



Refractory Heat Loss Analysis

Analyst:

Company:

Project:

Date: 11/10/2014 2:44:19 PM

Unit: English
Num of Layers: 3
Gas Type: Air
Wall Type: Horizontal - Bot
Hot Temp: 1150 °F
Cold Temp: 80 °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	9.000 in	Inert Semi-Insulating	2700 °F	1146.8 °F	988.8 °F	1067.9 °F	100 !	28,811 *
2	6.000 in	1900 Board Ins	1900 °F	988.8 °F	142.9 °F	603.6 °F	100 !	1,232 *
3	0.500 in	Carbon Steel	1600 °F	142.9 °F	142.8 °F	142.8 °F	100 !	165 *

Locate Temp 1090 °F Distance at Located Temp 3.2 in

Total 100 ! 30,208 *
! btu/hr/ft² * btu/ft²