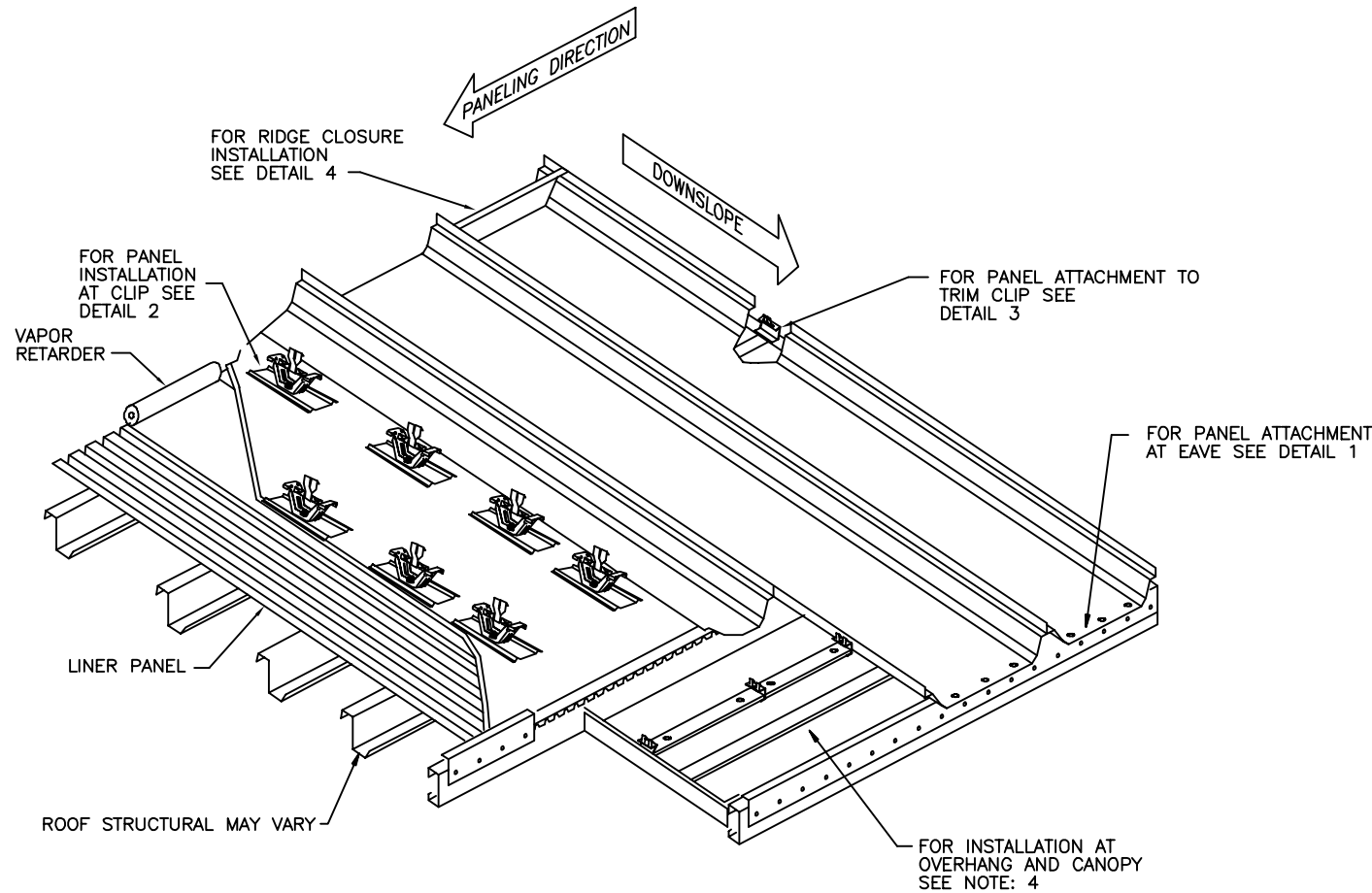
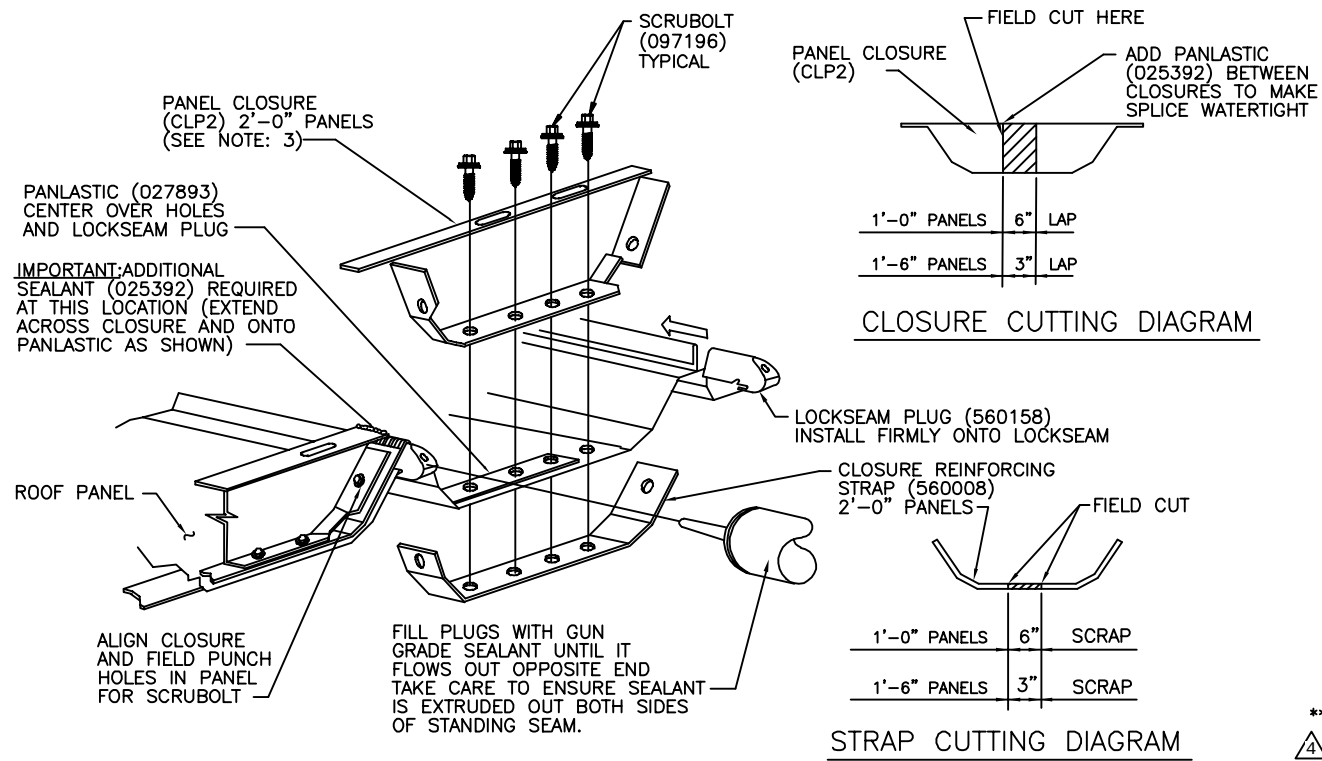


