



INSTALLATION INSTRUCTION FOR ALLIED AIR CLIP LOCK ROOF CURB TO SUIT

CAT # 21J13,21J14,21J15,21J16,21J17,21J19,21J20,21J25
21J26, 21U04

* US PATENTS 5188333, 5255887
CANADIAN PATENT 2073900
ADDITIONAL PATENTS PENDING

CURB VERIFICATION

PRIOR TO FRAME FINAL ASSEMBLY AND INSTALLATION, VERIFY THAT ALL THE DIMENSIONS AND MODEL NUMBER DESIGNATIONS MATCH THOSE SHOWN ON THE ENCLOSED DRAWING. NOTIFY THE FACTORY OF ANY DISCREPANCIES. THE MANUFACTURER WILL NOT ASSUME ANY LIABILITIES OR COSTS AS THE RESULT OF ANY OF THE PROCEDURES LISTED IN THIS INSTRUCTION NOT BEING FOLLOWED AS DIRECTED.

FRAME ASSEMBLY

STEP#1

TAKE ONE END PIECE (LOCKING TABS) AND ONE SIDE PIECE (SLOTS), STAND BOTH PIECES VERTICALLY ON FLOOR OR ROOF.

STEP#2

RAISE SLIGHTLY THE CORNER OF THE END PIECE (LOCKING TABS) AND MATE WITH SIDE PIECE (SLOTS), ENSURING THAT LOWER LOCKING TAB WITH LEADING EDGE IS THROUGH SLOT OPENING. REFER TO FIG.#1.

STEP#3

PUSH DOWN ON TOP EDGE OF END PIECE. ENSURE THAT ALL 3 OF THE LOCKING TABS ARE FEEDING INTO EACH CORRESPONDING SLOT. ONCE BOTH PIECES ARE FLUSH THE PROCESS IS COMPLETE. REFER TO FIG.#2.

STEP#4

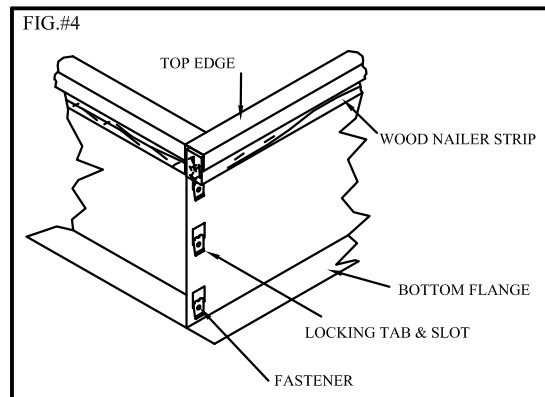
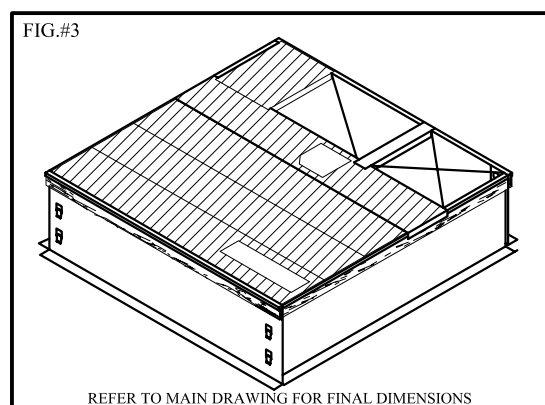
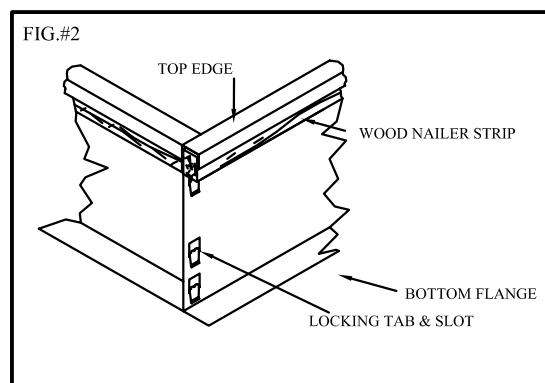
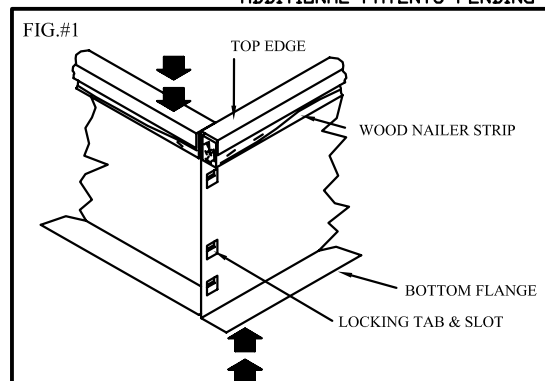
MEASURE AND SECURE THE DUCT SUPPORT CHANNELS AND INSULATED PANS IN THE LOCATIONS NOTED ON THE ENCLOSED DRAWING WITH SCREWS PROVIDED. (FIG.#3)

