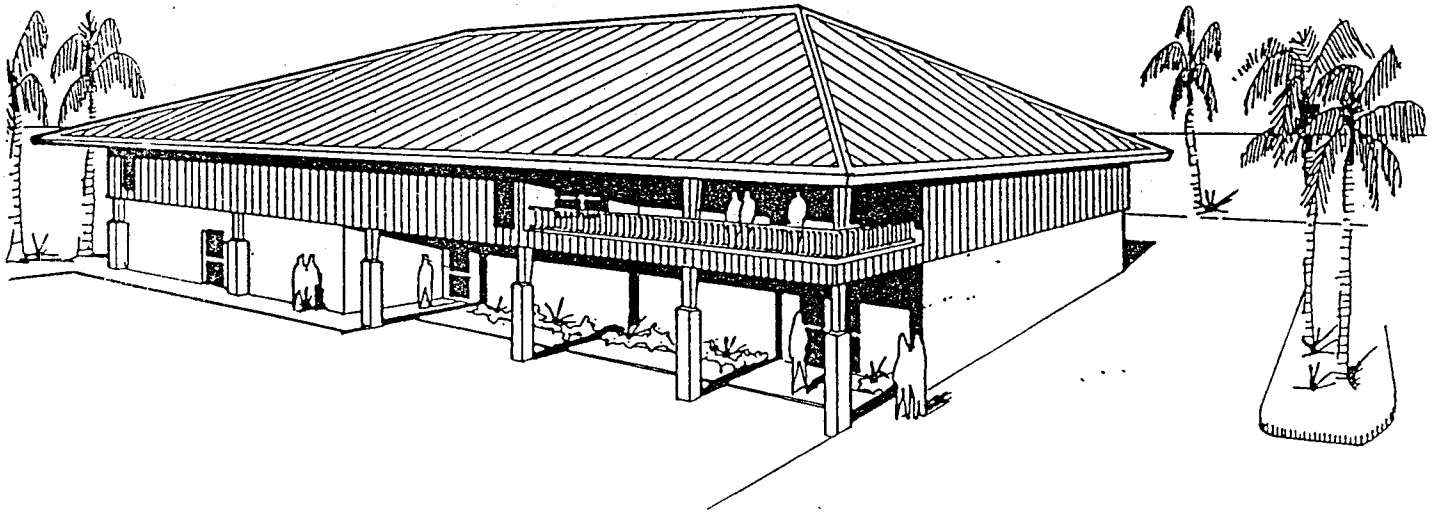


PRO SEAM

“When you want more than just a PROMise”

Construction Details



DEAN
STEEL BUILDINGS, INC.

IMPORTANT READ THIS FIRST

It will greatly facilitate DESIGNING, QUOTING, ORDERING, or ERECTING the **Dean Pro Seam** roof if you determine which system you need or have based on building width and insulation requirements.

FIXED

BUILDING WIDTH
DOUBLE SLOPE 200' WIDE OR LESS
SINGLE SLOPE 100' WIDE OR LESS

LOW FIXED-
Without 1" thermal spacer for added insulation.

HIGH FIXED-
With 1" thermal spacer for added insulation.

FLOATING

BUILDING WIDTH
DOUBLE SLOPE OVER 200' WIDE
SINGLE SLOPE OVER 100' WIDE

LOW FLOATING-
Without 1" thermal spacer for added insulation.

HIGH FLOATING-
With 1" thermal spacer for added insulation.

NOTE:

1. The above applies to pre-engineered metal buildings.
2. Bar joist construction (all widths) requires a floating system.
3. As with all standing seam roof systems, a sound insulator (EXAMPLE: blanket insulation) is required between the panel and substructure.

THERMAL SPACERS ARE AN OPTIONAL ACCESSORY

CAUTION

Diaphragm capabilities and purlin stability are not provided by **DEAN'S PRO SEAM** roof system. Therefore, other bracing may be required to conform to A.I.S.C. or A.I.S.I. specifications.

This manual is to be used by the roof system erector as a guide for the erection of the **Pro Seam** roof system. It is the responsibility of the erector to install this roof using safe construction practices. The manufacturer is not responsible for the performance of this roof system if it is not installed in accordance with the instructions shown in this manual.

If there are any questions regarding order or installation of parts or materials on this roof system, you should contact:

Corporate Office &
Manufacturing Plant
2929 Industrial Avenue
Fort Myers, FL 33901
(813) 334-1051

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REVISION DATE 9/21/00

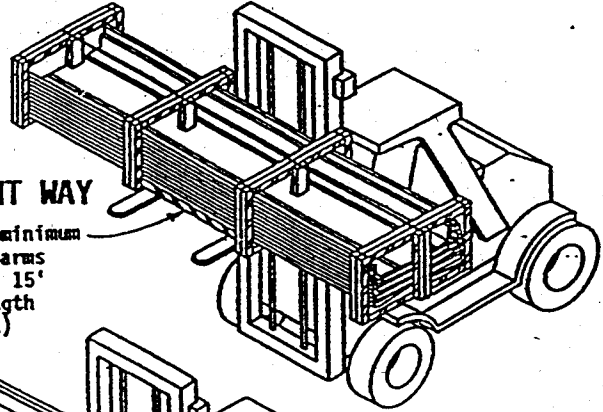
CAUTION

CAUTION

Improper unloading and handling of bundles and crates may cause bodily injury or material damage. The manufacturer is not responsible for bodily injuries or material damages during unloading and storage.

RIGHT WAY

Use 3/4" plywood minimum between forklift arms and bottom panel, 15' maximum panel length (15' panels shown)



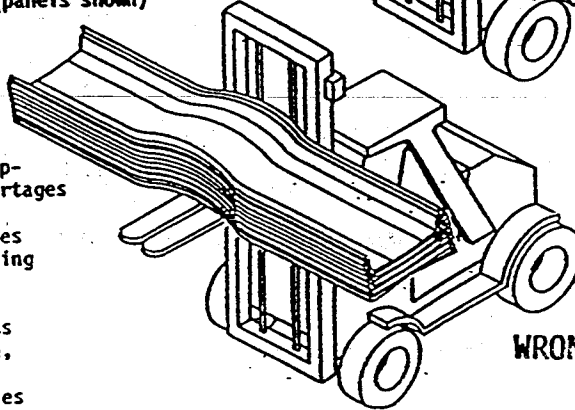
UNLOADING

Upon receiving material, check shipment against shipping list for shortages and damages. DEAN will not be responsible for shortages or damages unless they are noted on the shipping list

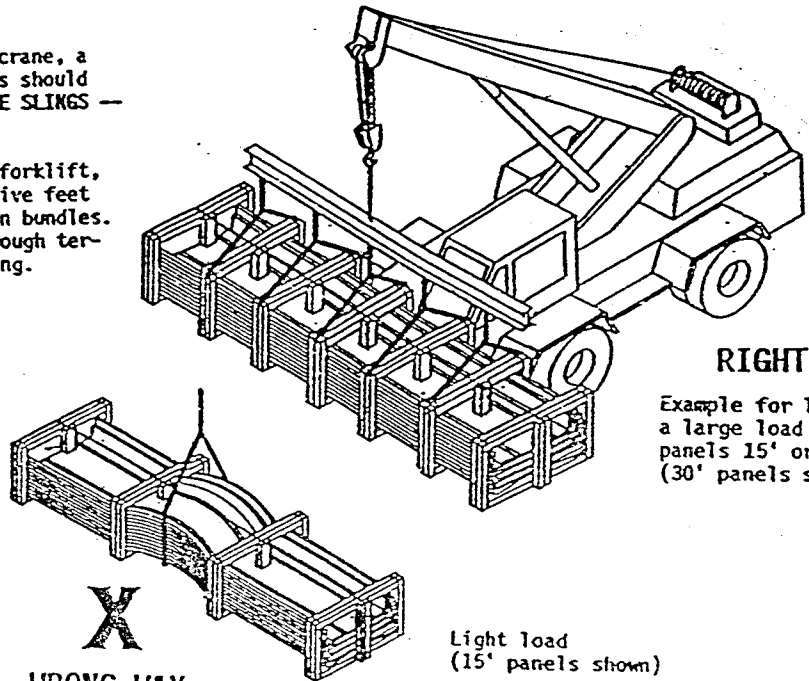
Each bundle should be lifted at its center of gravity. Where possible, bundles should remain banded until final placement on roof. If bundles must be opened, they should be retied before lifting.

When lifting bundles with a crane, a spreader bar and nylon straps should be used. NEVER USE WIRE ROPE SLINGS — THEY WILL DAMAGE THE PANELS.

When lifting bundles with a forklift, forks must be a minimum of five feet apart. Do not transport open bundles. Drive slowly when crossing rough terrain to prevent panel buckling.



X
WRONG WAY



RIGHT WAY

Example for lifting a large load of panels 15' or longer (30' panels shown)

Light load (15' panels shown)

X
WRONG WAY

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NOTE:

THIS MANUAL SHOULD BE USED IN CONJUNCTION WITH DEAN'S ERECTION DRAWINGS. HOWEVER ERECTION DRAWINGS SHALL TAKE PRECEDENCE OVER ANY DISCREPANCIES BETWEEN DRAWINGS AND MANUAL.

1. DEAN RECOMMENDS A SOUND INSULATOR SUCH AS BLANKET INSULATION BE PLACED BETWEEN THE PANEL AND SUBSTRUCTURE TO PREVENT " RATTLING NOISE " IN HIGH WIND CONDITIONS. INSULATION NOT BY DEAN.
2. U. L. 90 UPLIFT CAN BE ACHIEVED BY MEETING REQUIREMENTS OF U. L. CONSTRUCTION # 205 AND 205A (SEE PAGE 2B & 22B). FASTNER REQUIREMENTS DIFFER WITH VARIOUS CLIPS.
4. ALL PREFABRICATED CURBS AND ROOF JACKS WITH RELATED TRIM NOT BY DEAN UNLESS OTHERWISE NOTED IN DEAN CONTRACT DOCUMENTS.
5. DEAN'S PROSEAM PANELS DO NOT REQUIRE FIELD SEAMING.
6. WHEN ERECTING ROOF PANELS, ARRANGE AND NEST SIDELAP JOINTS SO THAT THE PREVAILING WINDS BLOW OVER AND NOT INTO LAPPED JOINTS.

Rev 4/29/07

PRO SEAM UL 90 REQUIREMENTS FOR PRE-ENGINEERED METAL BUILDINGS

FIXED SYSTEM CONSTRUCTION # 205

1. Metal Panels - 24 gauge or heavier - 24", 18", or 12" wide panels continuous over two or more spans
2. Panel Clips - Fixed (high, low or utility)
3. Fasteners - Two per clip
4. Purlin - minimum 16 gauge - minimum yield strength 55 KSI - maximum spacing 5'-0" on center
5. Optional Accessories - Insulation (maximum thickness 6"), thermal spacer (for use with high systems)

FLOATING SYSTEM CONSTRUCTION # 205A

1. Metal Panels - 24 gauge or heavier - 24", 18", or 12" wide panels continuous over two or more spans
2. Panel Clips - Floating (high or low)
3. Fasteners - One per clip except when optional skylights are used.
4. Purlin - minimum 16 gauge - minimum yield strength 55 KSI - maximum spacing 5'-0" on center
5. Optional Accessories - Insulation (maximum thickness 6"), thermal spacer (for use with high systems), skylights (insulated or uninsulated) with stiffener plate

The above listings are a summary of Construction #205 and #205A. For complete design information, see the Underwriters Laboratories Building Materials Directory.

CAUTION

For UL 90 Rated Roofs, These requirements must be followed.

If you have any questions, call
DEAN STEEL BUILDINGS, INC.,
before proceeding

Handling (Continued):

Standing on one side, lift the panel by the seam. If the panel is over 10' long, lift it with two or more people on one side of the panel to prevent buckling. Do not pick it up by the ends.

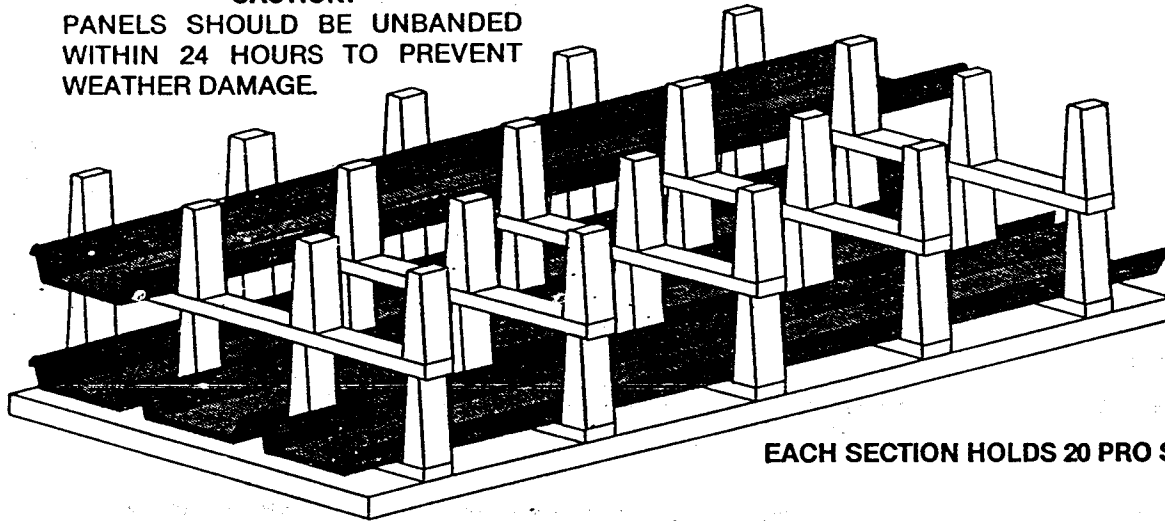
PANELS

MUST BE UNLOADED FROM TRUCK WITHIN 24 HOURS. ERECTOR IS RESPONSIBLE FOR RE-LOADING RACKS ONTO THE TRAILER.

CAUTION!

PANELS SHOULD BE UNBANDED WITHIN 24 HOURS TO PREVENT WEATHER DAMAGE.

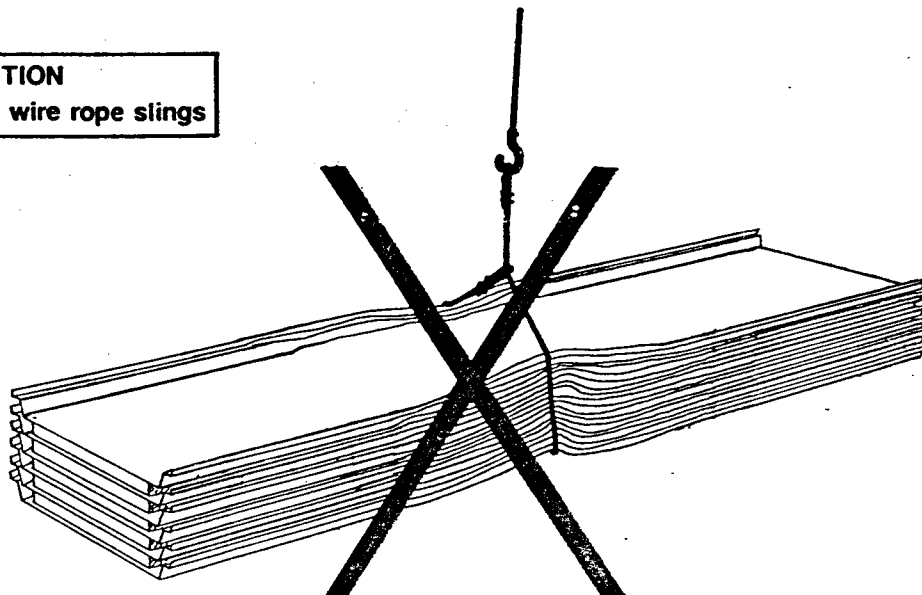
PRO SEAM SHIPPING RACK SYSTEM



EACH SECTION HOLDS 20 PRO SEAM PANELS

WRONG WAY

CAUTION
Do not use wire rope slings



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PREPARATORY REQUIREMENTS

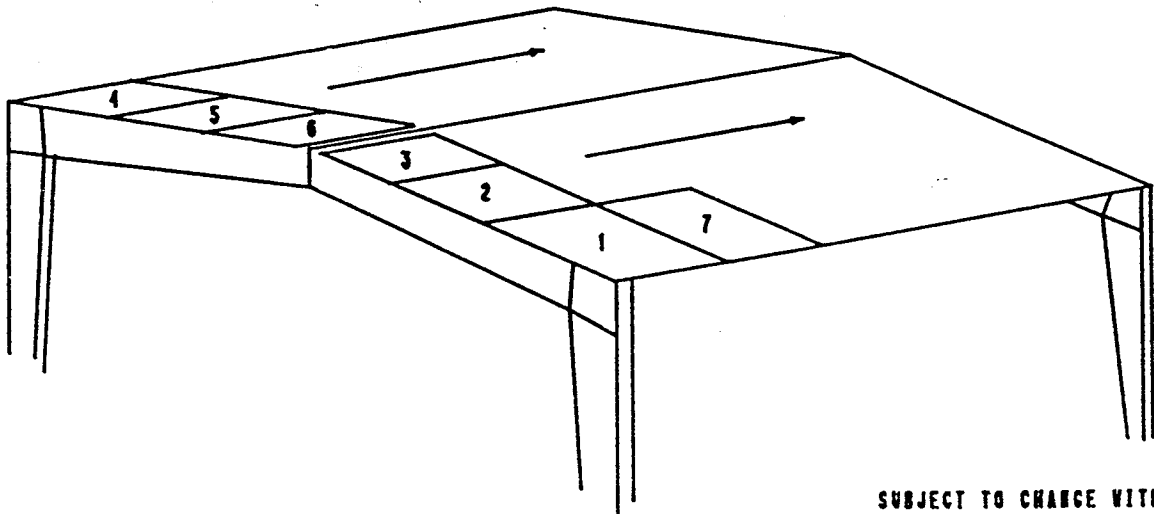
CAUTION

DIAPHRAGM CAPABILITIES AND PURLIN STABILITY ARE NOT PROVIDED BY DEAN'S "PRO SEAM" ROOF SYSTEM. THEREFORE, OTHER BRACING MAY BE REQUIRED.

