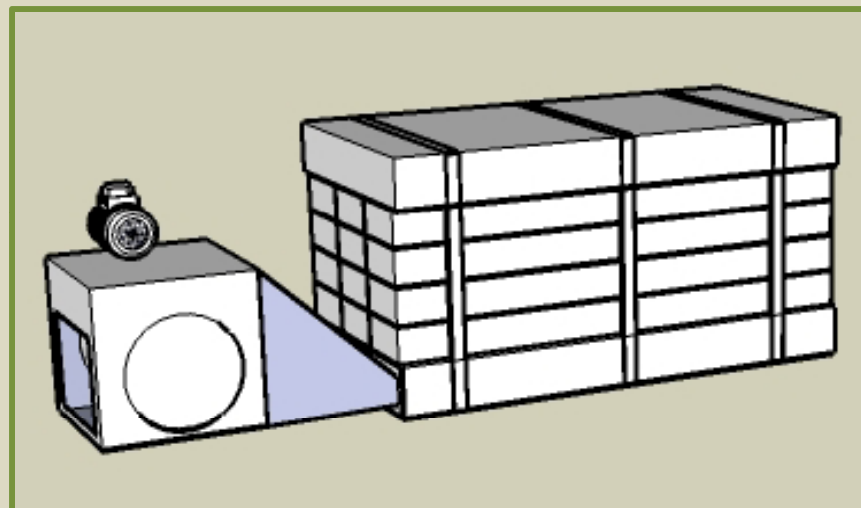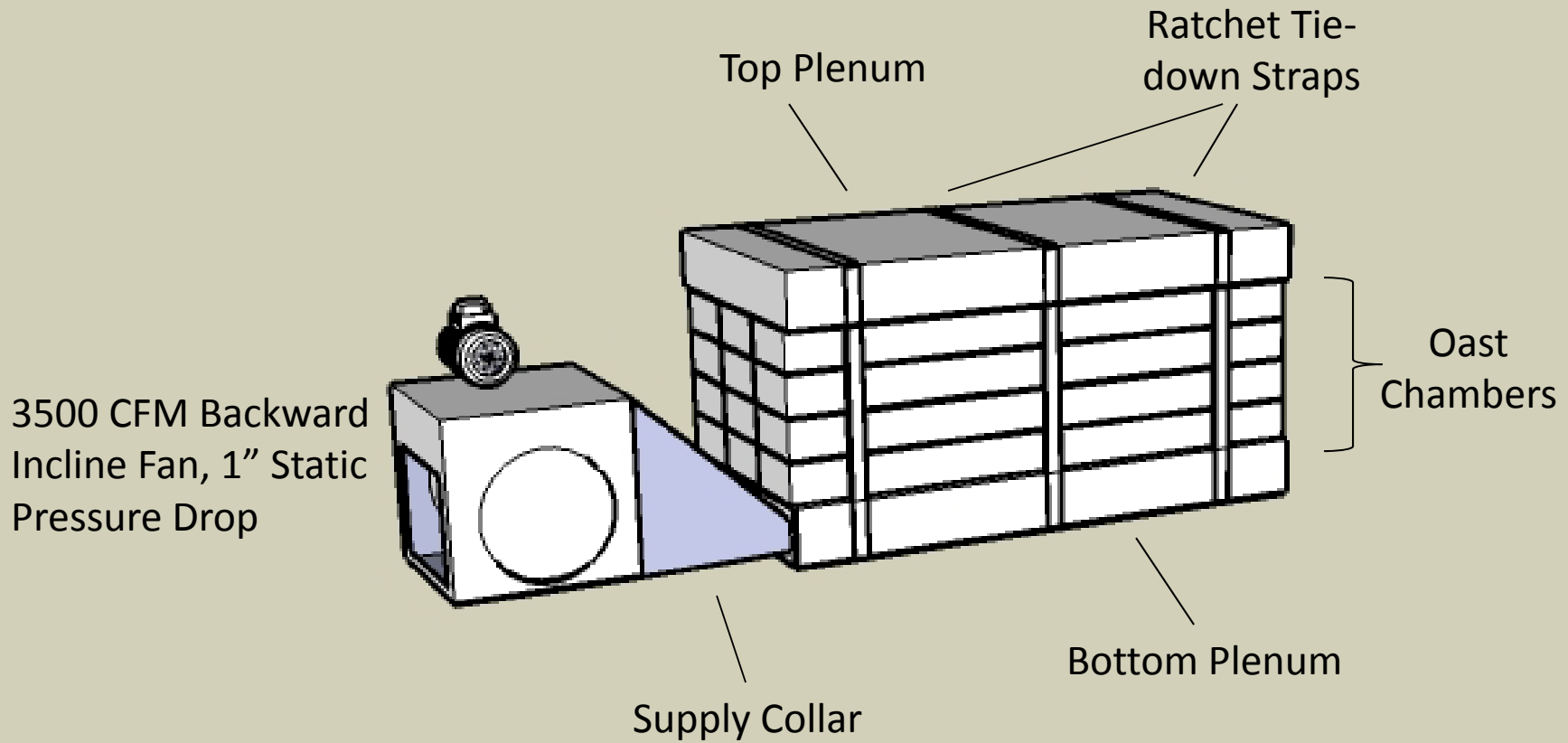