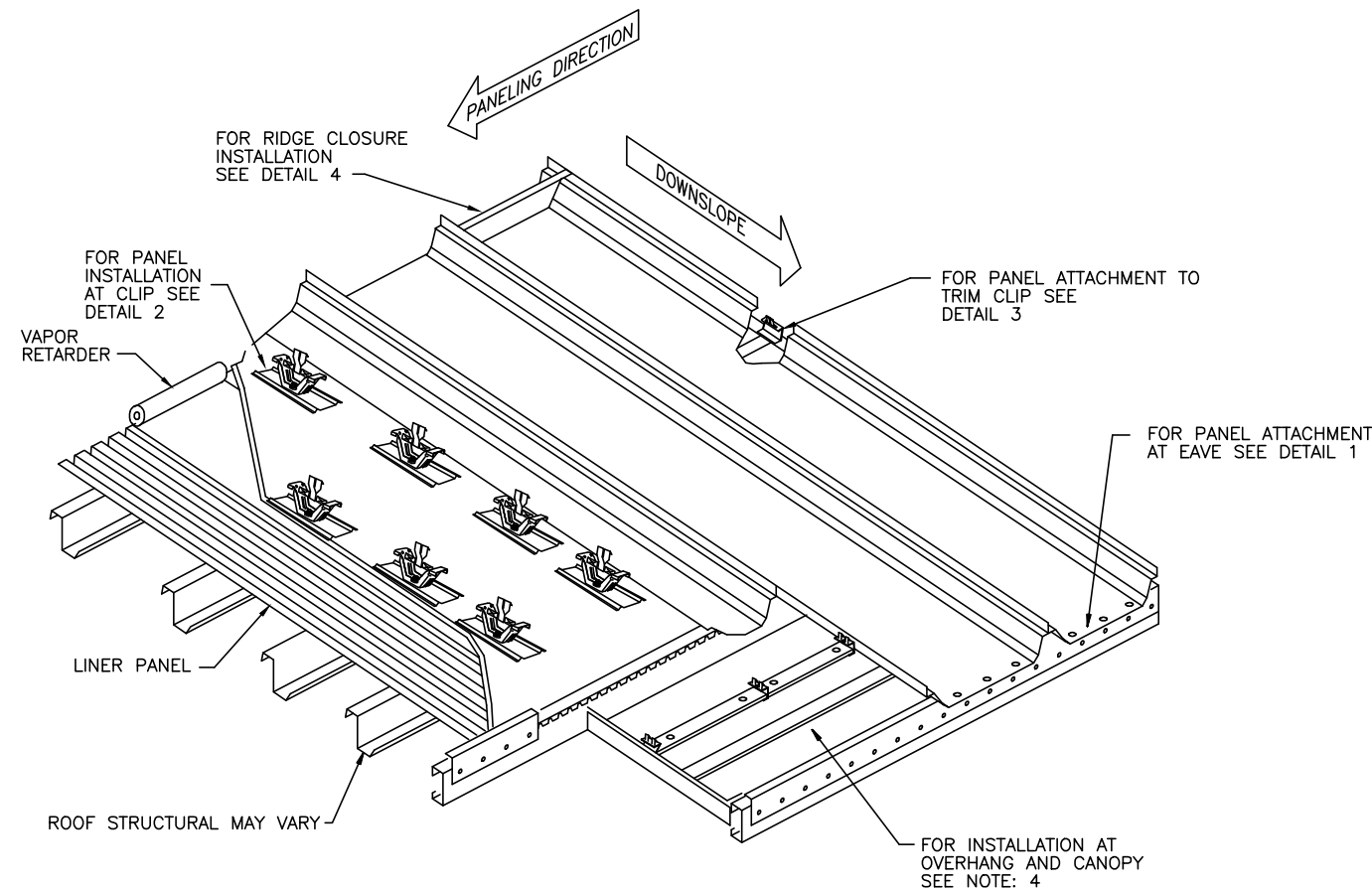
