



## Refractory Heat Loss Analysis

Analyst:

Company:

Project:

Date: 11/6/2014 3:01:46 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	10.000 in	70% Alumina LCC	3200 °F	1321.6 °F	1198.3 °F	1260.0 °F	135 !	138,236 *
2	5.000 in	1900 Block Ins.	1900 °F	1198.3 °F	141.3 °F	737.8 °F	135 !	1,056 *
3	1.000 in	Carbon Steel	1600 °F	141.3 °F	140.8 °F	141.0 °F	135 !	326 *

Locate Temp 1080 °F Distance at Located Temp 10.7 in

Total 135 ! 139,617 \*  
! btu/hr/ft<sup>2</sup> \* btu/ft<sup>2</sup>