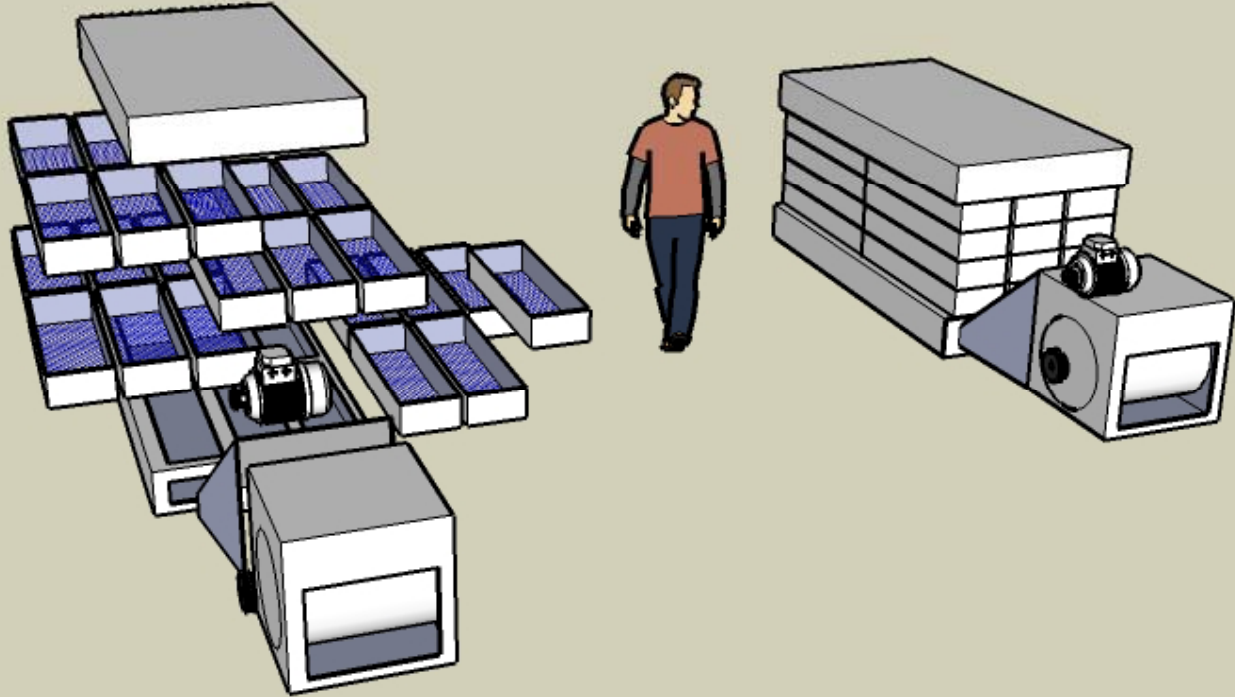# OAST DESIGN OVERVIEW