STEP#5

IF BOLTED ASSEMBLY IS PREFERRED, INSTALL A BOLT, NUT & WASHER IN EACH HOLE IN LOCKING TAB, (HARDWARE INCLUDED) SEE FIG.#4

FRAME APPLICATION AND LOCATION

THIS ROOF MOUNTING FRAME PROVIDES NECESSARY SUPPORT WHEN UNIT IS INSTALLED. THE FRAME CAN BE INSTALLED DIRECTLY ON DECK HAVING ADEQUATE STRUCTURAL STRENGTH OR ON ROOF SUPPORTS UNDER DECK.





INSTALLATION INSTRUCTION FOR ALLIED AIR CLIP LOCK ROOF CURB TO SUIT

CAT # 21J13,21J14,21J15,21J16,21J17,21J19,21J20,21J25
21J26, 21U04

SECURING FRAME

TO ASSURE PROPER MATING WITH UNIT, IT IS MANDATORY THE MOUNTING FRAME BE SQUARE TO ROOF STRUCTURE AS FOLLOWS:

- 1 - WITH FRAME SITUATED LEVEL IN DESIRED LOCATION ON ROOF TRUSSES, TACK WELD ONE CORNER OF FRAME.
- 2 - MEASURE FRAME DIAGONALLY FROM ONE CORNER AS SHOWN IN FIG.#5. THESE DIMENSIONS MUST BE EQUAL FOR FRAME TO SQUARE.
- 3 - IT IS EXTREMELY IMPORTANT TO SIGHT FRAME FROM ALL CORNERS TO MAKE CERTAIN FRAME IS NOT TWISTED ACROSS TOP SIDE. SHIM FRAME UNDER ANY LOW SIDES.
- 4 - AFTER FRAME HAS BEEN SQUARED, STRAIGHTENED AND SHIMMED, WELD OR ATTACH FRAME SECURELY TO ROOF.

MAXIMUM SLOPE TOLERANCE: 1/16" PER LINEAR FOOT IN ANY DIRECTION.

IMPORTANT: SQUARING FRAME

FRAME IS SQUARE WHEN CORNERS
1 TO 2 AND 3 TO 4 ARE EQUAL (REF FIG #5)

IF A POURED ROOF IS USED, SUCH AS CONCRETE, BE SURE INSIDE OF MOUNTING FRAME IS ADEQUATELY BRACED TO ENSURE A SQUARE AND LEVEL FRAME.

CURBING AND FLASHING

- 1 - OUTSIDE OF FRAME SHOULD BE INSULATED WITH A RIGID TYPE INSULATION, PREFERABLY 2 IN. (51mm) THICK. DO NOT USE COMBUSTIBLE MATERIAL FOR FILLING AROUND FRAME.
- 2 - COUNTERFLASH AND SEAL AROUND FRAME AS SHOWN IN FIG.#6.

