

GENERAL

Select a level, well-drained site near water and electricity.
Treat base with two coats of a copper naphthenate wood preservative.
Screw anchors into ground, slot base and tighten anchor to base.

FRAME

Use construction grade fir.
Paint frame with an exterior white paint.
Doors can be placed in one or both end walls.

COVERING

For year-round use, two layers of plastic should be used.
For spring and fall use, single layer is sufficient.
To reduce labor or replacing plastic, a 4-5 year ultraviolet resistant vinyl plastic should be used on the outside.
Inner layer can be polyethylene and can be attached with either batten strips or 3/8" staples over heavy twine.

WALKS AND BENCHES

A center walk of stones or bricks laid in sand can be added after the greenhouse is built.
Benches 30-32 inches high and treated with a copper naphthenate wood preservative can be added for convenience.

VENTILATION

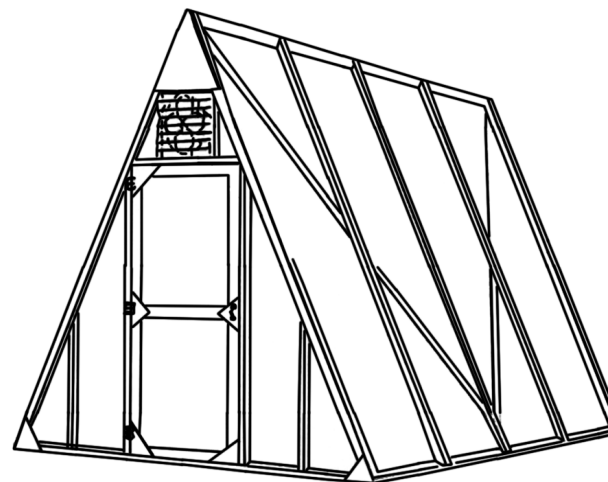
A 10-inch diameter fan with automatic louver and thermostat should be placed above door on one end wall.
Locate a 10- or 12-inch intake louver above door on opposite end wall.
Place thermostat along side wall near plant level.

HEAT

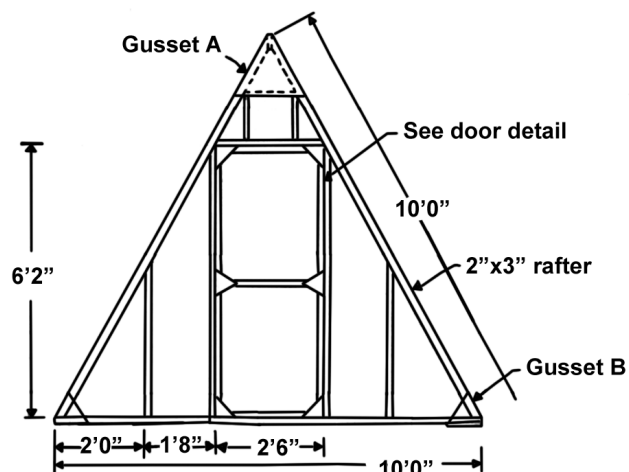
Heat may be supplied from the home heating system or from a separate heater. Output required can be obtained from the following table.

Minimum Outside Temperature	Single Layer Plastic BTU/Hr.			Double Layer Plastic BTU/Hr.		
	30°	20°	10°	0°	-10°	50°
	6800	10200	13600	17000	20400	60°
	10200	13600	17000	20400	23800	70°
	13600	17000	20400	23800	27100	80°
	17000	20400	23800	27100	30500	90°
	20400	23800	27100	30500	33900	100°
	23800	27100	30500	33900	37300	110°
	27100	30500	33900	37300	40700	120°
	30500	33900	37300	40700	44100	130°
	33900	37300	40700	44100	47500	140°
	37300	40700	44100	47500	50900	150°
	40700	44100	47500	50900	54300	160°
	44100	47500	50900	54300	57700	170°
	47500	50900	54300	57700	61100	180°
	50900	54300	57700	61100	64500	190°
	54300	57700	61100	64500	67900	200°
	57700	61100	64500	67900	71300	210°
	61100	64500	67900	71300	74700	220°
	64500	67900	71300	74700	78100	230°
	67900	71300	74700	78100	81500	240°
	71300	74700	78100	81500	84900	250°
	74700	78100	81500	84900	88300	260°
	78100	81500	84900	88300	91700	270°
	81500	84900	88300	91700	95100	280°
	84900	88300	91700	95100	98500	290°
	88300	91700	95100	98500	101900	300°
	91700	95100	98500	101900	105300	310°
	95100	98500	101900	105300	108700	320°
	98500	101900	105300	108700	112100	330°
	101900	105300	108700	112100	115500	340°
	105300	108700	112100	115500	118900	350°
	108700	112100	115500	118900	122300	360°

