

Sustainable Doghouse Challenge Rules

PURPOSE & OBJECTIVE

The object of this challenge is to design and build an innovative, creative, and functional doghouse with sustainable and resilient design aspects. The doghouse should incorporate innovations and sustainability that will both enhance and better the living environment for a medium-sized dog.

BACKGROUND & JUDGING

Each team will design and build a functional doghouse prior to the Sustainable Doghouse Challenge Showcase. The finished doghouses will be displayed at the challenge site. In addition, each team will present their doghouse design to the judges prior to scoring (see the “Technical Presentations” section for more information).

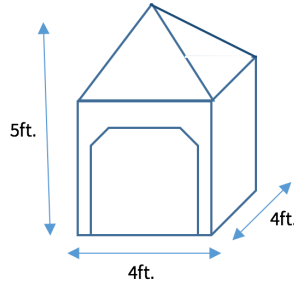
- Teams shall consist of no more than five (5) team members, one (1) of which may be a graduate student.
- All teams must have their doghouses and presentations complete by **April 17th, 2017 at 12pm**. Late teams may be subject to disqualification.
- Each team will drop off their doghouse at **XX** location on the university campus. Event staff will help teams transport the doghouse to the showcase site; however, teams should plan their delivery accordingly. We cannot loan or rent out trucks.
- Each team will deliver a presentation to the judges on the day of the challenge showcase. See the “Technical Presentations” section below.
- The doghouses will be judged and scored on creativity, innovation, functionality, practicality, and sustainability. Suggestions for sustainable designs are detailed in the “Sustainable Design” section.
- The challenge will be judged by four (4) judges chosen from a mix of faculty, staff, and community members. An additional non-human canine judge will be chosen who will “judge” on a more subjective scale and rubric.

TECHNICAL REQUIREMENTS

All doghouses must adhere to the following technical requirements below. See diagram A for a visual guide.

- Should be created for a medium-sized dog (40-50 pounds).
- Must fit within a 4-foot-by-4-foot area.
- Should not exceed five (5) feet in height.
- Should not exceed 60 pounds in weight.
- Should contain a visible sign or plaque that clearly states the university and team name.
- Power supply will not be provided on the challenge site. If needed, your power supply must fit within the specified dimensions listed above.
- Should not exceed a budget of \$100. A budget sheet that lists all materials should be submitted the day of the challenge.
 - Creative use of recycled, repurposed, or scrap materials is highly encouraged.

- Materials that are potentially toxic (e.g. lead-based interior paint) are prohibited.



SUSTAINABLE DESIGN

Examples of sustainable and resilient design qualities include, but are not limited to the following:

- Energy efficiency:
 - Renewable energy
 - Light fixtures
 - Daylighting
 - Insulation/heating
- Water efficiency:
 - Roof/gutter rainwater collection
 - Green roofs
 - Indoor water delivery and/or filtration technologies
- Comfortability:
 - Padded flooring
 - Air filtration/circulation
- Material sourcing:
 - Repurposed/recycled materials
 - Locally sourced materials (cost savings from traditional materials)
 - Durability/long-term use
 - Recyclability

TECHNICAL PRESENTATIONS

Each team will be required to create a brief presentation detailing their doghouse design. The purpose of the presentation is to showcase the best qualities of each doghouse and explain why different sustainable and resilient design qualities were chosen. You may choose any medium to present your design (e.g. PowerPoint, Prezi, poster board, etc.).

- Your team will receive 10 minutes to present their design to the judges.
- Your team will receive 5 minutes of Q&A.
- Your team should address the following key points during your presentation:
 - What materials did your team choose? What qualities made these materials better than other materials? Are they locally sourced?
 - How does the combination of different sustainable design aspect culminate to provide the best living environment for a medium-sized dog?
 - Does your design reflect the geographic environment of your team's home area?

PRIZES & AWARDS

The top three teams will receive awards and recognition based on the highest total points accumulated for each team. The highest winning team will have their doghouse showcased and recognized during the *Green Generation Sustainability Mixer* at the Earl Burns Miller Japanese Garden on **April 20th, 2017**. Each team may receive monetary awards based on the following prize tiers:

- 1st place: \$250
- 2nd place: \$150
- 3rd place: \$100

Important note about cash prizes: Cash prizes may be given out in cash, check, or gift card form depending on University disbursement policies. We are not responsible for any dispute regarding prize dispersal.

DISQUALIFICATIONS

Your team may be disqualified from the challenge and showcase for the following reasons:

- If you team purchases a pre-fabricated doghouse or utilizes a similar commercial design.
- If you team fails to present during the judging period.
- If you team fails to drop off the doghouse at the appropriate time and location.

SAMPLE DESIGNS

Sample designs from other local doghouse challenges have been provided. Note: these doghouses are made for larger-sized dogs.



Photo credit: University of Alabama, College of Engineering: Civil Construction & Environment



Photo credit: University of Arizona, PSWC 2015

SCHEDULE & DEADLINES

Note: The following schedule and deadlines are subject to change. We will announce changes prior to any deadlines.

SCORING RUBRIC

Note: The following rubric below is a sample scoring guide provided by the judges. The judges will use a modified rubric from the one provided, which contains the same categories and point total. The main differences between the sample rubric and judging rubric is a comment box for each category and judging evaluation summary.

SCORING SHEET

Organization Name: _____

Team Members: _____

Scoring Categories	Score
Aesthetics & Design – scored by aesthetic appearance determined by judges.	/15
Comfortable & Climate – scored by “roominess” and interior air temperature measurements in afternoon sun.	/10
Cost-effectiveness – lowest budgets will receive 10 points, next 9 points, and so forth (budget sheet required).	/10
Presentation – scored by how effective teams explain their doghouse design and features in less than 10 minutes.	/15
Sustainability – scored by sustainable design features as explained by team.	/30
Resiliency – scored by structural weight test and hose spray test.	/20
Creativity bonus – up to 5 extra points may be added for creative use of materials or innovation	/5
Sub-total	/100

Penalties	Points Deducted
Exceeds dimensions (4'x4' area)	-15
Exceeds weight (60 lbs.)	-15
Exceeds budget (\$100)	-15
Late submission	-10
Sub-total	

Penalty sub-total	
Bonus sub-total	
Total points	

