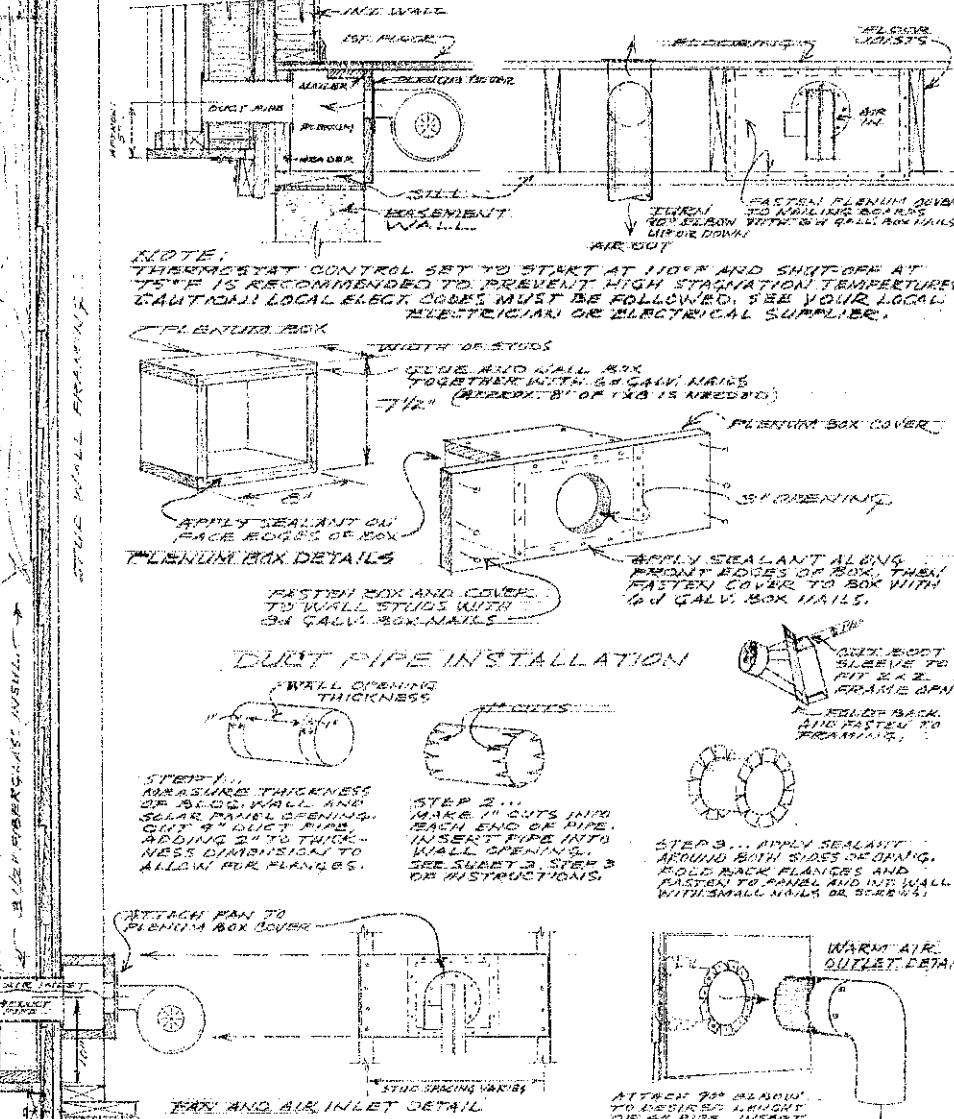


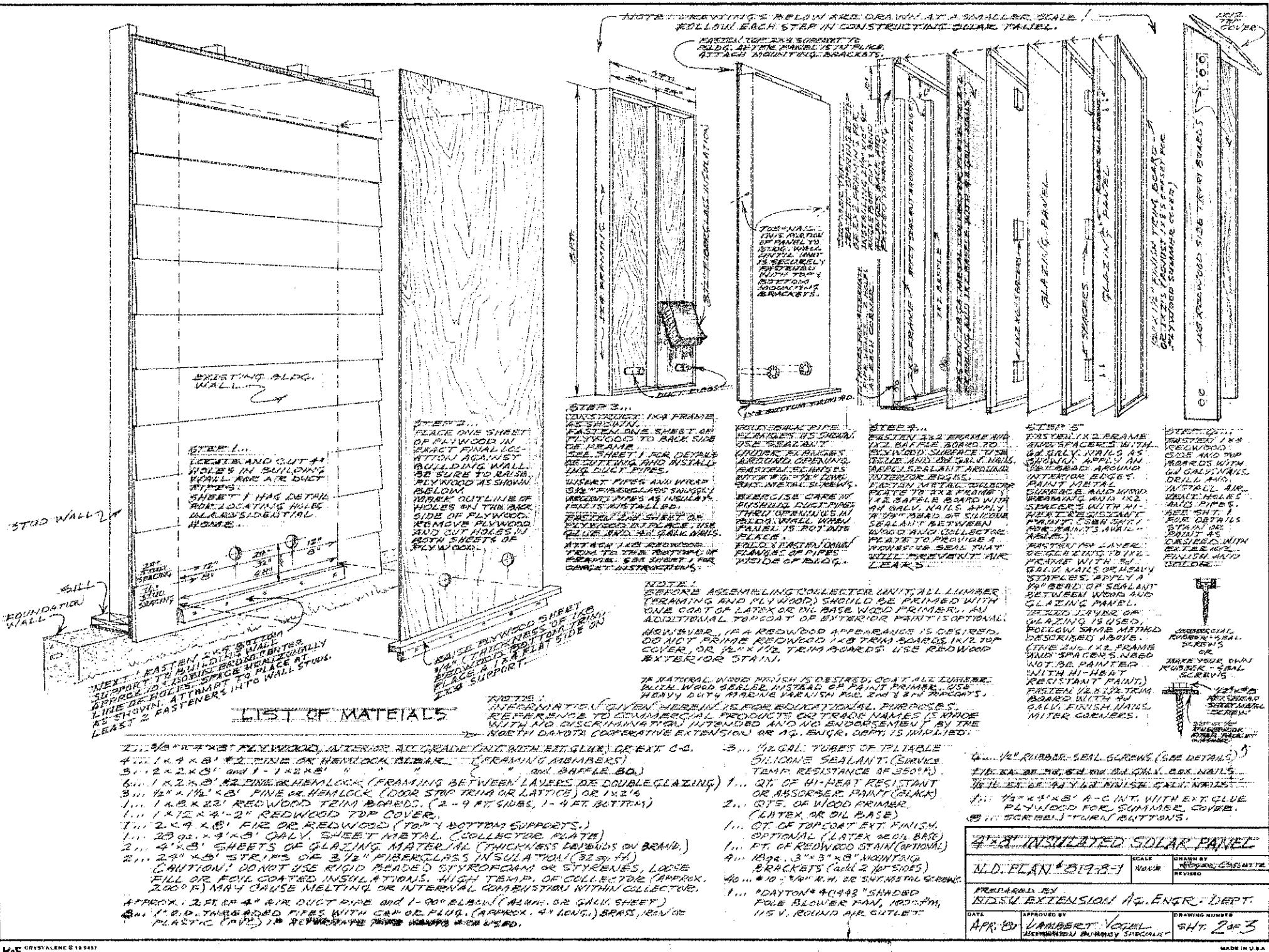
TYPICAL RESIDENTIAL HOME INSTALLATION
AIR INLET AND OUTLET LOCATED TO ENTER BASEMENT
THRU FENDER AND BETWEEN FLOOR JOISTS.



