

Snap Lock Metal Roofing System Installation Manual



FF100 PANEL

SSQ675 PANEL

Affordable Metal Mfg. 303 Cleveland Street Muscatine, IA 52761 563-264-8212 www.affordablemetalmfg.com

TABLE OF CONTENTS

TB-1	TABLE OF CONTENTS
GN-1	GENERAL
	SAFETY
	STORAGE
GN-2	HANDLING
	PRE-INSTALLATION
GN-3	SYSTEM INSTALLATION GUIDELINES
	CLEAN UP

DETAILS

ENF-1	EAVE NOTCHING/FOLDING
EV-1	EAVE TRIM DETAIL
EW-1	ENDWALL DETAIL
MS-1	MONO SLOPE DETAIL
PC-1	PITCH CHANGE DETAIL
RK-1	RAKE DETAIL
RK-2	RAKE DETAIL
RP-1	ROOF PENETRATION DETAIL
RV-1	RIDGE VENT DETAIL (HIP)
RV-2	RIDGE VENT DETAIL
SW-1	SIDEWALL TIE-IN DETAIL
V-1	VALLEY DETAIL



GENERAL NOTES

GENERAL

THIS MANUAL DEPICTS PANEL FF100 WITH BUILT-IN SCREW FLANGE FOR FASTENERS. PLEASE NOTE, THAT WHEN USING PANEL SSQ675 IT REQUIRES CLIP & FASTENER TO SECURE THE PANELS. INSTALLATION OF PANEL SSQ675 IS IDENTICAL WITH THE EXCEPTION OF THE FASTENERS. SUBSTITUTE AS NECESSARY.

THE DETAILS SHOWN ON THE FOLLOWING PAGES ARE SUGGESTIONS OR GUIDELINES FOR INSTALLING THE FF100 ROOF PANEL SYSTEM OVER PLYWOOD SUBSTRATE. THE INSTALLATION DETAILS SHOWN HERE ARE PROVEN METHODS OF CONSTRUCTION, BUT THEY ARE NOT INTENDED TO COVER ALL BUILDING REQUIREMENTS, DESIGNS OR CODES. THE DETAILS MAY REQUIRE CHANGES OR REVISIONS DUE TO INDIVIDUAL PROJECT CONDITIONS.

INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS OR APPROVED SHOP DRAWINGS. INSTALLER SHOULD THOROUGHLY FAMILIARIZED THEMSELVES WITH ALL INSTRUCTIONS PRIOR TO BEGINNING THE INSTALLATION PROCESS.

THE DESIGNER/INSTALLER IS RESPONSIBLE TO ENSURE THE FOLLOWING;

- THE DETAILS HERE MEET THE PARTICULAR BUILDING REQUIREMENTS.
- AWARENESS OF AND ALLOWANCE FOR EXPANSION/CONTRACTION OF THE ROOF PANELS.
- THAT ADEQUATE WATER-TIGHTNESS IS MAINTAINED.
- THAT A PROPER UNIFORM SUBSTRUCTURE IS USED TO AVOID PANEL DISTORTION AND THAT THE SUBSTRUCTURE MEETS
 NECESSARY CODE REQUIREMENTS.
- THAT ALL SUPPORTING MEMBERS HAVE BEEN EXAMINED AND ARE STRAIGHT, LEVEL AND PLUMB.

AFFORDABLE METAL MFG CAN PROVIDE ALL FLASHINGS AND ACCESSORIES SHOWN IN THE INSTALLATION DRAWINGS UNLESS NOTED OTHERWISE. PANELS, FLASHING AND TRIM SHALL BE INSTALLED TRUE AND IN PROPER ALIGNMENT WITH ANY EXPOSED FASTENERS EQUALLY SPACED FOR THE BEST APPEARANCE, SEALANT SHALL BE FIELD APPLIED ON A CLEAN, DRY SURFACE.

PLEASE NOTE THAT THE CONTENTS OF THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. TO CONFIRM THIS BOOK IS THE MOST CURRENT COPY, PLEASE VISIT AFFORDABLE METAL MFG WEBSITE AT WWW.AFFORDABLEMETALMFG.COM

<u>SAFETY</u>

FOLLOW ALL OSHA SAFETY PRACTICES AND REGULATIONS.

