

APPENDIX GREENHOUSES

RECOMMENDED MATERIALS - COVERS

TYPE OF MATERIAL	SEASONAL	YEAR--ROUND
Soft, pliable, plastic mesh, poly mesh	Yes	OK for Hoop House
Polyvinyl	Yes	No
Polycarbonate or Acrylic Panels	No	Yes
Safety Glass	No	Yes

RECOMMENDED MATERIALS – FRAMES

TYPE OF MATERIAL	SEASONAL	YEAR--ROUND
Bamboo, rope or twine, wire, light steel, light aluminum	Yes	No
PVC Tubes	Yes	Yes (rigid)
Powder coated aluminum, steel	Yes	Yes
Wood	No	Yes

CONSTRUCTION METHOD – CONNECTIONS (Panels to Frame)

Type of connection effects ease of assembly and disassembly and the structure's ability to withstand winds and other external conditions (heavy and sustained snowfall, tsunamis, earthquakes, hell freezing over).

Threaded connections: such screws, bolts - durable but take time to assemble and disassemble.

Unthreaded connections

- Frame built with channels that hold rigid panels. Correct assembly essential. Not as easy to disassemble but possible
- Plastic zip ties – suitable for some portables
- Staples –not recommended except for very temporary PPEs
- Rope or twine can be used with some PPEs – *(especially if it fits the Japanese esthetic preferred by the author of this appendix)*

ANCHORING - Greenhouses, whether seasonal or year-round, need to be anchored against wind and extreme weather

Pre-set anchorable frames - Some greenhouse kits come with pre-drilled holes/fitting for anchoring the unit to the ground. User usually need to provide staples/spikes and, in our case, these need to be long enough to penetrate gravel and hardpacked ground.

Oversized cover margins - Manufactured greenhouse kits that have a unified, soft cover (vinyl or plastic mesh) leave a large margin at the bottoms over which user could place a variety of weights. For example: soil, bricks, rocks, 4 x 4 blocks or lengths of pressure treated wood that would, in turn, be drilled for spikes.

Concrete post holds

GREENHOUSE HEATERS

Examples that meet safety standards



BIO GREEN Programmable Electric Greenhouse Heater.

Method: Fan and forced air.

Easily heats spaces up to 120 Sq ft.

Digital Winter thermostat (110 V)

UL -Approved

External sensor cable to measure ambient GH temperature

Stainless steel housing, floor standing with display x 4 splash-proof.

Stainless steel heat elements

5118 BTU/ 1500 W heating output

Durable fan with bearings made for humid environments

Power source type: corded electric

(LOOKING FOR OTHER HEATERS TO INCLUDE AS EXAMPLES)

SUGGESTED GREENHOUSES *for illustration and discussion only. There are many available sizes, styles, and quality of greenhouses and other substantial PPEs available.*

GREENHOUSES FOR SEASONAL USE (factoring ease of assembly, disassembly, and choices)

EAGLE CREEK POP-UP

Sizes Available: 6'x4', 6'x8', 9'x4', 10' x 5', 12'x 8' , (all 7.4' high)
Colors: Green, White, Woven White



Internal frame. Easily assembled and disassembled.
Zippered roll-up doors and windows. Stable and Sturdy With Steel ceiling roof, the construction of this greenhouse is rigid and durable.
Oversized margins allow weighted anchoring

KING BIRD MINI

Size: 73" x 37" x 59"
Color: White



mini greenhouse, heavy duty powder-coated steel frame, 2 zippered screen doors 4 screen windows, tall garden plant hot green house, 8 stakes 4 ropes,

GREENHOUSES SUITABLE FOR YEAR-ROUND USE

JULY SONG

Size: 6' x 8' (48 square ft)



Rigid polycarbonate panels
Powder coated aluminum frame
Window and door
According to manufacturer, this greenhouse is suitable for Winter

VEIKOU

Size: 6' x 10' (60 square ft)



walk-in greenhouse,
upgraded rigid polycarbonate panels
outdoors with
vent,
heavy duty greenhouse for winters,
powder-coated aluminum frame,
grey

HOOP HOUSES – FOR EITHER SEASONAL or YEAR-ROUND USE

EAGLE PEAK HOOP HOUSE

Sizes: 10 x 6.6 x 6.6 ft / 13 x 6.6 x 6.6 ft.
Colors: White, Green (66 sq ft; 85 sq ft)



Galvanized steel pipe frame that is 15/16in diameter. diagonal cross braces will withstand wind, snow and rain.

Three-layer laminated PE film cover with a reinforcement grid in the middle for improved strength and tear resistance.

Roll-up Zipper Door & Mesh Windows:

Extended Cover Design: The extra-long cover includes ground flaps can be covered with soil, mulch, rocks, bricks or lumber to help keep the cover tight against the ground. This helps prevent wind from blowing underneath, but also discourages pests such as rabbits and squirrels.

QUICKTENT HOOP HOUSE

Size: 12 x 7 x 7 (84 sq. ft)
Color: White, Green



Doors on each side of this greenhouse, plus mesh doors, can keep out small "annoyers" and get ventilated; one PE cover door keeps warm.

heavy duty steel frame is used which could make the whole product more stable, even in bad weather. easy to assemble and perfect for family use. 8 Bases and 16 Ground Staples are for stability and increase the resistance ability of rain and wind.

Heavy duty 2 layers PE cover with reinforcement mesh into it.

Overlong cover allows user to can bury it into soil, or use brick, sandbag or other weights around sides to enhance the stability.