

**GENERAL DETAILS**

METL-SPAN - FLUTE  
METL-SPAN - LIGHT MESA  
METL-SPAN - MESA  
METL-SPAN - SANTA FE  
METL-SPAN - STRIATED  
METL-SPAN - TUFF CAST  
METL-SPAN - TUFF WALL  
GA4000 - PROJECT PREPERATION NOTES - IMP WALL  
GA4001 - PROJECT INSTALLATION NOTES - IMP WALL  
GA4020 - WALL IMP START PANEL DETAIL  
GA4030 - PANEL ATTACHMENT AT COLD-FORM  
GA4031 - PANEL ATTACHMENT AT HOT-ROLLED  
GA4035 - PANEL ATTACHMENT VERTICAL SEAM  
GA4100 - INSULATED PANEL ATTACHMENT AT LOW EAVE  
GA4110 - INSULATED PANEL ATTACHMENT AT HIGH EAVE  
GA4120 - INSULATED PANEL ATTACHMENT AT RAKE  
GA4200 - INSULATED METAL PANEL WALL CORNER LAYOUT  
GA4300 - PANEL STACK JOINT  
GA4400 - BACK FASTENING AT COLD-FORM  
GA4410 - BACK FASTENING AT COLD FORM  
GA4420 - BACK FASTENING AT HOT-ROLLED  
GA4430 - BACK FASTENING AT HOT ROLLED  
GA4500 - STRUCTURAL PENETRATION THROUGH INSULATED PANEL  
GA4510 - PIPE PENETRATION THROUGH INSULATED PANEL

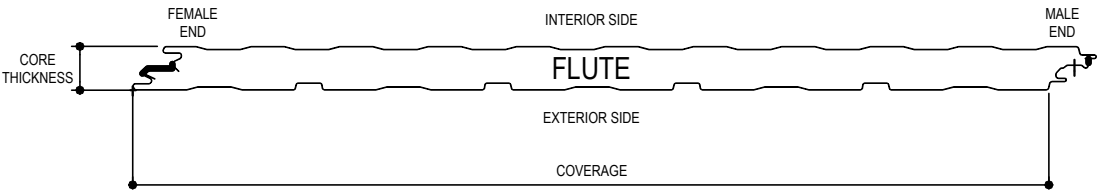
**DOWNSPOUT DETAILS**

**SEE SECTION: GA - GENERAL AND DOWNSPOUT DETAILS**

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METL-SPAN - FLUTE

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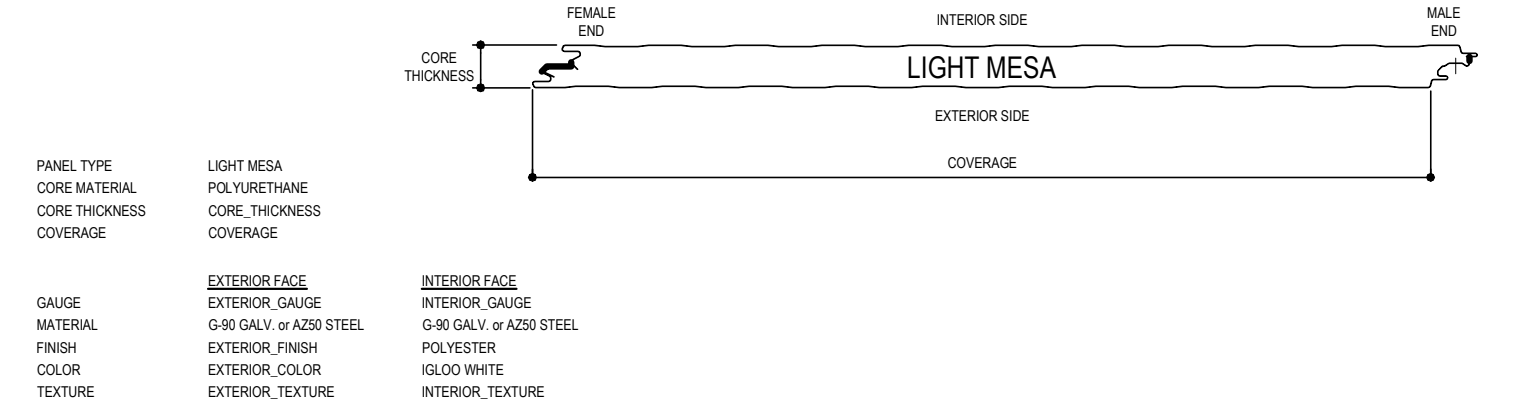
PANEL TYPE	FLUTE	
CORE MATERIAL	POLYURETHANE	
CORE THICKNESS	CORE_THICKNESS	
COVERAGE	42"	
	<u>EXTERIOR FACE</u>	<u>INTERIOR FACE</u>
GAUGE	EXTERIOR_GAUGE	INTERIOR_GAUGE
MATERIAL	G-90 GALV. or AZ50 STEEL	G-90 GALV. or AZ50 STEEL
FINISH	EXTERIOR_FINISH	POLYESTER
COLOR	EXTERIOR_COLOR	IGLOO WHITE
TEXTURE	EXTERIOR_TEXTURE	INTERIOR_TEXTURE

Detailer Notes:

1) THIS DETAIL SHOULD BE ADDED TO THE WALL SHEETING ELEVATION FOR ALL RESPECTIVE IMP WALLS. PLACE THIS DETAIL ON THE APPROPRIATE WALL EVEVATION AND FILL IN ATTRIBUTES ACCORDINGLY. IF YOU HAVE MULTIPLE TYPES / COLORS / CONFIGURATIONS OF PANELS ON THE SAME PLANE, INSERT EACH TYPE AND LABEL ON THE ELEVATIONS WHERE EACH UNIQUE PANEL CONFIGURATION BEGINS / ENDS TO AVOID ERRORS.

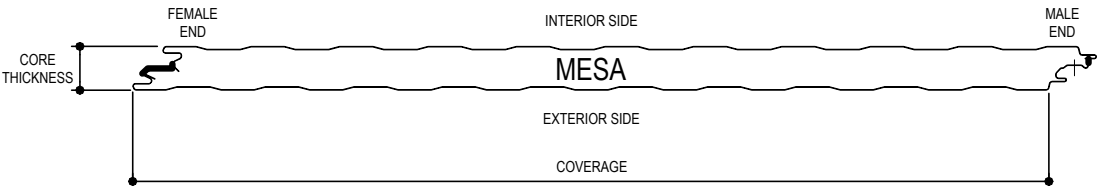
METL-SPAN - LIGHT MESA

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METL-SPAN - MESA

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PANEL TYPE  
CORE MATERIAL  
CORE THICKNESS  
COVERAGE

MESA  
POLYURETHANE  
CORE\_THICKNESS  
COVERAGE

GAUGE  
MATERIAL  
FINISH  
COLOR  
TEXTURE

EXTERIOR FACE  
EXTERIOR\_GAUGE  
G-90 GALV. or AZ50 STEEL  
EXTERIOR\_FINISH  
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EXTERIOR\_TEXTURE

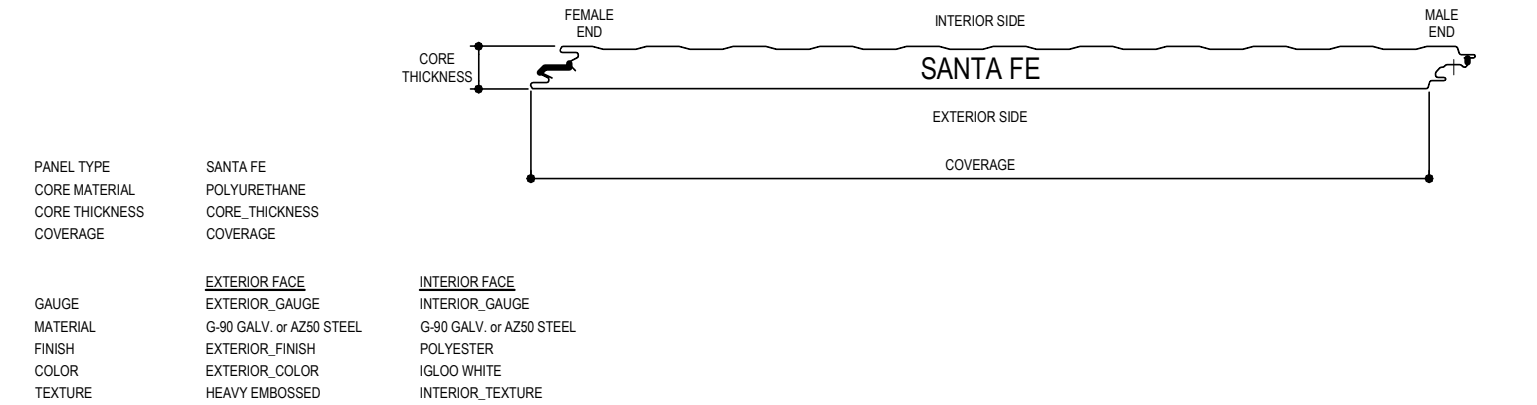
INTERIOR FACE  
INTERIOR\_GAUGE  
G-90 GALV. or AZ50 STEEL  
POLYESTER  
IGLOO WHITE  
INTERIOR\_TEXTURE