CAUTION

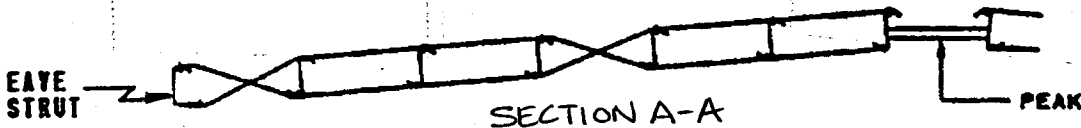
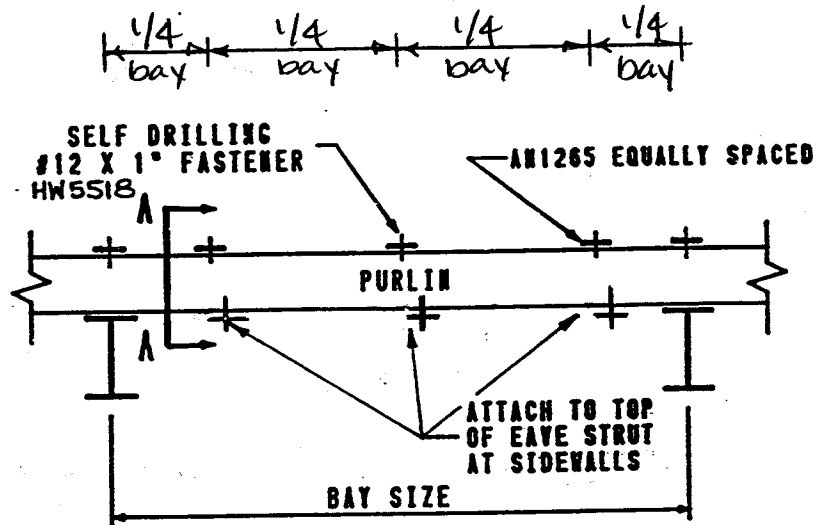
A ROOF SLOPE OF LESS THAN 1/4 ON 12 COULD CAUSE PONDING.
AND VOIDS ANY GUARANTEE

1. A SINGLE PITCHED EAVE STRUT MUST BE USED WITH THE "PRO SEAM" ROOF SYSTEM.
2. MAKE SURE A RAKE ANGLE HAS BEEN INSTALLED ON TOP OF THE PURLINS.
3. THE WALLS DO NOT HAVE TO BE ERECTED BEFORE THE ROOF IS INSTALLED. HOWEVER, FOR THE PURPOSE OF THIS MANUAL, WE HAVE ASSUMED THE WALL PANELS HAVE BEEN INSTALLED.
4. SQUARE BUILDING ACCORDING TO ACCEPTED BUILDING PRACTICES.
5. INSTALL STRAP-PURLIN BRACING AS REQUIRED.
6. FOR THE PURPOSES OF THIS MANUAL, WE ASSUMED THE ROOF WILL BE INSTALLED ON BOTH SIDES OF THE RIDGE FROM ONE END OF THE BUILDING TO THE OTHER. IF DESIRED, OTHER ERECTION PROCEDURES MAY BE FOLLOWED.
7. THIS ROOF CAN BE ERECTED ON VARIOUS TYPES OF CONSTRUCTION. HOWEVER, FOR THE PURPOSE OF THIS MANUAL, WE HAVE ASSUMED THE ROOF WILL BE INSTALLED ON A NEW PRE-ENGINEERED METAL BUILDING.
8. DEAN CAN FURNISH "PRO SEAM" PANELS IN 24" AND 18" WIDTHS. HOWEVER, FOR THE PURPOSE OF THIS MANUAL, WE HAVE ASSUMED THE ROOF PANELS WILL BE 24" WIDE.



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STRAP-PURLIN BRACING DETAIL



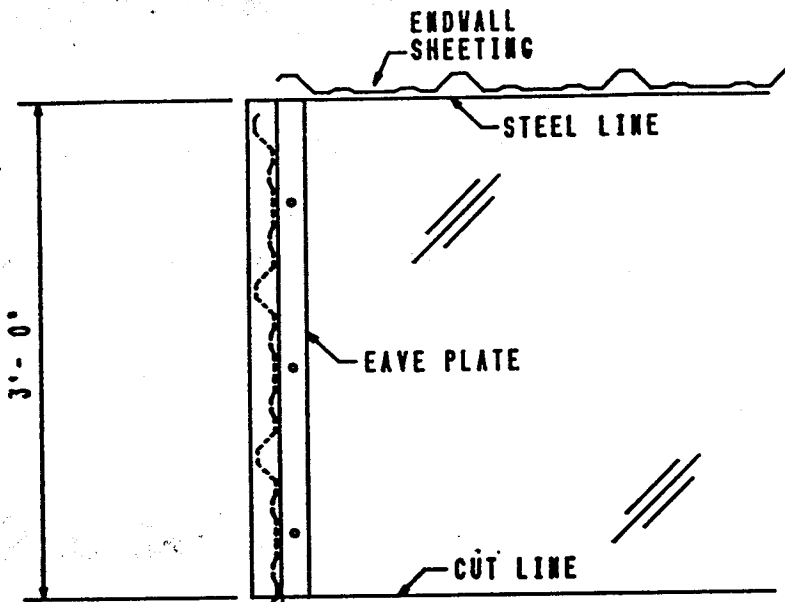
**ROOF STRAP (Both Top & Bottom flange unbraced)
Typical of Pro Seam Roof**

Cross straps every 3rd space and at eave section

- (AN1265) PURLIN STRAP BRACING (3) ROWS,
EQUALLY SPACED PER BAY; TOP AND BOTTOM FLANGES
WITH
- (1) EXTRA ROW ON TOP FLANGE ONLY,
LOCATED DIRECTLY OVER EACH FRAME

REV 1-9-98
REV 12-22-97

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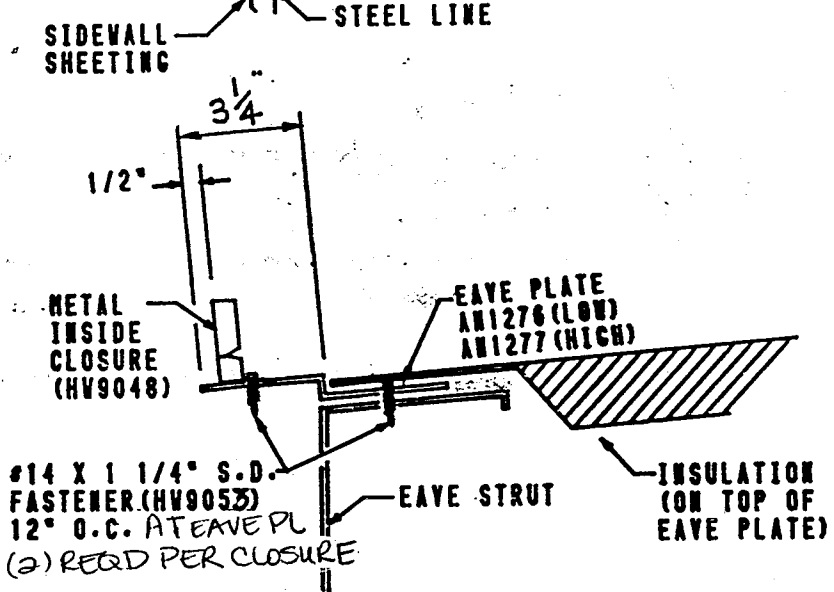
STEP #1

EAVE PLATE/ METAL INSIDE CLOSURE

LAY THE FIRST 4'-0" ROLL OF INSULATION WITH ITS LEADING EDGE 3'-0" INSIDE THE ENDWALL STEEL LINE SO THE INSULATION JOINTS WILL NOT FALL AT THE PANEL LAPS.

STRETCH THE INSULATION FROM ONE EAVE TO THE OTHER TO AVOID BAGS AND WRINKLES.

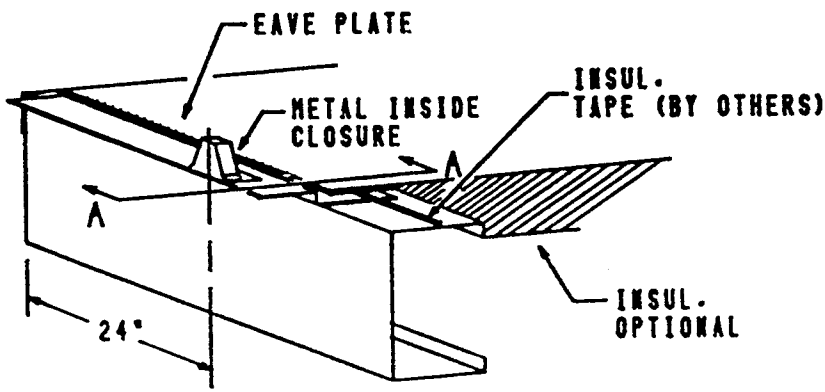
FIRST ATTACH THE EAVE PLATES OVER THE EAVE STRUT WITH #14 X 1 1/4" S.D. FASTENERS (HW9053) ON 1'-0" CENTERS. INSTALL THE EAVE PLATE 2" INSIDE THE ENDWALL STEEL LINE.



SECTION A - A

TO MAINTAIN BUILDING MODULE, METAL INSIDE CLOSURES MUST BE ATTACHED ON 24" CENTERS. FOR ACCURACY, MEASURE FROM TAB TO TAB LOCATED ON THE METAL INSIDE CLOSURE (HW9048).

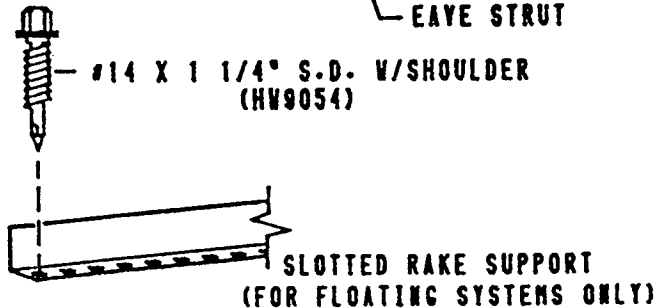
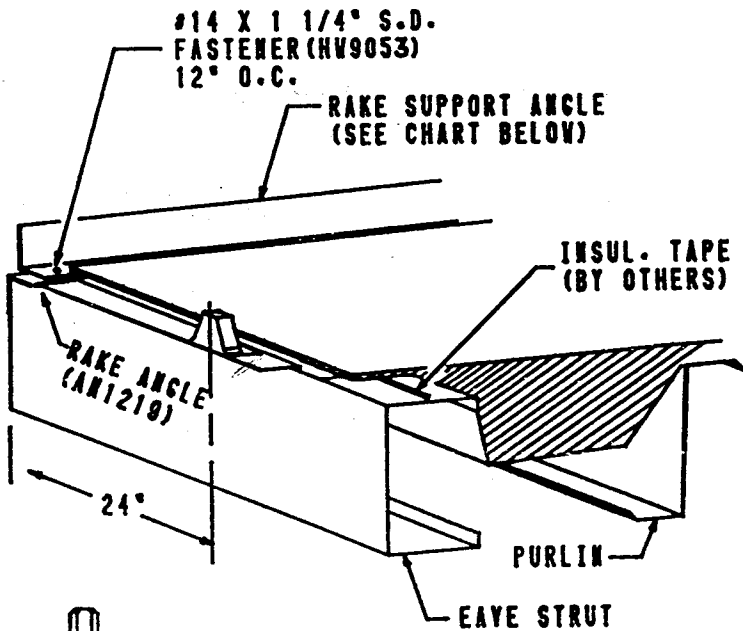
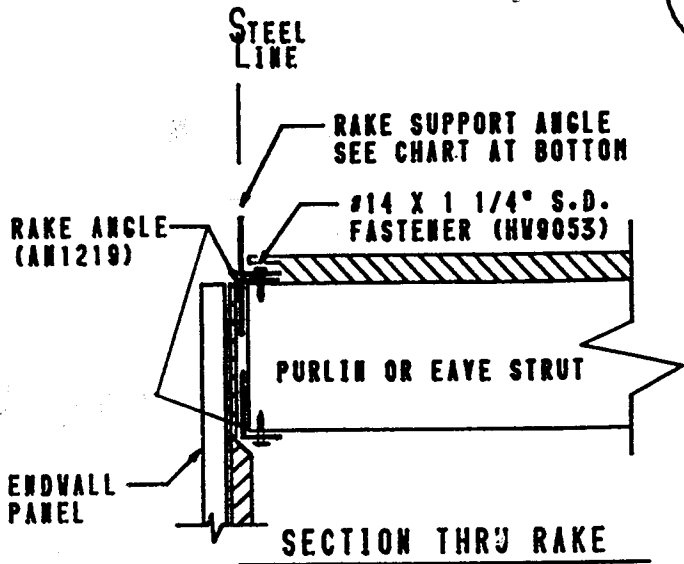
CUT A 4 1/2" PIECE OF TAPE SEALER (HW572) AND ATTACH IT TO THE BOTTOM OF METAL INSIDE CLOSURES.



ATTACH THE METAL INSIDE CLOSURE (HW9048) PLACING IT 1/2" FROM THE OUTSIDE EDGE OF THE EAVE PLATE, WITH HW9053 FASTENERS. THE FIRST FASTENER SHOULD BE INSTALLED THROUGH THE SLOTTED HOLE. THIS WILL ALLOW ADJUSTMENT OF THE CLOSURE DUE TO ANY WALKING THAT MAY OCCUR.

REV 1-28-99
REV 5-2-97
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STEP
#2



RAKE SUPPORT

INSTALL THE RAKE SUPPORT ON TOP OF THE RAKE ANGLE (AN1219) WITH #14 X 1 1/4" SELF DRILLING FASTENERS (HV9053) ON 1'-0" CENTERS FROM ONE EAVE TO THE OTHER. THE VERTICAL LEG IS TO BE INSTALLED FLUSH WITH THE STEEL LINE.

IT IS IMPORTANT THAT THE RAKE SUPPORT IS INSTALLED STRAIGHT AND SQUARE WITH THE BUILDING. AS IT CONTROLS THE ALIGNMENT OF THE ROOF SYSTEM.

