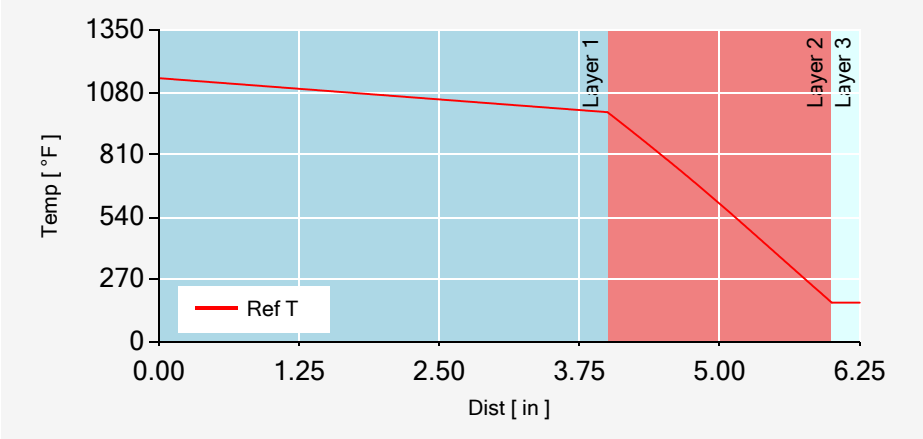

Refractory Heat Loss Analysis

Analyst: Company: Project: Date: 11/10/2014 3:20:04 PM

Unit:	English
Num of Layers:	3
Gas Type:	Air
Wall Type:	Vertical
Hot Temp:	1150 °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	4.000 in	Inert Semi-Insulating	2700 °F	1143.2 °F	995.7 °F	1069.7 °F	209 !	12,827 *
2	2.000 in	2300 LD Board Ins	2300 °F	995.7 °F	169.1 °F	594.6 °F	209 !	393 *
3	0.250 in	Carbon Steel	1600 °F	169.1 °F	169.0 °F	169.0 °F	209 !	112 *

Locate Temp 1060 °F Distance at Located Temp 2.3 in Total 209 ! 13,331 *

! btu/hr/ft² * btu/ft²