REVISION NUMBER 4				REVISION NUMBER 3				REVISION NUMBER 2				REVISION NUMBER 1			
ADDED FBC CORROSION NOTE.				ADD FLORIDA APPROVAL LOGO				REVISED TO ADD METRIC CALLOUTS AND METRIC LAYOUT TABS. ENH #24356. ALSO ADDED PRODUCT APPROVAL NOTE.				REVISED TO CHANGE DRAWING REFERENCE P-080222 IS BEING OBSOLETE AND REPLACED WITH P-081756.			
DATE 09/16/26				DATE 09/02/20				DATE 12/04/18				DATE 05/15/14			
DWBY CHKD RLB				DWBY CHKD BSN				DWBY CHKD RHE BSN				DWBY CHKD RLB			



CMR-24 ROOF INSTALLATION

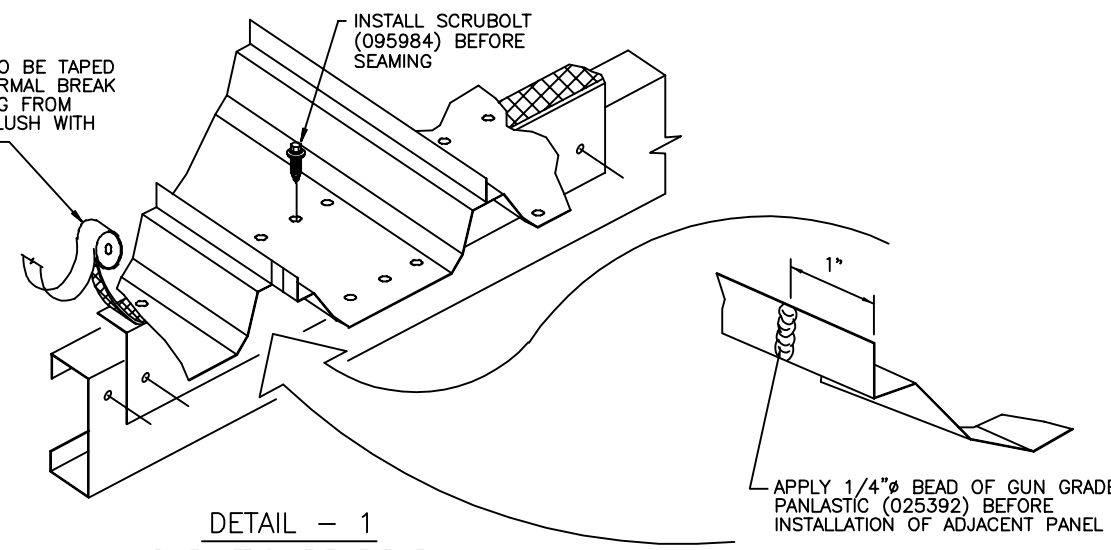


DETAIL-4
RIDGE CLOSURE INSTALLATION

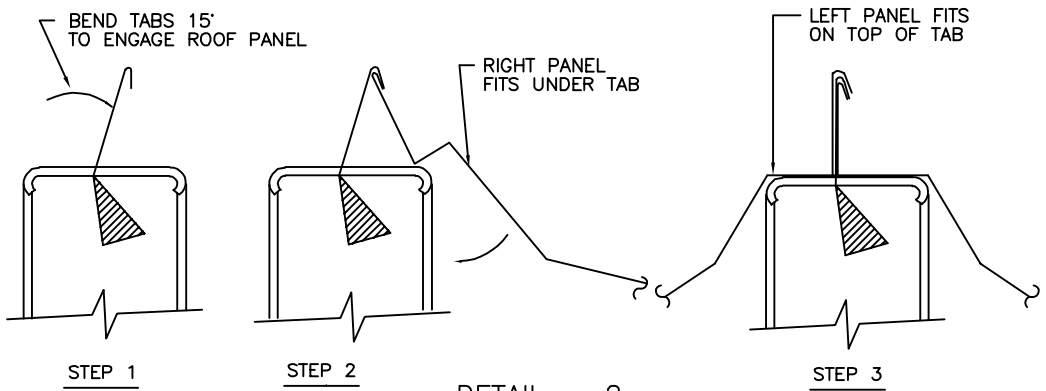
CLOSURE CUTTING DIAGRAM

STRAP CUTTING DIAGRAM

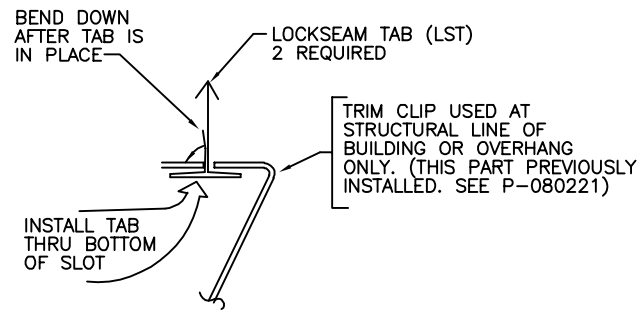
IMPORTANT
TOP SURFACE OF EAVE ANGLE TO BE TAPED WITH CONTINUOUS BAND OF THERMAL BREAK TAPE (560429). REMOVE BACKING FROM TAPE AND APPLY SO EDGE IS FLUSH WITH OUTSIDE EDGE OF EAVE ANGLE