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METL-SPAN - SANTA FE

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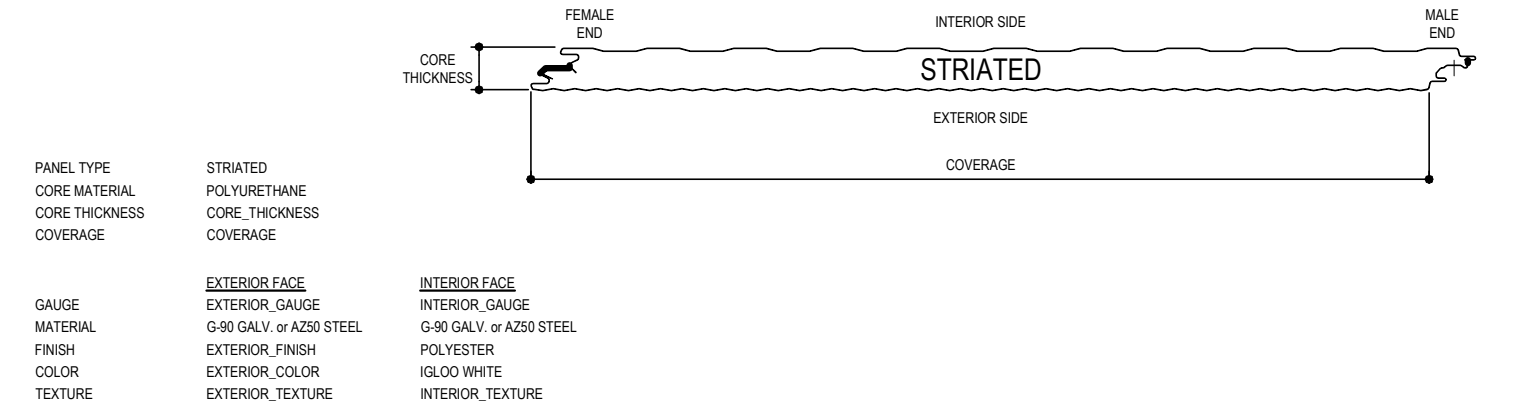


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METL-SPAN - STRIATED

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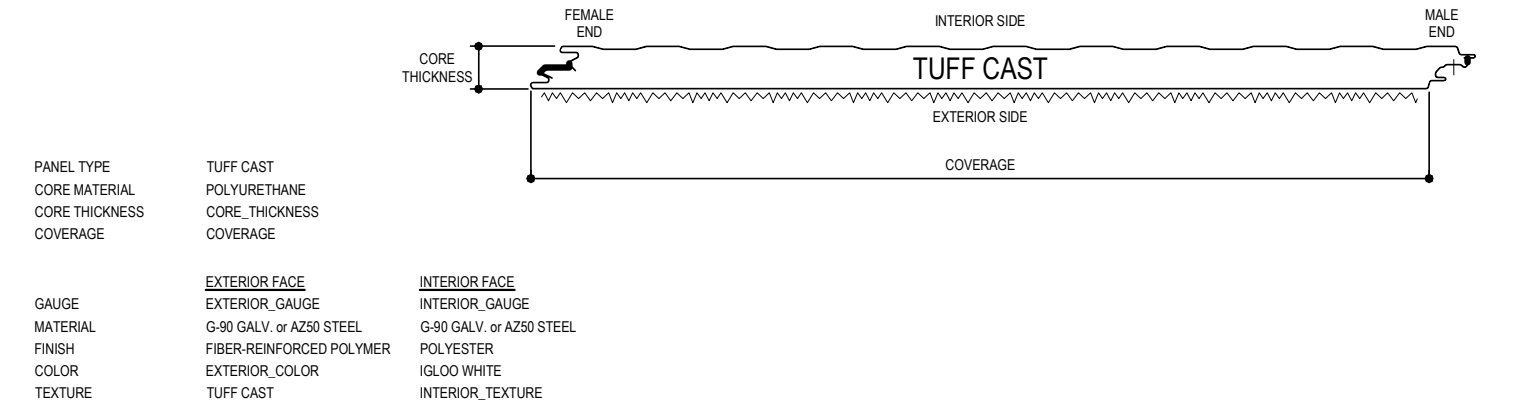


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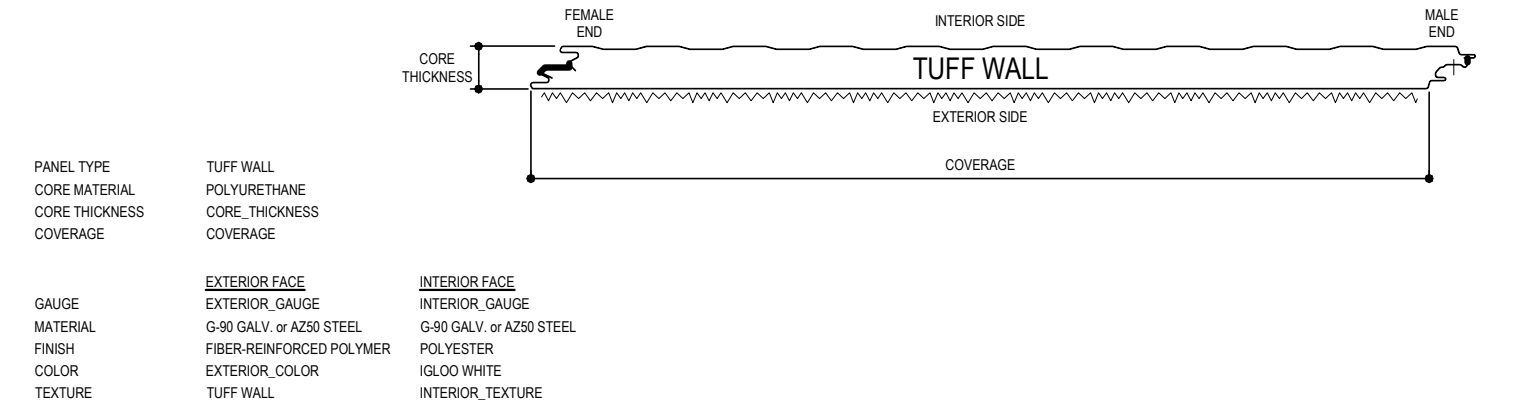
METL-SPAN - TUFF CAST

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METL-SPAN - TUFF WALL

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GA4000 - PROJECT PREPERATION NOTES - IMP WALL

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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 WAINESS CALLED "OIL CANNING" MAY EXIST IN THE PANEL. MINOR WAINESS IS NOT SUFFICIENT 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 BUNDLES PRIOR TO LOADING FOR SHIPMENT. IT IS THE RESPONSIBILITY OF THE TRANSPORTATION COMPANY TO DELIVER THESE COMPONENTS UN Damaged. IT IS THE CONSIGNEES 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 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, 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.

**DO NOT 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 BY THE OVERLAPPING JOINT.
- 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'-0" 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. NYLON 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 FOM 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 3).

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.

FIGURE 1  
STANDARD LENGTH BUNDLES

• BE CAREFUL WHEN UNLOADING OR MOVING LONG LENGTH BUNDLES

- DO NOT POSITION FORK AT THE CENTER OF THE BUNDLE, THIS MAY CAUSE PANEL DAMAGE.
- EACH FORKLIFT 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 SIDES OF THE UPPER AND LOWER PANELS.
- PLACE FOM BLOCKS ON THE SIDES OF BUNDLES AT ALL SLING LOCATIONS.
- WHEN BUNDLES ARE LONGER THAN 10'-0" 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 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 FROM THE OVERLAPPING JOINT. LIFT PANELS FROM THE BOTTOM RAIL.
- 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 APPROACH OF THE MANUFACTURER. ANY COST 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 DIRECTLY 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'-0" INCREMENTS AT 9'-0" O.C. ALONG THE LENGTH OF THE BUNDLES.
- CONTINUOUS CUT SLIT SHOULD BE MADE ALONG THE WIDTH OF THE BUNDLE.
- ELEVATE WITH WOOD BLOCKING 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 BUNDLE 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.