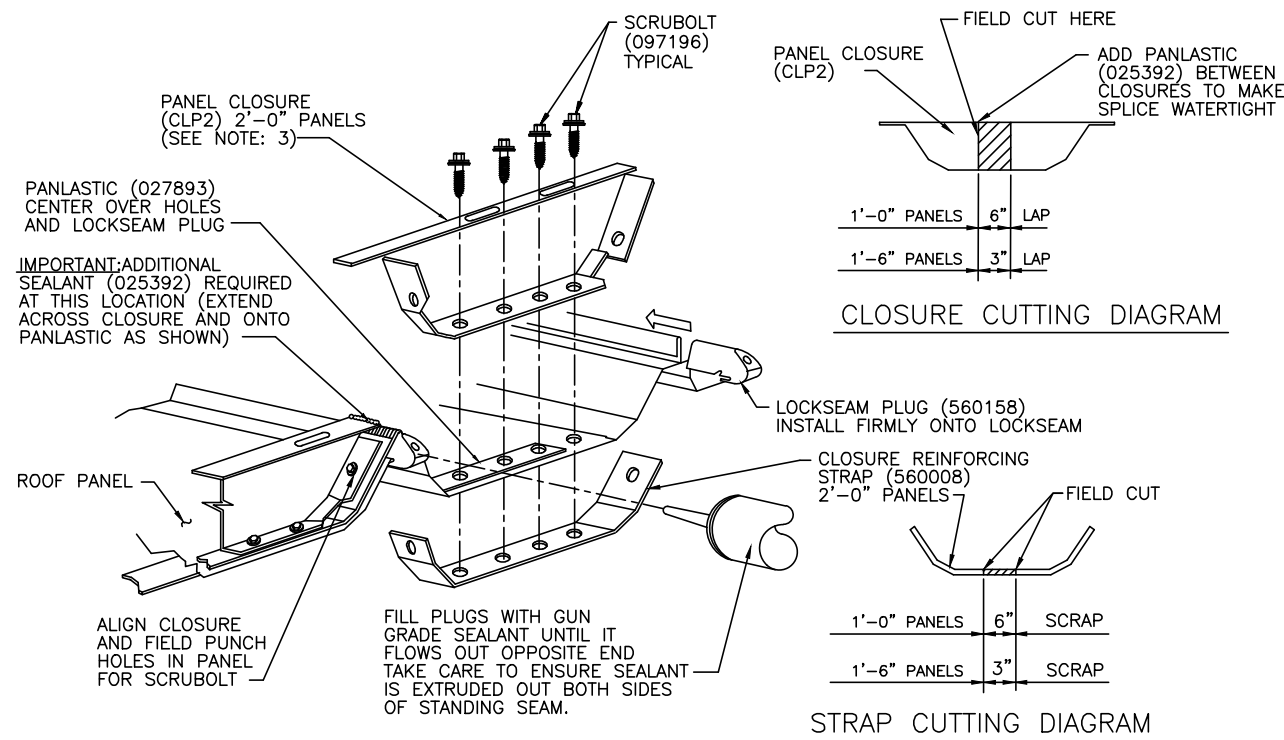