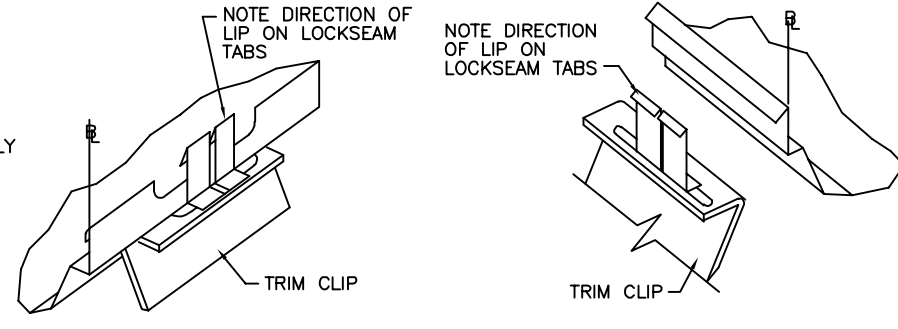
DETAIL - 1
PANEL ATTACHMENT AT EAVE



DETAIL - 2
PANEL ATTACHMENT AT CLIP



TAB INSTALLATION



RIGHT SLOPE OF ENDWALL
LEFT SLOPE OF ENDWALL
DETAIL - 3
PANEL ATTACHMENT TO TRIM CLIP

NOTE:
TO HELP PREVENT WALL STAINING CAUSED BY ROOF RUN-OFF, INSTALL EAVE EDGE OF ROOF TRIM OR GUTTER PARTS IMMEDIATELY AFTER ROOF PANELS ARE INSTALLED.

** FOR INSTALLATION IN AREAS WITHIN 3000 FEET OF A SALTWATER COASTLINE, FASTENERS ARE CORROSION RESISTANT AS PER THE FLORIDA BUILDING CODE, SECTION 1711.

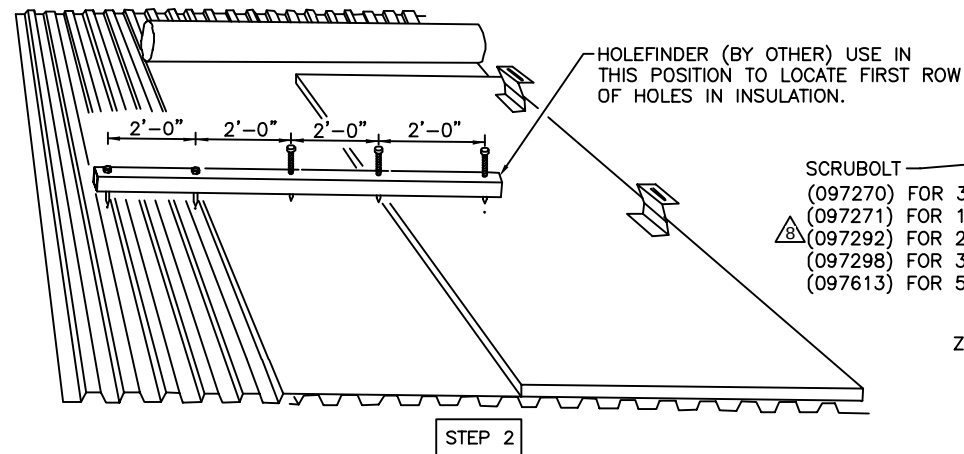
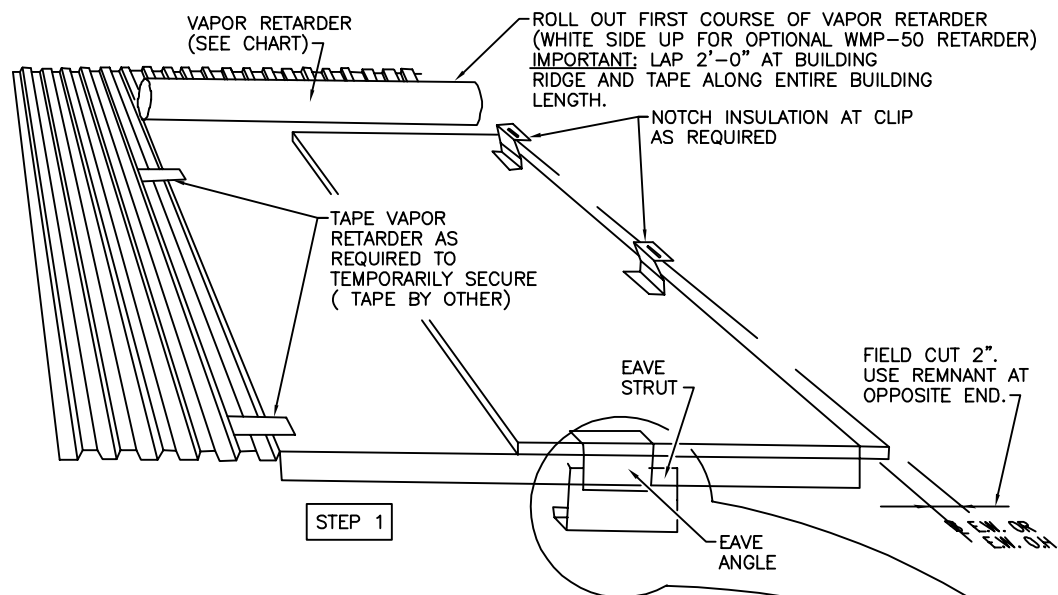
- GENERAL NOTES:**
- FOR ROOF LINER VAPOR RETARDER & INSULATION INSTALLATION, SEE DRAWING P-081756.
 - FOR MR-24 PANEL SPLICE INSTALLATION, SEE DRAWING P-080212.
 - DO NOT INSTALL PANEL CLOSURE ON END PANELS UNTIL ENDWALL TRIM HAS BEEN INSTALLED AND SEAMED.
 - LINER PANEL AND RIGID INSULATION MAY BE REQUIRED AT OVERHANG OR CANOPY. SEE DRAWING P-081756 FOR INSTALLATION. FOR INSTALLATION AT OVERHANG WITHOUT LINER PANEL AND RIGID INSULATION, SEE DRAWING P-080233.