(FOR FLOATING SYSTEMS ONLY)

CAUTION

IT IS IMPORTANT THAT SHOULDER SELF DRILLING FASTENERS INSTALLED THROUGH SLOTTED HOLES ARE USED TO ALLOW FOR EXPANSION AND CONTRACTION

PART #	APPLICATIONS
AN1271	LOW FIXED
AN1272	LOW FLOATING
AN1273	HIGH FIXED
AN1274	HIGH FLOATING

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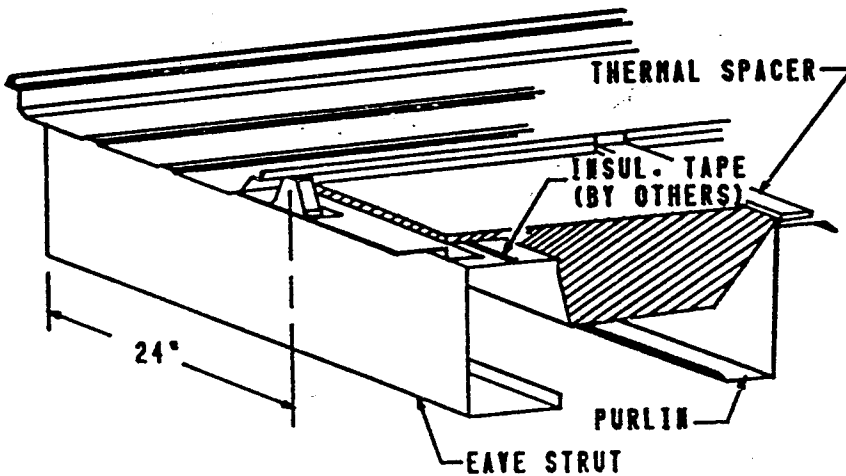
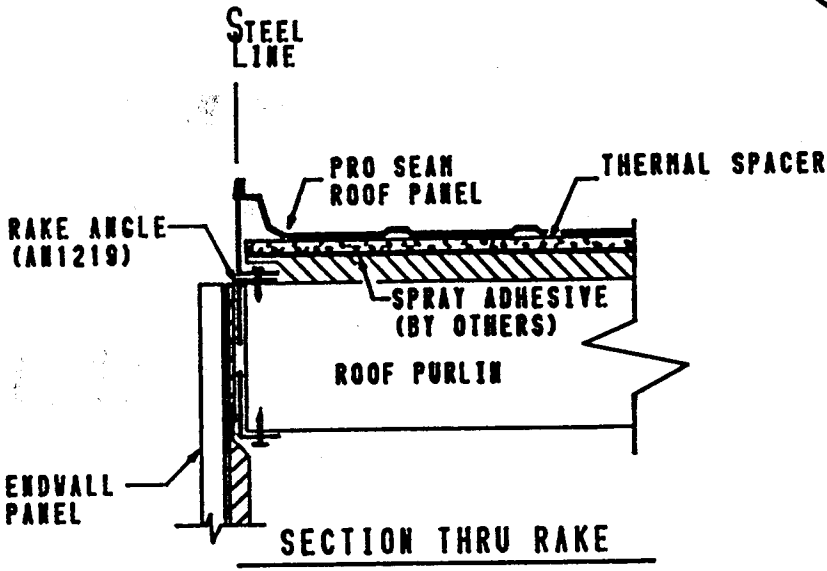
STEP
#3

OPTIONAL ACCESSORY

THERMAL SPACERS

(FOR THE HIGH SYSTEMS ONLY)

POSITION THE THERMAL SPACER ON TOP OF THE INSULATION OVER EACH PURLIN AND AGAINST THE RAKE SUPPORT PRIOR TO INSTALLING THE ROOF PANEL.



USING SPRAY ADHESIVE (BY OTHERS) ADHERE THE THERMAL SPACERS TO THE INSULATION. THE THERMAL SPACER INCREASES THE INSULATION CAPACITY ALONG THE PURLINS.

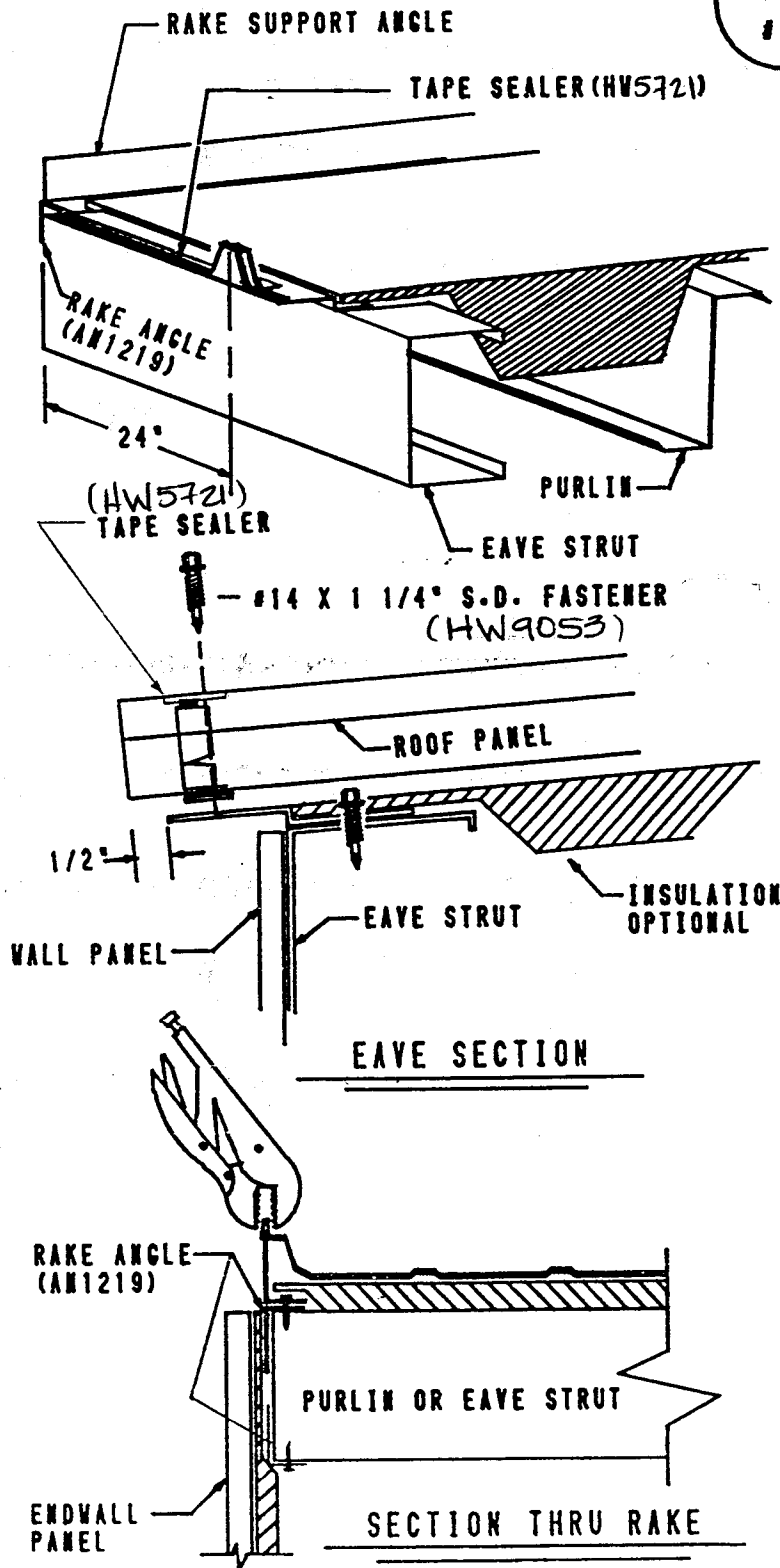
Thermal Spacer Part Numbers

Part Number	Thickness
HW9114	3/8"
HW9115	5/8"
HW9049	1"

Rev 9-21-00

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STEP
#4



FIRST PANEL

APPLY DOUBLE BEAD TAPE SEALER ALONG THE LENGTH OF THE EAVE PLATE, INCLUDING UP AND OVER THE METAL INSIDE CLOSURE.



POSITION THE PANEL SO THAT IT OVERHANGS THE EAVE PLATE BY 1/2"

CUT AND INSTALL A 3" PIECE OF TAPE SEALER TO THE MALE LEG OF THE PANEL ABOVE THE METAL INSIDE CLOSURE.

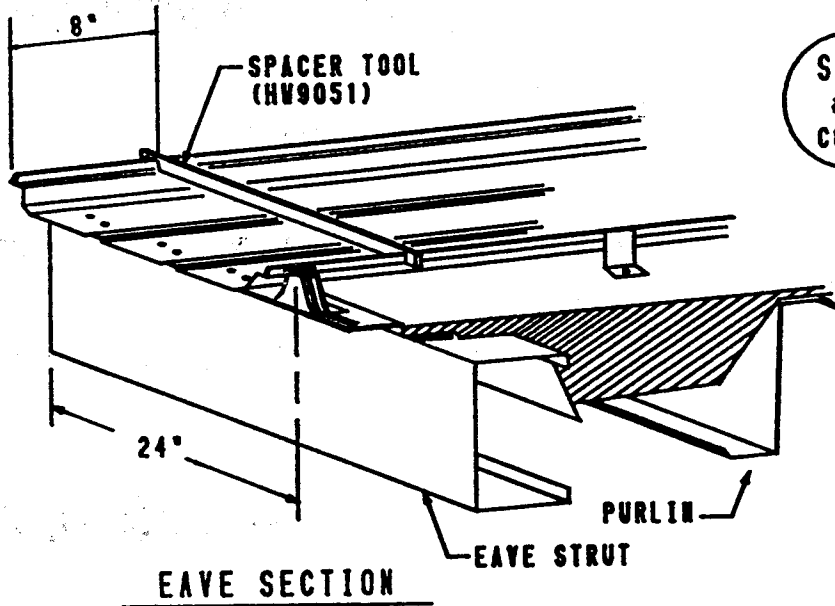
LAY FEMALE LIP OF PANEL OVER THE RAKE SUPPORT ANGLE.

TO PREVENT WIND DAMAGE, SECURE THE FEMALE LIP TO THE RAKE SUPPORT ANGLE WITH CLAMPS OR TEMPORARY FASTENERS, FASTENING THROUGH THE LIP. THE PANEL WILL NOT BE FASTENED PERMANENTLY TO THE SUPPORT UNTIL THE RAKE TRIM IS INSTALLED.

CAUTION

THE ROOF SHOULD BE SWEEP CLEAN OF ANY DRILL SHAVINGS AT THE END OF EACH DAY TO PREVENT RUST.

REV 8/28/97
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STEP
#4
CONT.

FIRST PANEL

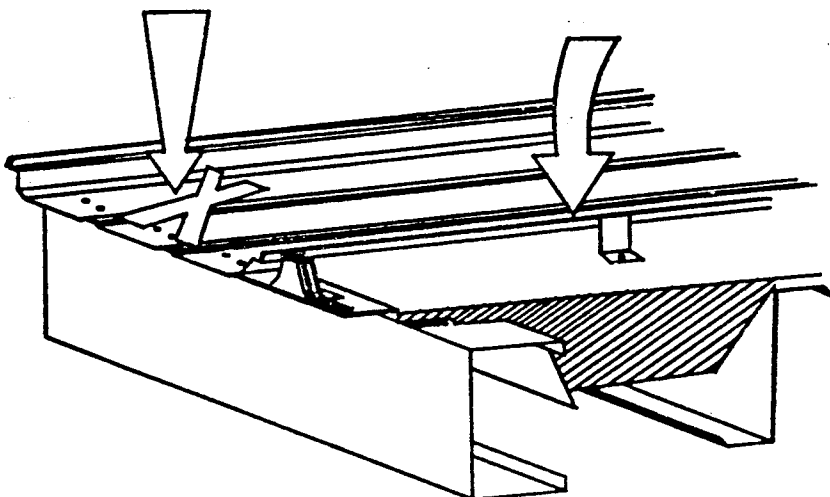
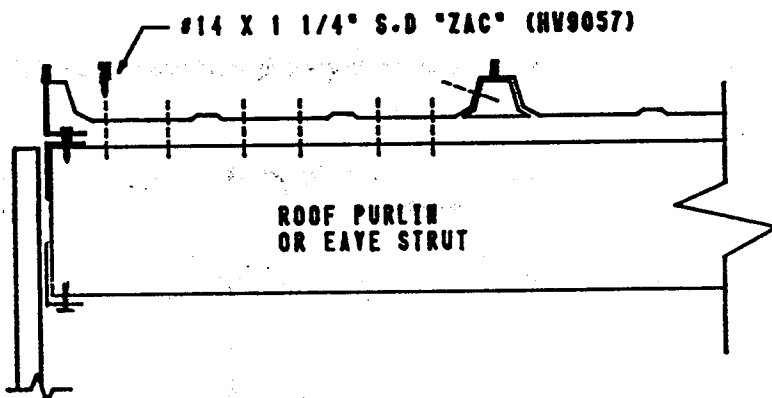
IT IS IMPORTANT THAT THE SPACER TOOL (PROVIDED) WHICH HELPS HOLD THE PANEL TO A WIDTH OF 24", BE USED WHEN INSTALLING CLIPS ON EACH PURLIN.

UNLESS THE INSTALLED PANEL WIDTH IS HELD TO 24", DIFFICULTY WILL BE ENCOUNTERED INSTALLING THE OUTSIDE CLOSURE, BACKUP PLATE, AND CINCH STRAP.

PLACE THE SPACER TOOL OVER THE SEAMS OF THE PANEL, APPROXIMATELY 8" FROM THE END OF THE PANEL.

ATTACH THE PANEL FLAT TO THE EAVE PLATE AND METAL INSIDE CLOSURE WITH SEVEN (HV9057) #14 X 1 1/4" S.D. FASTENERS.

INSTALL THESE FASTENERS WHILE STANDING ON A LADDER OR SCAFFOLDING TO PREVENT DENTING THE PANEL BETWEEN THE EAVE STRUT AND THE FIRST PURLIN.



CAUTION

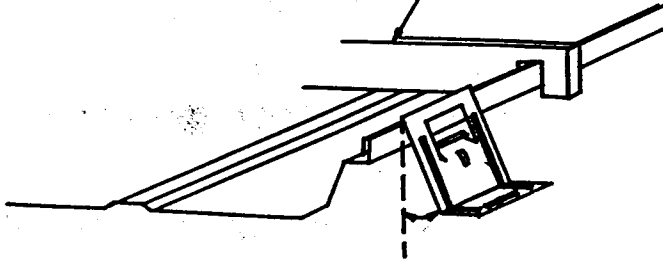
DO NOT UNDER ANY CIRCUMSTANCE, STEP ON THE PANEL AT THE SEAM OR AT THE PANEL ENDS UNTIL THE PANEL IS FULLY ATTACHED. THE ROOF PANEL MAY NOT SUPPORT THE WEIGHT OF A MAN AT THESE LOCATIONS AND COULD AFFECT PANEL MODULE.

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STEP
#5

PANEL CLIP

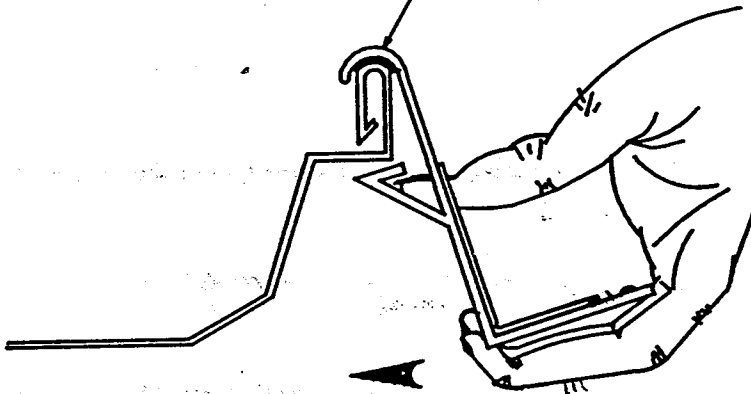
SPACER TOOL
(HV9051)



INSTALL A CLIP AT EACH PURLIN.

ROTATE THE CLIP ON THE MALE LIP UNTIL VERTICAL. (IT IS VERY IMPORTANT THAT THE CLIP IS ROTATED UNTIL THE CLIP'S PROJECTING LEDGE FITS SNUGLY UNDER THE PANEL'S HORIZONTAL LEDGE.)

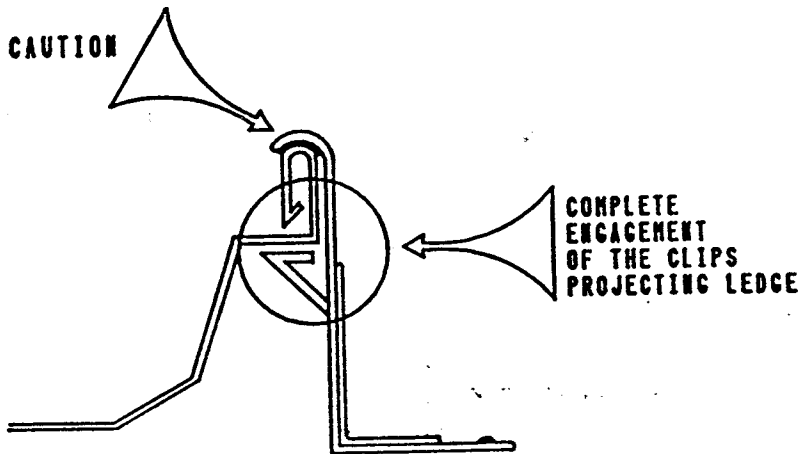
SEE CHART
(FOR PART NUMBER)



PART #	PANEL CLIPS
HV9062	LOW FIXED 2-SCREWS
HV9064	LOW FLOATING 1-SCREW
HV9063	HIGH FIXED 2-SCREWS
HV9065	HIGH FLOATING 1-SCREW

USING THE SPACER TOOL, INSTALL A CLIP AT EVERY PURLIN, BUT DO NOT INSTALL THE CLIP AT A PANEL ENDLAP UNTIL THE BACKUP PLATE IS INSTALLED.

