



# Refractory Heat Loss Analysis

Analyst:

Company:

Project:

Date: 11/10/2014 3:33:06 PM

**Unit:** English  
**Num of Layers:** 3  
**Gas Type:** Air  
**Wall Type:** Vertical  
**Hot Temp:** 1250 °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	10.000 in	Inert Semi-Insulating	2700 °F	1244.4 °F	885.7 °F	1065.3 °F	203 !	31,927 *
2	2.000 in	1900 Block Ins	1900 °F	885.7 °F	167.0 °F	560.2 °F	203 !	309 *
3	0.250 in	Carbon Steel	1600 °F	167.0 °F	166.8 °F	166.9 °F	203 !	110 *

Locate Temp	950 °F	Distance at Located Temp	8.2 in	Total	203 !	32,346 *
					! btu/hr/ft <sup>2</sup>	* btu/ft <sup>2</sup>