

40' x 100' Aquaponics Greenhouse

Material List

- Roof: (25) 4' x 24' 16mm ThermoClear Plus Softlite
 (24) 24' Base & Cap (Roof Corner - Overhang Advised)
 (13) 16mm U-Profiles.
- South Wall: (25) 4' x 6' 16mm ThermoClear Plus Clear or Softlite
 (6) 24' Base & Cap (26) 16mm U-Profile (2) Corner
- Gable Walls: (2) 4' x 14' 16mm ThermoClear Plus Clear or Softlite
 (2) 4' x 13' 16mm ThermoClear Plus Clear or Softlite
 (2) 4' x 12' 16mm ThermoClear Plus Clear or Softlite
 (2) 4' x 10' 16mm ThermoClear Plus Clear or Softlite
 (2) 4' x 9' 16mm ThermoClear Plus Clear or Softlite
 (2) 4' x 8' 16mm ThermoClear Plus Clear or Softlite
 (4) 24' Base & Cap (18) 16mm U-Profiles
- Hdwr. (4) Bags of screws (1) Roll Alum Tape -
 Spacers (as needed if blocking)
 (1) Roll 3" or 6" Flashing Tape (6) Tubes Silicone

Note: Plan is typical design. Your needs & design may vary.

Designs are typical, very basic plans.

Print design then enter materials in one of the Online Quote & Order Forms. Simply select polycarbonate type and aluminum color, then fill out the form.

Thank you, quoting online helps us keep prices low, while quality remains high.

Aquaponics is a type of sustainable agriculture that blends aquaculture with hydroponics, benefiting both plants and fish. Waste from fish is used by plants as fertilizer, cleaning water for the fish. Clean water is then returned to the fish, beginning a new cycle.

Basics 25% of area for fish farm, on north side of building, good ventilation, divider blinds or curtains to control sunlight, resulting in control of algae growth.

Cold Climates: 25mm Clear X-Wall on roof gives high R-value, 58% light, less framing. 16mm Softlite on wall diffuses light, increases plant growth, offsetting reduced roof light transmission. Both are Longlife Plus.

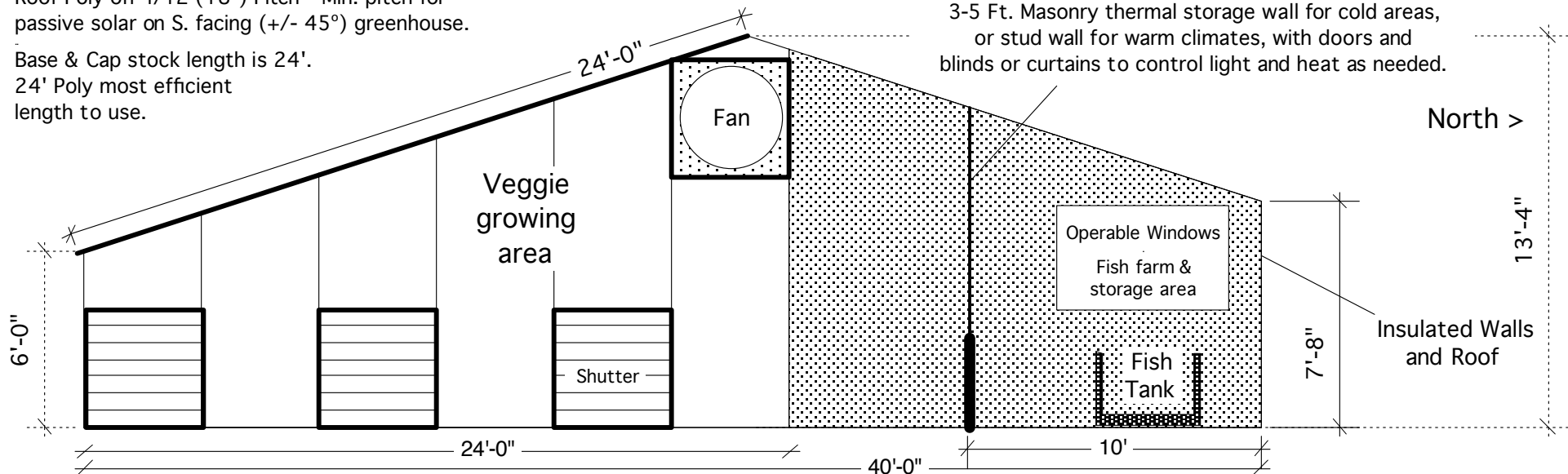
South Wall shown as 6 ft. high to minimize cubic ft. of interior space to be heated and cooled. Plant height may be effected in this one area.

Note: A heat recovery ventilator (that exhausts stale, moist air, extracts a high % of heat and draws in dryer air) placed in the fish farm area, is a wise addition.

Note: U-Profiles to go around fan, shutters & door not incl. Also, the list is tight, you may want to add extras of some items. Foam tape advised on roof and gable ends to reduce expansion noise. 4 boxes of 6 rolls required. 3 if only on the roof.

Roof Poly on 4/12 (18°) Pitch - Min. pitch for passive solar on S. facing (+/- 45°) greenhouse.

Base & Cap stock length is 24'.
 24' Poly most efficient length to use.



Note: Dimensions approximate. Framing Guide has Base & Cap System Layout. Fan high on one end, inlet shutters low on opposite end. Poly: Softlite diffuses light, great for plants, use on at least roof. 16mm reduces condensation and heat loss. ThClear Plus Longlife wise investment.