- **24 chamber modular oast**
  - 24 individual 15"x48"x7.5" bins
  - 60 cubic ft capacity
- **Single speed, manual adjust fan**
  - Single phase reverse incline fan
  - 3500 CFM, 1" static pressure
- **Pull-through Air Flow**
  - Prevents bed fluidizing
  - Eliminates "blow holes"
- **Ease of Loading and Unloading**
  - Harvested hops can be placed directly into oast bins
  - Eliminates the need for costly multiple handling steps

GENERAL DESCRIPTION
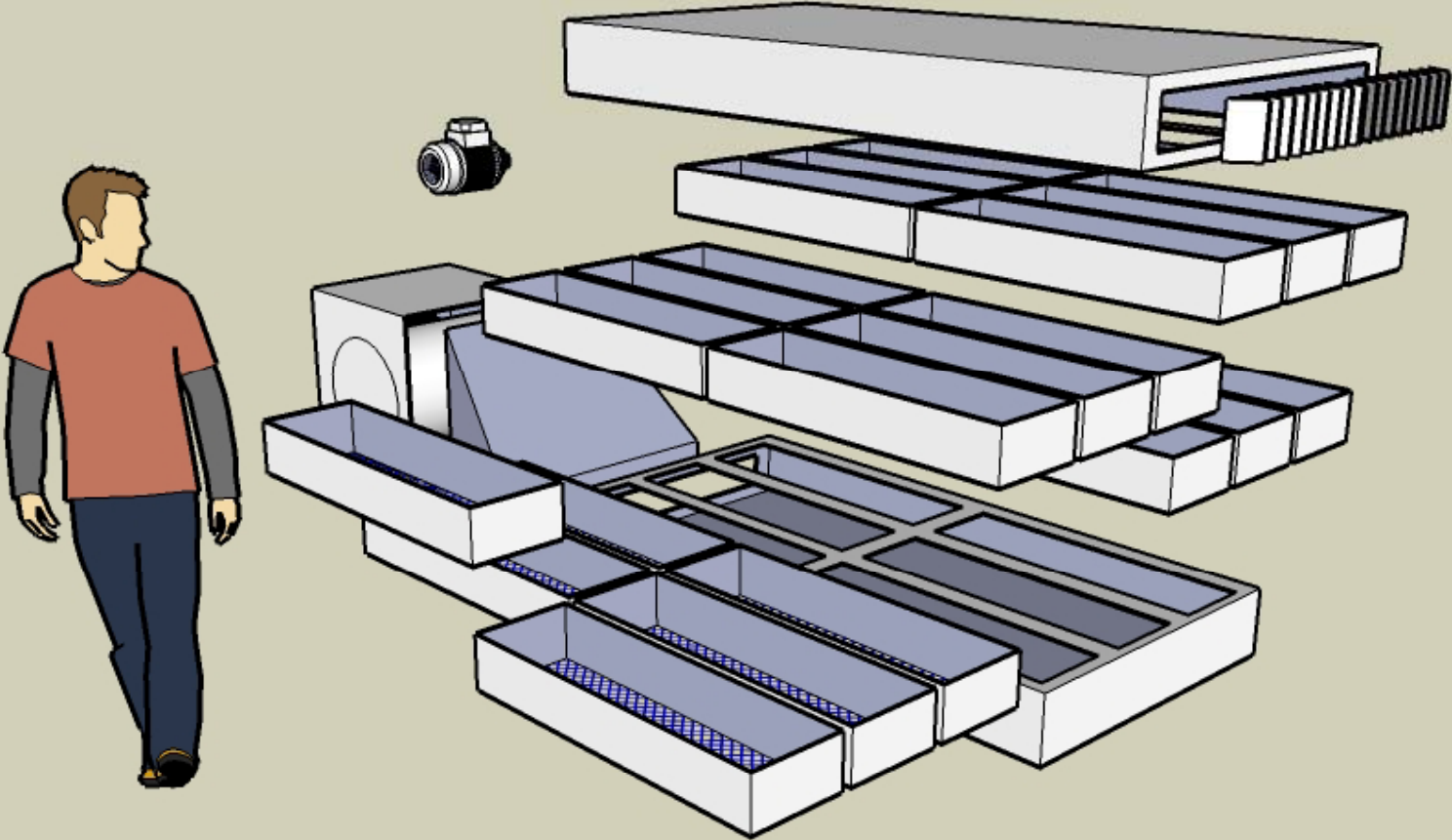
OAST DESIGN RENDERINGS

