



## Refractory Heat Loss Analysis

Analyst:

Company:

Project:

Date: 11/6/2014 3:03:20 PM

**Unit:** English  
**Num of Layers:** 3  
**Gas Type:** Air  
**Wall Type:** Vertical  
**Hot Temp:** 1325 °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	25.000 in	70% Alumina LCC	3200 °F	1322.2 °F	1063.7 °F	1193.0 °F	114 !	326,114 *
2	5.000 in	1900 Block Ins.	1900 °F	1063.7 °F	132.2 °F	654.5 °F	114 !	924 *
3	1.000 in	Carbon Steel	1600 °F	132.2 °F	131.8 °F	132.0 °F	114 !	284 *

Locate Temp 1080 °F Distance at Located Temp 23.4 in

Total 114 ! 327,322 \*  
! btu/hr/ft<sup>2</sup> \* btu/ft<sup>2</sup>