



Refractory Heat Loss Analysis

Analyst:

Company:

Project:

Date: 11/10/2014 3:55:33 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	1212.0 °F	969.9 °F	1091.0 °F	276 !	114,338 *
2	2.000 in	1900 Board Ins	1900 °F	969.9 °F	192.2 °F	615.5 °F	276 !	419 *
3	0.250 in	Carbon Steel	1600 °F	192.2 °F	192.0 °F	192.1 °F	276 !	138 *

Locate Temp 1040 °F Distance at Located Temp 7.1 in

Total 276 ! 114,895 *
! btu/hr/ft² * btu/ft²