REVISION NUMBER 1				REVISION NUMBER 2				REVISION NUMBER 3			
REVISED TO CHANGE DRAWING REFERENCE P-080222 IS BEING OBSOLETE AND REPLACED WITH P-081756.				REVISED TO ADD METRIC CALLOUTS AND METRIC LAYOUT TABS. ENH #24356. ALSO ADDED PRODUCT APPROVAL NOTE.				ADD FLORIDA APPROVAL LOGO 24519			
DATE	05/15/14			DATE	12/04/18			DATE	09/02/20		
DWBY	CHKD	RHE	RLB	DWBY	CHKD	RHE	RLB	DWBY	CHKD	BSN	RLB

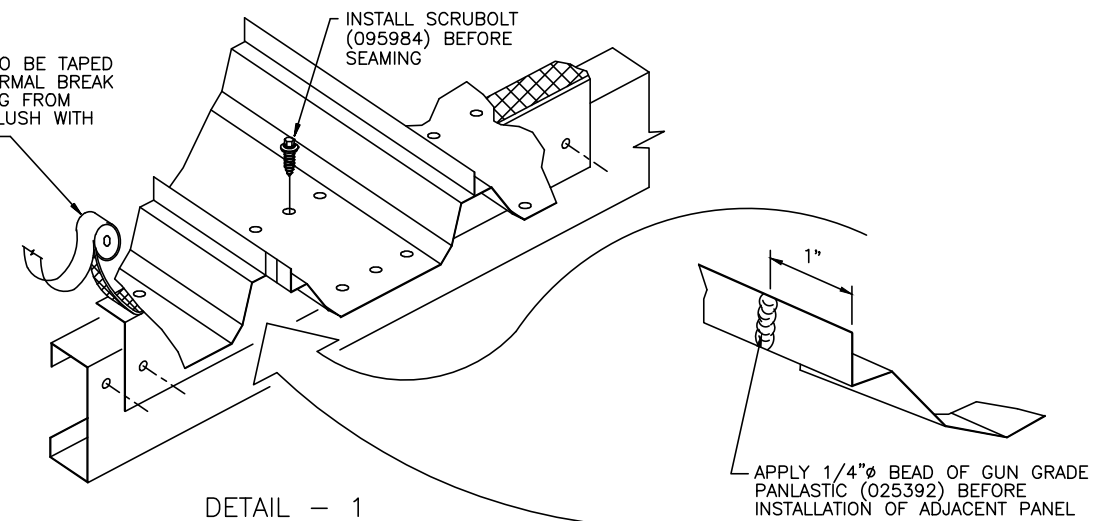
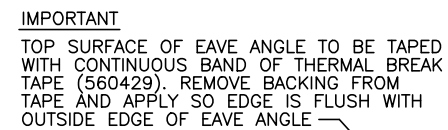