1/8" SLOPE (MINIMUM SLOPE RECOMMENDED 1:12)

CENTERLINE OF BEAMERS (BY OTHERS)

WATER PROOF COVER (BY OTHERS)

1'-0" SLITS @ 9'-0" O.C. ALONG HERE

BUNDLES

SLIT HERE

AIR FLOW

FINISH FLOOR

1'-0" SLITS @ 9'-0" O.C. ALONG HERE

STYROFOAM DUNNAGE (BY OTHERS)

WOOD BLOCKING (BY OTHERS)

**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 UNNECESSARY 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 WALL.

**COMMON TOOL REQUIREMENTS:**

CIRCULAR SAW	POWER DRILL	CARPENTER'S SQUARE
RIVET GUN	LEVEL	CHALK LINE
TAPE MEASURE	CLAW GRIP	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 & SHIMMING**

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

CHECK SUPPORT ALIGNMENT AGAINST THESE TOLERANCES:

- ± 8" SPACING - 1/8" - 0"
- ± 0" SPACING - 1/4" - 0"

(ARCHITECTURAL FLAT PANELS) ± 4'-0" SPACING - ± 1/8" - 0"

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

OUTWARD ALIGNMENT WITHIN TOLERANCE = ACCEPTABLE

INWARD ALIGNMENT = NOT ACCEPTABLE

**FASTENERS:**

INSULATED WALL 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 ELSEWHERE ON THE ERECTION DRAWING SET.

436	SELF-DRILLING SCREW 10-14 x 1 1/4" TYPE 1	41030	SELF-DRILLING SCREW 10-14 x 1 1/4" TC P 3 W WASHER	41050	SELF-DRILLING SCREW 10-14 x 1 1/4" TC P 1 W WASHER
41100	1" STAINLESS STEEL BLIND POP RIVET GRP RANGE: 18" - 31"	41220	SELF-DRILLING SCREW 12-14 x 1 1/4" P 3 W WASHER	42050	SELF-DRILLING SCREW 10-14 x 1 1/4" TC P 1 W WASHER
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GA4001 - PROJECT INSTALLATION NOTES - IMP WALL

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INSTALLATION PROCEDURES:

**NOTE:** INSULATED PANELS, DUE TO THEIR JOINERY, DO NOT PROVIDE DIAPHRAGM STIFFNESS FOR THE BUILDING WALL 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 WALLS ARE PLUMB:** ENSURE BUILDING WALLS TO BE SHEETED ARE PLUMB AND THAT ANY CROSS-BRACING REQUIRED IS IN PLACE AND SNUG TO PREVENT WALL MOVEMENT DURING PANEL INSTALLATION. ALL SECONDARY MEMBERS ARE IN PLACE AND PLUMB.
- SAG BRACING:** IF SAG 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.
- WALL PLANE IS FREE OF OBSTRUCTIONS:** SEE "INSTALLATION GUIDELINES" SECTION BELOW.
- PANEL LAYOUT:** REVIEW CUT DIMENSIONS FOR INSULATED PANELS AT ERECTION DRAWING PANEL LAYOUTS AND BECOME FAMILIAR WITH STARTING AND ENDING PANEL REQUIREMENTS.
- WALL OPENING LOCATIONS:** LOCATIONS OF OPENINGS MAY NEED TO BE ADJUSTED SLIGHTLY (INCHES) DUE TO PANEL JOINERY. TYPICALLY, PANELS ABOVE AND BELOW OPENINGS ARE TO BE INSTALLED AS WORK PROGRESSES. IF POSSIBLE, KEEP SIDE PANEL JOINTS 4" AWAY FROM FRAMED OPENINGS AS A MINIMUM.
- PERSONNEL WALK DOORS:** INSTALL PRIOR TO PANEL INSTALLATION. NOTIFY YOUR CUSTOMER SERVICE COORDINATOR IF YOU FIND A POTENTIAL ERECTION PROBLEM.

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 FEMALE 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 BASE OF THE FIRST PANEL IN THE PROPER POSITION, PLUMB THE PANEL AND SECURE IN PLACE.
- PREPARE ADJACENT PANEL EDGE (VERIFY/ADD BUTYL CAULK, ETC.) PLACE INTO POSITION.
- MAINTAIN AN EVEN AND UNIFORM GAP AT THE PANEL SIDE JOINT (1/8" MAX), THEN FASTEN PANEL INTO POSITION USING ALL REQUIRED SIDE JOINT FASTENERS. REFER TO "WALL OPENINGS" FOR SPECIFIC INFORMATION AT OPENINGS.
- REPEAT THE INSTALLATION PROCESS OCCASIONALLY CHECKING FOR PLUMB. IF ANY MINOR "OUT-OF-PLUMB" IS DETECTED, TAKE CORRECTIVE ACTION IN MINOR STEPS WITH SUBSEQUENT PANELS TO BRING THE SHEETING PROCESS BACK TO PLUMB.

INSTALLATION GUIDELINES:

INSULATED PANELS PROVIDE INSULATION PERFORMANCE SUPERIOR TO CONVENTIONAL METAL WALL 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. CONTINUOUS, 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 WALL FOR COMPONENT ALIGNMENT AND PLANE FLATNESS. WALL COMPONENTS SHOULD NOT VARY MORE THAN 1/8" OVER THE ENTIRE WALL 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 WALL 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 PURLINE 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 SIDE 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 FILINGS 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:

- TRIMS 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.

THERMAL WINDOW:

DUE TO THE ISOLATIVE PROPERTIES AND CONNECTION REQUIREMENTS OF THE WALL SYSTEM, THERMAL BREAK WINDOWS ARE RECOMMENDED FOR USE WITH INSULATED WALL PANELS.

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.

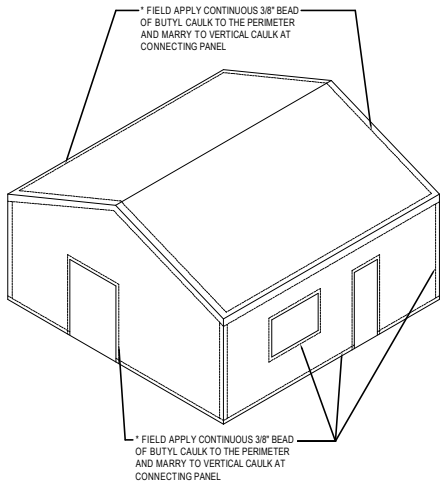
SURFACE REPAIR PROCEDURES:

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

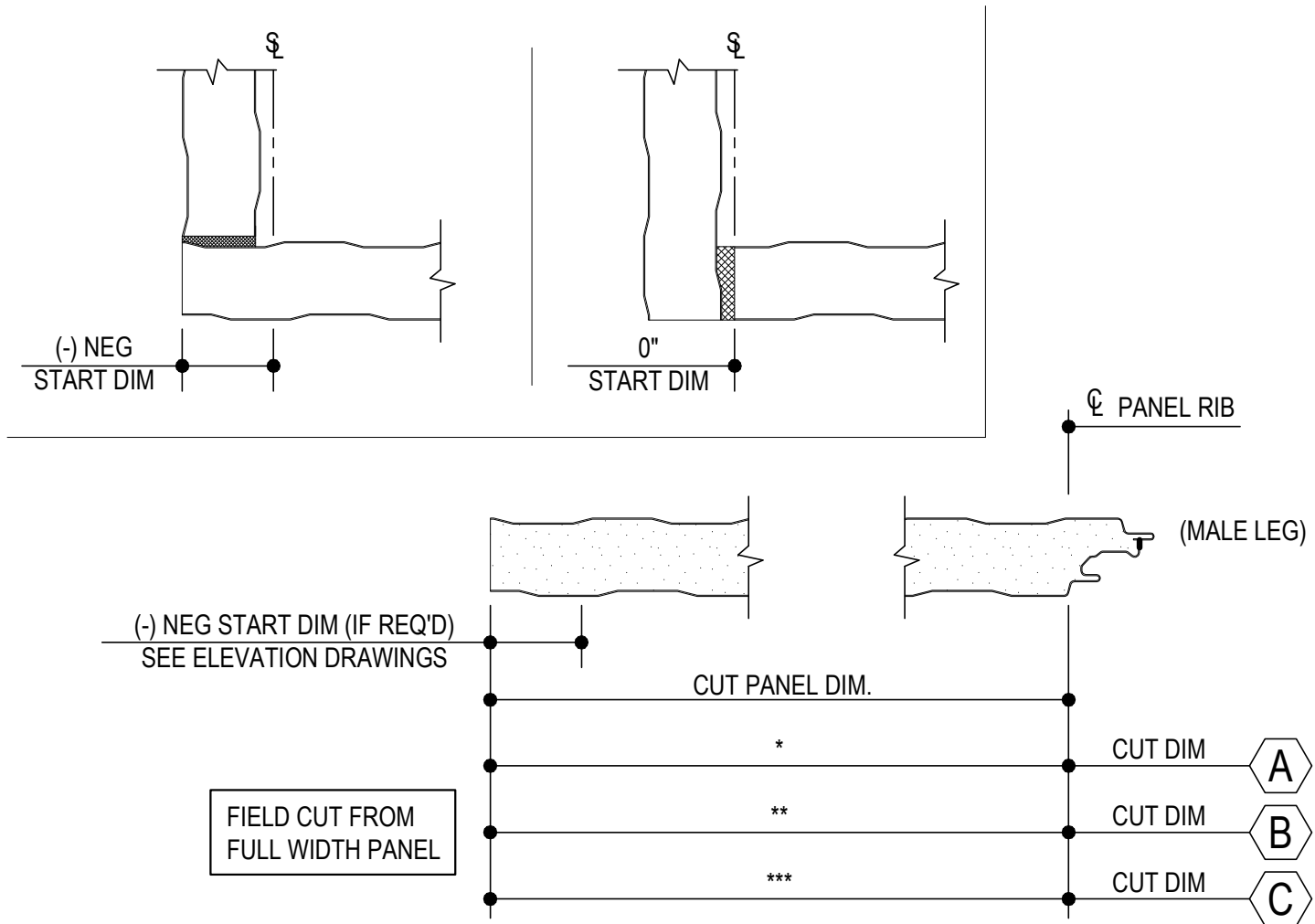
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Detailer Notes:

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

GA4020 - WALL 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 WALL 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.