THIS DRAWING IS INCLUDED IN A PRODUCT APPROVAL PACKAGE
REVISIONS MUST BE APPROVED BY THE MANAGER OF PRODUCT EXCELLENCE



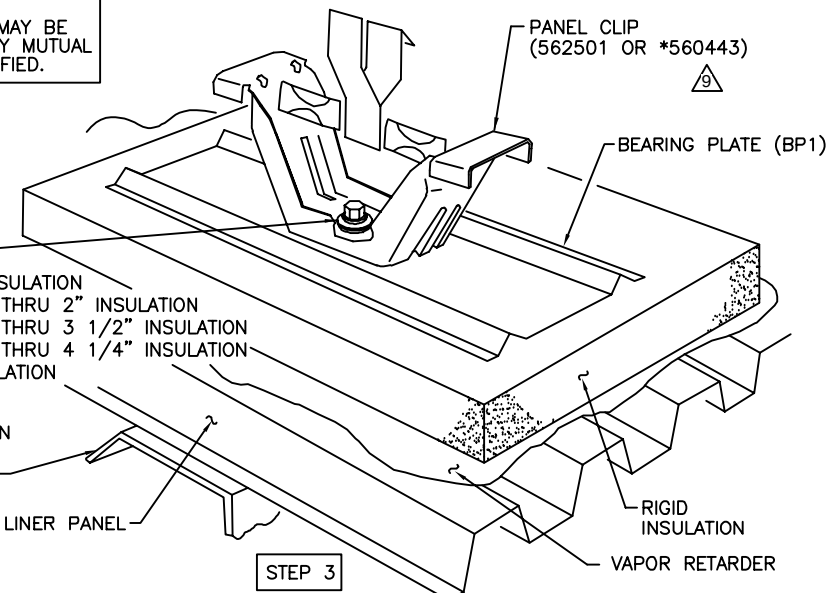
CMR-24 ROOF PANEL INSTALLATION			
DRAWN BY ACM	CHECKED BY JJ	GROUP NUMBER: 03-030-02	
FIRST RELEASE DATE 01/21/10	REVISION DATE 09/16/26	B	P-080225 04

REVISION NUMBER 10 ADDED THE FBC CORROSION NOTE.	DATE 09/16/26	DWBY CHKD RLB	NF
REVISION NUMBER 9 USER STORY 151655 REVISE 560440 PANEL CLIP WITH NEW 560443 CLIP	DATE 07/28/25	DWBY CHKD JLH	JRS
REVISION NUMBER 8 ADD FASTENER INFORMATION PER USER STORY #206908	DATE 11/19/24	DWBY CHKD BEG	JLH
REVISION NUMBER 7 ADD FLORIDA APPROVAL LOGO	DATE 09/02/20	DWBY CHKD BSN	RLB
REVISION NUMBER 6 ADD PRODUCT APPROVAL NOTE.	DATE 06/20/19	DWBY CHKD BSN	RLB



NOTE:
MR-24 CLIP (560443) MAY BE SUPPLIED WHEN FACTORY MUTUAL CLASSIFICATION IS SPECIFIED.

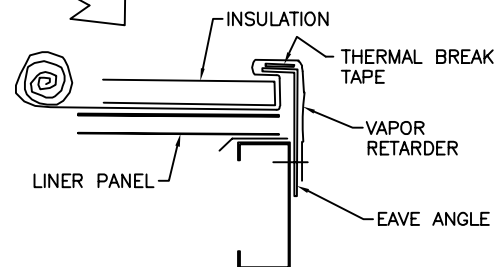
SCRUBOLT
(097270) FOR 3/4" INSULATION
(097271) FOR 1 3/4" THRU 2" INSULATION
(097292) FOR 2 1/4" THRU 3 1/2" INSULATION
(097298) FOR 3 3/4" THRU 4 1/4" INSULATION
(097613) FOR 5" INSULATION