Top Plenum

Ratchet Tie-down Straps

3500 CFM Backward Incline Fan, 1" Static Pressure Drop

Oast Chambers

Supply Collar

Bottom Plenum

Gorst Valley HOPS

GENERAL DESCRIPTION

OAST DESIGN RENDERINGS

EXPLODED VIEW 1

OAST DESIGN RENDERINGS
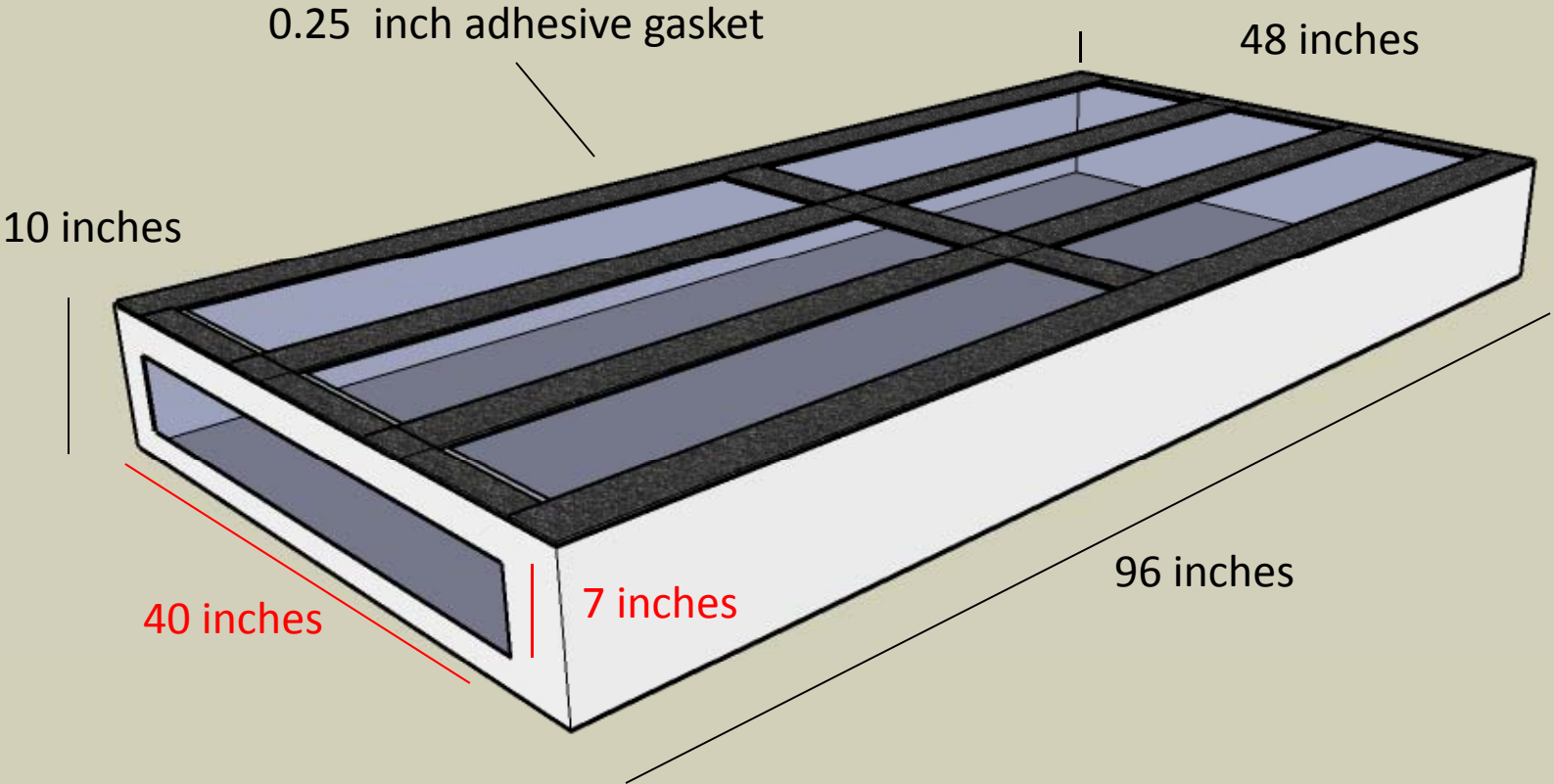
Gorst Valley HOPS