CMR-24 ROOF INSTALLATION

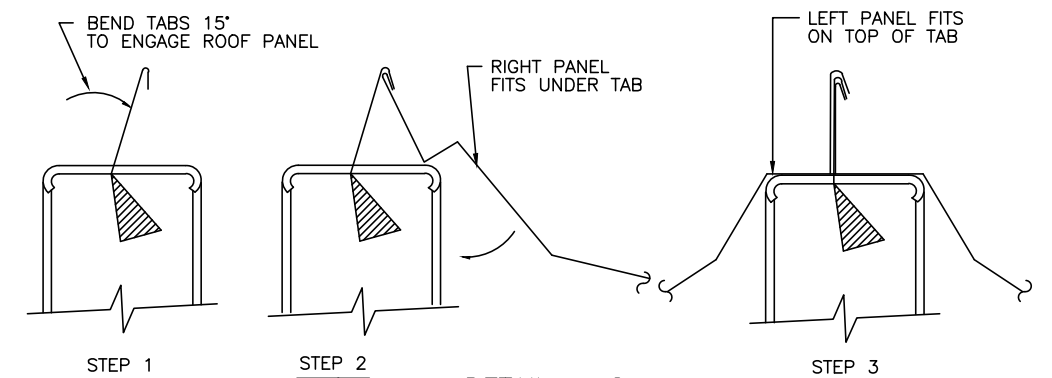


DETAIL-4

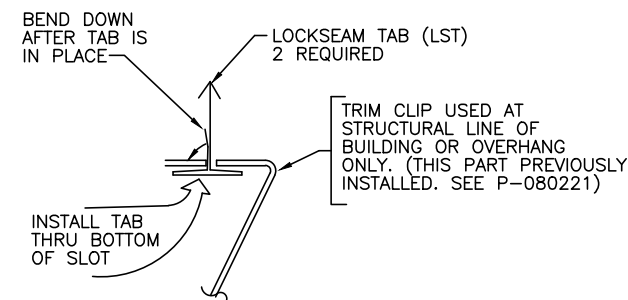
RIDGE CLOSURE INSTALLATION



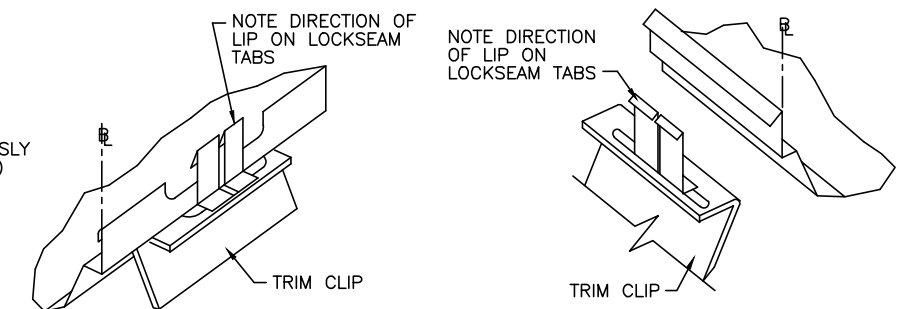
DETAIL — 1
PANEL ATTACHMENT AT EAVE



DETAIL - 2
PANEL ATTACHMENT AT CLIP



TAB INSTALLATION



RIGHT 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.

GENERAL NOTES:

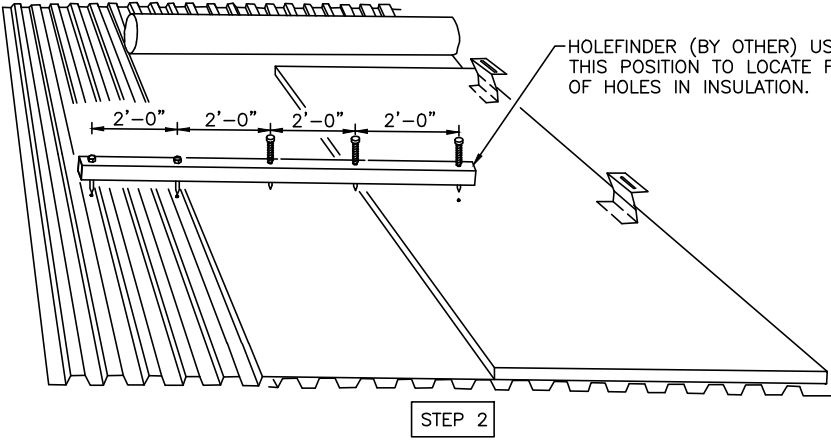
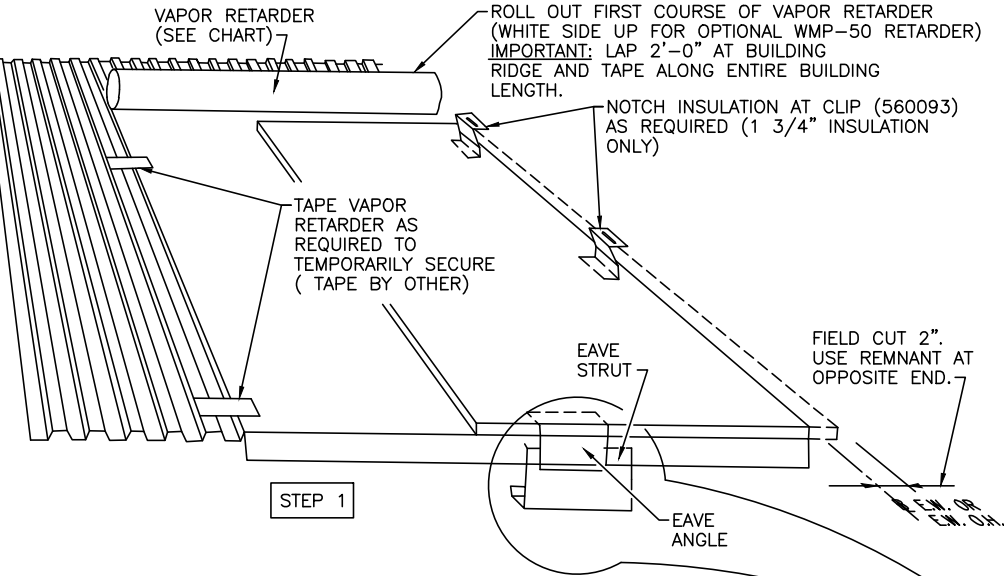
1. FOR ROOF LINER VAPOR RETARDER & INSULATION INSTALLATION, SEE DRAWING P-081756.
2. FOR MR-24 PANEL SPLICE INSTALLATION, SEE DRAWING P-080212.
3. DO NOT INSTALL PANEL CLOSURE ON END PANELS UNTIL ENDWALL TRIM HAS BEEN INSTALLED AND SEAMED.
4. LINER PANEL AND RIGID INSULATION MAY BE REQUIRED AT OVERHANG 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	
FIRST RELEASE DATE 01/21/10		REVISION DATE 09/02/20	
B		P-080225 03	