卷之三十一

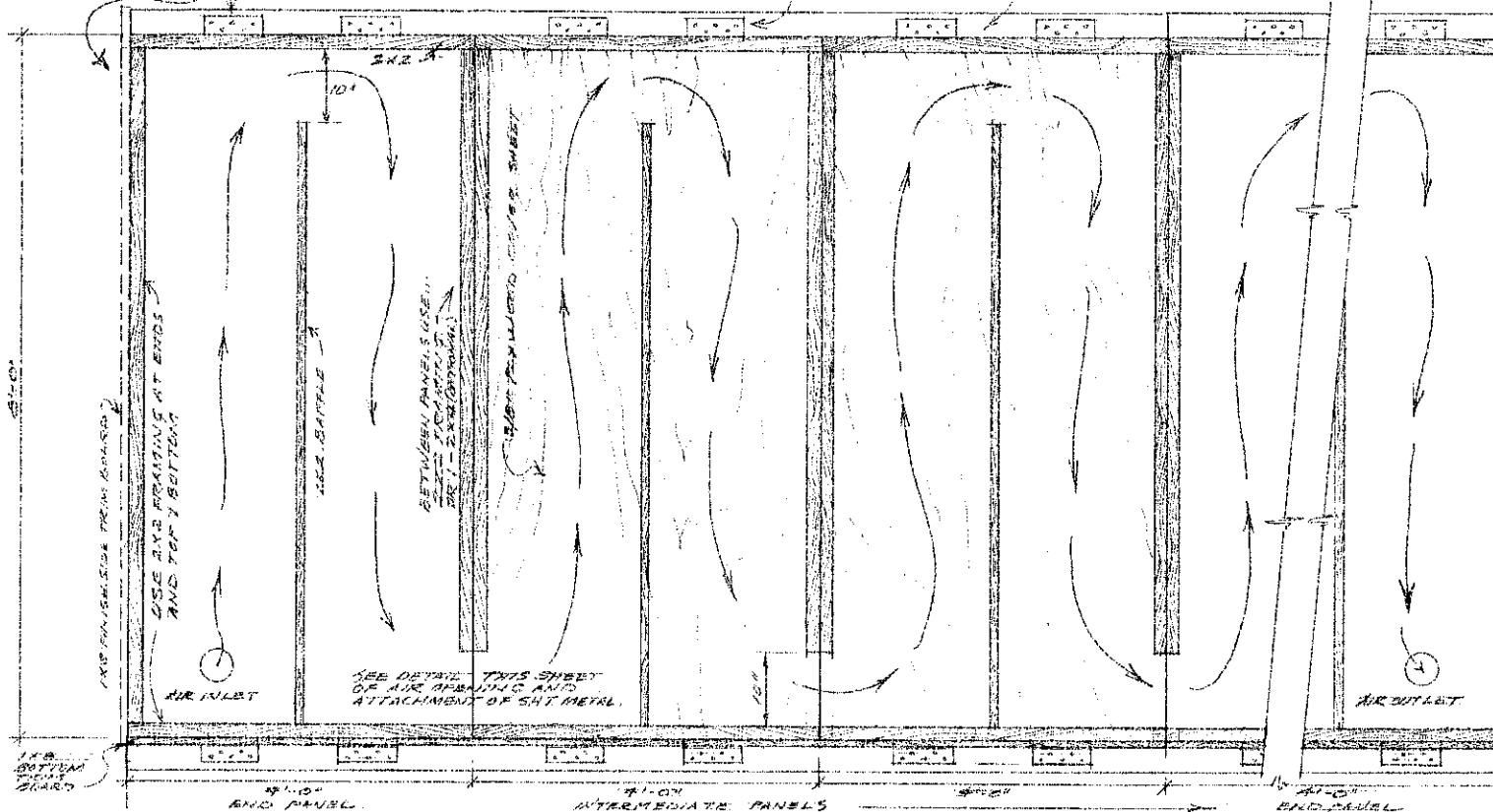
PREPARED BY

KANSAS STATE UNIVERSITY EXTENSION AG. ENGR. DEPT.		
DATE	APPROVED BY	DRAWING NUMBER
APR. '81	LAMBERT, VOGEL PROFESSOR OF MECHANICAL ENGINEERING	547-1 OF 3



**NOTE: COMMIT SUMMER WARM AIR VENT
FOR MULTIPLE UNITS. HOWEVER, A PLYWOOD
COVER OR HEAVY WHITE CANVAS SHOULD BE USED
TO PREVENT
OVER HEATING.) (3" X 6", 16 GA. GALV. METAL MOUNTING BRACKETS.)**

2X 4 TOP & BOTTOM SUPPORTS: USE 12' LONG FOR 3'-4' UNITS. ADD ADDITIONAL LENGTH AS NEEDED.



