



IWA Tiers of Performance Report

Cookstove	Manufacturer	Appropriate Energy Saving Technology Ltd.
	Model	Makaa Stove
Testing Center		MIT D-Lab
Protocol		WBT 4.2.3 (field tests, no low-power)
Fuel Used		AEST Makaa Charcoal Briquettes
Pot Used		5 L aluminum
Test Dates		13-26 January 2014

These results were obtained in accordance with the IWA and the Global Alliance for Clean Cookstoves' reporting requirements.¹ This data and additional supporting data are shared publically through the Stove Performance Inventory.

Signature	
Name	Daniel Sweeney

		Metric	Value	Unit	Sub-Tier
Efficiency/Fuel Use					
Tier	0	High power Thermal Efficiency	12.8	%	0
		Low power Specific Consumption	0.16	MJ/min/l	0
Emissions					
Tier	2	High power CO	33.9	g/MJ _d	0
		Low power CO	-	g/min/l	-
		High power PM 2.5	43.2	mg/MJ _d	3
		Low power PM 2.5	0.44	mg/min/l	4
Indoor emissions					
Tier	2	High power Indoor emissions CO	1.04	g/min	0
		Low power Indoor emissions CO	-	g/min	-
		High power Indoor emissions PM 2.5	1.32	Mg/min	4
		Low power Indoor emissions PM 2.5	-	Mg/min	-
Safety					
Tier	-	Points from 10 weighted safety parameters	-	points	

Tier 0 → Improving Importance → Tier 4

¹ Interim Stove Performance Reporting Requirements: <http://community.cleancookstoves.org/files/318>



Individual Scores for Safety Assessment Criteria

Assessment Criteria	Score (1 – 4)	Multiplier
Sharp Edges and Points		1.5
Cookstove Tipping		3.0
Containment of Fuel		2.5
Obstructions Near Cooking Surface		2.0
Surface Temperature		2.0
Heat Transmission to Surroundings		2.5
Temperature of Operational Construction		2.0
Chimney Shielding		2.5
Flames Surrounding the Cookpot		3.0
Flames/Fuel Exiting Fuel Chamber, Canister, or Pipes		4.0