

April 30, 2021

To: Lisa Morey  
Colorado Earth, LLC.  
PO Box 17281  
Golden, CO 80402

Dear Ms. Morey,

The purpose of this memo is to certify that we have tested your compressed earth block materials in accordance with ASTM C518 using a FOX 200 Heat Flow Meter (TA Instruments). The FOX 200 Heat Flow Meter has the following specifications:

<b>Maximum Sample Thickness</b>	51 mm (2")
<b>Sample Size</b>	204 x 204mm (8 sq. in.)
<b>Temperature Range</b>	-20 °C to 75 °C
<b>Extended Temperature Range Options</b>	-30°C to 95°C
<b>Temperature Resolution</b>	±0.01 °C
<b>Accuracy</b>	±1%
<b>Reproducibility</b>	±0.5%
<b>Thermal Conductivity Range</b>	0.005 to 0.35 W/m K (0.035 to 2.4 BTU in/hr ft <sup>2</sup> °F)
	<b>With FOX 200 External Thermocouple Kit:</b> up to 2.5 W/m K
<b>Proprietary Thin Film</b>	75 mm x 75 mm (3 in)
<b>Heat Flux Transducer</b>	Top and bottom

According to our instrument measurements, the following thermal conductivities were measured for your compressed earth block samples:

Samples Name/Number:	Thermal Conductivity (W/mK)	Mean Temperature (°C)
Control Sample 1	0.305	4.52
Control Sample 2	0.3787	
Control Sample 1	0.3108	10.02
Control Sample 2	0.3802	
Control Sample 1	0.3267	24.02
Control Sample 2	0.3974	
Control Sample 1	0.3411	38.02
Control Sample 2	0.4145	