LIST OF MATERIALS FOR 3-PANEL UNIT . . . KNOB SPRUCE, PINE, FIR, HEMLOCK OR REDWOOD
3' X 7' X 9' AS FLYWOOD, INTERIOR C-C GRADE (INT WITH EXT GLUE), OR EXT C-C GRADE
EXTERIOR 9' X 11' X 8' 6" PINE OR HEMLOCK (FRAMING MEMBERS)

- 2.. 2'X2' KIZL AVG. OR 2'X2'X8' (OR 2'X2'X2X8') AND 2'.. 2'X4'X6') FRAMING.
 3.. 1'X2'X3' DRAFFLE BOARDS
 1'X1' LATTICE FOR FRAMING BETWEEN GLAZING LAYERS (GR. 4.. 1'X2'X12', 4.. 1'X2'X8', 4.. 1'X4'X8'
 2.. 1'X2'X1'1/2"X12 AND 4.. 1'1/2"X1'1/2"X8' THE TRIM BOARDS (COPPER STOPPERS LATTICE)
 OPTIONAL TOP TRIM... USE 2.. 1'X2'X12', AND ALL 1'X2'X8'.
 2.. 1'X1'X8' 1'-1'X8'X1', AND 1'X1'X1'1/2" REDWOOD TIMBERS (TOP, BOTTOM & SIDES)
 PLATE 4.. 1'X12' FIR OR REDWOOD (TOP AND BOTTOM SUPPORTS)
 3.. 1'X2'X6' X 1'X12' KG. GALV. SHEET METAL (COLLECTOR PLATE)
 6.. 4'X6' SHEETS OF GLAZING MATERIAL (SEE TYPES BELOW)
 6.. 24"X36" STRIPS OF 3/4" FIBERGLASS INSULATION (1/80 SF/FT) SEE SH. 2 FOR CAUTION NOTE.
 1.. 2 FT. OF 4" DUCT PIPE. 1-1/2" ELBOW, EITHER ALUM. OR GALV. METAL.
 ONE SHEET / FOR DETAILS OF PLEXIGLASS, APPROX. 1'X5' 4'15' IS NEEDED.

... "DAYTON" BLOWER, NO. 40C4061, 140 CFM, S.P. (OPTIONAL THERMOSTATIC CONTROLS.)
12IN. 18 GA. 3/8" X 3" X 8" MOUNTING BRACKETS
EACH W/C. 3/16" R.H. WOOD SCREWS OR ST. METAL SCREWS (MOUNTING BRACKET SCREWS)
1/4 IN. VELVET TUBES OF PLIABLE SILICONE SEALANT (CONDUCTIVE JERMA RESISTANCE OF 1500)
1/4 IN. DIA. EACH OF WOOD MINIMER AND HI-HEAT RESISTANT OR ABSORBENT PAINT (FLAT BLACK)
LARGE QTY OF TOP-COAT EXTERIOR FINISH (GUL BASE OR LATEX) OR REDWOOD STAIN FOR A
NATURAL WOOD FINISH. USE 2 TO 4 COATS OF MAHOGANY VARNISH.
2 LBS. EACH OF 3/4" X 1/2" BUSH NAILS AND 1 LB. EACH OF 3/8" X 1" GOLF FIN. NAILS.
1/2 IN. DIAMETER RUMBER SEAL SCREWS (PASSED 3RD LAYER OF GLAZING TO STICKER BLOCKS)
3 IN. X 4" X 8" Q.C. INT. WITH EFT. GLUE PLYWOOD FOR SUMMER COVER.
100 SQ.FT. TINNING SHEET.

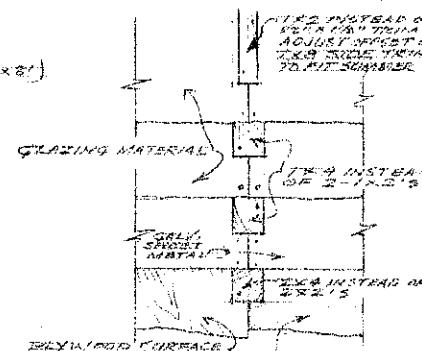
TYPES OF GLAZING MATERIALS

- 1050 THICKNESS, 1/8" LITE PREMIUM E, REINFORCED FIBERGLASS
MATERIAL, NO. 1000, 100% GLASS, MADE IN A ROLL, SOLAR
DIVISION, AMERICAN MANCHESTER, NEW HAMPSHIRE, C3105,
3MM FLEXIGLASS™ 1/8" THICKNESS, CLEAR PROTECTIVE PLATE,
* FILON™ 1/8" THICKNESS, FLEXIBLE PLASTIC.

