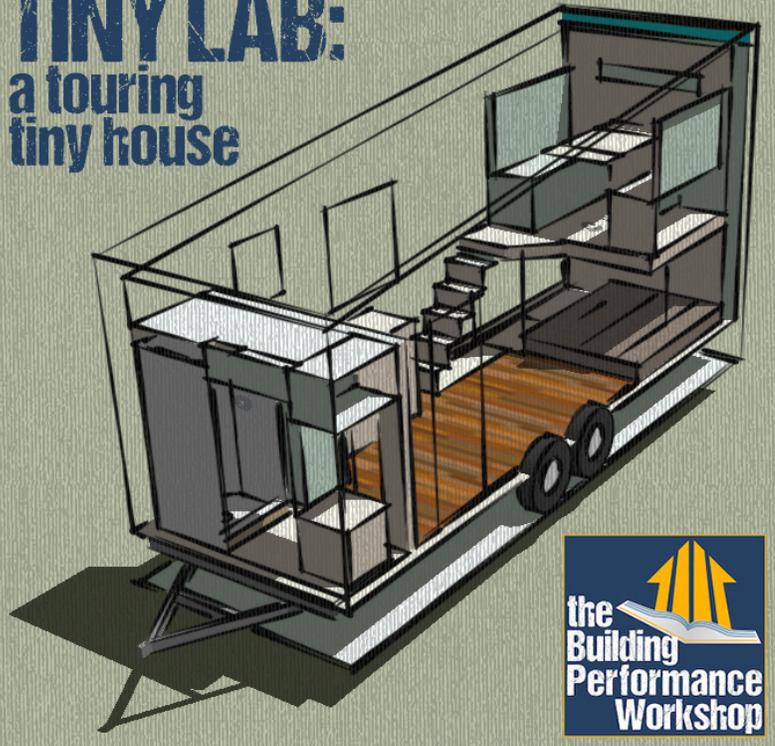
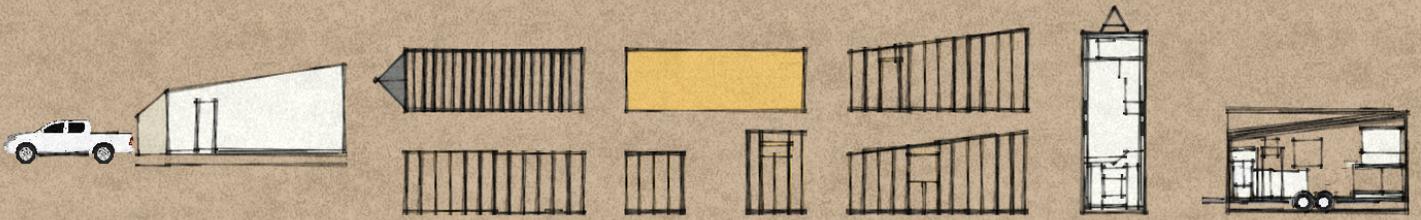


# TINY LAB: a touring tiny house



When this touring tiny house comes to 16 cities across the U.S., local homeowners and building pros will see what measured home performance can do for their own homes.

## WHAT MAKES THE TINY LAB *SPECIAL*?



These partners are helping us build the Tiny Lab and show the era of big data what data about our homes can do:



**Panasonic**  
Ventilation

**onset**  
HOBO® Data Loggers

**PureBond.**  
HARDWOOD PLYWOOD

**KNAUF INSULATION**

**retrotec**

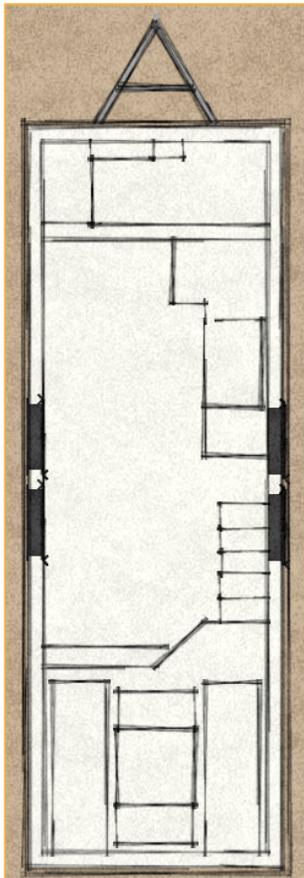
**RAB**  
LIGHTING

**MITSUBISHI**  
**ELECTRIC**  
Cooling and Heating Solutions

**hp** **HEWLETT®**  
**PACKARD**

**FLIR**

DESIGNED, BUILT, AND VERIFIED WITH CLEAR QUALITY TARGETS IN MIND. THERE'S A NEW STANDARD FOR PROOF IN HOME IMPROVEMENTS AND CONSTRUCTION.



## CONTAMINANTS: MINIMIZED

Only **zero-VOC materials** and products will be installed, for control of the air quality for breathing AND for consistent chemical integrity of the components. Particulates and VOC levels tested and tracked.

## FRESH AIR VENTILATION: BALANCED & INTELLIGENT

Stale air is exhausted, fresh air brought in, in perfect **equilibrium** and perfect **measure**, at the perfect **locations**. Airflows/pressures tested, and indoor humidity tracked.

## STRUCTURE: SUPER DURABLE

The Tiny Lab will withstand **earthquakes and hurricanes simultaneously** while traveling- it's engineered to exceed all building codes in the U.S., AND be as lightweight and aerodynamic as possible.

## ENCLOSURE: AIRTIGHT & INSULATED RIGHT

**Advanced framing** techniques and the latest efficient **sealing and insulation** materials will be employed to guarantee comfort control. Infrared thermal photography & blower door testing performed, and temperature/moisture levels inside walls will be tracked.

## HEATING & COOLING: CALCULATED & CRAFTED

We know exactly how much conditioning the house needs, so we can install equipment that's a **perfect fit** for our performance goals.

## DESIGN & AESTHETICS: CALCULATED FOR LUXURY

Aside from all questions about measured performance, the house will be a **showpiece** for the best that modern homes have to offer, with space-efficiency in mind. Through careful lighting design and unique solar and plumbing solutions, visitors will not have the impression of frugality- quite the opposite- our audiences will wish they could live here too!

Design Loads (kBtu/hr)	
Heating	4.8
Cooling	3.8
Annual Loads (MMBtu/yr)	
Heating	4.2
Cooling	3.8
Water Heating	8.3
Annual Consumption (MMBtu/yr)	
Heating	5.2
Cooling	1.0
Water Heating	10.4
Lights and App...	9.3
Photovoltaics	-1.1
Total	24.8
Annual Energy Costs (\$/yr)	
Heating	51
Cooling	23
Water Heating	0
Lights and App...	172
Photovoltaics	-26
Service Charge	108
Total	328