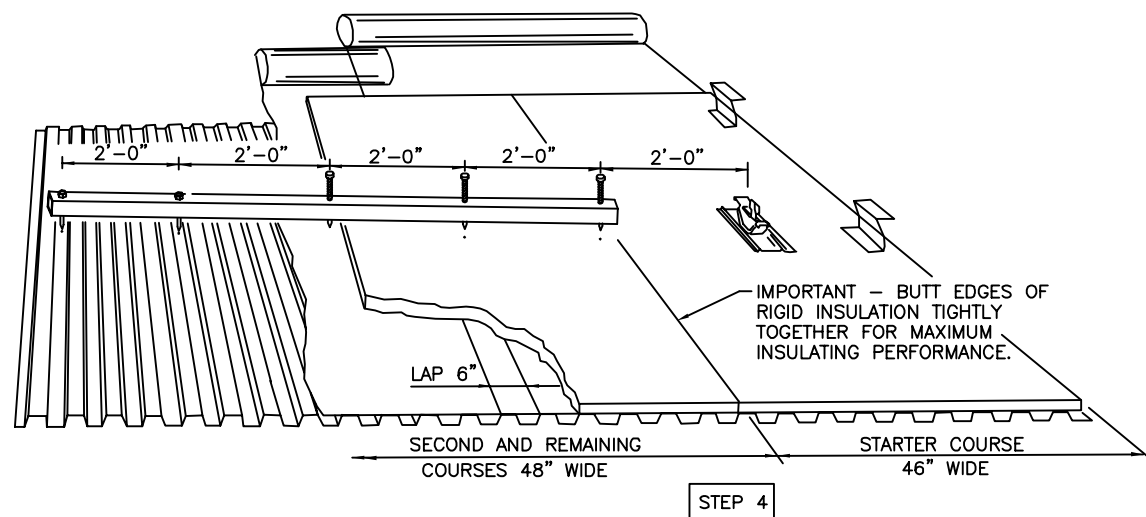
VAPOR RETARDER AND INSULATION PLACEMENT

THERMAX METAL BUILDING BOARD – UNPAINTED FOIL FACERS BOTH SIDES

NOTE:
VAPOR RETARDER INSTALLATIONS SHOULD NOT BE CONSIDERED TO BE AIR BARRIERS. BUILDINGS REQUIRING AIR BARRIERS NEED SPECIAL CONSIDERATION BY A DESIGN PROFESSIONAL THAT IS NOT INCLUDED AS PART OF THIS PRODUCTS STANDARD OFFERING.



** FOR INSTALLATION IN AREAS WITHIN 3000 FEET OF A SALTWATER COASTLINE, FASTENERS ARE CORROSION RESISTANT AS PER THE FLORIDA BUILDING CODE, SECTION 1711.



LOCATING HOLES IN REMAINING RUNS OF INSULATION

WARNING

WHEN WALKING ON LINER PANEL THAT HAS BEEN FASTENED TO THE ROOF STRUCTURALS, DO NOT STEP ON THE SIDE LAP. STEP ONLY ON THE LINER PANEL AREA THAT IS SUPPORTED BY THE ROOF STRUCTURAL.

WARNING

Always use fall protection while working around roof perimeter and openings.

ERECTION SEQUENCE

INSTALL LINER PANEL PER DRAWING P-081756

- STEP 1 • ROLL OUT FIRST COURSE OF VAPOR RETARDER FROM EAVE TO RIDGE. TAPE AS REQUIRED TO TEMPORARILY SECURE. FIELD CUT 2" FROM THE FIRST COURSE OF INSULATION AT ENDWALL AND INSTALL. SAVE REMNANT FOR USE AT OPPOSITE ENDWALL (SEE LINER PANEL AND INSULATION LAYOUT DRAWING).
- STEP 2 • LOCATE THE FIRST ROW OF CLIP ATTACHMENT HOLES IN THE RIGID INSULATION USING HOLEFINDER (BY OTHER).
- STEP 3 • INSTALL BEARING PLATE AND PANEL CLIP TO SECURE INSULATION AS SOON AS HOLES ARE LOCATED. IMPORTANT: FASTEN PANEL CLIP SECURELY, BUT DO NOT OVERTIGHTEN.
- STEP 4 • INSTALL REMAINING COURSES OF VAPOR RETARDER, INSULATION AND PANEL CLIPS.
- TRIM INSULATION AT RIDGE IF REQUIRED.

	VAPOR RETARDER		MIN. TEMP. WORKABILITY	PERM. RATING
	PART NO.	MAT'L.		
STANDARD	560410	WMP-VR (PSK-LD)	-40°F	0.09
OPTIONAL	560532	WMP-50	-40°F	0.02

INSTALLATION OF THE VAPOR RETARDER IS NOT RECOMMENDED WHEN TEMPERATURE IS BELOW THE MINIMUM LEVELS NOTED ABOVE. IF INSTALLED WHEN TEMPERATURE IS BELOW THE MINIMUM LEVEL, EXTREME CARE IS REQUIRED BECAUSE IT MAY BECOME BRITTLE AND CRACK.