FIG.#5

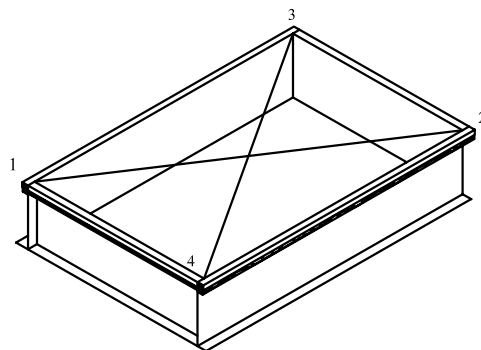
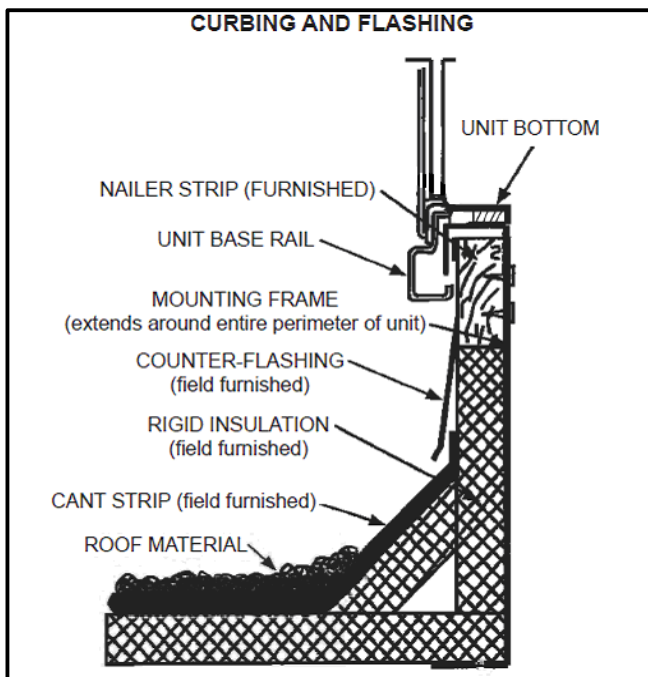


FIG.#6





INSTALLATION INSTRUCTION FOR ALLIED AIR CLIP LOCK ROOF CURB TO SUIT

CAT # 21J13,21J14,21J15,21J16,21J17,21J19,21J20,21J25
21J26, 21U04

INSTALLATION PROCEDURE:-

1. REMOVE SHIPPING BRACKET FROM THE BOTTOM OF THE UNIT BASE.
2. REMOVE THE DOWNFLOW SUPPLY/RETURN DUCT COVERS FROM THE UNIT. THEN LOCATE THE SCREWS THAT FASTEN THE BOTTOM METAL DUCT COVERS TO THE BASE. REMOVE THESE ALONG WITH ANY INTERFERING FOIL TAPE. THEN REMOVE SCREWS LOCATED BETWEEN THE SUPPLY AND RETURN AIR OPENINGS THAT ATTACH THE BLOWER DECK TO THE BASE. DISCARD THESE SCREWS. THESE SCREWS CAN INTERFERE WITH BOTTOM DUCT CONNECTIONS OR ROOF CURB SEALS. IT IS RECOMMENDED TO TAPE DOWN REMAINING INSULATION TO THE BASE TO AVOID DELAMINATION(FIG.#7)
3. INSTALL GASKET AROUND PERIMETER OF ROOF CURB AND SUPPLY, RETURN OPENINGS ON THE CURB AS SHOWN IN FIG#8
4. BRING UNIT BASE OVER CURB. SEE THROUGH TO MAKE SURE SUPPLY/RETURN OPENINGS IN THE UNIT AND CURB ARE ALIGNED PROPERLY.

FIG.#7

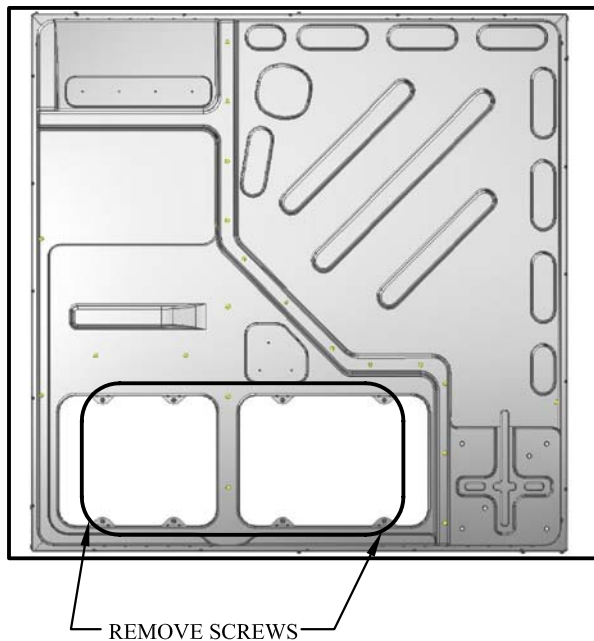


FIG.#8