EXPLODED VIEW 2

OAST DESIGN OVERVIEW

Plenum Materials

- Covered tubular framework or rigid materials capable of withstanding compression load
- Wood structure should be lined with cleanable material such as fiberglass panels, polyethylene, aluminum/stainless steel
- Midpoint reinforcement shall be strong enough to maintain structural integrity without restricting airflow
- Side opening shall be constructed with a lip to which the air supply cowl may be attached
- Adhesive gasket material (closed-cell type) shall be attached to the plenum top to create a seal between the plenum and the chambers
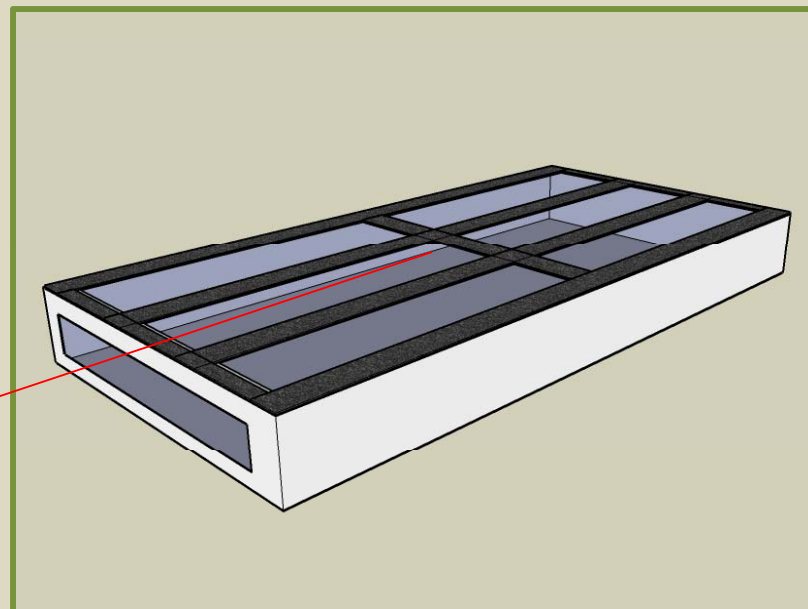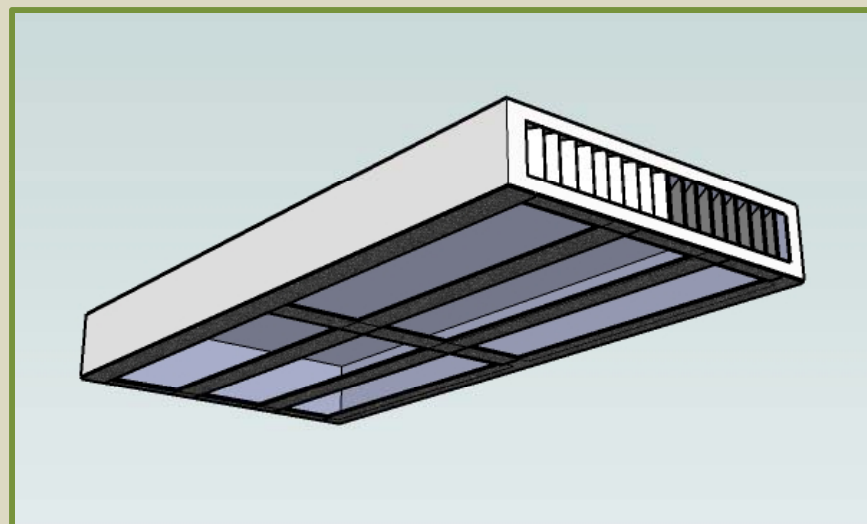
GENERAL DESCRIPTION

