

Max Wolf 10/15

Solar Oven Performance Index Details

Please submit this form with your team's final report as an Appendix.

Team name: Max Wolf Emmett Clark

Solar Oven cost breakdown:

1. Materials (the first line is an EXAMPLE – do not include it in your total cost!):

Specific material	Amount used	Cost basis	Cost for amount used
EXAMPLE: Graham crackers	8 oz	\$1.79/16 oz	\$0.90
Mylar	1 sheet	\$0.25/sheet	\$0.25
Cardboard	0.47 m ²	\$1.75/m ²	\$0.8225
Black paper	1 sheet	\$0.03/sheet	\$0.03
Al foil	0.38 m ²	\$1.75/m ²	\$0.665
tape			\$0.25
TOTAL MATERIAL COST:	<u>2.017</u>		

2. Transportation cost:

Weight of oven: 0.707 lb

X \$.20/lb = \$0.15

3. Labor cost: fixed at \$5.00 per team

4. **Total oven cost:** add (1) + (2) + (3) = \$7.01

5. Performance Index: T_{ambient} = 25 degrees C

T_{actual} = 135.1 degrees C

Cost-Based PI = 15.7

SOTD PI = 2