



# Refractory Heat Loss Analysis

Analyst: \_\_\_\_\_ Company: \_\_\_\_\_ Project: \_\_\_\_\_ Date: 11/10/2014 3:49:24 PM

**Unit:** English  
**Num of Layers:** 3  
**Gas Type:** Air  
**Wall Type:** Vertical  
**Hot Temp:** 1220 °F  
**Cold Temp:** 75 °F  
**Surface Type:** Straight  
**Radius:** NA  
**Convection Type:** Natural  
**Air Velocity:** N/A

L #	Thickness	Refractory Name	Max Lim	Hot Temp	Cold Temp	Avg Temp	H Loss	H Store
1	11.500 in	Inert Dense	3200 °F	1212.7 °F	959.0 °F	1085.9 °F	251 !	130,832 *
2	0.500 in	1800 Micro-porous	1800 °F	959.0 °F	183.9 °F	602.0 °F	251 !	60 *
3	0.250 in	Carbon Steel	1600 °F	183.9 °F	183.8 °F	183.8 °F	251 !	129 *

Locate Temp 1040 °F    Distance at Located Temp 7.8 in    Total 251 !    131,020 \*  
 ! btu/hr/ft<sup>2</sup>    \* btu/ft<sup>2</sup>