NEVER WALK ON SKY LIGHTS, FIBERGLASS TYPE PANELS OR ANY OTHER COMPONENT NOT DESIGNED TO SUPPORT THE WEIGHT OF A PERSON.

EXTREME CARE SHOULD BE TAKEN WHEN UNLADING, HANDLING AND INSTALLING METAL ROOFS. METAL MAY BE HEAVY AND BULKY; METAL EDGES MAY BE SHARP; AND WORKING AT HEIGHTS IS DANGEROUS.

THE INSTALLER SHOULD WEAR HEAVY DUTY GLOVES AND A LONG SLEEVE SHIRT WHEN HANDLING METAL ITEMS AS THEY MAY BE SHARP AND CAN CAUSE SEVERE CUTS. SAFETY GOGGLES SHOULD BE WORN WHEN CUTTING AND DRILLING METAL ITEMS OR INSTALLING FASTENERS.

INSTALLERS SHOULD BE TRAINED AND WEAR THE APPROPRIATE FALL PROTECTION AND FOOT WEAR WHEN WORKING ON THE ROOF. WORKERS SHOULD NOT BE ON THE ROOF WHEN MOISTURE OR OTHER SUBSTANCES MAY CAUSE UNSURE FOOTING.



GENERAL NOTES

STORAGE

UNLOAD AND INSPECT THE DELIVERED MATERIALS FOR DAMAGE. REPORT ANY DAMAGE MATERIALS PROMPTLY TO THE MANUFACTURER.

TO REDUCE THE POSSIBILITY OF DAMAGE DURING STORAGE IS TO MINIMIZE THE STORAGE TIME. OTHER STEPS ARE DESIGNED TO REDUCE THE INTRUSION OF WATER FROM RAIN, SNOW OR CONDENSATION. A PRIMARY OBJECTIVE IS TO KEEP BOTH PAINTED AND UNPAINTED PANELS DRY. A PREFERRED STORAGE LOCATION IS UNDER A ROOF STRUCTURE.

STORE AWAY FROM MATERIALS THAT MAY CONTAMINATE THE SURFACE (DIESEL OIL, PAINT, GREASE) AND AWAY FROM SITE TRAFFIC.

IF PANELS MUST BE STORED OUTDOORS:

STORE PANELS IN A LEVEL AREA AWAY FROM CONSTRUCTION ACTIVITIES IN ORDER TO MINIMIZE THE NUMBER OF MOVEMENTS. BUNDLES STORED ON THE GROUND MUST BE RAISED SEVERAL INCHES ABOVE A PLASTIC GROUND CLOTH TO AVOID CONTACT WITH PUDDLES, ALLOW FOR AIR CIRCULATION AND TO MINIMIZE CONDENSATION OF WATER FROM THE GROUND ONTO THE PANELS.

WET OR TREATED LUMBER MUST NOT COME IN CONTACT WITH THE BUNDLES.

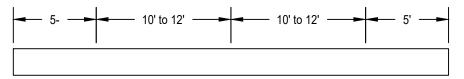
THE PANELS MUST BE STORED AT AN ANGLE TO PROMOTE DRAINAGE, TAKING CARE THAT THE BUNDLE IS PROPERLY SUPPORTED AT EACH CROSSWISE RUNNER ALONG ITS LENGTH.

THE BUNDLE MUST BE COMPLETELY SHELTERED WITH A LOOSE-FITTING, WATERPROOF TARP TO PROTECT THE BUNDLE FROM RAIN OR SNOW WHILE ALLOWING FOR AIR CIRCULATION AND DRYING ON CONDENSED WATER. THE TARP ALSO SHADES THE BUNDLE FROM DIRECT SUNLIGHT, WHICH HELPS TO MODERATE TEMPERATURE EXTREMES AND UV DAMAGE TO PROTECTIVE MASKING.

IF THE BUNDLES OF NESTED PANELS BECOME WET, THE PANEL SHEETS SHOULD BE SEPARATED, WIPED WITH A CLEAN CLOTH WITHOUT DELAY AND THEN PLACED SO THAT AIR CIRCULATION COMPLETES THE DRYING PROCESS. THIS IS TRUE FOR BOTH PAINTED AND UNPAINTED PANELS.

