THE VESTA™

CERES
GREENHOUSE SOLUTIONS®

Grow food from the comfort of your home.

Ceres new kit house is leading the way in energy efficient kit home design. The goal of the Vesta™ is to provide you with a self heating, food producing home that is affordable to purchase, fast to construct, low maintenance and beautifully designed.

LIVE ABUNDANTLY.
LIVE GREENER.

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WHY CERES VESTA™?

Passive House Inspired

- Energy-efficient
- Strategic overhangs shade windows in summer and allow for sunlight and warmth to enter in winter
- Shared wall windows between greenhouse and house can vent to allow heat into home

Highly Insulated

- 4" Insulated Metal Panels for walls (R-32)
- 6" panels for roof (R-49)
- Insulation wraps around exterior of framing- no thermal bridging and no "weak spots" in insulation

A Greenhouse for Food & Heat

- Attached greenhouse designed as place to relax, grow food, and act as supplemental heating for home
- Roof designed to accommodate solar panels and create shaded transition area/mud room before entering main house

Ease of Construction

- No framing to cut, minimal material waste, and ready to build
- Easy to order and fast to construct

The goal of The Vesta™ is to take much of the headache out of the construction process while supplying a home that is more affordable and will outperform most custom built structures.

FLEXIBLE LIVING SPACE

Pictured here is a sample layout. We have designed The Vesta™ to be adaptable and customizable to the needs and desires of the homebuyer.

Ceres recommends hiring a local architect to assist with custom interior layouts and permit submission.

SMART & EFFICIENT

AUTOMATED CONTROLLER

The Ceres designed Vesta™ controller makes the highly efficient structure a truly smart home. The controller works as a standard thermostat to control your HVAC equipment, while also controlling greenhouse exhaust fans, heat, supplemental lighting and shading if desired. The controller can open and close strategic windows to move heat from the greenhouse into the main house on cooler days, and can open upper clerestory windows for cooling when needed on warmer days.

BEYOND NET ZERO

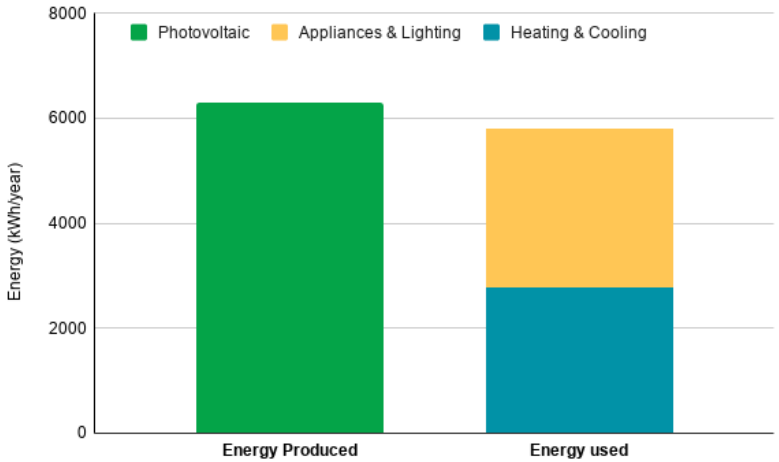
Greenhouse
Passive heating, daylighting, & additional insulation

Heat/Energy Recovery Ventilator
"Recycling" inside conditioned air for conditioned fresh air

Tight Building Envelope
Minimal involuntary air exchanges reduces heat loss

Ventilation
Operable windows & smart controls for precisely timed venting, minimizing mechanical cooling needs

109% OF YOUR ENERGY NEEDS WITH PHOTOVOLTAIC



**Disclaimer - Energy model is for Vesta™ - 960ft²*
PV system size 4 kW - Energy offset prediction PVwatts.net, energy model in Denver, CO
Accounts for Energy Star appliances average energy consumption for two people, and will vary

SPECIFICATIONS FOR VESTA™:

- 24x40 house layout (includes 1 pre-designed floor plan)
- 12x40 attached greenhouse/mudroom
- Galvanized structural steel for greenhouse & house
- Steel I-beam construction consists of 4"x 4" columns and 4"x 4" roof rafters spaced every 10' feet
- 4 exterior doors
- 24 vinyl windows for greenhouse & house
- Exhaust & circulation fan kit for greenhouse
- Stamped structural drawings, construction drawings
- Pre-engineered for 65psf snow & 110 mph wind load
- Optional Upgrade: pre-engineered insulated raft slab with radiant air heat

ATTACHED GREENHOUSE

South wall glazing consists of non coated insulated double pane windows, greenhouse roof glazing is 16mm polycarbonate (insulation value R-2.5). Other roof glazing options are available.

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SPECIFICATIONS FOR VESTA+™ :

- 24x40 house layout (includes 1 pre-designed floor plan)
- 14ft x 40ft second story loft with framing
- 12x40 attached greenhouse/mudroom
- Galvanized structural steel for greenhouse & house
- Steel I-beam construction consists of 4"x 4" columns and 4"x 8" roof rafters spaced every 10' feet
- 4 exterior doors
- 28 vinyl windows for greenhouse & house
- Exhaust & circulation fan kit for greenhouse
- Stamped structural drawings, construction drawings
- Pre-engineered for 65psf snow & 110 mph wind load
- Optional Upgrade: pre-engineered insulated raft slab with radiant air heat

ATTACHED GREENHOUSE

South wall glazing consists of non coated insulated double pane windows, greenhouse roof glazing is 16mm polycarbonate (insulation value R-2.5). Other roof glazing options are available.

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DESIGN TO YOUR TASTE

We leave the layout and design to you. Customize your Vesta™ or Vesta+™ to your own style.

Ceres does not provide interior design. That way every homeowner has the option of designing to their liking.

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