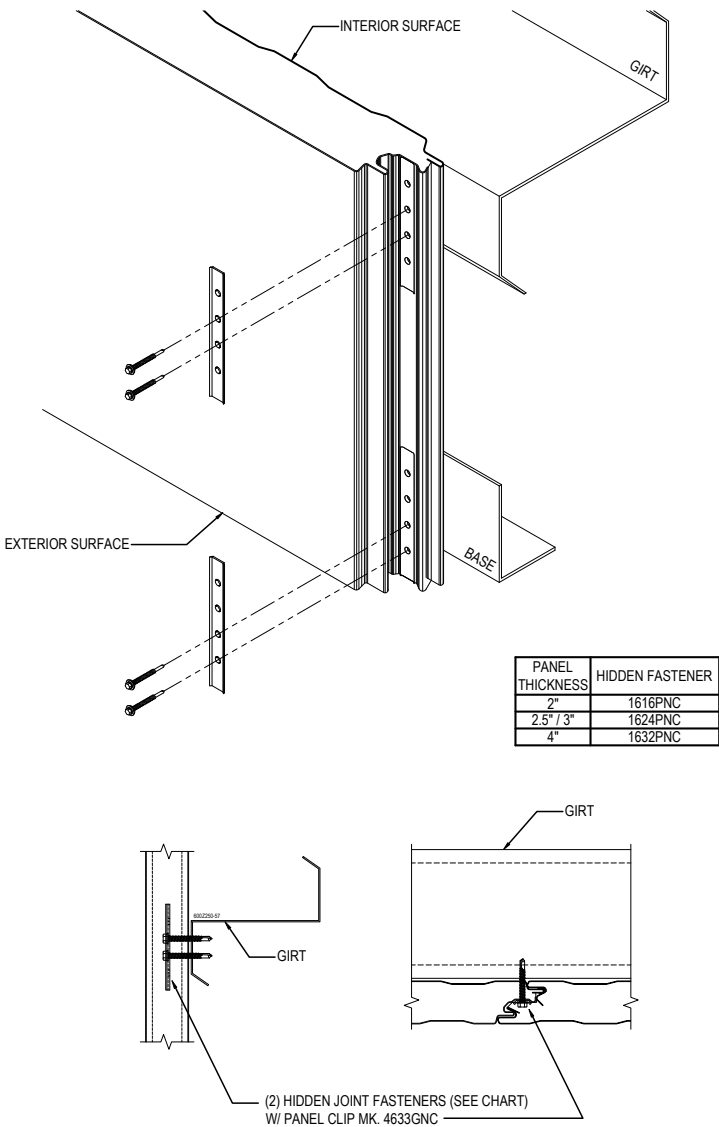
**GA4020**

**Detailer Notes:**

1) THIS DETAIL SHOULD BE PLACED ON THE ERECTION DRAWINGS

GA4030 - PANEL ATTACHMENT AT COLD-FORM

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



**PANEL ATTACHMENT DETAIL**  
WALL PANEL ATTACHMENT AT COLD FORM SECONDARY

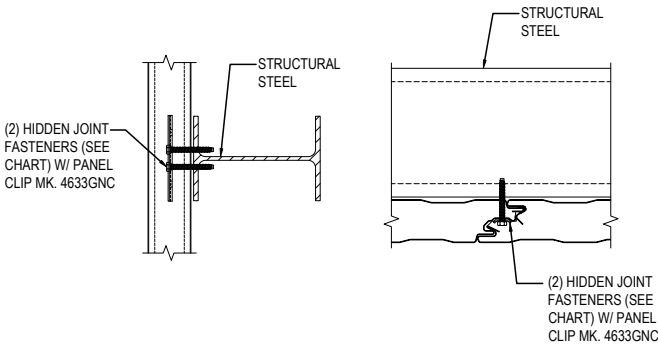
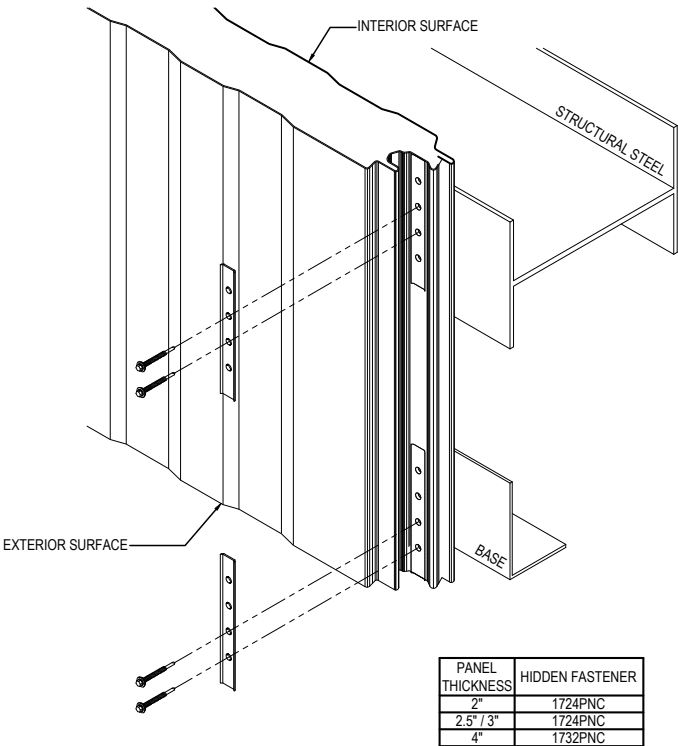
**GA4030**

Detailer Notes:

- 1) N/A

GA4031 - PANEL ATTACHMENT AT HOT-ROLLED

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



**PANEL ATTACHMENT DETAIL**  
WALL PANEL AT HOT-ROLLED SECONDARY

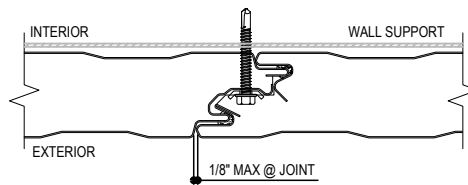
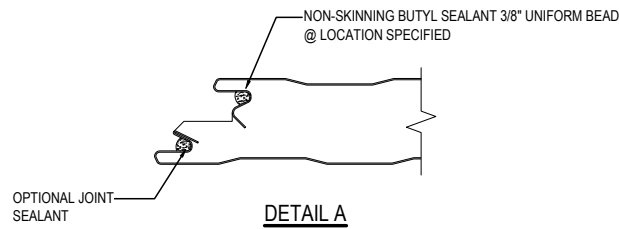
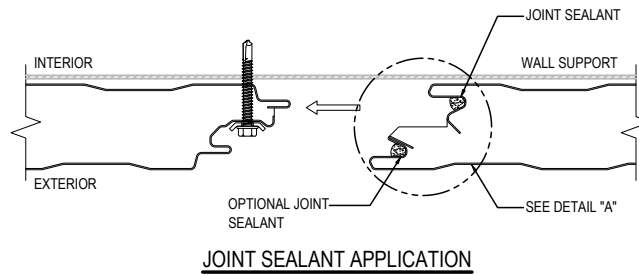
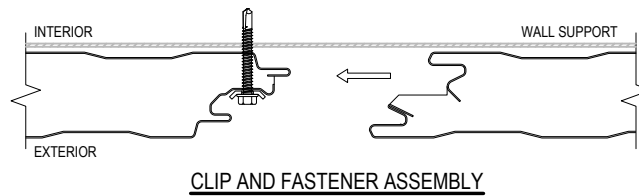
**GA4031**