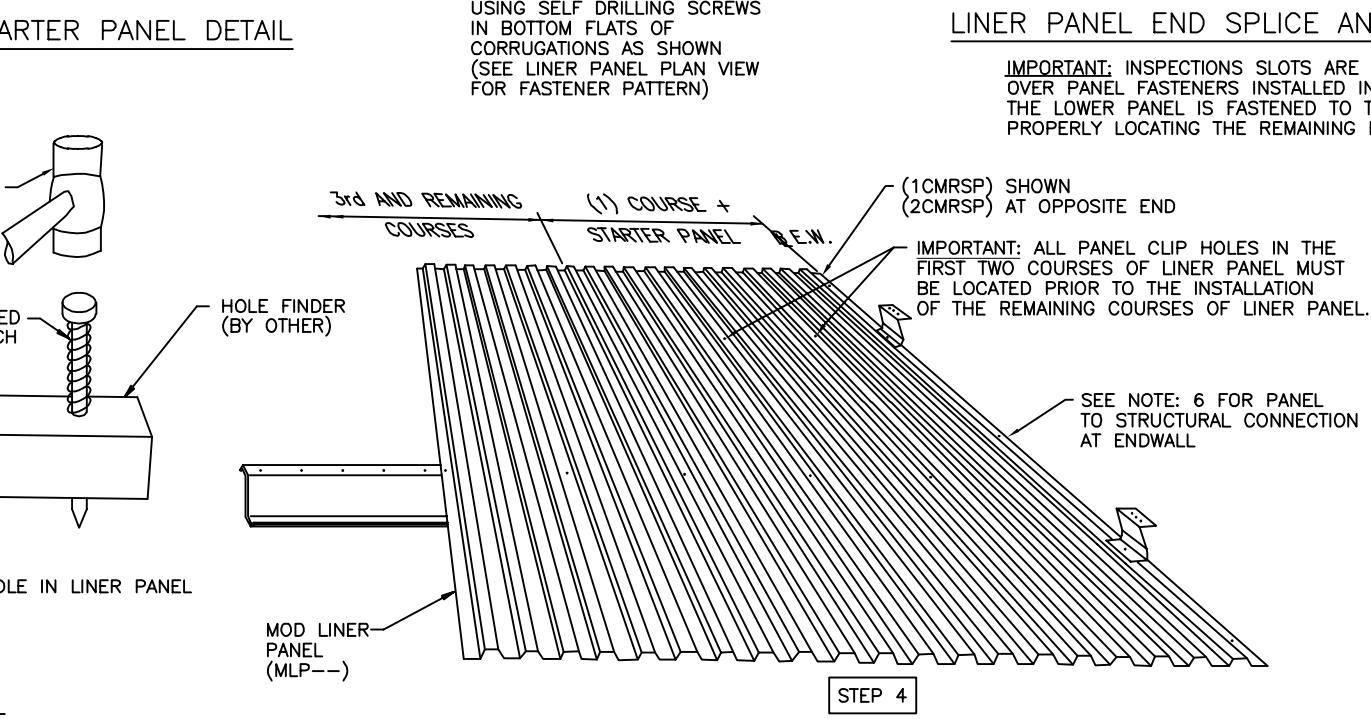
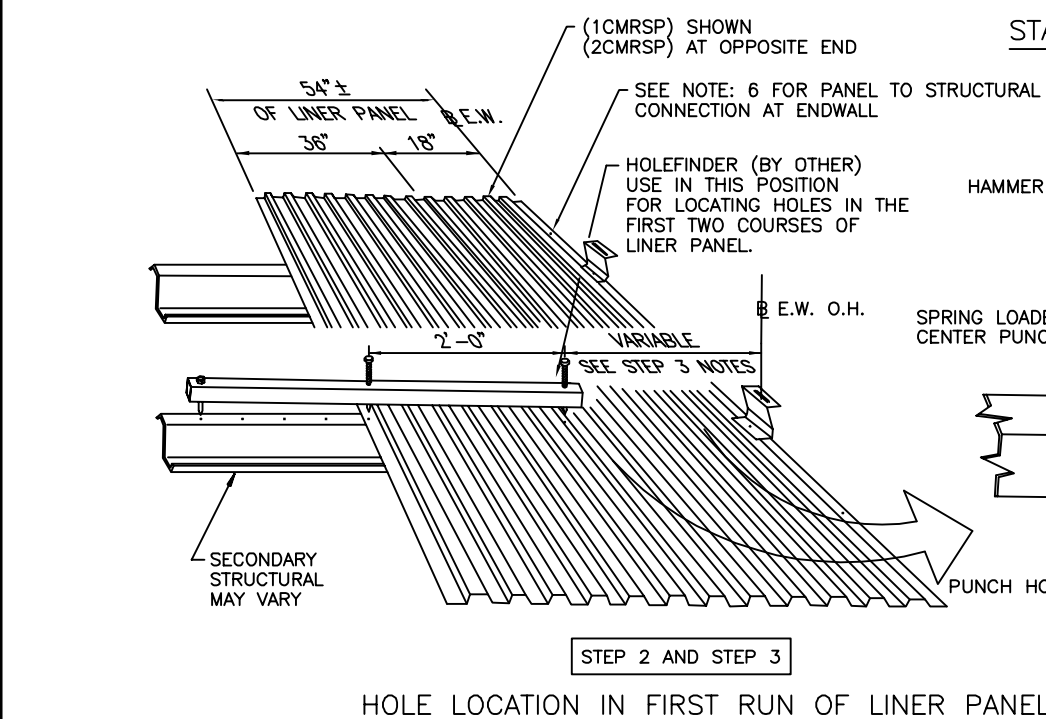
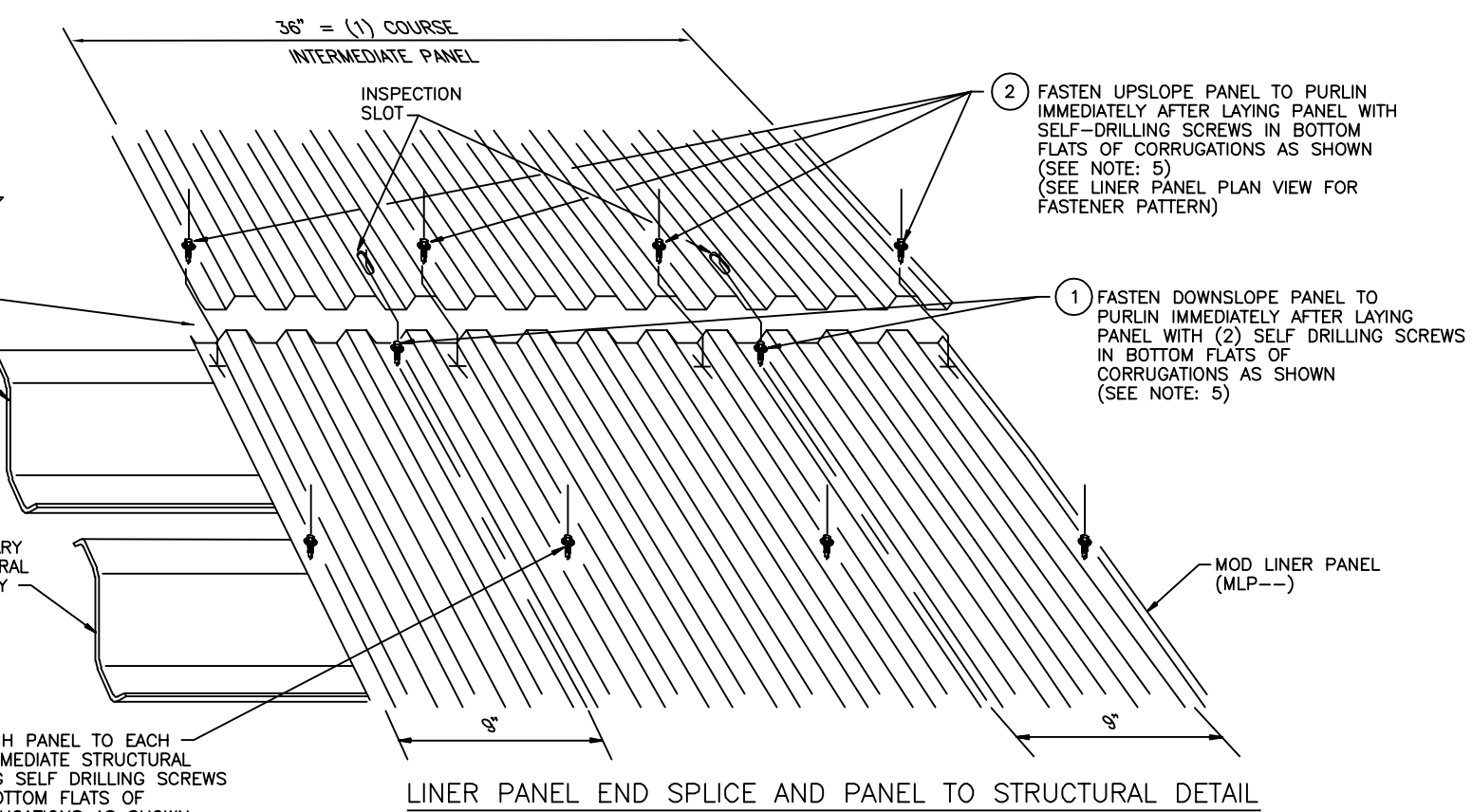
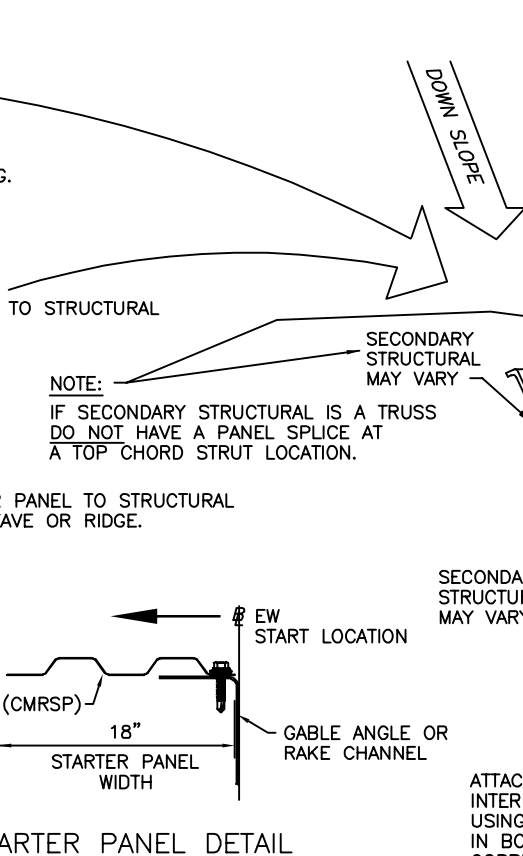