OAST DESIGN MEASUREMENTS

0.25 inch adhesive gasket

48 inches
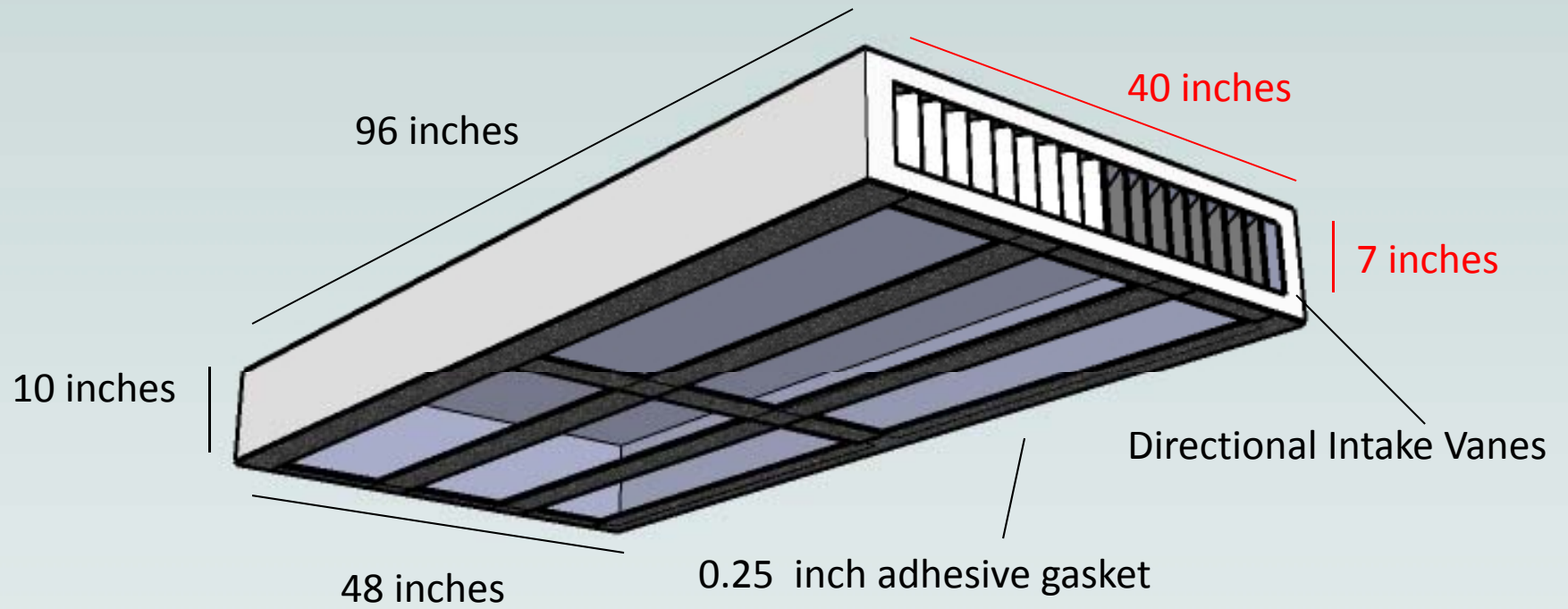
10 inches

96 inches

7 inches

40 inches

BOTTOM PLENUM

OAST DESIGN OVERVIEW

Plenum Materials

- Top plenum shall be constructed of the same material and manner as the bottom plenum
- Top plenum also contains a vane-controlled air inlet to allow for some measure of directional airflow control
- Vanes shall be constructed of lightweight yet rigid material such as corrugated polyethylene, PVC, or similar material.