Detailer Notes:

- 1) N/A

GA4035 - PANEL ATTACHMENT VERTICAL SEAM

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



**PANEL JOINT DETAIL**  
WALL PANEL JOINT

**GA4035**

Detailer Notes:

1) N/A

GA4100 - INSULATED PANEL ATTACHMENT AT LOW EAVE

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

PANEL THICKNESS	HIDDEN FASTENER
2"	1616PNC
2.5" / 3"	1624PNC
4"	1632PNC

**ERECTOR NOTE:**

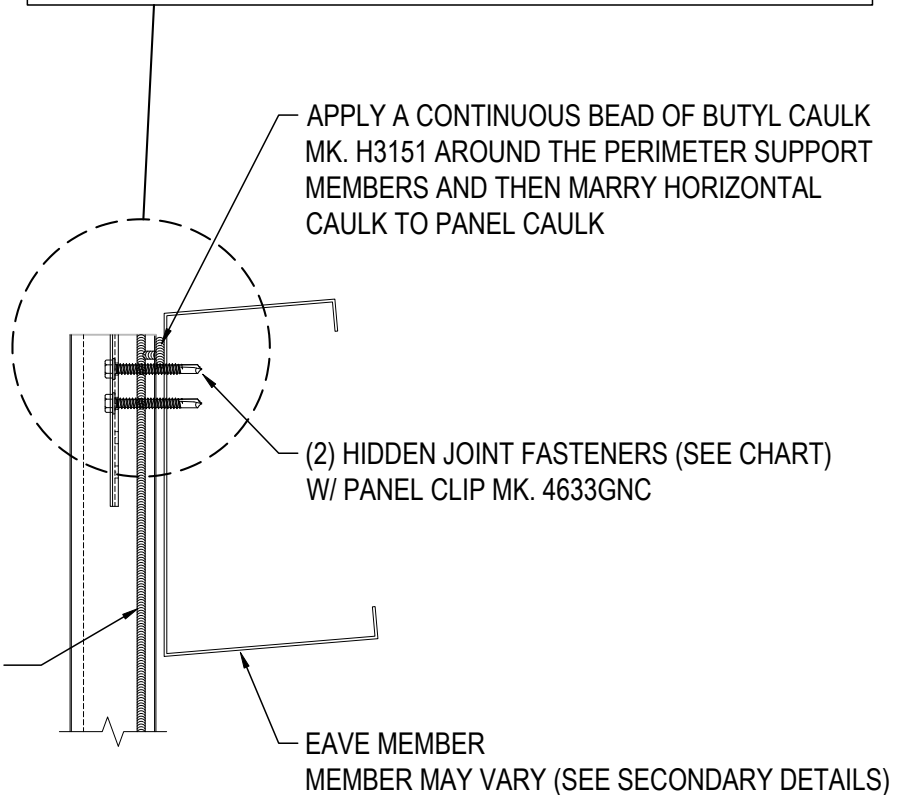
SEE CORRESPONDING ROOF SHEETING DETAIL FOR ROOF PANEL & TRIM INFORMATION.  
SEE ALSO FOR TOP OF PANEL PLACEMENT

APPLY A CONTINUOUS BEAD OF BUTYL CAULK MK. H3151 AROUND THE PERIMETER SUPPORT MEMBERS AND THEN MARRY HORIZONTAL CAULK TO PANEL CAULK

(2) HIDDEN JOINT FASTENERS (SEE CHART)  
W/ PANEL CLIP MK. 4633GNC

EAVE MEMBER  
MEMBER MAY VARY (SEE SECONDARY DETAILS)

FIELD OR FACTORY APPLIED BUTYL CAULK  
AT VERTICAL JOINT (CONTINUOUS 3/8" BEAD)



## INSULATED WALL PANEL AT LOW EAVE

INSULATED WALL PANELS

**GA4100**

Detailer Notes:

1) N/A

GA4110 - INSULATED PANEL ATTACHMENT AT HIGH EAVE

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

PANEL THICKNESS	HIDDEN FASTENER
2"	1616PNC
2.5" / 3"	1624PNC
4"	1632PNC

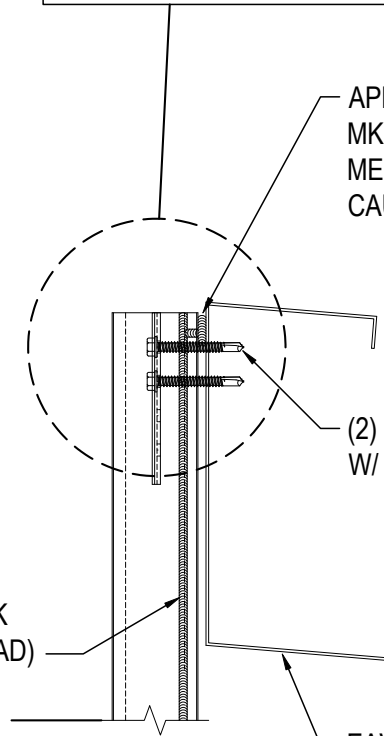
**ERECTOR NOTE:**  
SEE CORRESPONDING ROOF SHEETING DETAIL FOR ROOF PANEL & TRIM INFORMATION.  
SEE ALSO FOR TOP OF PANEL PLACEMENT

APPLY A CONTINUOUS BEAD OF BUTYL CAULK MK. H3151 AROUND THE PERIMETER SUPPORT MEMBERS AND THEN MARRY HORIZONTAL CAULK TO PANEL CAULK

(2) HIDDEN JOINT FASTENERS (SEE CHART)  
W/ PANEL CLIP MK. 4633GNC

FIELD OR FACTORY APPLIED BUTYL CAULK  
AT VERTICAL JOINT (CONTINUOUS 3/8" BEAD)

EAVE MEMBER  
MEMBER MAY VARY (SEE SECONDARY DETAILS)



## INSULATED WALL PANEL AT HIGH EAVE

INSULATED WALL PANELS

**GA4110**

Detailer Notes:

1) N/A

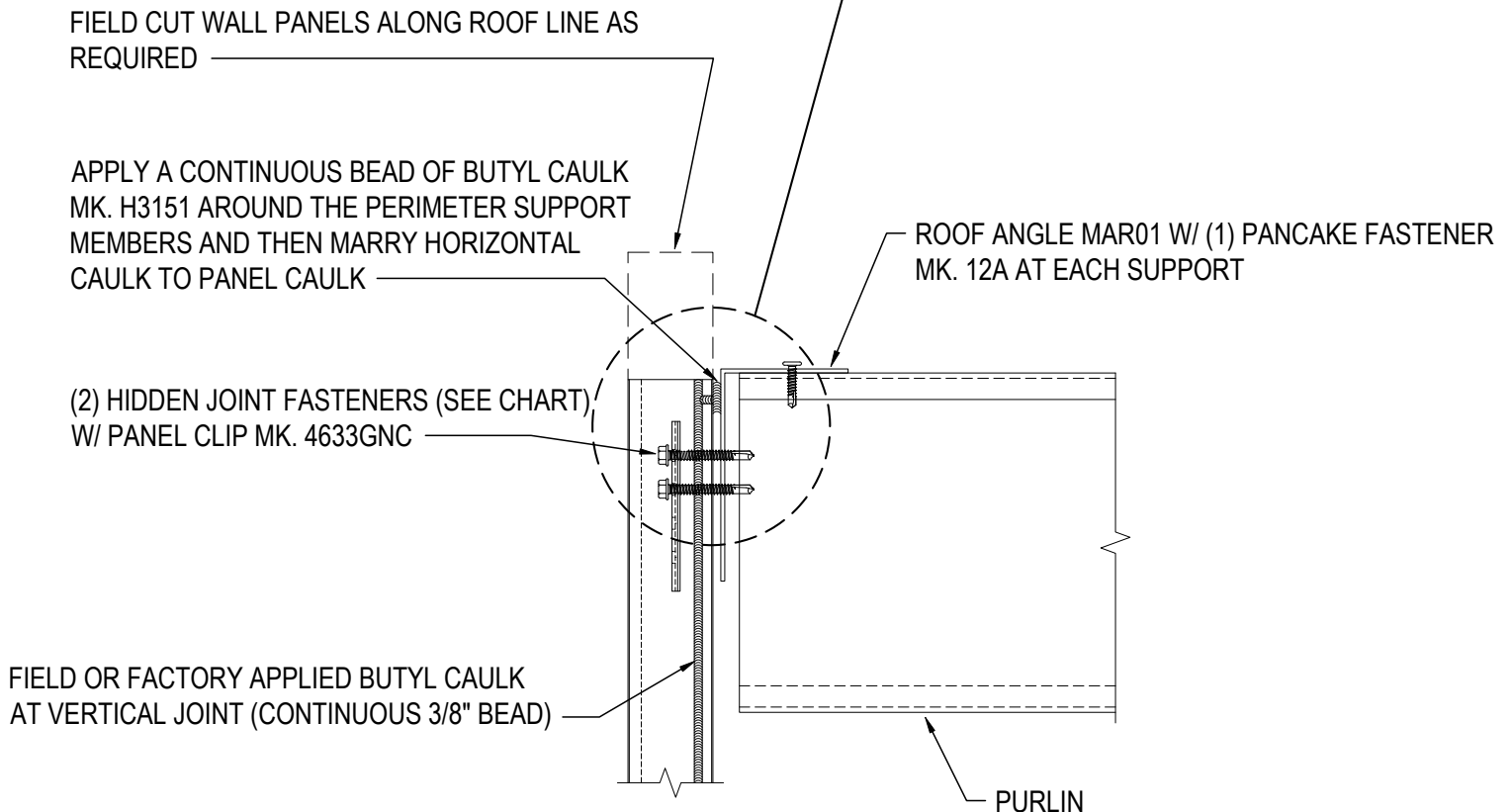


GA4120 - INSULATED PANEL ATTACHMENT AT RAKE

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

PANEL THICKNESS	HIDDEN FASTENER
2"	1616PNC
2.5" / 3"	1624PNC
4"	1632PNC

**ERECTOR NOTE:**  
SEE CORRESPONDING ROOF SHEETING DETAIL FOR ROOF PANEL & TRIM INFORMATION.



## INSULATED WALL PANEL AT RAKE

INSULATED WALL PANELS

**GA4120**

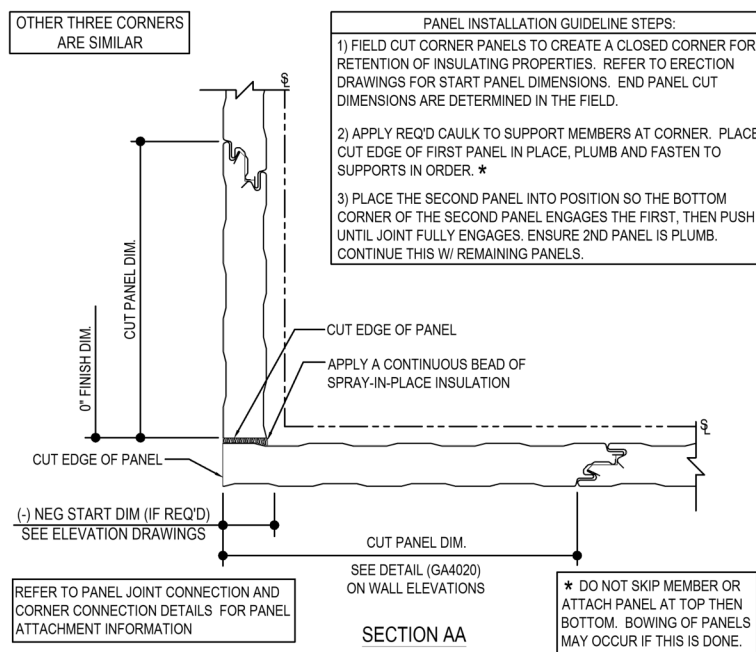
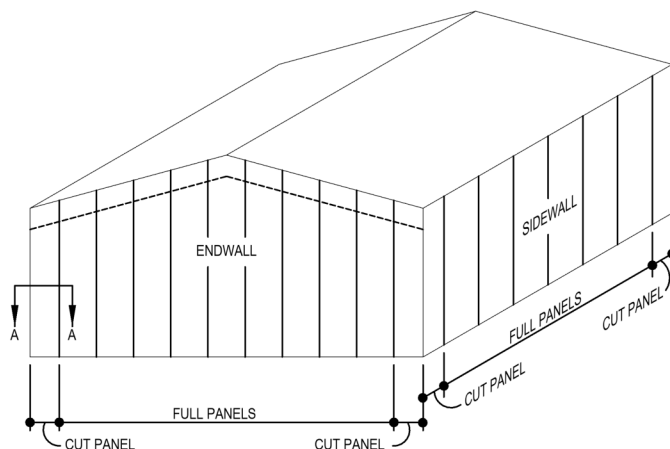
Detailer Notes:

1) N/A

**GA4200 - INSULATED METAL PANEL WALL CORNER LAYOUT**

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

NOTE: UNLESS BUILDING PANEL LAYOUT PROHIBITS, THE ENDWALL PANELS WILL EXTEND PAST THE CORNER STEEL / GIRT LINE BY THE THICKNESS OF THE SIDEWALL PANELS. THIS IS TO ALLOW FOR A FULLY CLOSED CORNER.



**GA4200**

**Detailer Notes:**

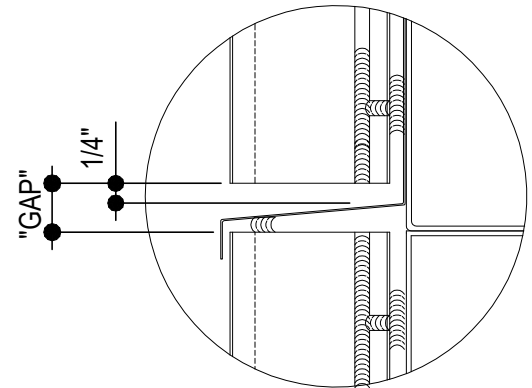
1) N/A

GA4300 - PANEL STACK JOINT

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

PANEL THICKNESS	HIDDEN FASTENER
2"	1616PNC
2.5" / 3"	1624PNC
4"	1632PNC

OVERALL "GAP" BETWEEN PANELS  
2" / 2.5" WALL PANELS = 7/16"  
3" WALL PANELS = 1/2"  
4" WALL PANELS = 5/8"



(2) HIDDEN JOINT FASTENERS (SEE CHART)  
W/ PANEL CLIP MK. 4633GNC

STACK JOINT TRIM  
MK. MSSC\_\_

H1100 RIVET  
@ 8" O.C.

MK. 14 RIVET  
@ 8" O.C.  
REQ'D w/ TUFF COATED PANELS

CONTINUOUS BUTYL CAULK MK. H3151  
ALONG TOP OF PANEL

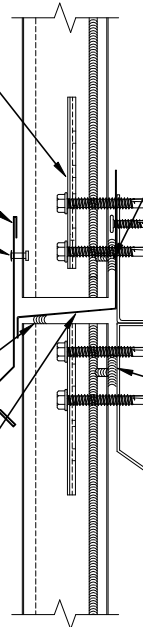
STACK JOINT TRIM  
MK. MSSJ\_\_  
W/ PANCAKE FASTENER MK. H1220  
(AS NEEDED FOR ALIGNMENT)

CONTINUOUS BUTYL CAULK MK. H3151  
WITH MARRIAGE BEAD TO VERTICAL  
PANEL JOINT CAULK

SUPPORT ANGLE MK. MAR02 (L.L.V.)  
W/ H1020 @ 12" O.C.

TOP OF PANEL

CONTINUOUS BUTYL CAULK MK. H3151  
WITH MARRIAGE BEAD TO VERTICAL  
PANEL JOINT CAULK



## STACKED JOINT

INSULATED WALL PANEL STACK JOINT TRIM

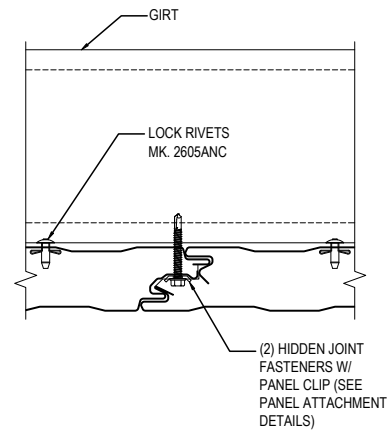
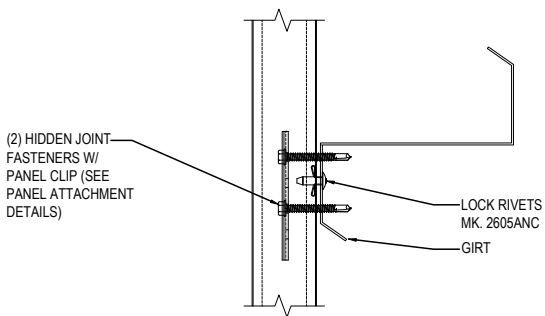
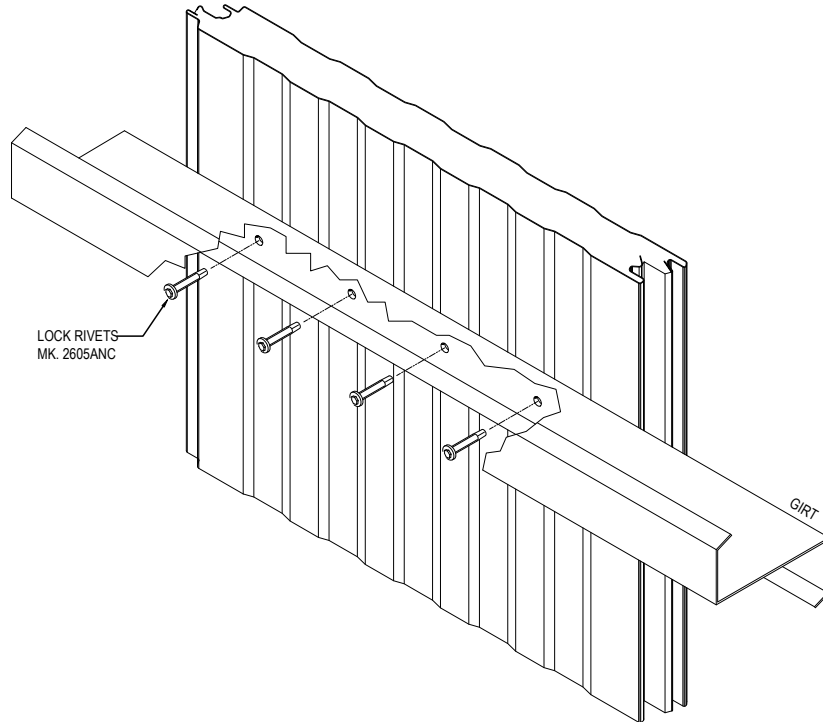
**GA4300**