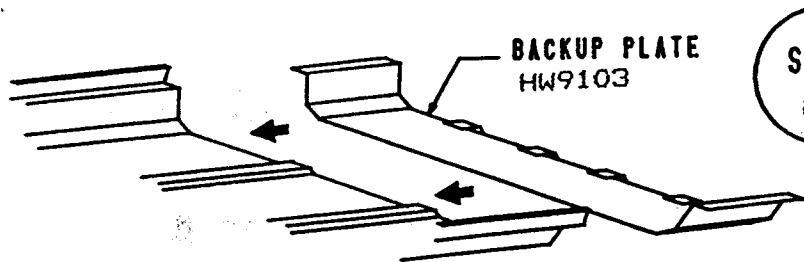
CAUTION



CAUTION

THE PANEL CLIP HAS FACTORY APPLIED MASTIC IN THE UPPER LIP. THIS MASTIC IS COMPRESSED WHEN THE CLIP IS ROTATED IN PLACE. IF, FOR SOME REASON, A CLIP MUST BE REMOVED, A NEW CLIP MUST BE USED OR GUN GRADE MASTIC INSTALLED IN THE UPPER LIP.

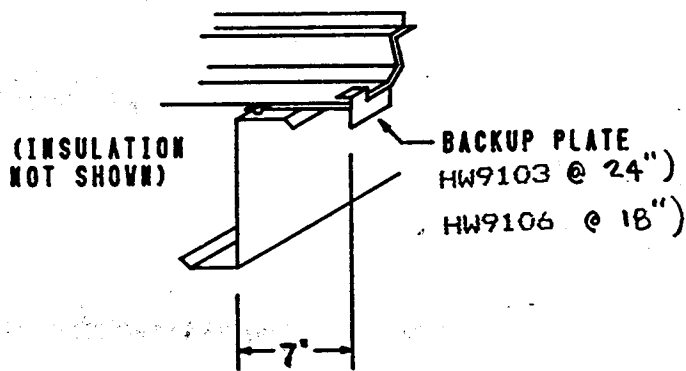
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STEP #6

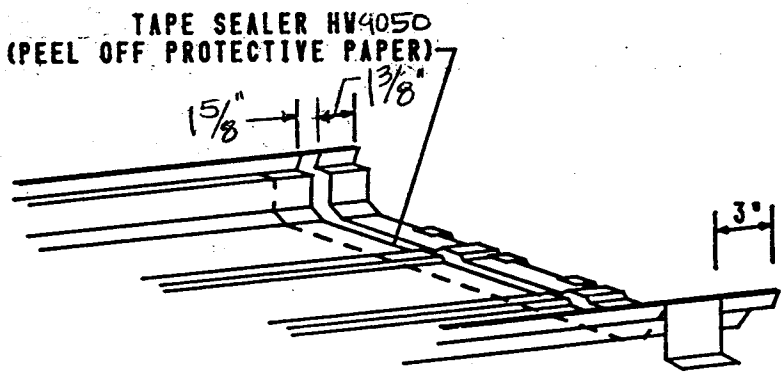
ENDLAP - BACKUP PLATE

STEP 6-8 APPLY ONLY WHERE MORE THAN ONE SHEET IS USED IN A SINGLE SLOPE.



SLIDE ONE END OF THE BACKUP PLATE HW910 OVER THE PURLIN, FULLY ENGAGING THE TEETH OF THE OTHER END WITH THE END OF THE PANEL. THIS ENSURES THAT THE BACKUP PLATE HW9103 WILL BE HELD IN PLACE FOR FASTENING.

IF THE BACKUP PLATE HW9103 IS NOT HELD FIRMLY AT BOTH ENDS, THE FASTENERS TO BE USED IN COMPLETING THE SPLICE WILL FORCE IT AWAY AND THE SPLICE WILL NOT SEAL. WITH THE BACKUP PLATE IN PLACE INSTALL THE FINAL PANEL CLIP.



PLACE TAPE SEALER EXACTLY 3" FROM THE END OF THE PANEL. USING A PIECE OF PRE-CUT TAPE SEALER (HW4050), ALIGN THE EDGE OF THE PANEL. PRESS IN PLACE, AND PEEL OFF THE PROTECTIVE PAPER LEAVING THE TAPE SEALER EXACTLY 3" FROM THE END OF THE PANEL.

IMPORTANT READ INSTRUCTIONS



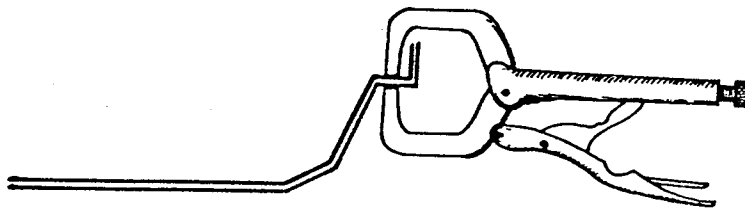
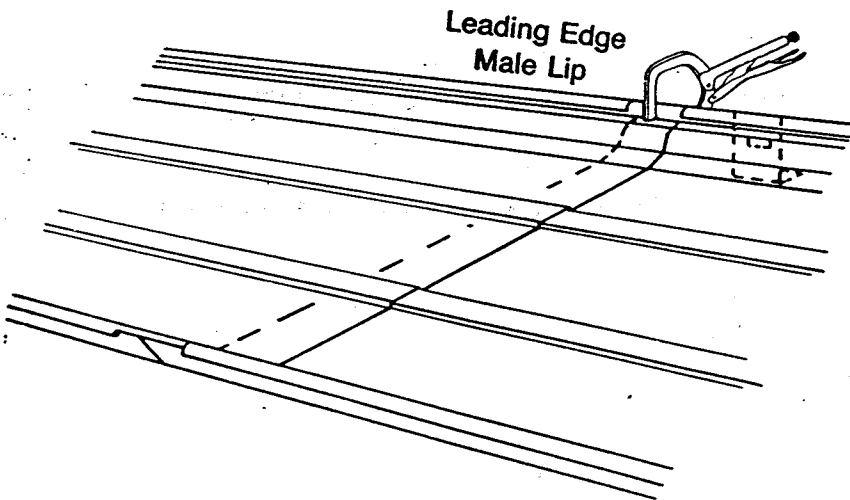
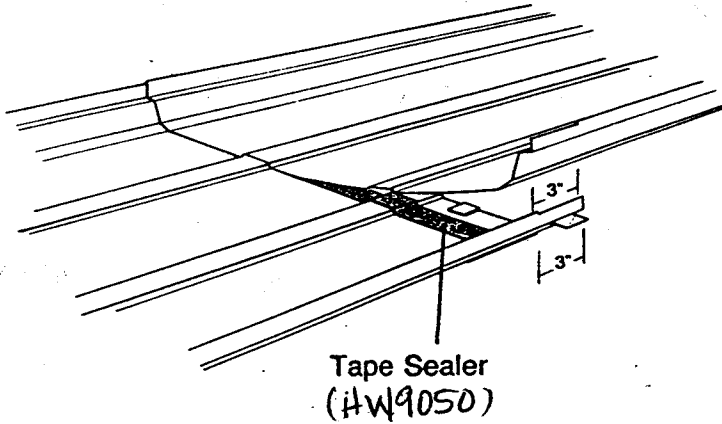
APPLY THE TAPE SEALER FROM ONE PANEL LIP TO THE OTHER, LAYING IT SNUGLY INTO THE CORNERS OF THE PANEL CONFIGURATION WITHOUT PRESSURE. FORCING THE TAPE SEALER BACK INTO THE CORNERS WILL LESSEN THE THICKNESS OF THE TAPE SEALER WHERE IT IS NEEDED MOST.

REV: 5-2-97 ECR 982
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STEP
#7

ENDLAP-PANEL

STEP 6-8 APPLY ONLY WHERE MORE THAN ONE SHEET IS USED IN A SINGLE SLOPE.



POSITION THE PANEL OVER THE RAKE SUPPORT, LAPPING THE UPPER PANEL 3" OVER THE LOWER PANEL. CARE SHOULD BE TAKEN TO BOW THE PANEL AS IT IS LOWERED INTO PLACE. BOWING THE PANEL HELPS PREVENT THE TAPE SEALER FROM BEING DISLODGED AND FORCED DOWN ONTO THE HORIZONTAL LEDGE OF THE SEAM, CAUSING THE PANEL TO MISALIGN.

BE SURE TO KEEP TAPE SEALER (HW9050) UNDER TOP PANEL TO PREVENT DIRT AND OTHER CONTAMINANTS FROM REACHING THE TAPE SEALER (HW9050).

ON THE MALE LIP SIDE, USE A VISE CLAMP TO HOLD THE HORIZONTAL LEDGES OF THE UPPER AND LOWER PANELS TIGHTLY TOGETHER SO THAT THEY ARE NOT FORCED APART WHILE FASTENING. INSTALL THE CLIPS (SEE CHART) AT THE PURLINS.

CAUTION

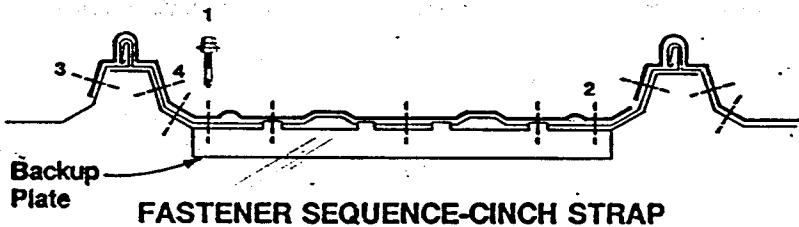
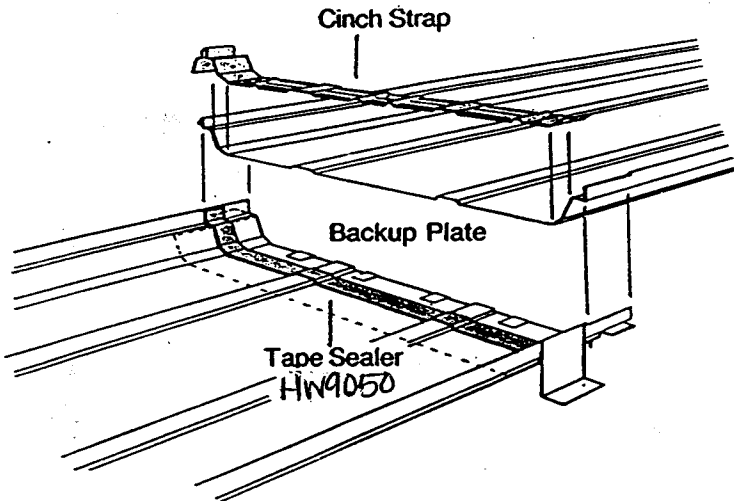
THE ROOF SHOULD BE SWEEP CLEAN OF ANY DRILL SHAVINGS AT THE END OF EACH DAY TO PREVENT RUST.

REV 5-2-97 ECR 982
SUBJECT TO CHANGE WITHOUT NOTICE

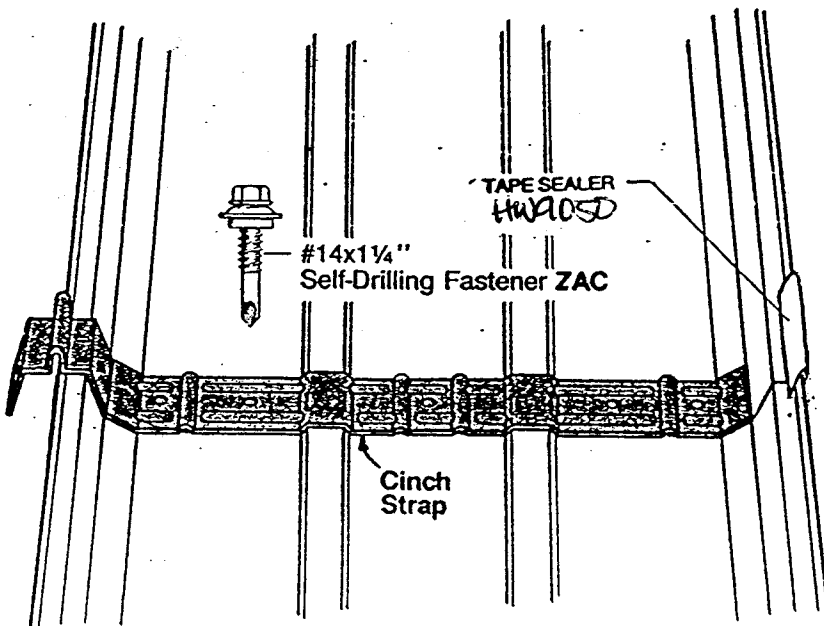
STEP
#8

ENDLAP- CINCH STRAP

STEP 6-8 APPLY ONLY WHERE MORE THAN ONE SHEET IS USED IN A SINGLE SLOPE.



FASTENER SEQUENCE-CINCH STRAP



INSTALL THE CINCH STRAP HW9104 BY ATTACHING IT WITH #14 X 1 1/4" S.D. FASTENER (HW9057) IN THE RECOMMENDED SEQUENCE. SEQUENCE OF THE FIRST FOUR FASTENERS IS CRITICAL. THIS WILL COMPRESS THE TAPE SEALER BETWEEN THE PANEL SURFACES. THE CINCH STRAP SHOULD BE POSITIONED WITH THE OVER-THE-RIB END OVER THE FEMALE SIDE OF THE SHEET. THE FASTENERS SHOULD PASS THROUGH THE CINCH STRAP HW9104 UPPER PANEL, TAPE SEALER (HW9050), LOWER PANEL, AND BACKUP PLATE HW9102 FORMING A RIGID COMPRESSION JOINT THE FULL WIDTH OF THE PANEL. THE FIRST CINCH STRAP WILL HANG OVER THE RAKE. THERE IS ENOUGH CLEARANCE FOR THE RAKE TRIM.

INSTALL A 3" PIECE OF TAPE SEALER ON THE MALE LEGS AT EACH LAP.

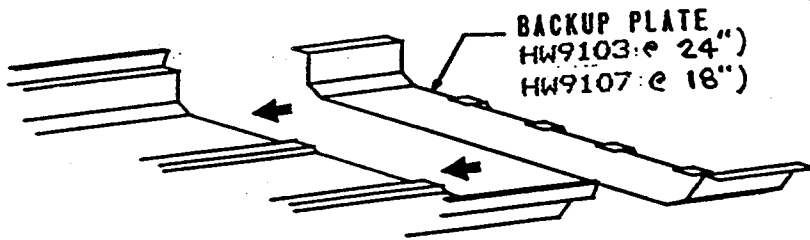
REPEAT THE PROCEDURES AS REQUIRED FOR EACH PANEL UNTIL THE RIDGE IS REACHED.

WHEN LAYING THE SECOND AND SUBSEQUENT RUNS, TO FASTEN THE RECOMMENDED THIRD FASTENER OF THE CINCH STRAP, STEP ON THE OVER-THE-RIB END, BEING SURE THE END TOUCHES THE END OF ADJOINING CINCH STRAP.

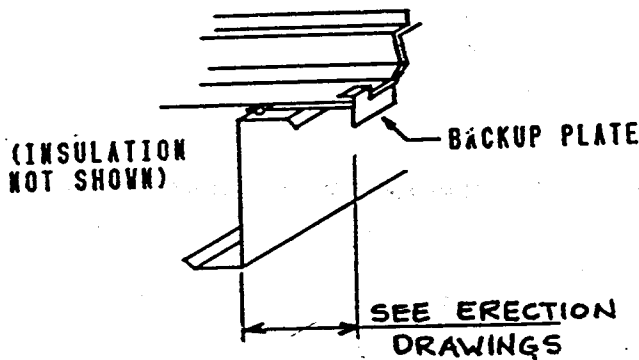
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STEP
#9

RIDGE- BACKUP-PLATE

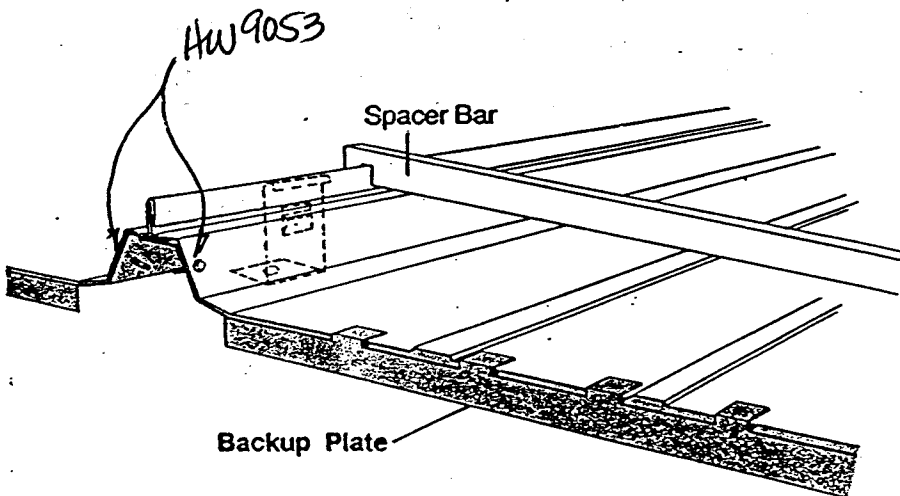


BEFORE INSTALLING THE CLIP AT THE RIDGE PURLIN, SLIDE ONE END OF THE BACKUP PLATE OVER THE PURLIN, FULLY ENGAGING THE TEETH OF THE OTHER END WITH THE END OF THE PANEL.



