

Product

Category	Exceeds Standard (400 points)	Meets Standard (300 points)	Partially Meets Standard (200 points)	Does Not Meet Standard (100 points)	Score
Design Criteria and Constraints 15%	Building satisfies all specified design criteria including:	Building satisfies 5 or 6 of the specified design criteria .	Building satisfies 3 or 4 of the specified design criteria .	Building satisfies 1 or 2 of the specified design criteria .	_____ X 15% = _____
	Criteria: _____ sun is only source of energy _____ incorporates recycled materials _____ total volume is 200 ft ³ or greater _____ \$500 or less budget (documented) _____ 6 ft ² glazing (window) minimum _____ door through which a judge can enter _____ a 6 ft pole will not touch ceiling anywhere		Notes:		
Construction Quality 20%	Outstanding accuracy (e.g. building parts plumb and square, joinery); has few or no imperfections ; effective and innovative use of materials; durable ; and high degree of utility after contest.	Accuracy (e.g. building parts plumb and square, joinery); has few imperfections ; effective and/or innovative use of materials; durable ; and high degree of utility after contest.	Some accuracy (e.g. some building parts plumb and square, joinery); has some imperfections ; some effective or innovative uses of materials; moderately durable ; and some degree of utility after contest.	Limited accuracy (e.g. few building parts plumb and square, joinery); several imperfections ; limited effectiveness or innovative use of materials; limited durability ; and limited degree of utility after contest.	_____ X 20% = _____
	Notes:				
Maximum Heat Gain 5%	Building has highest temperature over 24 hour period compared to competition.	Building temperature is 80% or greater of the highest building temperature reached in competition.	Building temperature is between 60-79% of the highest building temperature reached in competition.	Building temperature is less than 60% of the highest building temperature reached in competition.	_____ X 5 % = _____
Minimum Heat Loss 5%	Building has highest minimum temperature over 24 hour period compared to competition.	Building temperature is 80% or greater of the highest minimum building temperature reached in competition.	Building temperature is between 60-79% of the highest minimum building temperature reached in competition.	Building temperature is less than 60% of the highest minimum building temperature reached in competition.	_____ X 5 % = _____
Building Efficiency 15%	Building is the most heat efficient building. (Efficiency determined by the rate of heat gain compared to rate of heat loss.)	Building is within 80-99% of heat efficient as the most efficient building.	Building is within 60-79% of heat efficient as the most efficient building.	Building is less than 60% of heat efficient as the most efficient building.	_____ X 15% = _____

Product Subtotal: _____

Process

Category	Exceeds Standard (400 points)	Meets Standard (300 points)	Partially Meets Standard (200 points)	Does Not Meet Standard (100 points)	Score
Technological Design Process 30%	Outstanding, organized, and multiple forms evidence showing the use the technological design process.	Clear and complete evidence showing the use of the technological design process.	Some evidence showing the use of the technological design process.	Limited evidence showing the use of the technological design process.	_____ X 30% = _____
	Documentation artifacts: (e.g., Engineer's notebook, photos, video) _____ research (including pertinent science and math concepts) _____ brainstorming _____ mock ups and scale models _____ construction of prototype _____ redesign plans of prototype (if done)		Notes:		
Presentation 10%	Effective and engaging presentation involving: _____ multiple presenters _____ multiple media that enhance delivery of content _____ clear and concise	Complete presentation involving: _____ multiple presenters _____ media that enhances delivery	Presentation involving: _____ a few presenters _____ some media	Presentation involving: _____ a presenter _____ little or no media	_____ X 10% = _____
	Presentation conveys: _____ process steps team took during design and construction _____ problems and failures encountered _____ recommendations for redesigning the building _____ how design element(s) might be used in other structures or settings.		Notes:		

Comments:

Process Subtotal: _____
Produce Subtotal: _____
Collaboration* bonus points: _____
Total: _____

*Maximum 50 points; based on documentation (e.g. meeting notes, emails, log of phone conversations, videos, blogs, etc.)