



Refractory Heat Loss Analysis

Analyst:

Company:

Project:

Date: 11/10/2014 4:00:28 PM

Unit: English
Num of Layers: 3
Gas Type: Air
Wall Type: Vertical
Hot Temp: 1220 °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	Inert Dense	3200 °F	1212.4 °F	983.9 °F	1098.3 °F	260 !	115,154 *
2	0.500 in	1800 Micro-porous	1800 °F	983.9 °F	187.0 °F	617.7 °F	260 !	62 *
3	0.250 in	Carbon Steel	1600 °F	187.0 °F	186.8 °F	186.9 °F	260 !	132 *

Locate Temp 1040 °F Distance at Located Temp 7.6 in

Total 260 ! 115,348 *
! btu/hr/ft² * btu/ft²