

Timothy Parks Construction, Inc.

Bingham Dome

941-270-2677

www.tprci.net

Conceive, Believe & Achieve!

HVAC equipment:

A 5-ton unit seems to be what we need. We want two output levels and a 2-stage scroll type compressor. The indoor cooling coil must be matched to the outdoor unit. We are told that a round outdoor unit is less efficient than one with flat coils. Lennox xc-21 and Carrier Infinity appear to have high SEER ratings and excellent humidity control. We also want R-410-A.

We would like to see options for dehumidifiers, air filtering and outside ventilation systems. We are interested in the effectiveness of American Aldes ERV200S, Lennox ERV1, Therma-stor Ultra-Aire and Ultimateair RecoupAerator 200DX.

Main ductwork will run through a dropped ceiling and branches through the floor of the loft. We want the air handler near the center of the garage wall, near the ceiling. The main return vent is to be in the front hallway under the air handler. Ducts need not be insulated, they are in conditioned area.

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ROOF- I got this from Dennis at NSD:

Dome area	5040 sf
less skylights and extensions	<u>- 670 sf</u>
	4370 sf
plus 25% for overlap and cutoff	+1100 sf
plus extension roofs	<u>+ 400 sf</u>
	5870 sf
Estimated Total	59 squares

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INCLUDED IN DOME KIT:

struts and connector hardware; exterior sheathing (precut) and perimeter drip edge; triangle skylights #1-16; Velux egress skylights #17 and #18; stainless steel nails and fasteners;
riser walls (36" base of dome- studs, hardware and exterior sheathing);
extension arches (part of the exterior frame of the extensions).

NOT INCLUDED:

Bolts, epoxy, caulking, strapping to secure shell to riser walls to foundation.
Extension framing (except arches provided) and exterior sheathing.
All roofing materials, self adhering waterproof membrane on entire shell and extensions.
All interior framing, floors, hardware, caulking, etc.
Windows and doors listed below.

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WINDOW AND DOOR SPECS

TRIANGLE SKYLIGHTS ARE ALREADY BOUGHT

.....
#19 and #20 14" round sun tunnels

#21 21" round sun tunnel

clear, impact resistant

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#22 and # 23 casement windows upstairs in the front extension:

EGRESS

3553E, rough opening= 36" x 4' 6"

Low-E insulated glass, impact resistant

ALL DOORS PAINTABLE FIBERGLASS

PLAIN-NO PANELS, NO TEXTURE

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24 Front entry door:

36" fiberglass with wood frame

inswing, rough opening= 5' 6-3/4" x 6' 10"

full light rectangular decorative glass, impact resistant

with 2 sidelights, full size obscured glass, impact resistant, insulated

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25 Patio doors in bedroom:

7281, vinyl, white

rough opening= 6' 0" x 6' 8-5/8"

Hurricane shield impact resistant

Low-e insulating glass with argon

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26 Dome room- west:

36" fiberglass with wood frame

3' 2-1/4" x 6' 10"

no glass

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27 Mudroom to kitchen:

36" fiberglass with wood frame

3' 2-1/4" x 6' 10"

no glass

.....
28 Mudroom to outside:

36" fiberglass with wood frame

3' 2-1/4" x 6' 10"

1/2 light, Low-E insulated clear glass with argon, impact resistant

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29 mudroom to garage:

36"

3' 2-1/4" x 6' 9-1/4"

20 minute labeled panel with 20 minute rated wood frame