



Refractory Heat Loss Analysis

Analyst:

Company:

Project:

Date: 11/6/2014 3:08:25 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	11.000 in	Inert Semi-Insulating	2700 °F	1319.7 °F	909.3 °F	1114.8 °F	212 !	36,866 *
2	2.000 in	1900 Block Ins	1900 °F	909.3 °F	170.5 °F	576.4 °F	212 !	320 *
3	1.000 in	Carbon Steel 1.0% Carbon	1600 °F	170.5 °F	169.8 °F	170.2 °F	212 !	459 *

Locate Temp 1080 °F Distance at Located Temp 6.4 in

Total 212 ! 37,645 *
! btu/hr/ft² * btu/ft²