REVISION NUMBER 6				REVISION NUMBER 7				REVISION NUMBER 3				REVISION NUMBER 4				REVISION NUMBER 5			
ADD PRODUCT APPROVAL NOTE.				ADD FLORIDA APPROVAL LOGO				ADDED CLIP PART NUMBER (560093 DEFECT - 21568				ADDED NOTE TO CLARIFY VAPOR RETARDER INSTALLATION. AIR BARRIERS AND DESIGN PROFESSIONALS ARE REQUIRED TO QUALIFY THE SYSTEM FOR THAT PURPOSE. ENH #23300.				REMOVED REFERENCE TO IT-800R AND INSULATION PLACEMENT HEADING			
DATE	06/20/19	CHKD	RLB	DATE	09/02/20	CHKD	RLB	DATE	08/09/16	CHKD	PDW	DATE	12/06/17	CHKD	RLB	DATE	08/08/18	CHKD	RT
DWBY	BSN			DWBY	BSN			DWBY	JLH			DWBY	RHE			DWBY	BSN		

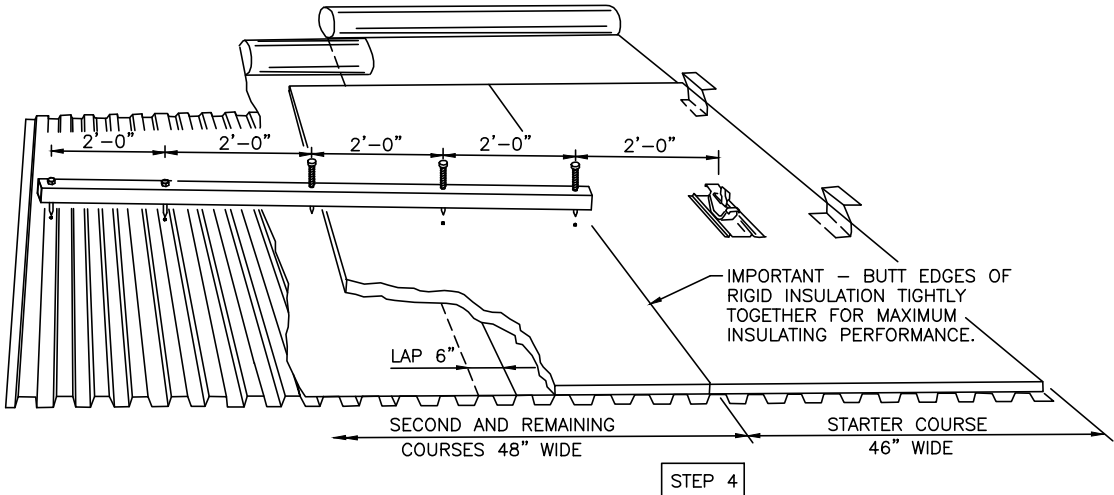
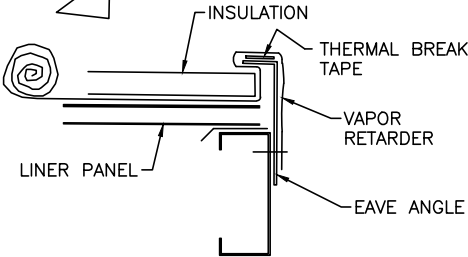


HOLE LOCATION IN FIRST COURSE OF INSULATION

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.