THIS ENSURES THAT THE BACKUP PLATE WILL BE HELD IN PLACE FOR FASTENING

POSITION THE SPACER TOOL (HW9051) 8" BELOW THE PANEL END AND ATTACH THE BACKUP PLATE HW9103 TO THE PANEL WITH TWO #14 X 1 1/4" S.D. FASTENERS (HW9053) 1" FROM THE END OF THE PANEL TO INSURE THE PANEL MAINTAINS ITS 24" CONFIGURATION. PROCEED WITH THE INSTALLATION OF THE PANEL CLIP.



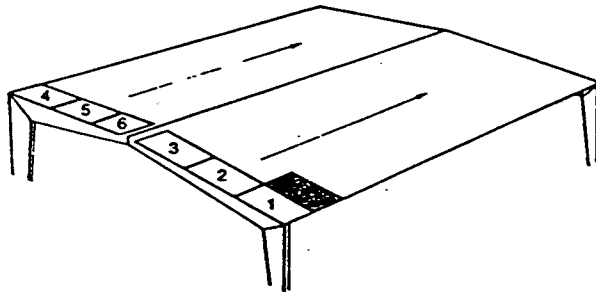
Install the outside closure at the ridge before proceeding to the next panel run. See Step 12 for instructions. Installing the outside closure at this time helps hold the panels in 2'0 modules.

CAUTION
IF PANEL CONFIGURATION SHOULD SHRINK TO LESS THAN 24", IT WILL BE DIFFICULT TO INSTALL THE METAL OUTSIDE CLOSURE (CL3146) AT THE RIDGE.

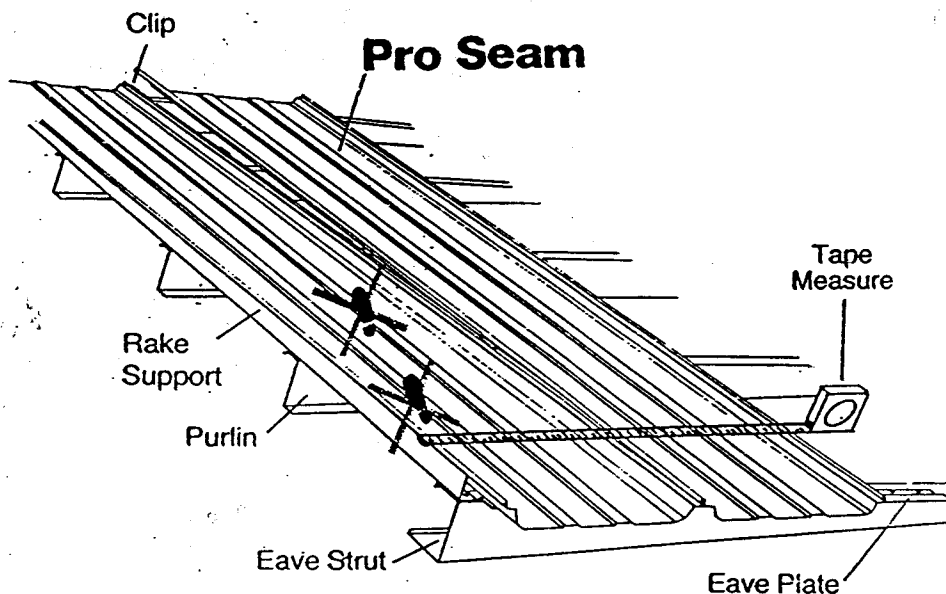
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STEP
#10

SIDELAP-PANEL



WITH INSULATION IN PLACE, START THE NEXT RUN OF ROOF PANELS AT THE EAVE. MAKE SURE TO APPLY GUN GRADE CAULK TO THE MALE VERTICAL LEG AT THE EAVE (2"). THIS WILL PREVENT WATER FROM WICKING AT THE LOCK. POSITION THE PANEL WITH THE FEMALE LIP OF THE EAVE PANEL RESTING ON TOP OF THE MALE LIP. MAKE SURE THE PANELS ARE ALIGNED FLUSH AT THE ENDS. ONCE THE PANELS ARE SNAPPED TOGETHER, THEY WILL NOT COME APART. PRESS DOWN ON THE SEAM, SNAPPING THE TWO PANELS TOGETHER. IT IS IMPORTANT TO BEGIN AT ONE END OF THE PANEL AND WORK TO THE OTHER, APPLYING PRESSURE CONTINUOUSLY ALL THE WAY ALONG THE SEAM SO AS TO AVOID A BUBBLE IN THE SEAM. MAKE CERTAIN THE SEAMS ARE FULLY LOCKED TOGETHER, PARTICULARLY AT THE CLIPS WHERE GREATER RESISTANCE WILL BE ENCOUNTERED.



CAUTION

DO NOT WALK ON THE MINOR RIBS

DURING THE COURSE OF ERECTION, YOU MAY INADVERTENTLY PUSH OR PULL THE PANEL OUT OF MODULE. TO AVOID THIS, PERIODICALLY MEASURE FROM THE RAKE SUPPORT TO THE OUTSIDE PANEL SEAM. MEASURE AT THE EAVE, RIDGE, AND AT 20'-0" INTERVALS.

PROCEED INSTALLING THE REMAINING PANELS ON BOTH SIDES OF THE ROOF IN THE RECOMMENDED SEQUENCE UNTIL ALL BUT THE LAST PANEL RUN HAS BEEN INSTALLED.

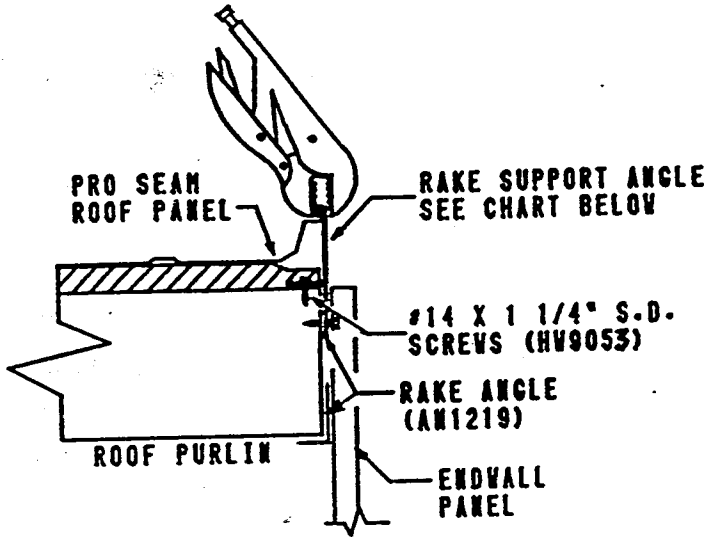
CAUTION

THE ROOF SHOULD BE SWEEP CLEAN OF ANY DRILL SHAVINGS AT THE END OF EACH DAY TO PREVENT RUST.

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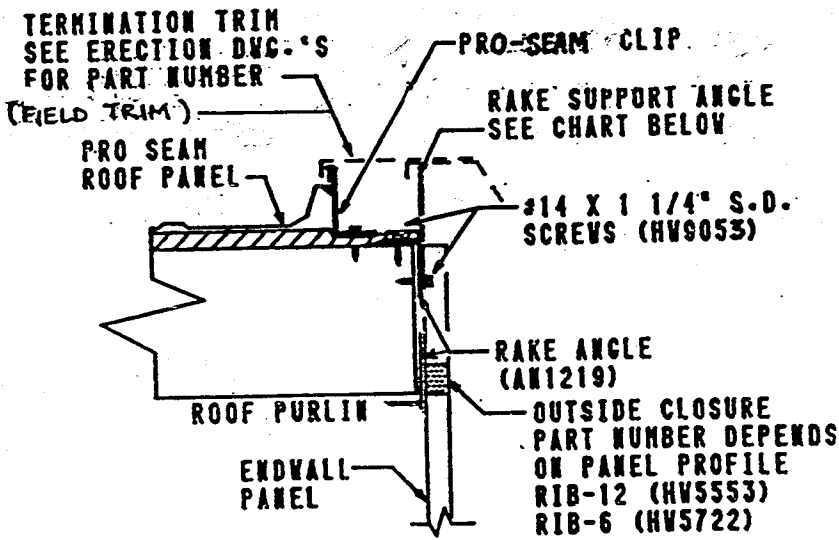
STEP
#11

LAST PANEL



THIS ROOF SYSTEM IS DESIGNED TO FINISH ON AN EVEN OR ODD FOOTAGE BUILDINGS BY USING 24" OR 18" PANELS ON THE LAST RUN.

LAY THE LAST PANEL RUN, TEMPORARILY FASTEN THE MALE LIP TO THE RAKE SUPPORT WITH VICE GRIPS.



PART #	RAKE SUPPORT
AN1271	LOW FIXED
AN1272	LOW FLOATING
AN1273	HIGH FIXED
AN1274	HIGH FLOATING

IF THE PANEL ENDS 2" - 4" AWAY FROM THE RAKE SUPPORT DUE TO OUT OF SQUARE CONDITION OR OTHER FACTORS SIMPLY INSTALL THE PANEL CLIPS. OUR FORGING SYSTEM ALLOWS FOR THE ROOF TO BE TRIMMED FINISHING IN THE HIGH.

CAUTION

THE ROOF SHOULD BE SWEEP CLEAN OF ANY DRILL SHAVINGS AT THE END OF EACH DAY TO PREVENT RUST.

STEP
#12

BEFORE INSTALLING THE OUTSIDE CLOSURES HW9105 AT THE RIDGE, CHECK THE PANELS TO MAKE SURE THE BACKUP PLATES HW9103 HAVE BEEN INSTALLED COMPLETE WITH FASTENERS AS INSTRUCTED IN STEP 9.

FIELD CRIMP THE PANEL LIP WITH DUCKBILL CLAMPS.

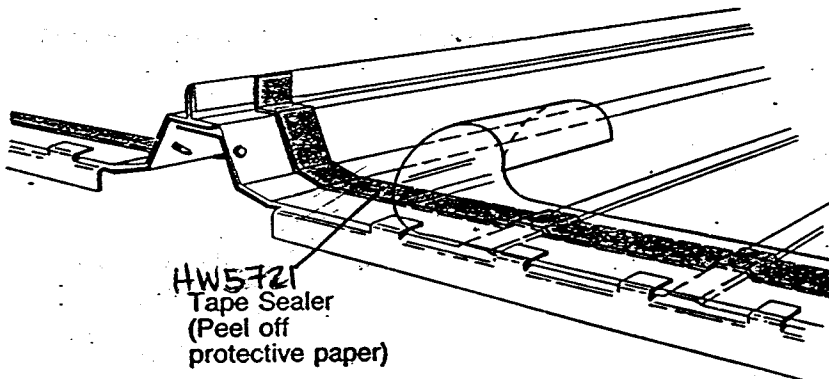
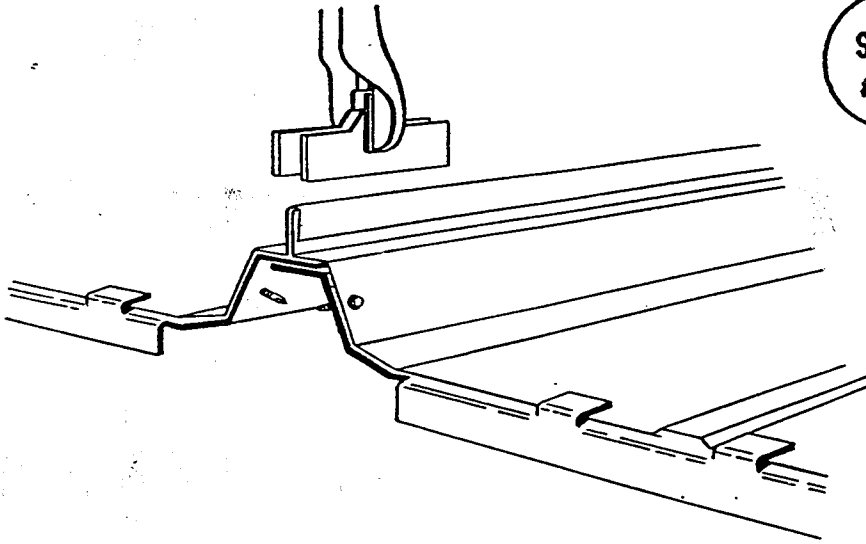


PLACE TAPE SEALER (HW5721) EXACTLY 3" FROM THE END OF THE PANEL

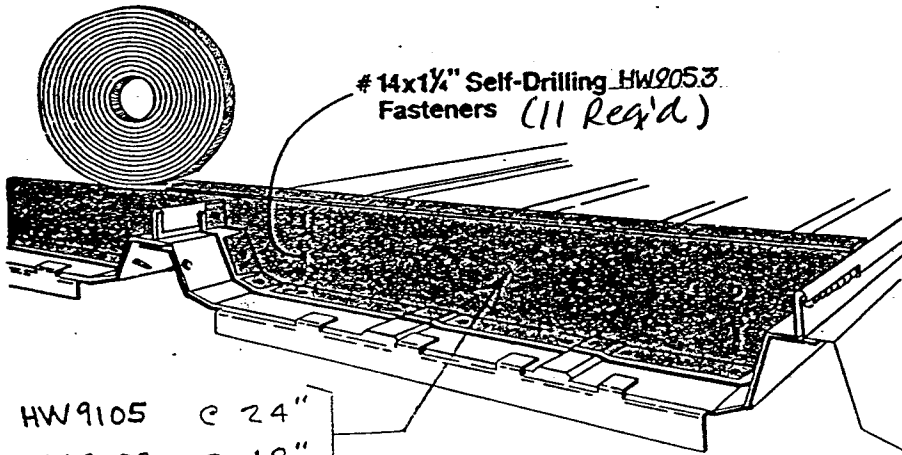
ALIGN THE EDGE OF THE PAPER WITH THE EDGE OF THE PANEL. PRESS IN PLACE AND PEEL OFF THE PROTECTIVE PAPER, LEAVING THE TAPE SEALER EXACTLY 3" FROM THE END OF THE PANEL.

INSTALL THE OUTSIDE CLOSURE HW9105 FLUSH WITH THE PORTION OF THE SEAM, DIRECTLY OVER THE TAPE SEALER. BE SURE NONE OF THE TAPE SEALER PROTRUDES OUTSIDE THE CLOSURE, OTHERWISE DIRT AND OTHER CONTAMINANTS WILL BUILD-UP ON THE TAPE SEALER. INSTALL #14 X 1 1/4" S.D. FASTENERS (HW9053) IN THE RECOMMENDED SEQUENCE. FASTEN THROUGH OUTSIDE CLOSURE, TAPE SEALER, PANEL, AND BACKUP PLATE. "DO NOT FASTEN INTO THE PURLIN" SEQUENCE OF THE FIRST TWO FASTENERS IS CRITICAL. INSTALL OUTSIDE CLOSURE HW9105 IN PANELS ON BOTH SIDES OF THE RIDGE. DO NOT PUT A FASTENER IN THE TOP HOLE OF THE OUTSIDE CLOSURE ON THE FEMALE SIDE UNTIL THE NEXT PANEL RUN IS LAID IN PLACE.

APPLY A CONTINUOUS STRIP TAPE SEALER (HW5721) ALONG THE TOP OF THE OUTSIDE CLOSURES FROM ONE END OF THE BUILDING TO THE OTHER.