Minimum Inside Temperature

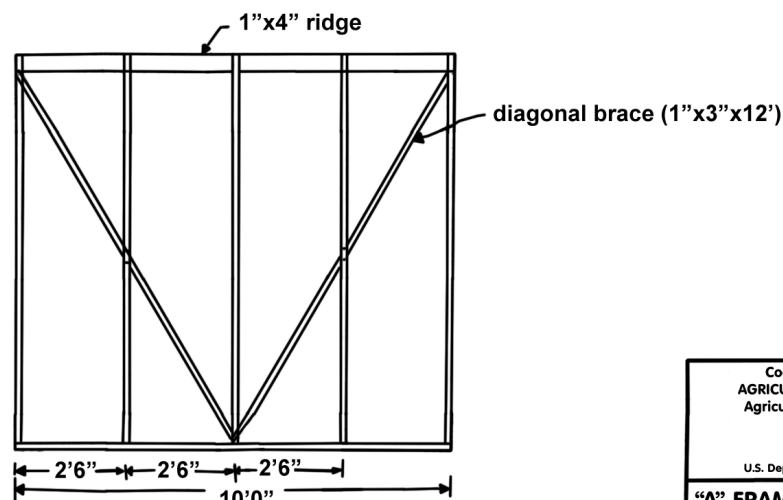


PERSPECTIVE



END VIEW

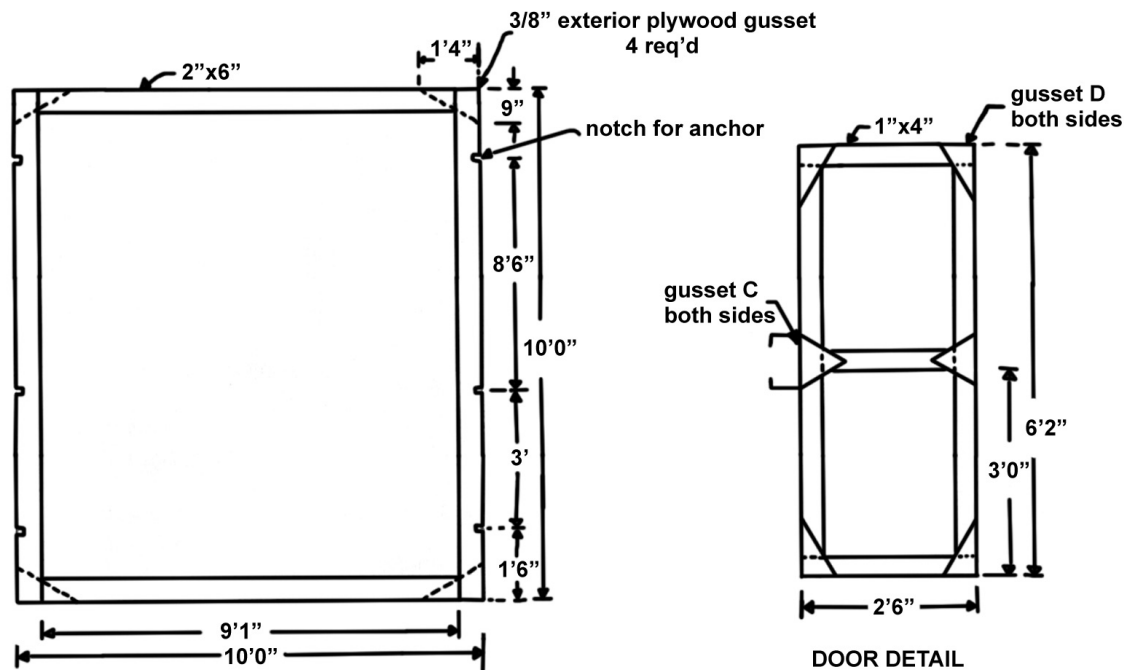
Scale: 1/2" = 1'0"