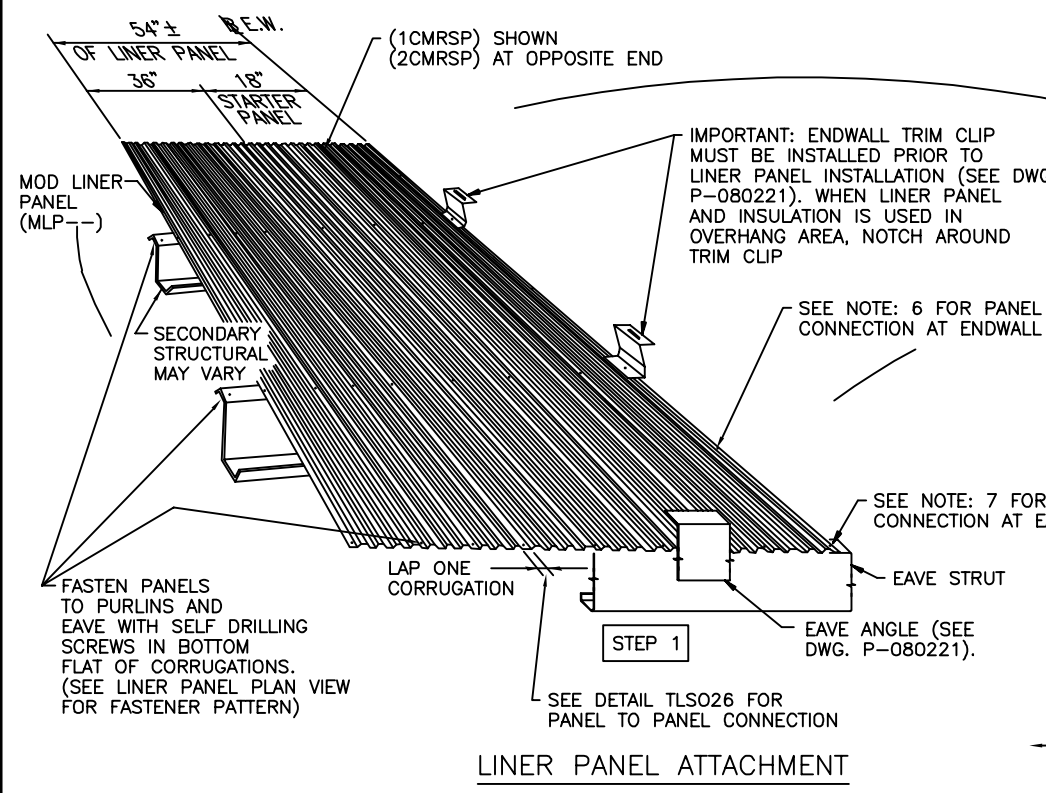
IF THE CMR-24 ROOF SYSTEM IS BEING APPLIED WITH BUILDING OCCUPANCIES OF 20% OR MORE RELATIVE HUMIDITY THE LOWER PERM.-RATED VAPOR RETARDER IS RECOMMENDED.