HW5721
Tape Sealer
(Peel off
protective paper)



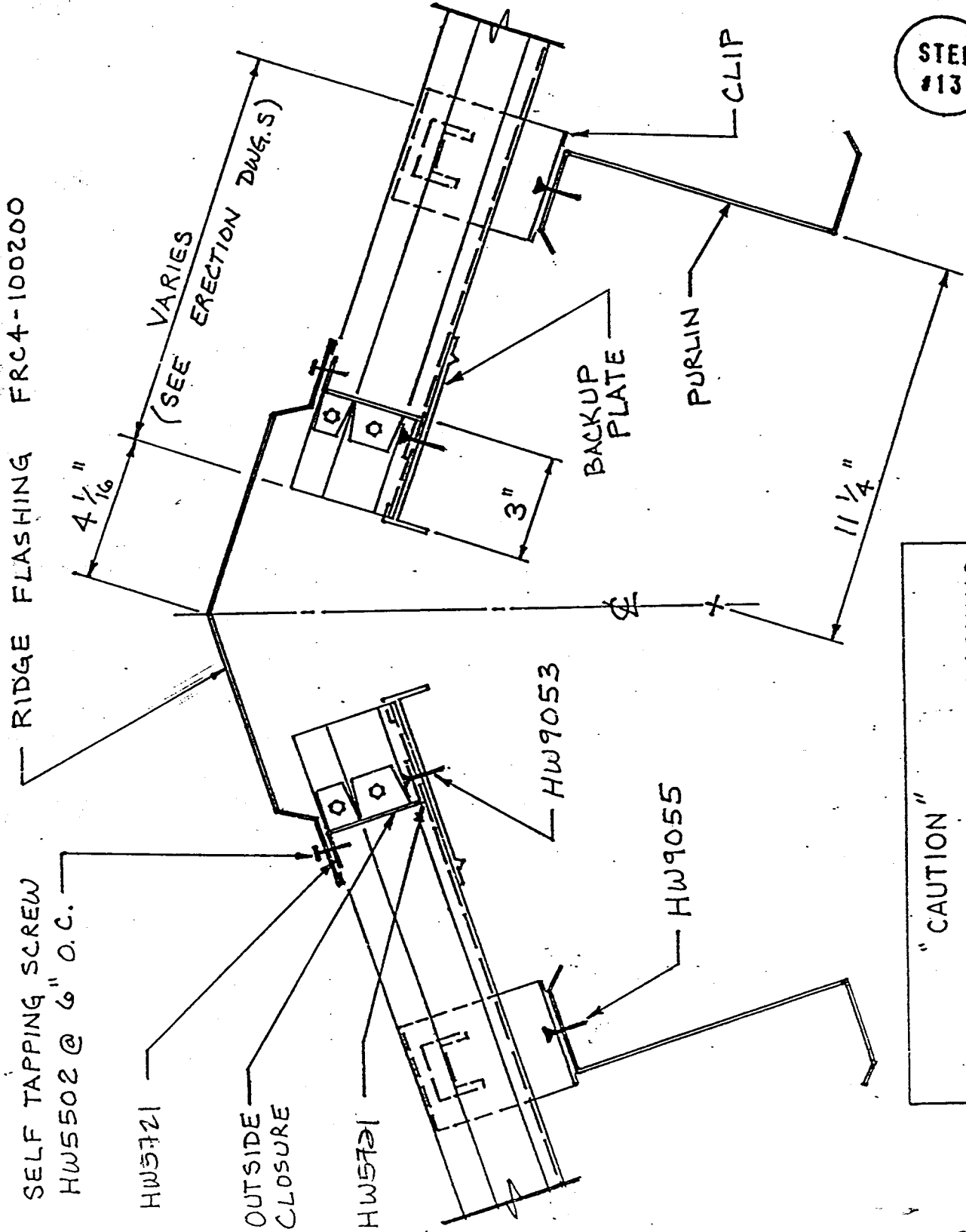
#14x1 1/4" Self-Drilling HW9053
Fasteners (11 Req'd)

HW9105 @ 24"
HW9108 @ 18"

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STEP #13

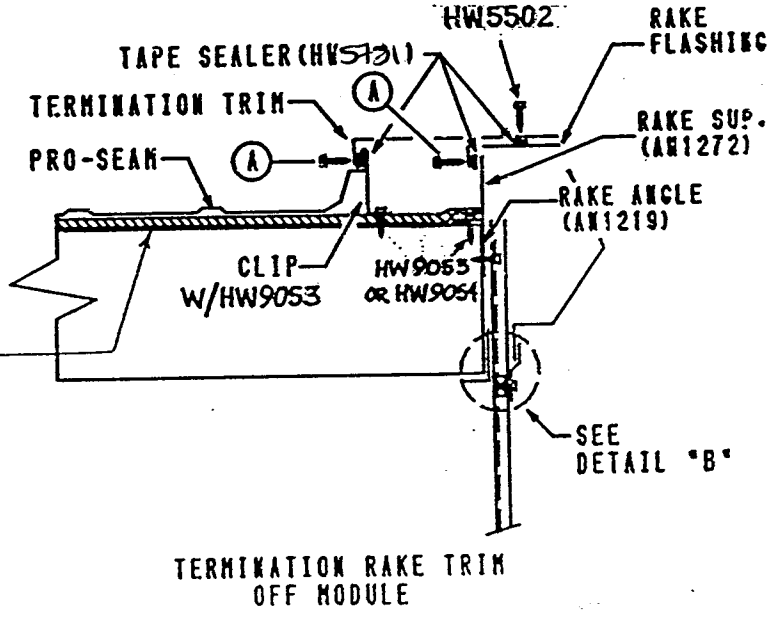
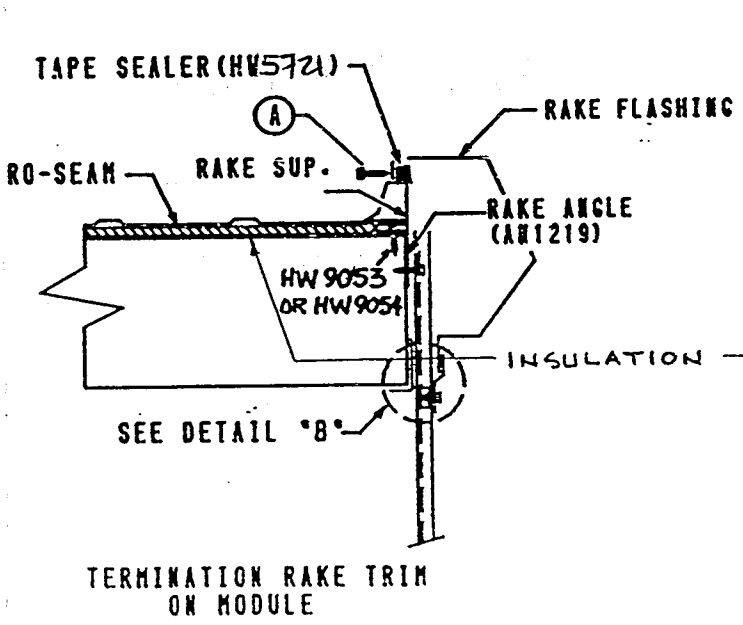
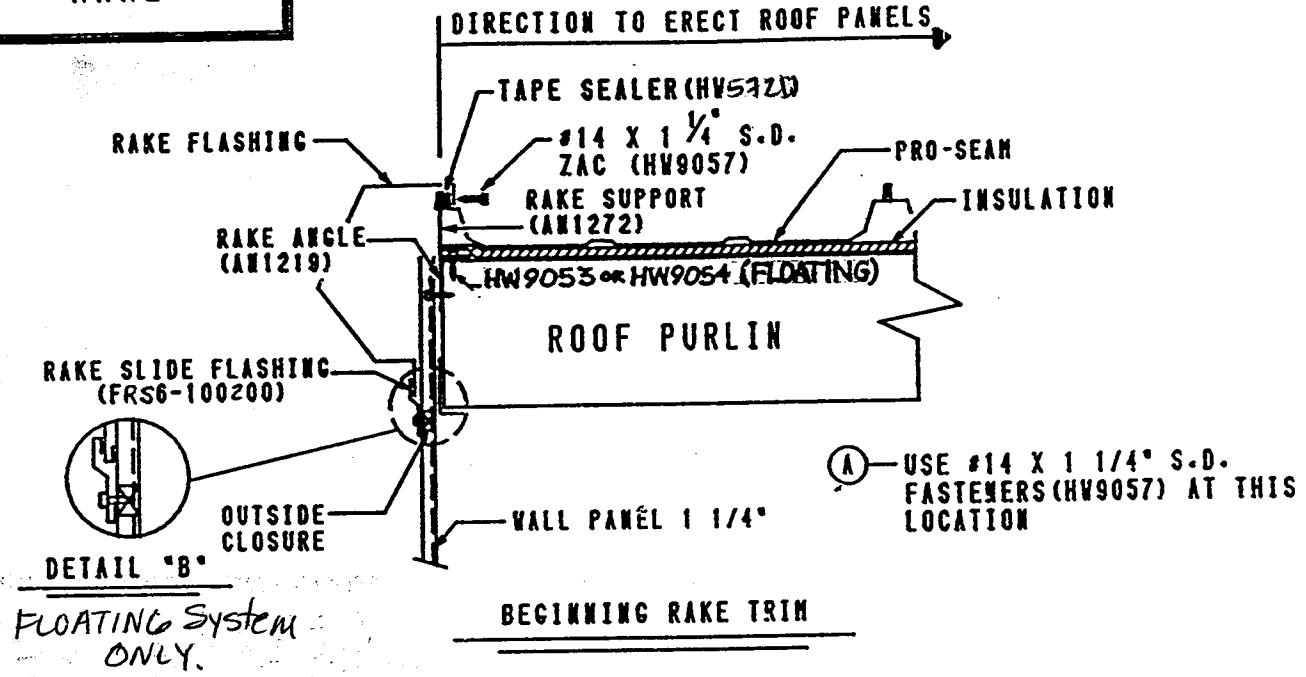
CROSS SECTION AT RIDGE



"CAUTION"
DO NOT WALK ON RIDGE FLASHING

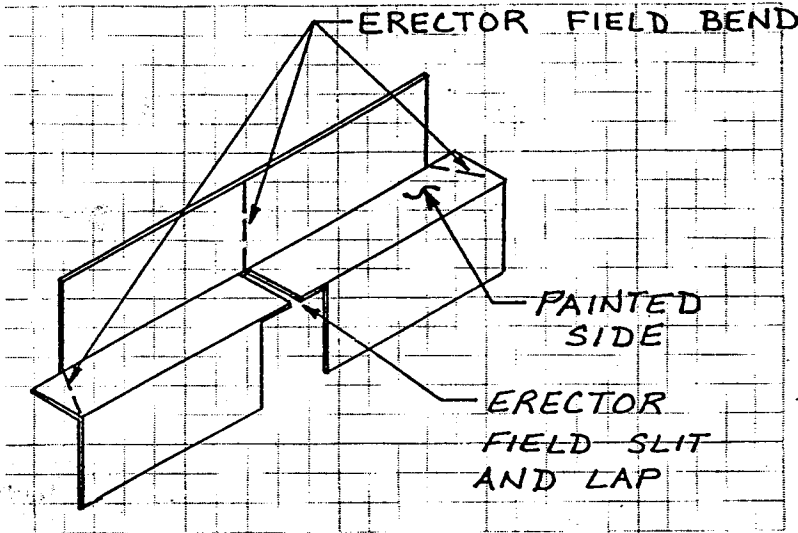
REV 5-2-97

TRIM DETAILS
RAKE

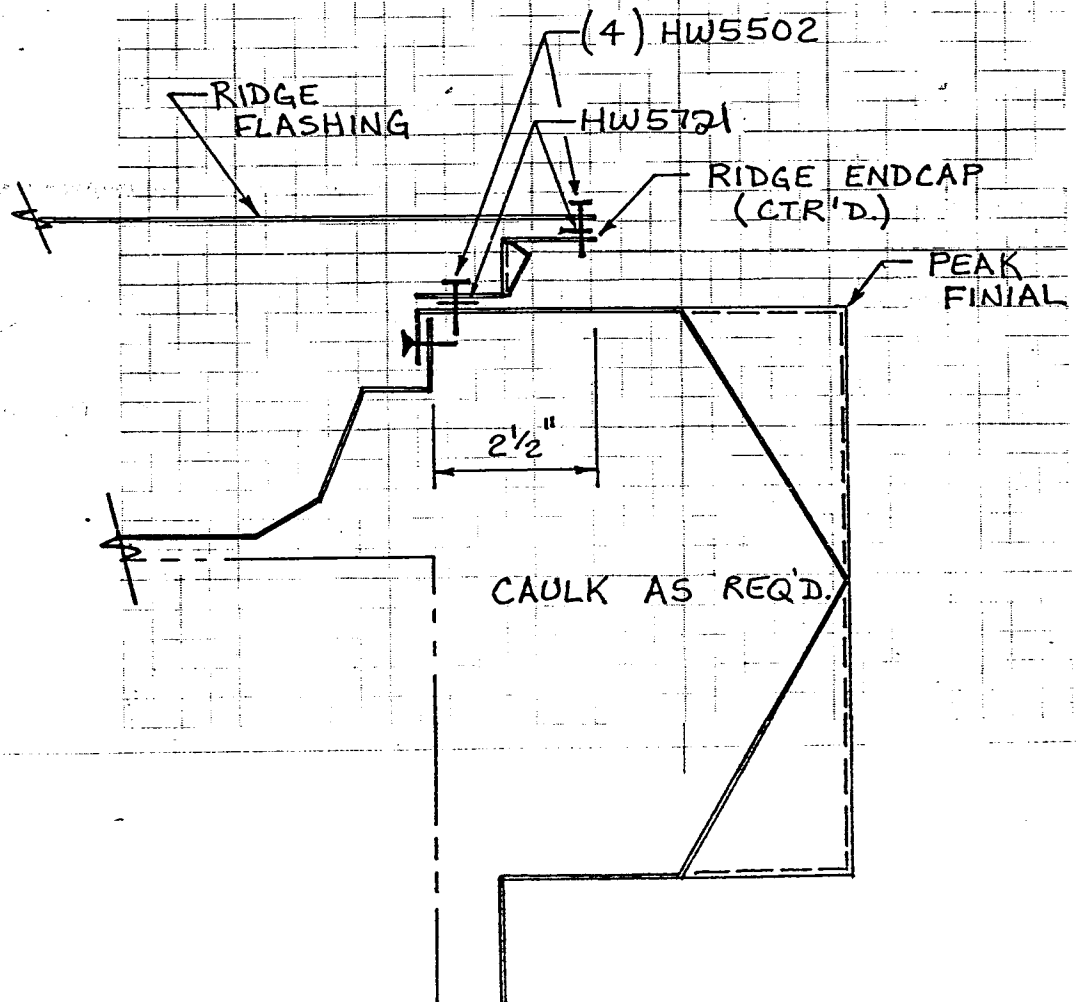


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TRIM DETAILS
RAKE



RIDGE ENDCAP ATTACHMENT

REV 5-2-97

TRIM DETAILS EAVE

STANDARD CUTTER
W/CUTTER BRACKET

S.T. SCREW (HV5511)
@ EACH PANEL RIB

INSIDE CLOSURE (HV9048)

#14 X 1 1/4" S.D. SCREW (HV9057)
8 PER PANEL

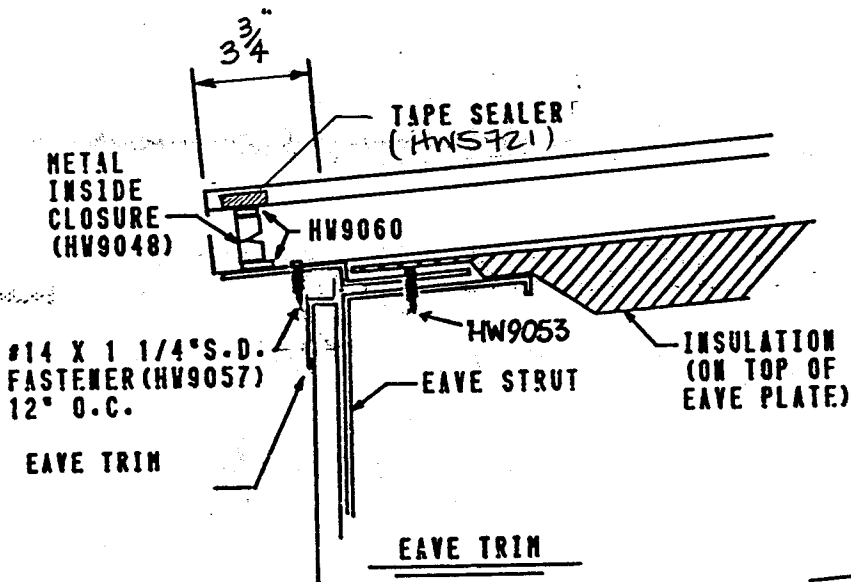
EAVE PLATE (AN1276)

INSULATION

EAVE TRIM

SIDEWALL PANEL

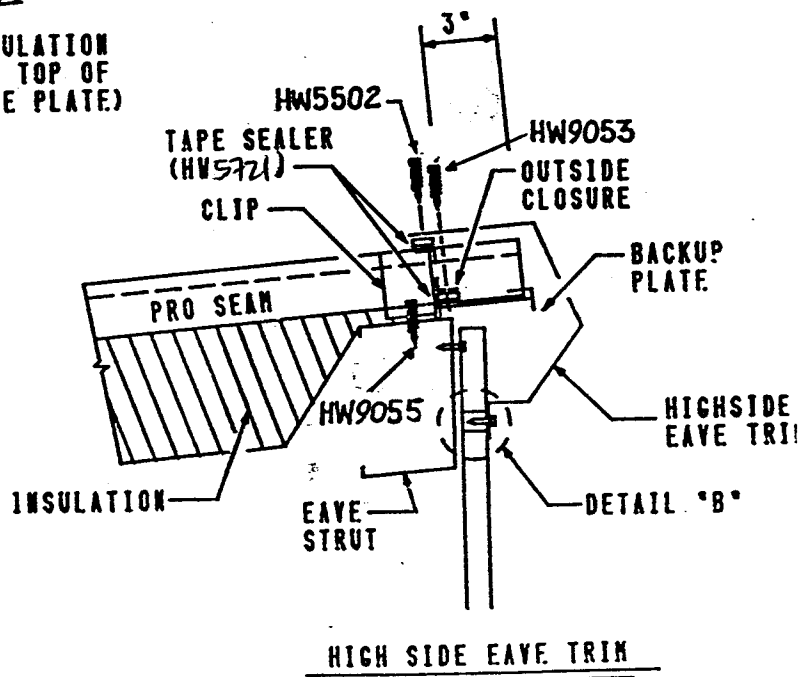
CUTTER



FRS6-100200

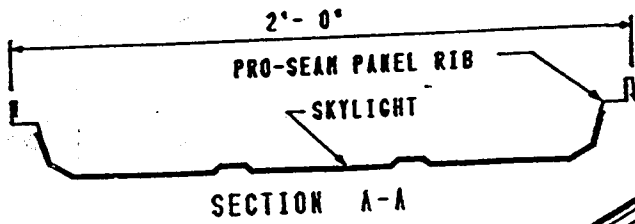
DETAIL "B"