SIDE VIEW

Scale: 1/2" = 1'0"

Cooperative Extension Work in AGRICULTURE AND HOME ECONOMICS Agricultural Engineering Department University of Connecticut Storrs, Connecticut and the U.S. Department of Agriculture cooperating		
"A" FRAME HOME GREENHOUSE		
Dr by JWB	Ck by REP	Sheet 1 of 2
Scale shown	Date 7-3-67	Plan 238

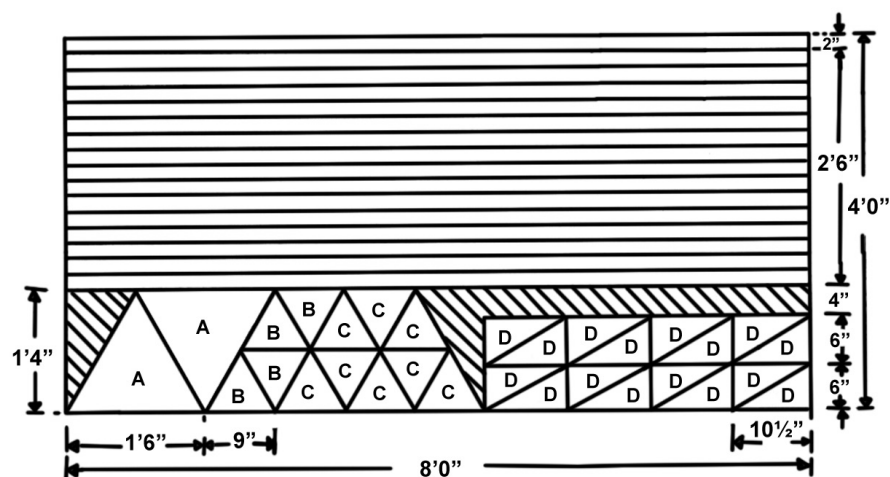


BASE DETAIL
Scale: $\frac{1}{2}$ " = 1'0"

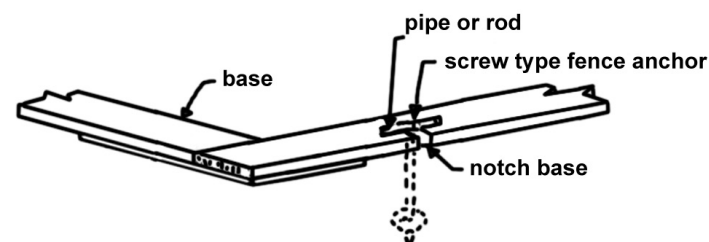
DOOR DETAIL
Scale: $\frac{3}{4}$ " = 1'0"

BILL OF MATERIALS

Quantity	Item	Location
4 pcs	2"x6"x10'	base
15 pcs	2"x3"x10'	rafters, end walls & door frames
7 pcs	1"x4"x10'	ridge & doors
4 pcs	1"x3"x12'	diagonal brace
2 shts	4'x8'x1/4" ext. plywood	batten strips & gussets
3 pr.	3" steel butt hinges	door
1/2 gal.	copper naphthenate wood preservative	base
1 gal	white exterior paint	all framework
6	3" dia. x 15" lg. screw type fence anchors	tie down
2	door latches	door
70'	50" wide x 8 mil poly-vinyl w/ultraviolet inhibitor	outside covering
1 pc	10'x35'x4 mil polyethylene	inside covering
3 lbs	4d common nails	
1 lb	8d common nails	



PLYWOOD CUTTING DIAGRAM
Scale: 1" = 1'0"



ANCHOR INSTALLATION
No scale

NOTE: Use $\frac{1}{4}$ " exterior plywood
Cut 1 sheet into 2" strips 8' long as shown

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Dr by JWB	Ck by REP	Sheet 2 of 2
Scale SHOWN	Date: 7-3-67	Plan: 238