IS MADE WITH
TYPES OF HEAT RESISTANT PAINTS. INTENDS
• "DURESTO" BAKELITE, FLAT BLACK, #H-64
• FULLER CARBON FAST DRY, BLACK (STEAM PAN)
• 3M EPOXY, #E-62, 200 DEG. 2 HOURS DRYING
• LONG LIFE BLACK TOP COAT
• OTHER BRANDS ACCEPTABLE IF MIN. 215° TEMP. RESIST.
SUGGESTED CALL ALEX.

ALTERNATE LUMBER USE & JOINT BETWEEN PANELS

~~162 PHOTOFOL
NIGHT AND DAY
ADJUSTMENT
TESTS
FOR TELEVISION
TRANSMISSION~~



NOTE: INFORMATION GIVEN HEREIN IS FOR EDUCATIONAL PURPOSES. REFERENCE TO COMMERCIAL PRODUCTS OR TRADE NAME IS MADE WITH NO DISCRIMINATION INTENDED AND NO ENDORSEMENT BY THE A.I.C. COOPERATIVE.
EX. P.H.-64 EXTENSION SEDUCE A
ACK (SP-64 DAN) AGE, ENG., DEPT. IS
CONTINUING PAPER IMPLIED.
1.215° TEMP. RESIST.

۷۸۰

CONSTRUCTION AND POSITIONING IS DEPICTED
BY THE STEP ON SHEET 2.
BUILD EACH UNIT SEPARATELY AND
MOUNT TO A BUILDING WALL FOLLOWING
EACH STEP CAREFULLY. LENGTH
OF TOP AND BOTTOM SUPPORTS WILL
BE DETERMINED BY THE NUMBER
OF PANELS DESIRED.

THE DRAWINGS ON THIS SHEET INDICATE CONSTRUCTION STAGE AT STEP TWO SET UP, SHOWING THE PLYWOOD BASE AND THE 2X2 FRAMING ATTACHED WITH ALL SPACES SHOWN IN THEIR PROPER LOCATION.

**PARTS SHOULD BE BOLTED TOGETHER AT STEP 3 CONSTRUCTION STAGE.
USE 3 - 1/4 X 2" BOLTS WITH WASHERS.
DRILL HOLES IN 1/4", 1/2" FRONT,
TOP AND BOTTOM, AND AT CENTER.**

BE SURE TO LAY SEALANT BEAD AT JOINT BETWEEN PANELS JUST BEFORE THE FRAMING IS ATTACHED TO FLYWOOD SURFACE.

SEE SHEET 1 FOR DETAILS OF
COOL AIR INLET AND WARM AIR
OUTLET. SEE PAN SIZE GUIDE
BELOW.

FAIR SIZE Gold

DAYTONS S.P.
BLISTER CUT HOSE
1 PANEL 140 ftm \$ 20610
2 TO 3 PANELS . 148 ftm \$ 40446
4 TO 6 PANELS . 160 ftm \$ 70821

BALL SWEEPING SIZE / PLENTY OF GROWTH			
EARLIER SIZE	INLET	OUTLET	ADV. OVER
190.6 cm.	"	"	3" HOLE
148.6 cm.	"	"	3" HOLE
350 cm.	"	"	5" HOLE

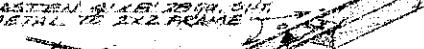
AIR OPENING BETWEEN PANELS DETAIL

ANAL 3" x 12" STRIN' G
2P. GR. 3/4 EGT. MEYER
PIZZA 72" THERM. ING.



APPLY VITREOUS
SEALANT AROUND
EDGES OF OPENING
AND ON THE SURFACE
OF INSULATED STRIP.

~~THE
EASTERN RAILROAD CO.
METAL TO 2x2 FRAME~~



**RIVETS
OR SHEET METAL
SCREWS SHOULD BE
USED TO FASTEN SHEET
METAL LAYERS TOGETHER
TO PREVENT AIR LEAKS.**

PROCEEDED TO STEP 5, FASTEN 152-2123-
BRAMMING TO SHEET METAL SURFACE.

4-85 INITIATED 301 AR PANE

NDI PLAN #819-8-1		SCALE 1:1000	DRAWN BY F. COGGETTE JR.
			REVISED
PREPARED BY NDSU EXTENSION AG. ENGR. DEPTT.			
GATE	APPROVED BY	LAMBERT VOGEL	DRAWING NUMBER SHT. 3 OF 3
APR '81			