



# Refractory Heat Loss Analysis

Analyst:                                          Company:                                          Project:                                          Date: 11/6/2014 3:04:55 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	12.500 in	70% Alumina LCC	3200 °F	1319.5 °F	1068.2 °F	1193.9 °F	221 !	163,189 *
2	2.500 in	1900 Block Ins	1900 °F	1068.2 °F	173.9 °F	675.8 °F	221 !	478 *
3	1.000 in	Carbon Steel	1600 °F	173.9 °F	173.2 °F	173.5 °F	221 !	475 *

Locate Temp    1080 °F    Distance at Located Temp    11.9 in    Total    221 !    164,142 \*  
! btu/hr/ft²    \* btu/ft²