Detailer Notes:

1) N/A

GA4400 - BACK FASTENING AT COLD-FORM

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



**BACK FASTENING DETAILS**

WALL PANEL BACK FASTENING AT COLD FORM SECONDARY

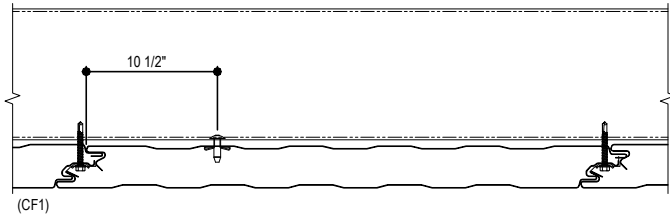
**GA4400**

Detailer Notes:

1) N/A

### GA4410 - BACK FASTENING AT COLD FORM

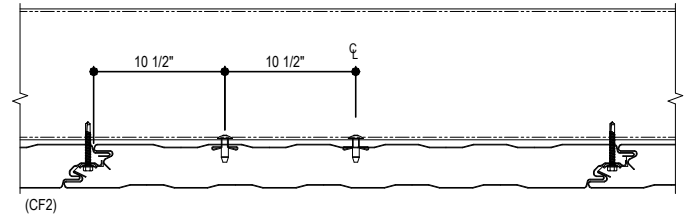
[Download the DWG file by clicking here.](#)



**COLD FORM FASTENING PATTERN 1**  
SIDE JOINT FASTENING AND (1) LOCK RIVET MK. 2605ANC

INSTALL LOCK RIVETS THROUGH GIRT  
FLANGE INTO MESA WHERE THE SKIN  
MAKES CONTACT WITH THE STEEL

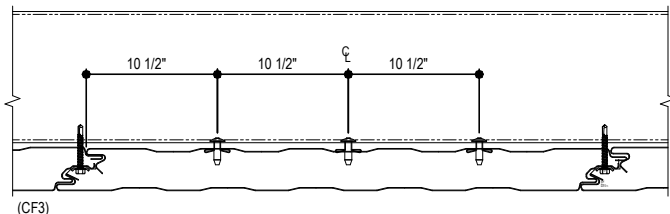
CF1



**COLD FORM FASTENING PATTERN 2**  
SIDE JOINT FASTENING AND (2) LOCK RIVETS MK. 2605ANC

INSTALL LOCK RIVETS THROUGH GIRT  
FLANGE INTO MESA WHERE THE SKIN  
MAKES CONTACT WITH THE STEEL

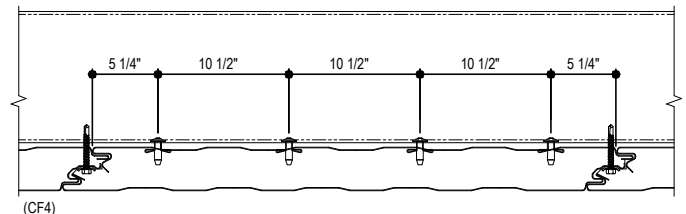
CF2



**COLD FORM FASTENING PATTERN 3**  
SIDE JOINT FASTENING WITH (3) LOCK RIVETS MK. 2605ANC

INSTALL LOCK RIVETS THROUGH GIRT  
FLANGE INTO MESA WHERE THE SKIN  
MAKES CONTACT WITH THE STEEL

CF3



**COLD FORM FASTENING PATTERN 4**  
SIDE JOINT FASTENING AND BACK FASTENING WITH (4) LOCK RIVETS MK. 2605ANC

INSTALL LOCK RIVETS THROUGH GIRT  
FLANGE INTO MESA WHERE THE SKIN  
MAKES CONTACT WITH THE STEEL

CF4

### COLD FORM BACK FASTENING PATTERNS

INSULATED METAL PANEL BACK FASTENING PATTERNS

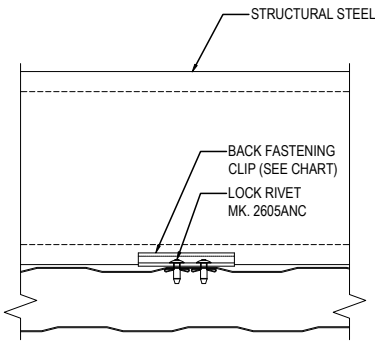
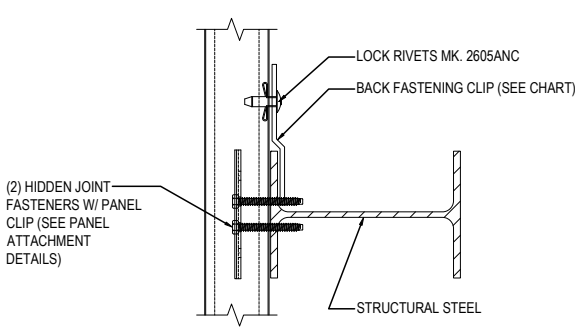
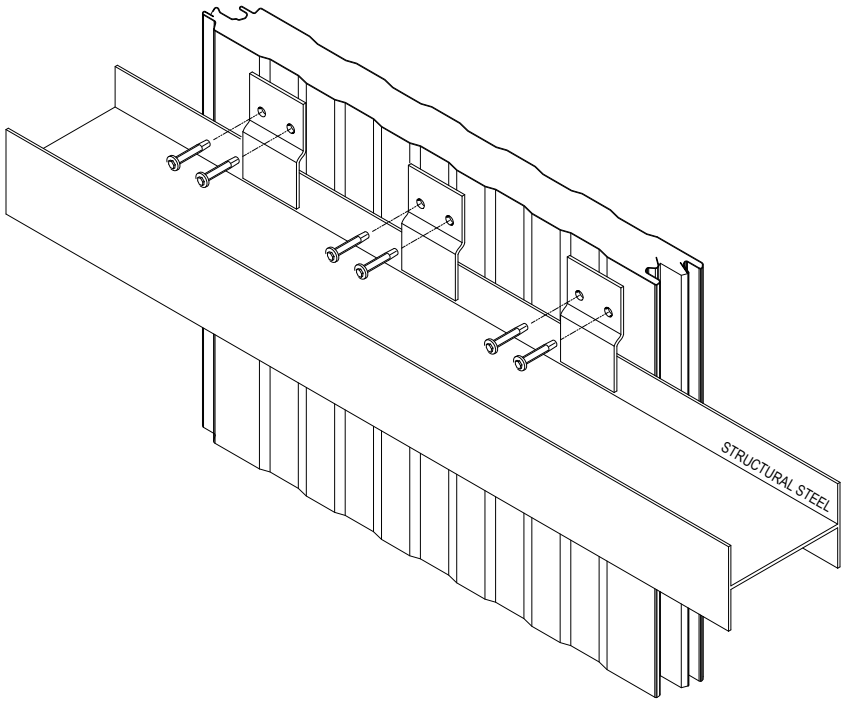
GA4410