LOCATING HOLES IN REMAINING RUNS OF INSULATION



WARNING

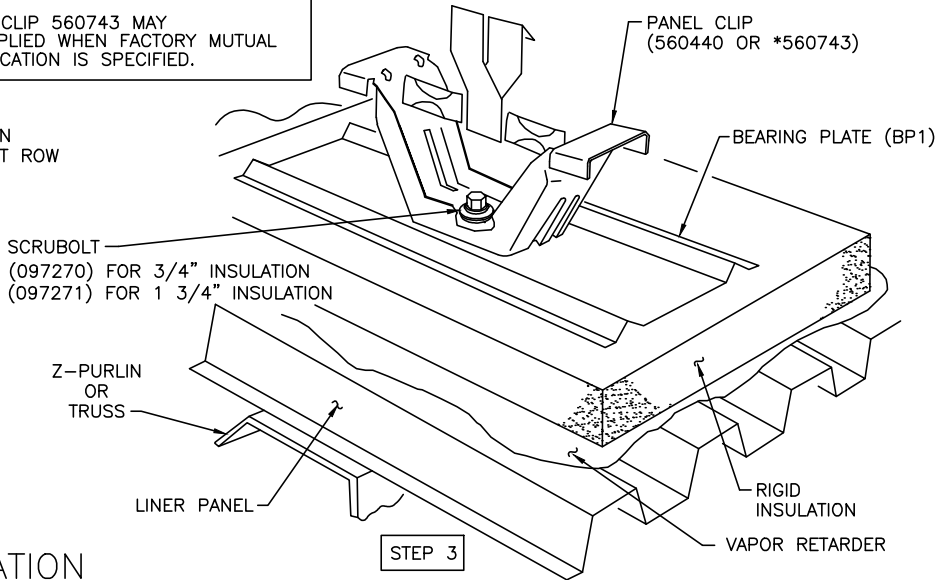
WHEN WALKING ON LINER PANEL THAT HAS BEEN FASTENED TO THE ROOF STRUCTURALS, DO NOT STEP ON THE SIDE LAP. STEP ONLY ON THE LINER PANEL AREA THAT IS SUPPORTED BY THE ROOF STRUCTURAL.



WARNING

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

* NOTE:
MR-24 CLIP 560743 MAY BE SUPPLIED WHEN FACTORY MUTUAL CLASSIFICATION IS SPECIFIED.