EAVE SLIDE
(FOR FLOATING SYSTEMS ONLY)

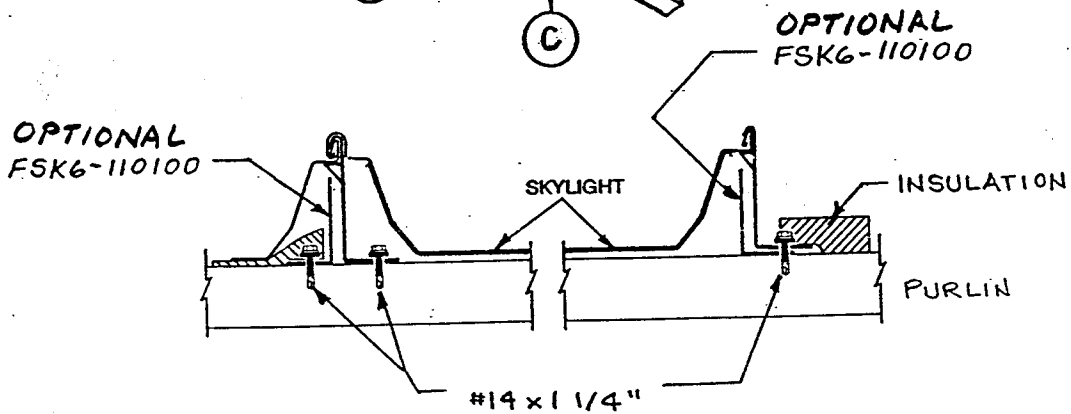
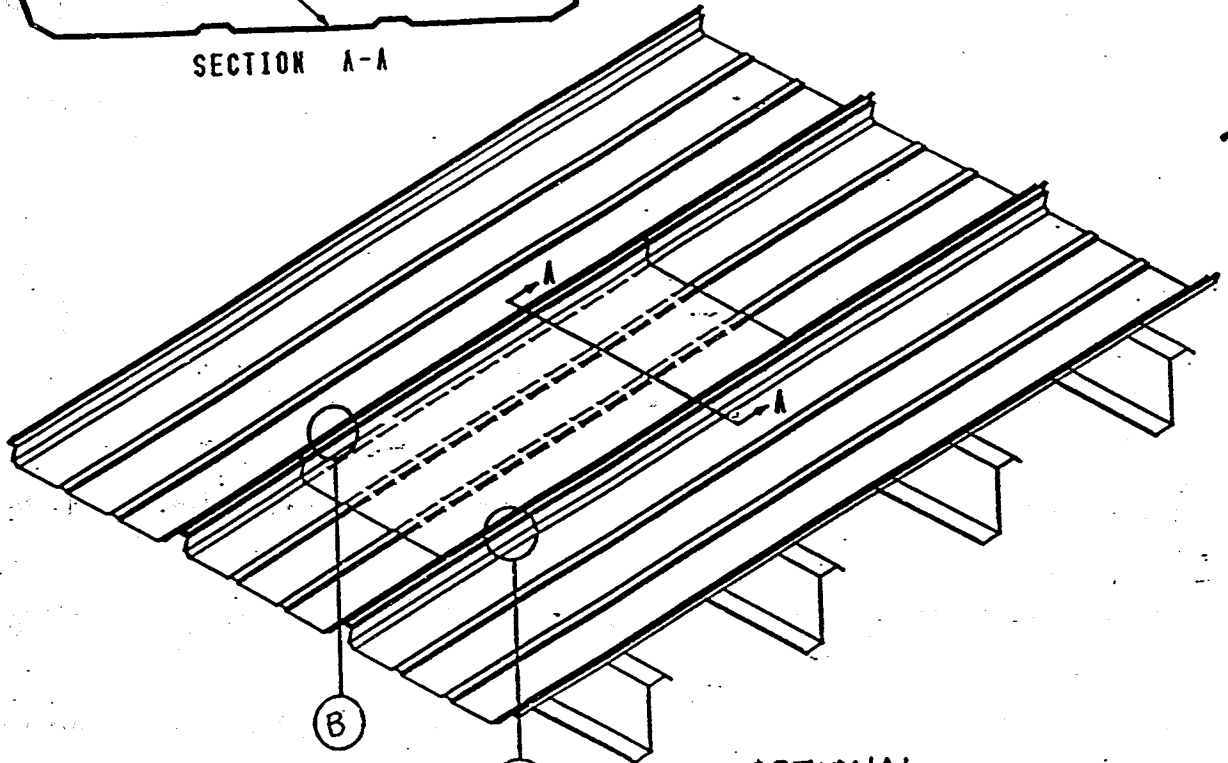


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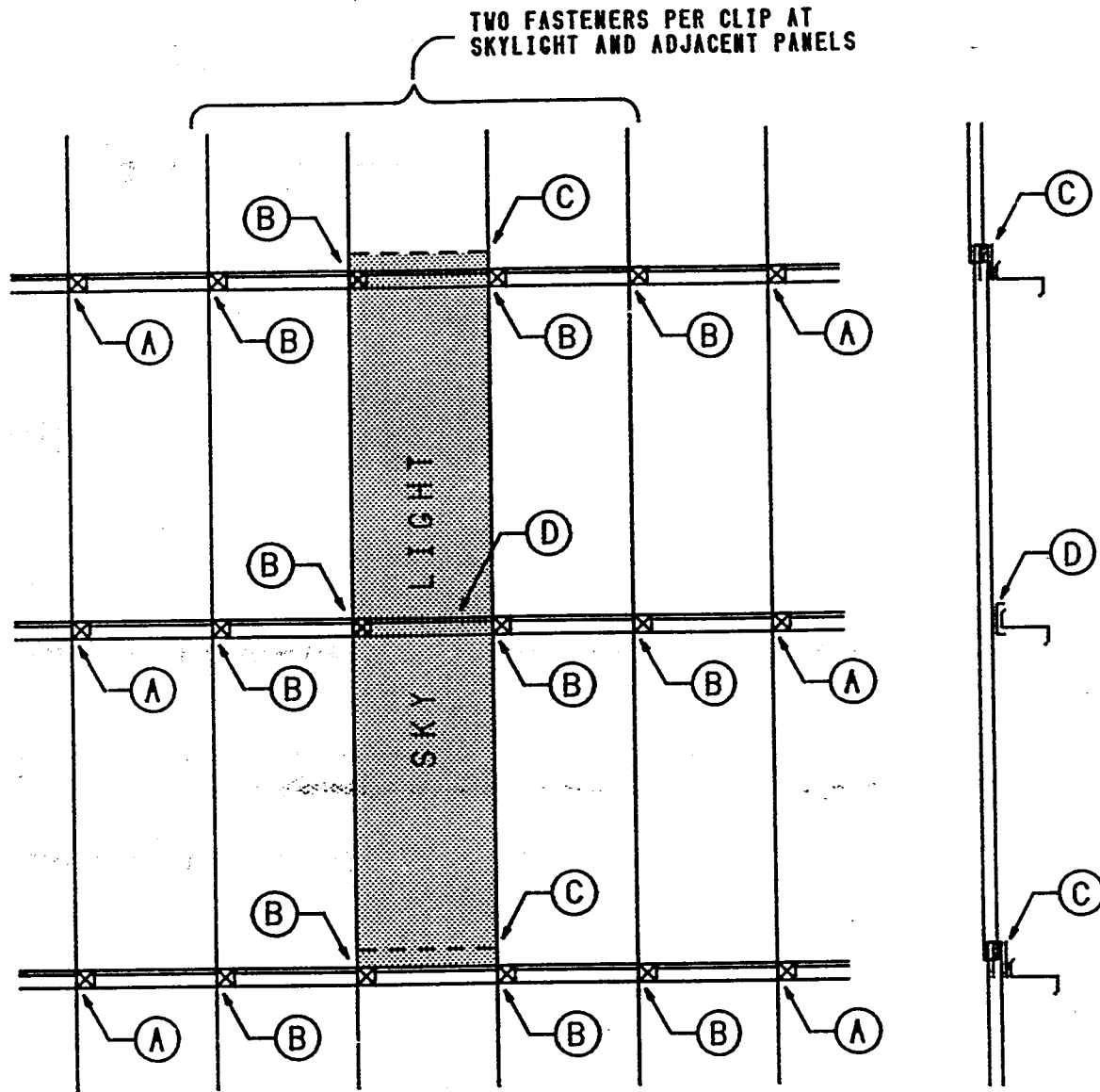


NOTE: REFERENCE STEPS 6-8 FOR ENDLAP DETAILS



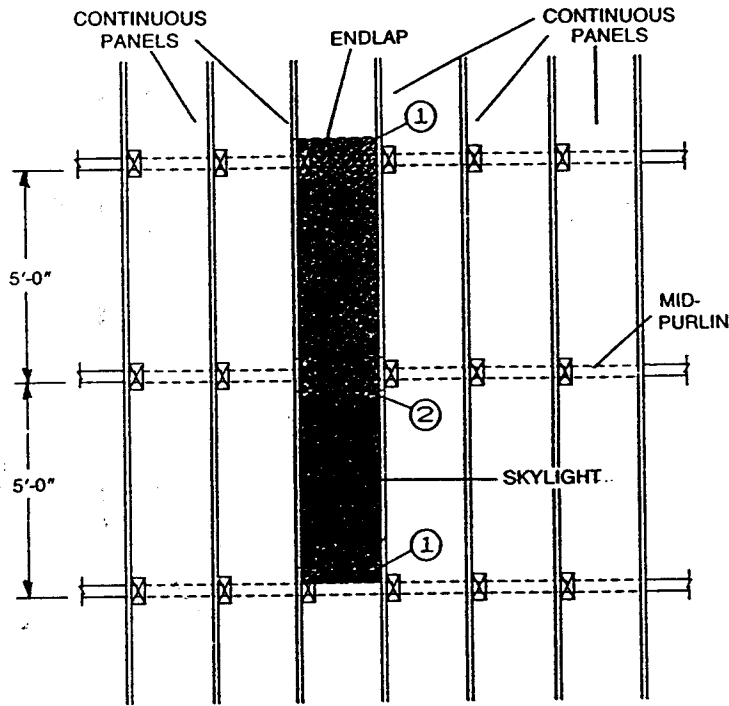
(B) SKYLIGHT TO PANEL LAP DETAIL (C)

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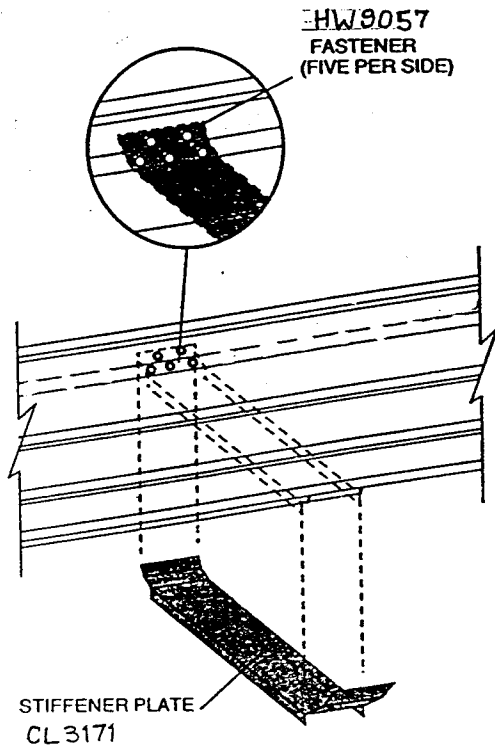


- (A) STANDARD PRO-SEAM PURLIN CLIP WITH ONE #14 X 1" SCREW
- (B) STANDARD PRO-SEAM PURLIN CLIP WITH TWO #14 X 1" SCREW
- (C) STANDARD BACK-UP PLATE AND CINCH STRAP
- (D) MODIFIED BACK-UP PLATE ONLY. (UL 90 RATED ROOFS)