THIS DRAWING IS INCLUDED IN A PRODUCT APPROVAL PACKAGE
REVISIONS MUST BE APPROVED BY THE MANAGER OF PRODUCT EXCELLENCE



CMR-24 VAPOR RETARDER, INSULATION AND PANEL CLIP INSTALLATION				
DRAWN BY LJB	CHECKED BY RKP	GROUP NUMBER: 03-030-02		
FIRST RELEASE DATE 01/21/10	REVISION DATE 09/16/26	B	P-081354	10

REVISION NUMBER 6				REVISION NUMBER 2				REVISION NUMBER 3				REVISION NUMBER 4				REVISION NUMBER 5			
DATE		ADDED THE FBC CORROSION NOTE.		DATE		REMOVED REFERENCES TO P-080387 AND P-080388. WARNING PACKETS ARE NO LONGER BEING USED. GENERAL REVISION TO NOTES AND STEPS FOR INSTALLATION.		DATE		ADD NOTE IF THERE IS A TOP CHORD STRUT ON A TRUSS THAT A PANEL SPlice IN THAT LOCATION SHOULD BE MOVED.		DATE		ADD PRODUCT APPROVAL NOTE		DATE		ADD FLORIDA APPROVAL LOGO	
09/16/26				05/13/14				06/02/16				05/23/19				09/29/20		24319	
DWBY		CHKD		DWBY		CHKD		DWBY		CHKD		DWBY		CHKD		DWBY		CHKD	
RFB				RHE				BSN		RLB		BSN		RLB		BSN		RLB	
NF								DR		15857						24751			



ERECTION SEQUENCE

- STEP 1 INSTALL EAVE ANGLE AND ENDWALL TRIM CLIP PER DRAWING P-080221.
- STEP 2 INSTALL FIRST TWO COURSES EAVE TO RIDGE OF LINER PANELS WITH SELF-DRILLING SCREWS. SEE LINER PANEL AND INSULATION LAYOUT DRAWING FOR PART NUMBERS AND SPlice LOCATIONS.
- STEP 3 AFTER FIRST TWO COURSES OF LINER PANEL ARE INSTALLED USE HOLE-FINDER (BY OTHER) TO LOCATE THE FIRST TWO ROWS OF CLIP ATTACHMENT HOLES IN LINER PANEL. IMPORTANT: FIRST ROW OF HOLES MUST BE LOCATED DEPENDING ON WIDTH (9", 12", 15", 18", 21" OR 24") OF FIRST RUN OF MR-24 PANEL FROM ENDWALL BUILDING LINE. FIRST TWO ROWS OF HOLES IN LINER PANEL MUST BE LOCATED BEFORE INSTALLING REMAINING COURSES OF LINER PANEL.
- STEP 4 INSTALL REMAINING LINER PANELS. FASTEN AS IN STEP 1.
- STEP 5 INSTALL VAPOR RETARDER (IF REQUIRED), INSULATION AND PANEL CLIP PER DRAWING P-081354.

NOTES:

- FOR ROOF VAPOR RETARDER (IF REQUIRED) AND INSULATION INSTALLATION PROCEDURES, SEE DRAWINGS P-081354 AND P-081358.
- LINER PANEL AND INSULATION ARE OPTIONAL AT OVERHANG AND CANOPY WITH 24 GAGE MR-24 ROOF PANELS, SEE DRAWING P-080233.
- FOR LINER PANEL LENGTH CALCULATION INFORMATION REFER TO DRAWING P-080236.
- FASTENER PATTERN SHOWN IS 36/4/0.
- SEE LINER PANEL PLAN VIEW DRAWING FOR FASTENER LOCATION, QUANTITIES AND PART NUMBERS. SEE DRAWING ALSO FOR WHAT FASTENER PATTERN IS REQUIRED
- INSTALL STRUCTURAL FASTENERS ALONG GABLE ANGLE OR RAKE CHANNEL. SPACE FASTENERS EVENLY BETWEEN PURLIN SPACES AT A MAXIMUM OF 12".
- INSTALL STRUCTURAL FASTENERS ALONG THE EAVE (OR AT THE RIDGE) AT EVERY OTHER PANEL CORRUGATION APPROXIMATELY EVERY 6".

THIS DRAWING IS INCLUDED IN A PRODUCT APPROVAL PACKAGE
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BEFORE ROOF INSTALLATION BEGINS, HOLD A SAFETY MEETING AND REVIEW "ROOFING WORK SAFETY INSTRUCTIONS" FOUND IN THE SAFETY MANUAL.

DURING ROOF INSTALLATION, FOLLOW ALL "ROOFING WORK SAFETY INSTRUCTIONS" FOUND IN THE SAFETY MANUAL.

WARNING

ALWAYS USE FALL PROTECTION WHILE WORKING AROUND ROOF PERIMETER AND OPENINGS.

WARNING

WHEN WALKING ON LINER PANEL THAT HAS BEEN FASTENED TO THE ROOF STRUCTURALS, DO NOT STEP ON THE SIDE LAP. STEP ONLY ON THE LINER PANEL AREA THAT IS SUPPORTED BY THE ROOF STRUCTURAL.

** FOR INSTALLATION IN AREAS WITHIN 3000 FEET OF A SALTWATER COASTLINE, FASTENERS ARE CORROSION RESISTANT AS PER THE FLORIDA BUILDING CODE, SECTION 1711.

CMR-24 LINER PANEL INSTALLATION 3" ON CENTER CORRUGATION PANEL			
DRAWN BY	BSN	CHECKED BY	RLB
FIRST RELEASE DATE	08/23/12	REVISION DATE	09/16/26
GROUP NUMBER: 00-000-00		B P-081756 06	