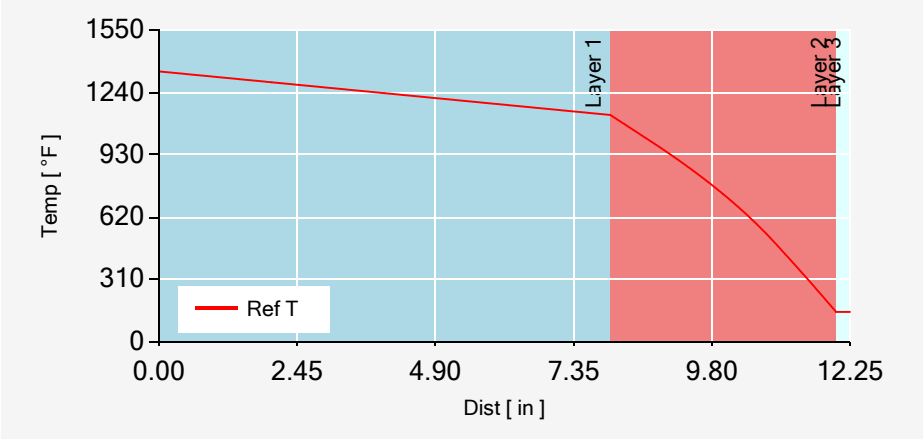

Refractory Heat Loss Analysis

Analyst: Company: Project: Date: 11/10/2014 3:39:56 PM

Unit:	English
Num of Layers:	3
Gas Type:	Air
Wall Type:	Vertical
Hot Temp:	1350 °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	8.000 in	Inert Semi-Insulating	2700 °F	1346.3 °F	1129.3 °F	1237.9 °F	154 !	29,973 *
2	4.000 in	1900 Block Ins	1900 °F	1129.3 °F	148.3 °F	700.7 °F	154 !	797 *
3	0.250 in	Carbon Steel	1600 °F	148.3 °F	148.2 °F	148.2 °F	154 !	88 *

Locate Temp 950 °F Distance at Located Temp 9.0 in Total 154 ! 30,859 *

! btu/hr/ft² * btu/ft²