PANEL CLIP INSTALLATION

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

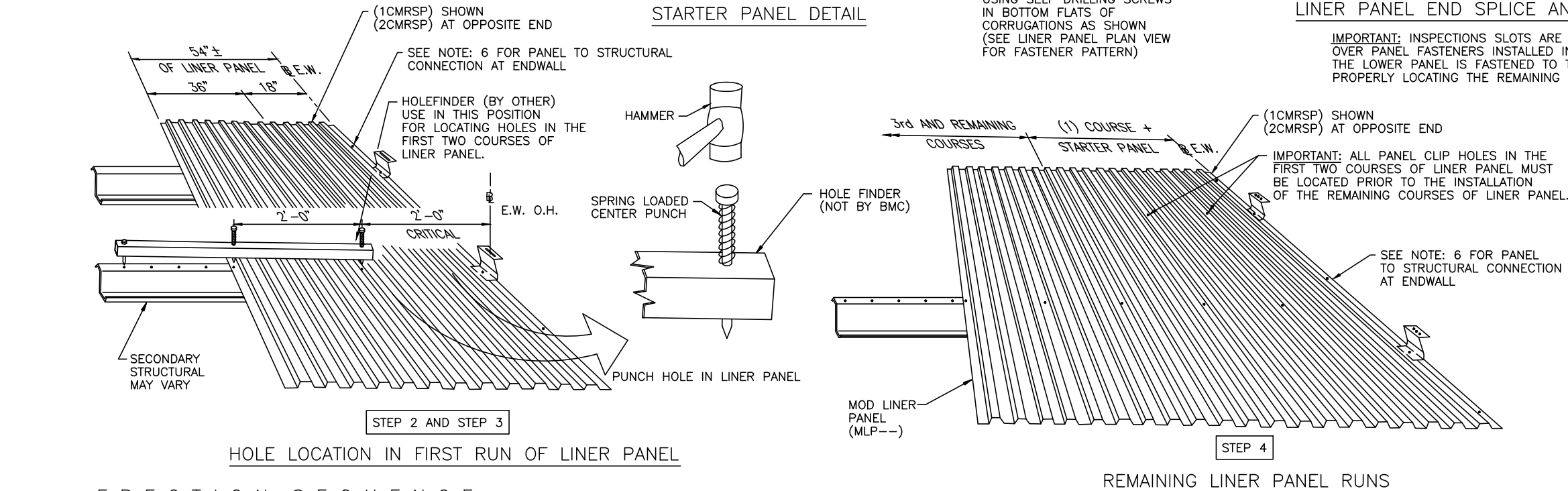
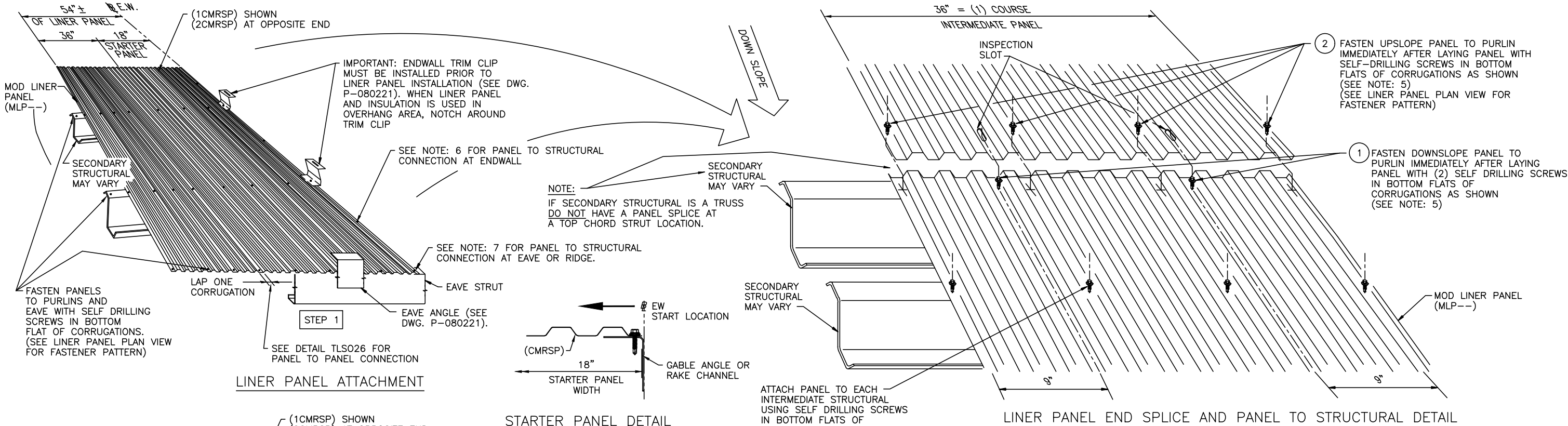
DRAWN BY	CHECKED BY	GROUP NUMBER: 03-030-02	
LJB	RKP		
FIRST RELEASE DATE	REVISION DATE		
01/21/10	09/02/20		

B

P-081354

07

REVISION NUMBER 1				REVISION NUMBER 2				REVISION NUMBER 3				REVISION NUMBER 4				REVISION NUMBER 5			
DATE 07/25/13				DATE 05/13/14				DATE 06/02/16				DATE 05/23/19				DATE 09/03/20			
DWBY B/J				DWBY RHE				DWBY BSN				DWBY BSN				DWBY BSN			
CORRECT TITLE BLOCK SPELLING OF CORRUGATION.				REMOVED REFERENCES TO P-080387 ARE NO LONGER BEING USED. GENERAL REVISION TO NOTES AND STEPS FOR INSTALLATION.				ADD NOTE IF THERE IS A TOP CHORD SPlice IN THAT LOCATION SHOULD BE MOVED.				ADD PRODUCT APPROVAL NOTE				ADD FLORIDA APPROVAL LOGO			



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 2'-0" 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
REVISIONS MUST BE APPROVED BY THE MANAGER OF PRODUCT EXCELLENCE



CMR-24 LINER PANEL INSTALLATION 3" ON CENTER CORRUGATION PANEL			
DRAWN BY BSN	CHECKED BY RLB	GROUP NUMBER: 00-000-00	
FIRST RELEASE DATE 08/23/12	REVISION DATE 09/03/20	B	P-081756 05

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.