GENERAL DESCRIPTION

OAST DESIGN MEASUREMENTS

96 inches

40 inches

7 inches

10 inches

Directional Intake Vanes

48 inches

0.25 inch adhesive gasket
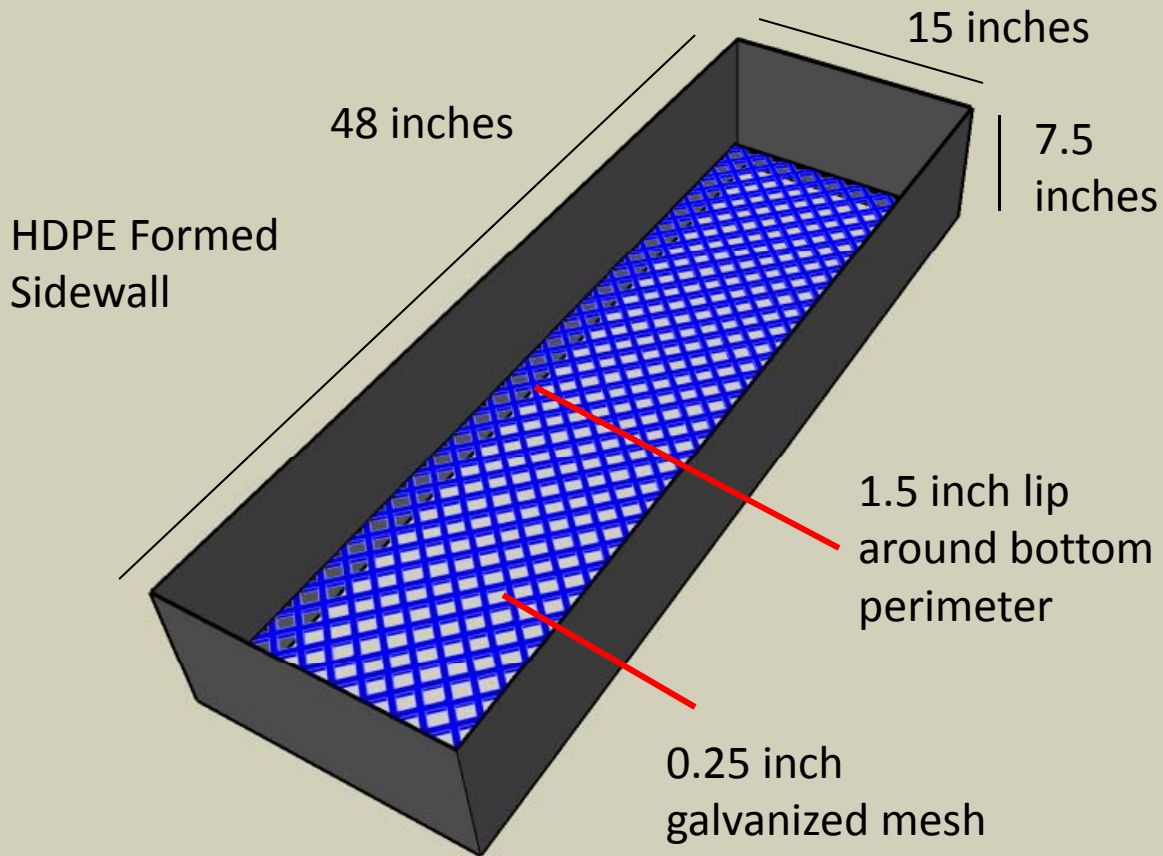
Gorst Valley HOPS

TOP PLENUM

OAST DESIGN OVERVIEW

Chamber Materials

 • Polyethylene, PVC, or other non-corrosive, food-grade material

 • Oast designed to utilize off-the-shelf straight walled stacking containers

 • Pictured, as-built, **Buckhorn Straight Wall Container Solid 48x15X7-1/2**

 • Available via Global Industrial Supply part # WG269086

 • Requires bottom to be removed and replaced with ¼-inch galvanized mesh (see detail)

GENERAL DESCRIPTION

OAST DESIGN MEASUREMENTS

15 inches

48 inches

7.5 inches

HDPE Formed Sidewall

1.5 inch lip around bottom perimeter

0.25 inch galvanized mesh

Gorst Valley HOPS

OAST COMPARTMENT SPECIFICS