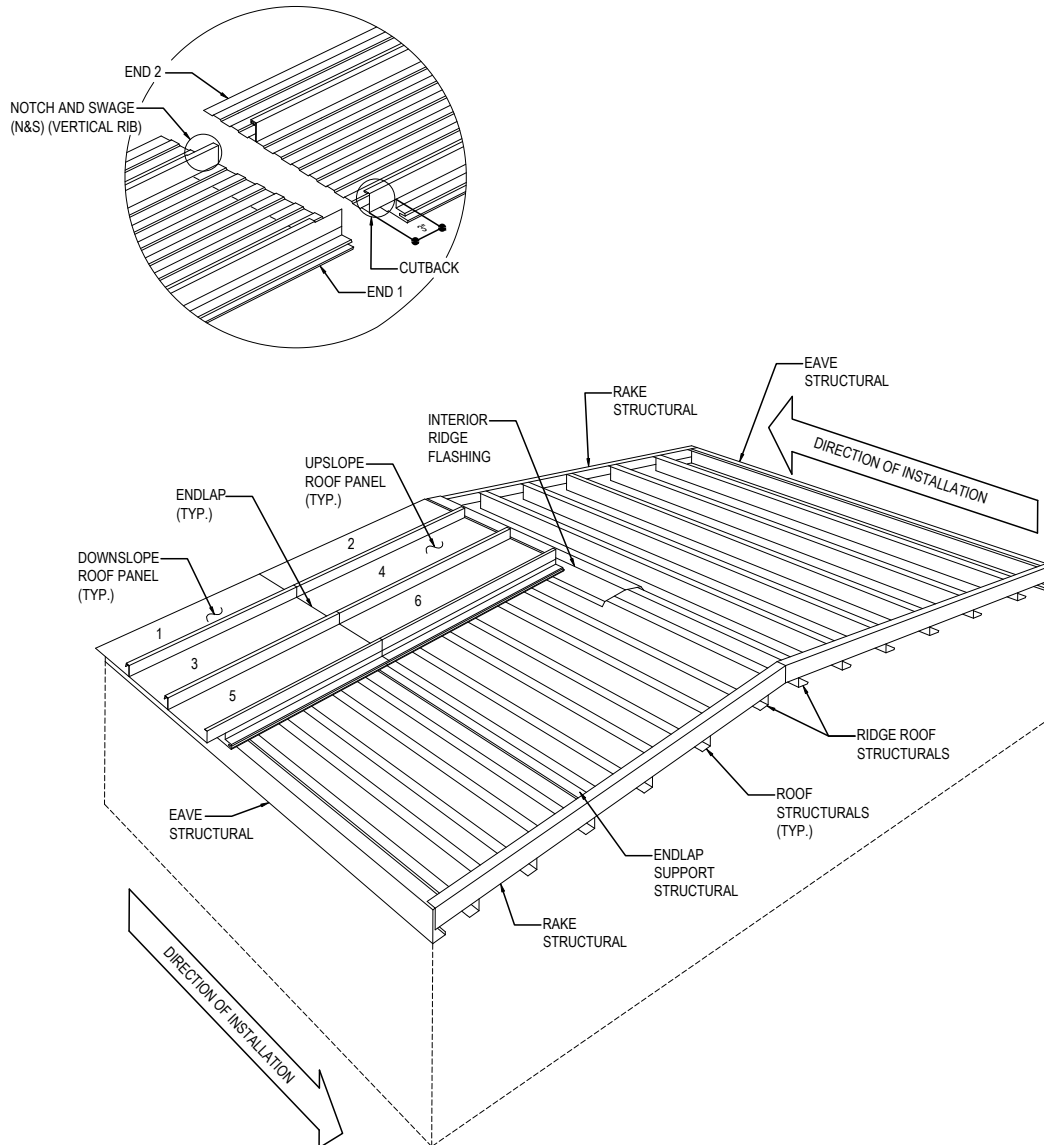
EA8120

Detailer Notes:

1) N/A

EA8130 - ROOF PANEL LAYOUT WITH ONE ENDLAP

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



ROOF PANEL LAYOUT

ROOF PANEL LAYOUT WITH ONE ENDLAP

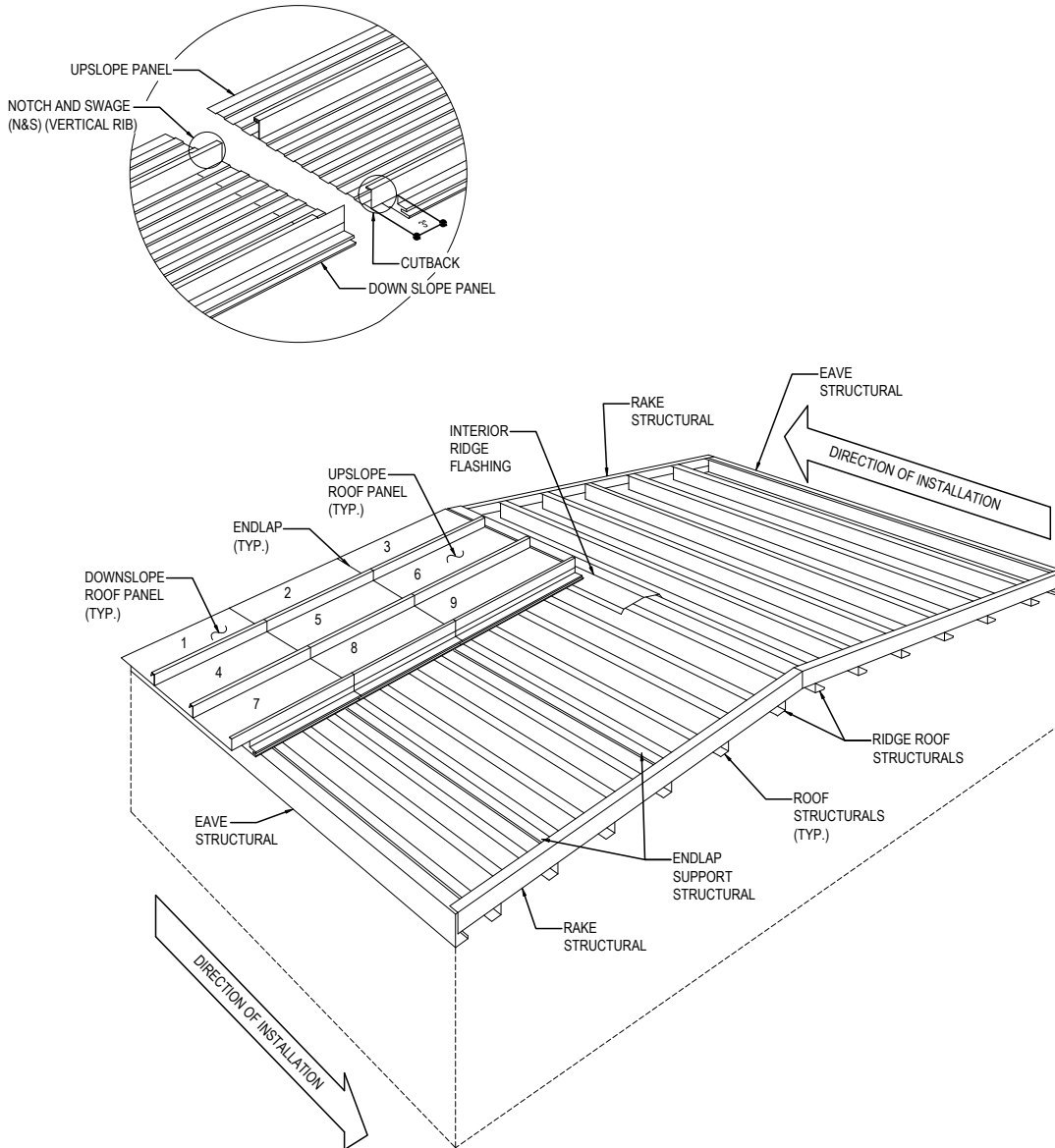
EA8130

Detailer Notes:

1) N/A

EA8140 - ROOF PANEL LAYOUT WITH TWO OR MORE ENDLAPS

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



ROOF PANEL LAYOUT

ROOF PANEL LAYOUT WITH TWO OR MORE ENDLAPS

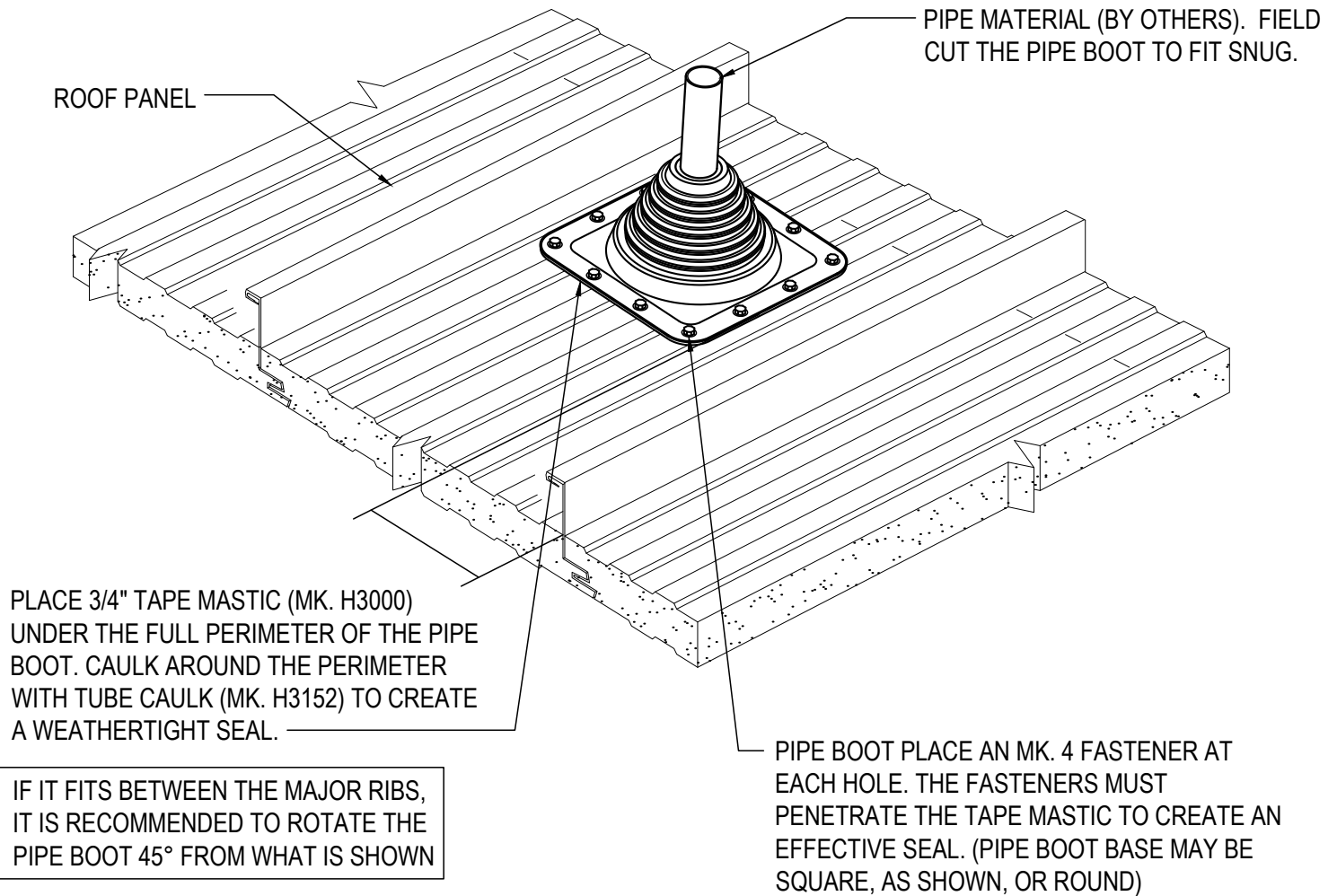
EA8140

Detailer Notes:

1) N/A

EA8200 - PIPE BOOT

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



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