HANDLING

HANDLING OF PANELS AND THE NUMBER OF HANDLERS REQUIRED ARE DETERMINED BY THE PANEL LENGTH, WIDTH, EXPERIENCE OF THE HANDLERS AND THE WEATHER CONDITION AT THE SITE. THE FINAL HANDLING DECISION RESTS WITH THE HANDLERS THEMSELVES TO ENSURE THE METAL PANEL DOES NOT BEN OR BECOME DISTORTED BEFORE THE INSTALLATION OF THE PANEL. AFFORDABLE METAL MANUFACTURING SUGGEST THE FOLLOWING GUIDELINES FOR HANDLING PROCEDURES.



NOTE: THE PANELS WILL BE CARRIED IN THE VERTICAL POSITION NOT FLAT AND AT THE SPECIFIED LOCATIONS LISTED ABOVE. CARRYING THE PANELS FLAT WILL CAUSE THE PANELS TO DROOP OR BEND.

PANEL LENGTH	LESS THAN 6'	7' - 15'	16' - 30'	31' - 45'	>45'
# OF HANDLERS	1	2-3	3-4	4-5	4 OR MORE



GENERAL NOTES

PRE-INSTALLATION

ALL PROJECTS SHOULD CONFORM TO APPLICABLE BUILDING CODES.

FOR NEW CONSTRUCTION THE BUILDING SHOULD BE SQUARE ACCORDING TO ACCEPTABLE BUILDING PRACTICES. TO CHECK IF THE ROOF IS SQUARE, MEASURE DIAGONALLY ACROSS ONE SLOPE OF THE ROOF FROM SIMILAR POINTS AT THE EAVE AND RIDGE AND CONFIRMING THE SAME DIMENSION. THE SUBSTRUCTURE (EAVE TO RIDGE) MUST BE ON PLANE WITHIN A 1/4" TOLERANCE.

PROVIDE A WRITTEN REPORT OF DISCREPANCIES TO THE BUILDING CONTRACTOR. DO NOT BEGIN THE INSTALLATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED AS STARTING INSTALLATION USUALLY INDICATES ACCEPTANCE.

SYSTEM INSTALLATION GUIDELINES

ASSURE THE SUPPLIED MATERIALS ARE AS SPECIFIED AND MEET THE PROJECT GUIDELINES.

INSTALL THE UNDERLAYMENT PER THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

INSTALL THE ROOF SYSTEM PER THE MANUFACTURER'S SPECIFIED ENGINEERING REPORTS OR PER WIND LOAD CALCULATIONS SPECIFIC TO THE PROJECT AND INSTALLATION DETAILS.

USE ONLY APPROVED CLIPS, FASTENERS, AND ACCESSORIES PER THE MANUFACTURER'S DIRECTIONS.

NOTIFY THE GENERAL CONTRACTOR OF ANY AREAS THAT DO NOT ALLOW FOR PROPER DRAINAGE OF THE ROOF SYSTEM BEFORE THE INSTALLATION BEGINS.

WHEN PANELS ARE INSTALLED IN COASTAL ENVIRONMENTS IT IS RECOMMENDED THAT STAINLESS STEEL CLIPS AND FASTENERS ARE USED IN CONJUNCTION WITH ALUMINUM ROOF PANELS.

INSPECT PROJECT TO ENSURE THAT THERE ARE NO AREAS WHERE DISSIMILAR METALS WILL COME INTO CONTACT WITH EACH OTHER. SEPARATE AREAS WITH THE APPROPRIATE BARRIERS AS NEEDED. THIS IS TO INCLUDE PRESSURE/FIRE TREATED WOOD THAT IS CORROSIVE TO SOME METALS.

CLEAN UP

COMPLETE ALL ITEMS ON THE PUNCH LIST.

TOUCH-UP MINOR SCRATCHES WITH APPROPRIATE PAINT OR PAINT PENS.

REMOVE ALL DEBRIS ASSOCIATED WITH THE ROOF INSTALLATION.

PACK OUT WHAT YOU PACK IN.