SUBJECT TO CHANGE WITHOUT NOTI



1. STANDARD BACK-UP PLATE AND CINCH STRAP
2. STIFFENER PLATE ONLY

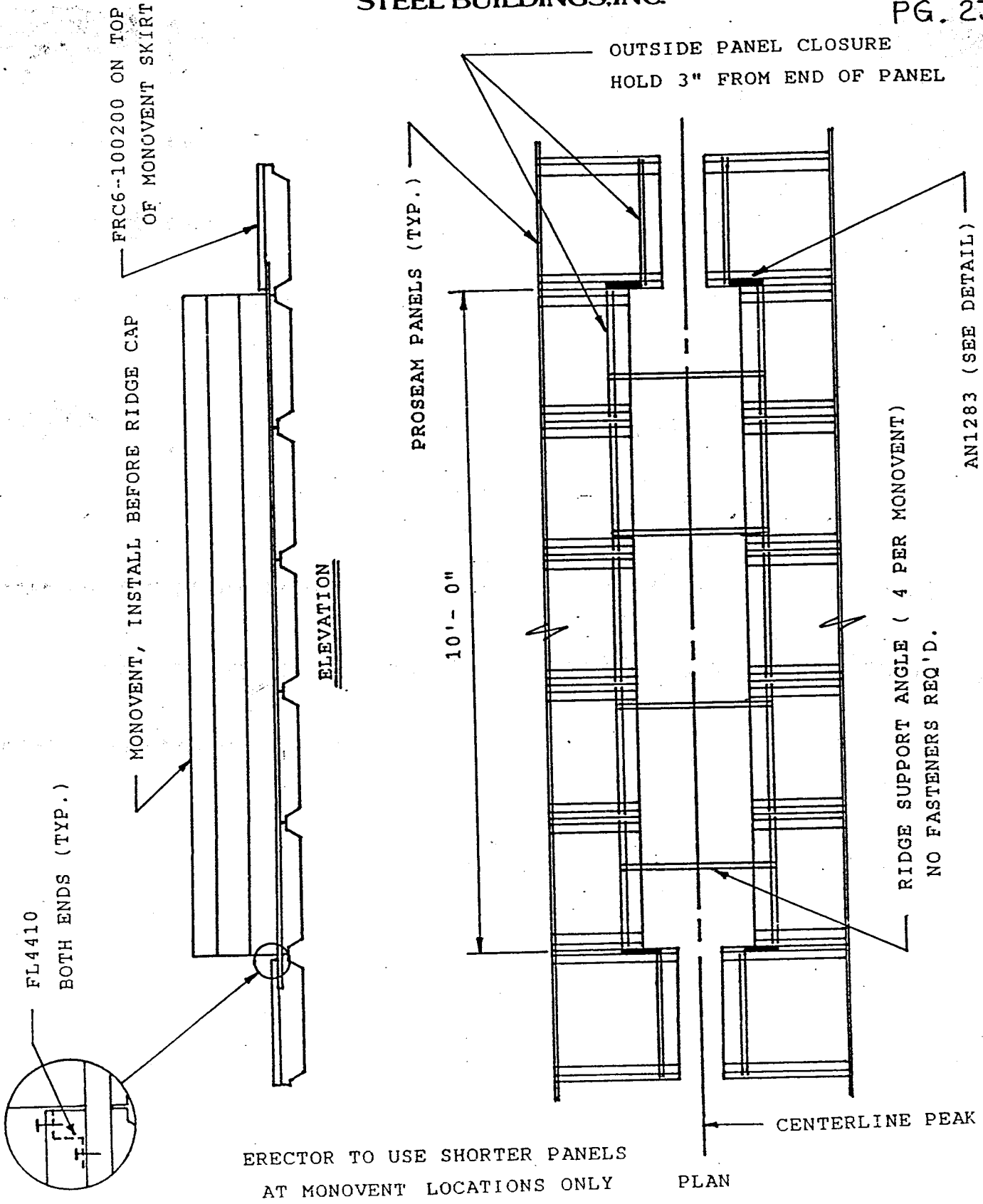


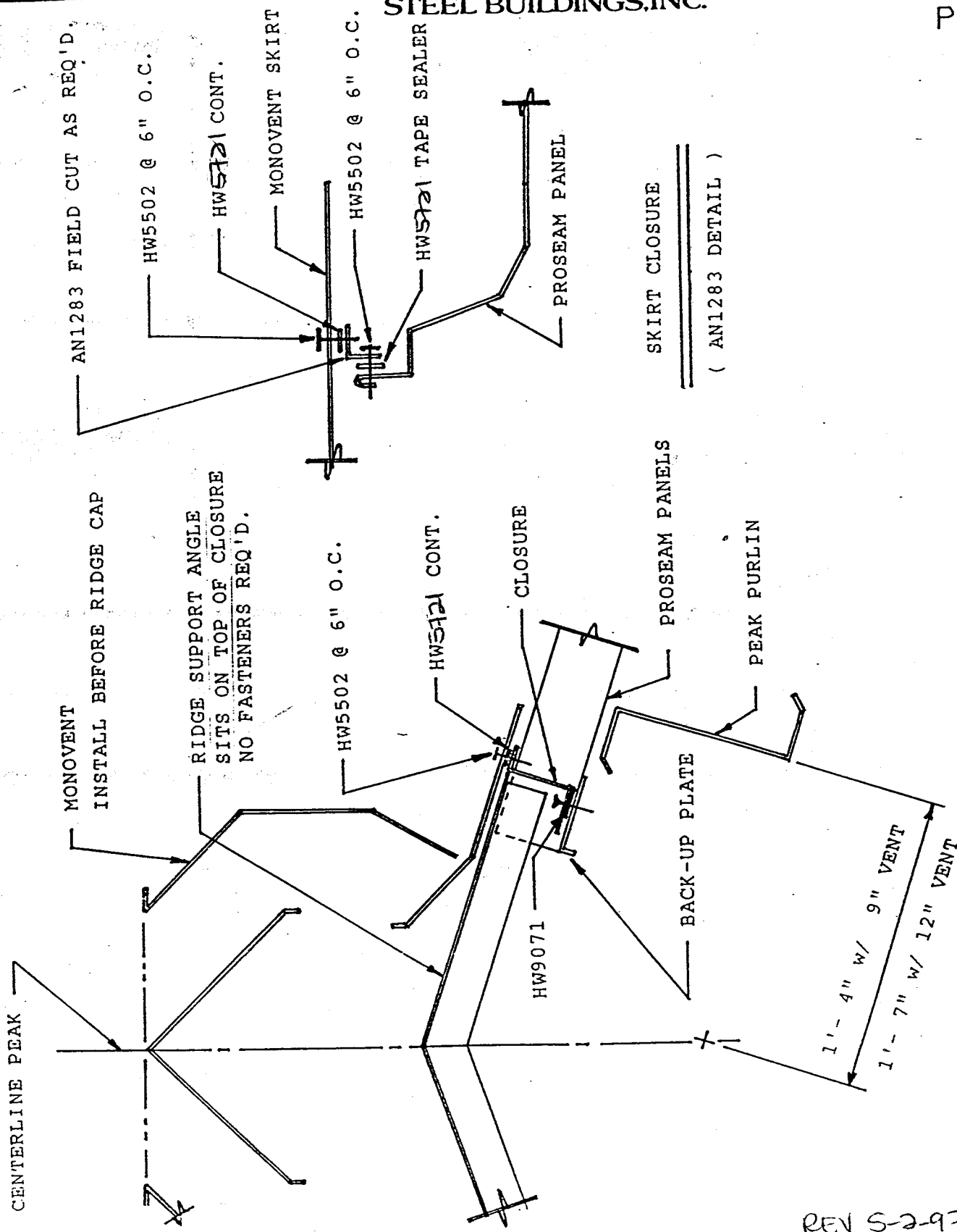
UL 90 SKYLIGHT INSTALLATION

Maximum width of purlin flange to be 3 1/2".

A stiffener plate is to be field installed on the bottom side of the skylight over the mid-purlin.

The skylight rivets that obstruct the stiffener plate must be drilled out and replaced with Fastener #3 in five places, on each side. THIS STIFFENER PLATE MUST BE EXACTLY CENTERED OVER THE MID-PURLIN SO THAT THE THERMAL MOVEMENT OF THE SYSTEM IS NOT RESTRAINED BY THE PURLIN.

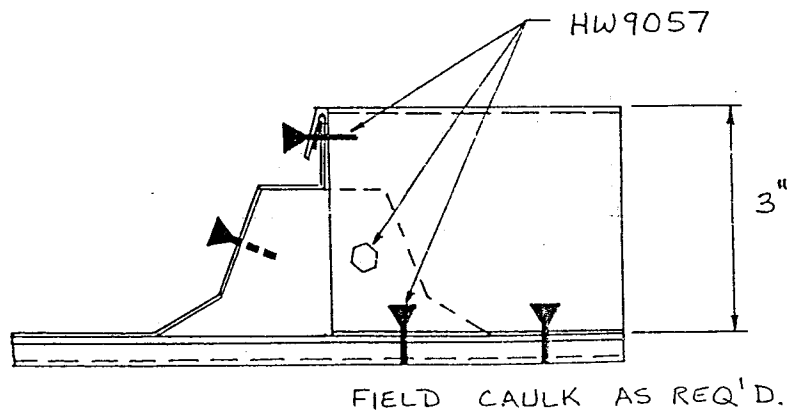
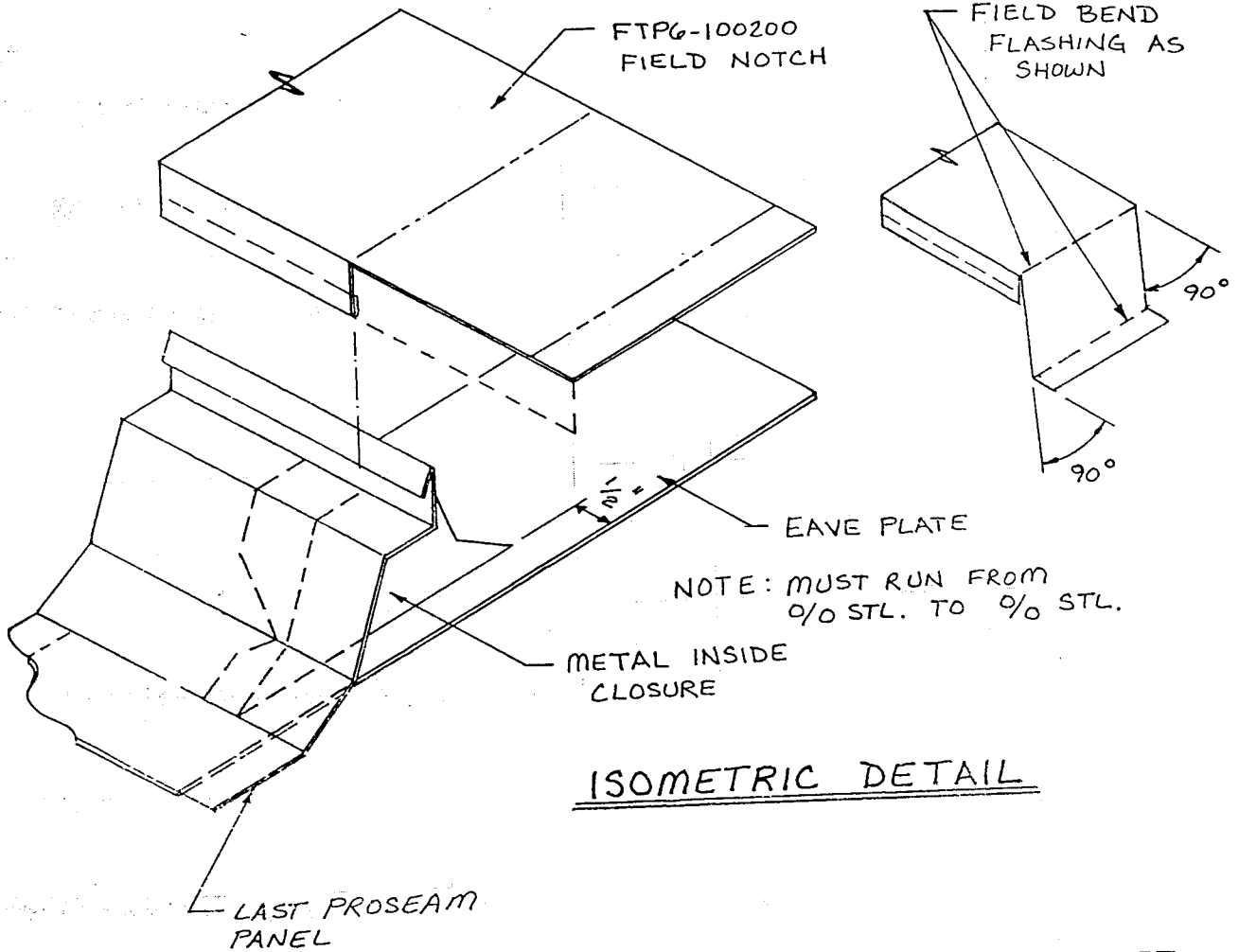




SECTION THRU PEAK @ MONOVENT

ERECTOR TO USE SHORTER PANELS AT MONOVENT LOCATIONS ONLY

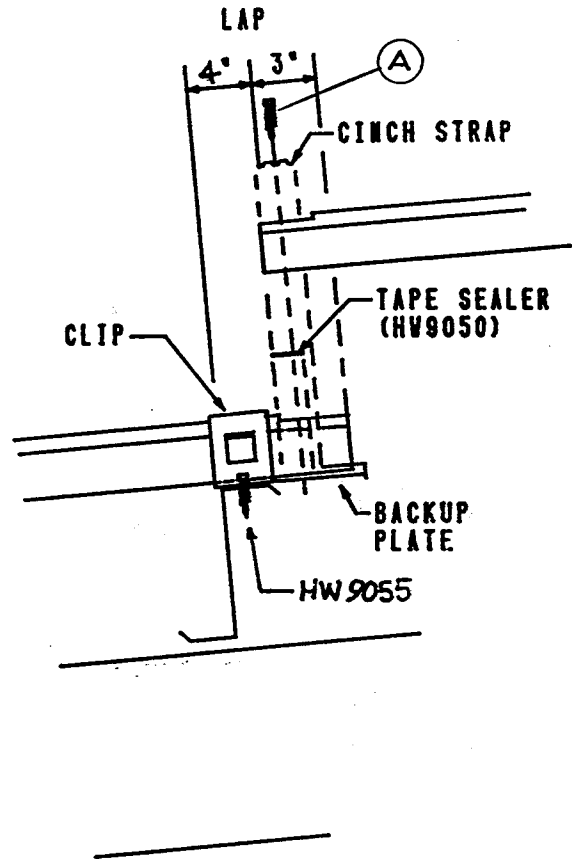
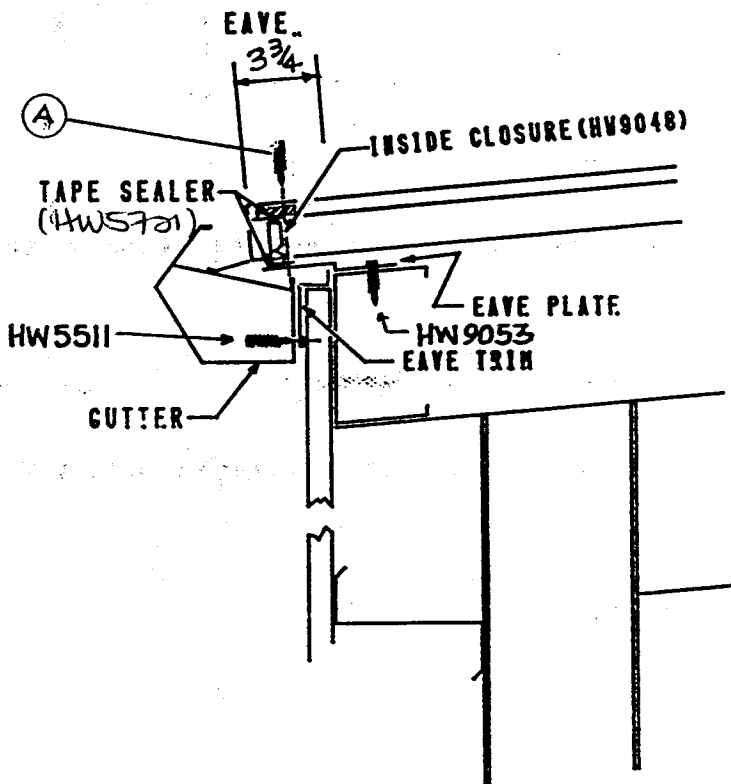
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TERMINATION FLASHING AT EAVE

EAVE TO RIDGE

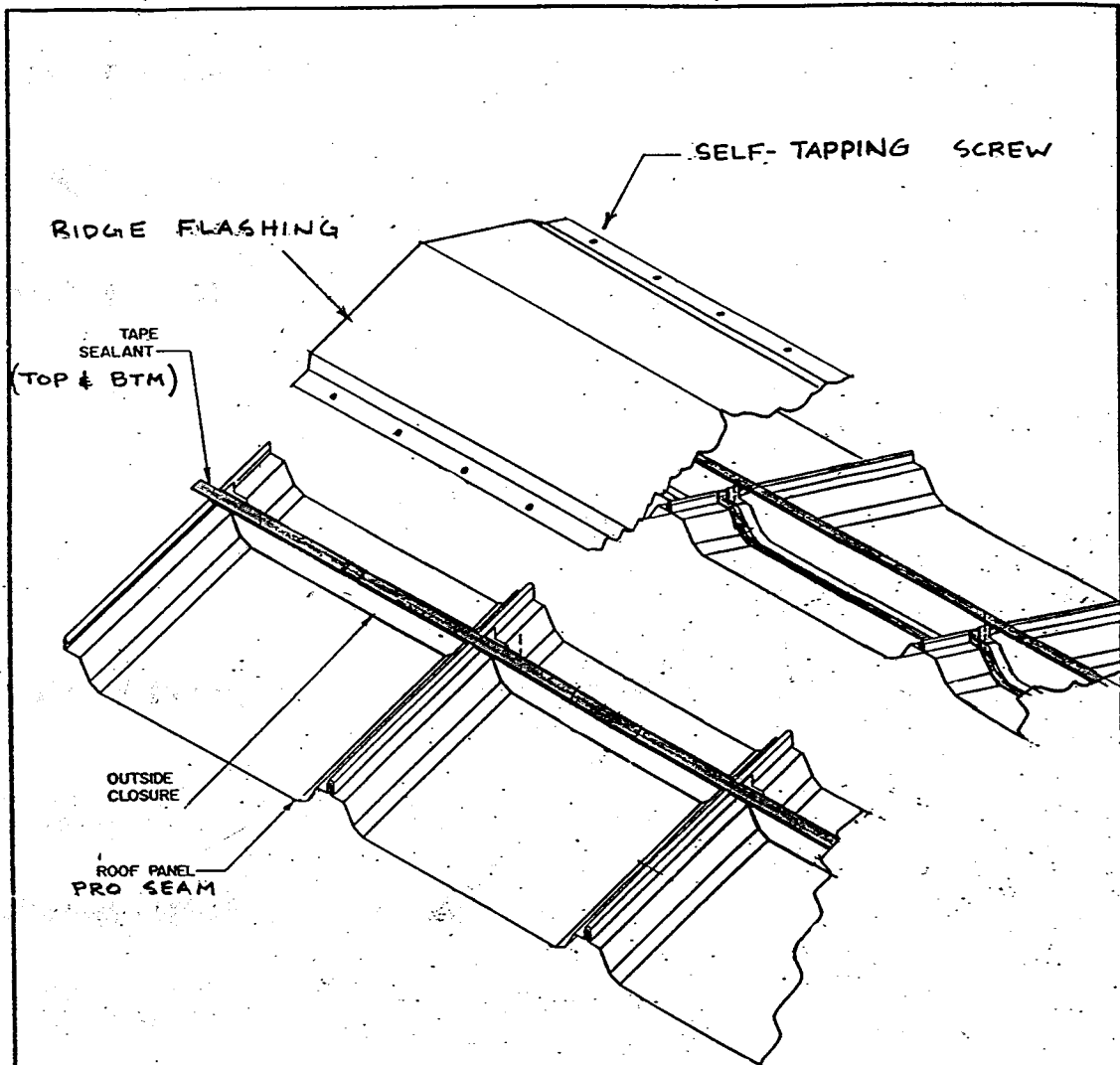
(A) #14 X 1 1/4" SELF-DRILLING FASTENERS HW9057 (TYP. UNLESS NOTED)



NOTE:
DO NOT USE A COMBINED SLOPE (1/12 TO 4/12) EAVE STRUT; IT IS NOT COMPATIBLE WITH THE PRO SEAM SYSTEM.

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PEAK PANEL INSTALLATION
OF OVER 1/12 ROOF SLOPE

"CAUTION"
DO NOT WALK ON RIDGE FLASHING

ISOMETRIC VIEW AT RIDGE PANEL