#### Detailer Notes:

1) N/A

GA4420 - BACK FASTENING AT HOT-ROLLED

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



BACK FASTENING CLIP	
CLIP W/ -1/4" OFFSET	4802GNC
CLIP W/ -3/8" OFFSET	4803GNC
CLIP W/ -1/2" OFFSET	4804GNC

**BACK FASTENING DETAILS**

WALL PANEL BACK FASTENING AT HOT-ROLLED SECONDARY

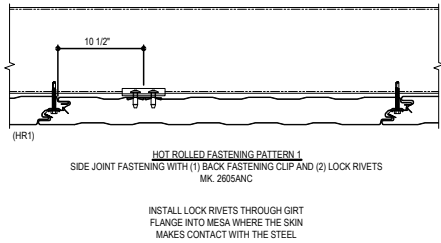
GA4420

Detailer Notes:

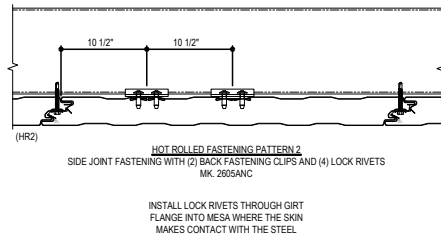
- 1) N/A

GA4430 - BACK FASTENING AT HOT ROLLED

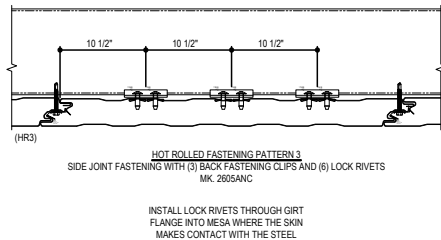
[Download the DWG file by clicking here.](#)



HR1



HR2



HR3

HOT-ROLLED BACK FASTENING PATTERNS  
INSULATED METAL PANEL BACK FASTENING PATTERNS

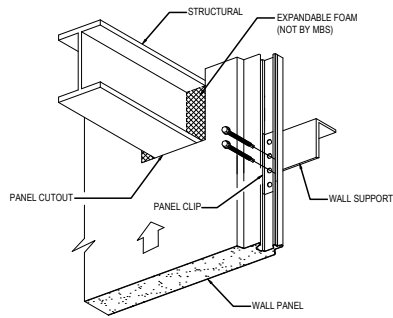
GA4430

Detailer Notes:

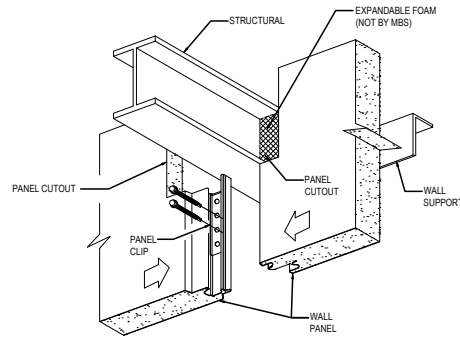
1) N/A

**GA4500 - STRUCTURAL PENETRATION THROUGH INSULATED PANEL**

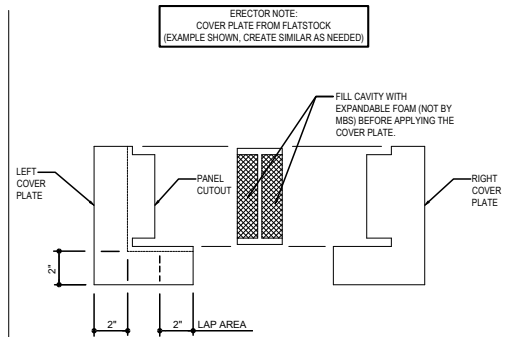
[Download the DWG file by clicking here.](#)



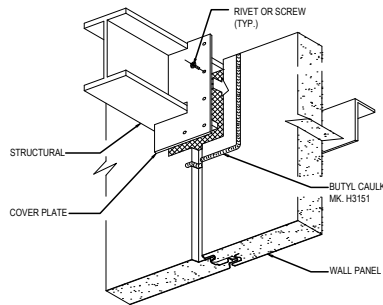
PANEL CUTOUT (AT CENTER OF PANEL)  
TYP.



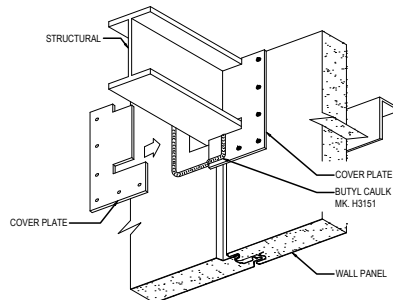
PANEL CUTOUT (AT PANEL JOINT) TYP.



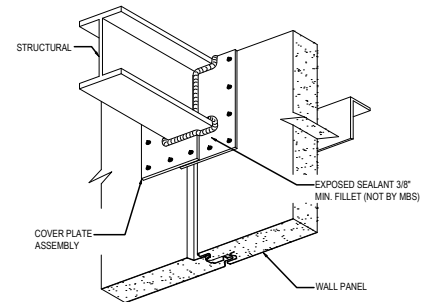
COVER PLATE LAYOUT



RIGHT COVER PLATE INSTALLATION TYP.



LEFT COVER PLATE INSTALLATION TYP.



PENETRATION PERIMETER SEAL TYP.  
PENETRATION AT STRUCTURAL MEMBER

**GA4500**

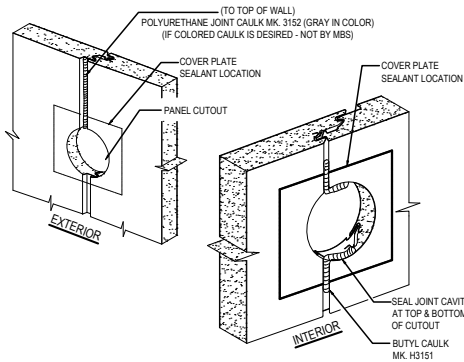
**Detailer Notes:**

1) N/A

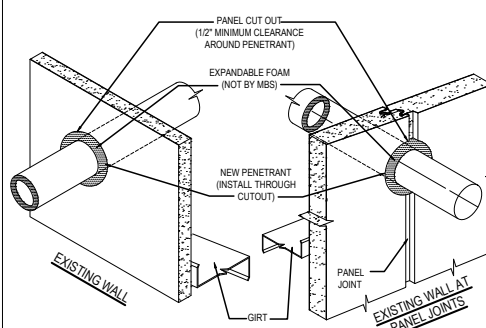


**GA4510 - PIPE PENETRATION THROUGH INSULATED PANEL**

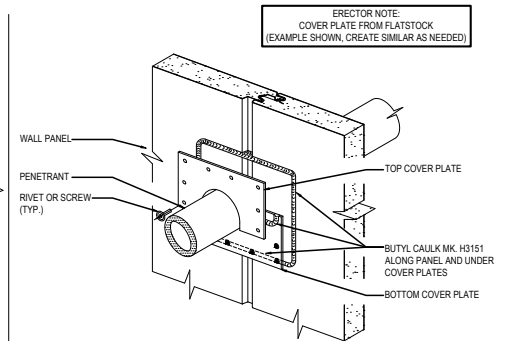
[Download the DWG file by clicking here.](#)



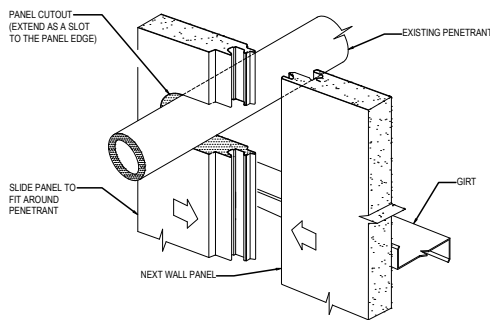
EXTERIOR WEATHER SEAL/ INTERIOR AIR/VAPOR SEAL



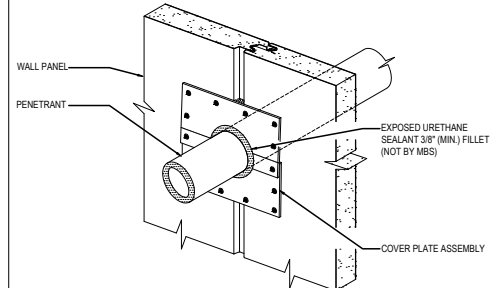
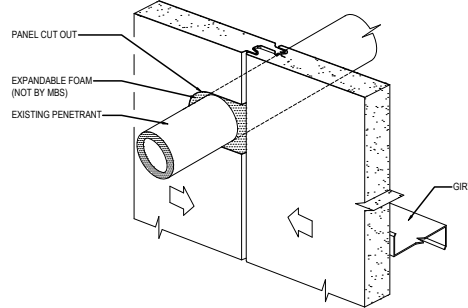
PENETRATION AT EXISTING WALL AND PANEL LAPS



TOP AND BOTTOM COVER PLATE INSTALLATION TYP.



EXISTING PENETRATION IN NEW WALL AT PANEL LAPS



PENETRATION PERIMETER SEAL

PIPE PENETRATION AT NEW AND EXISTING

**GA4510**

**Detailer Notes:**

1) N/A