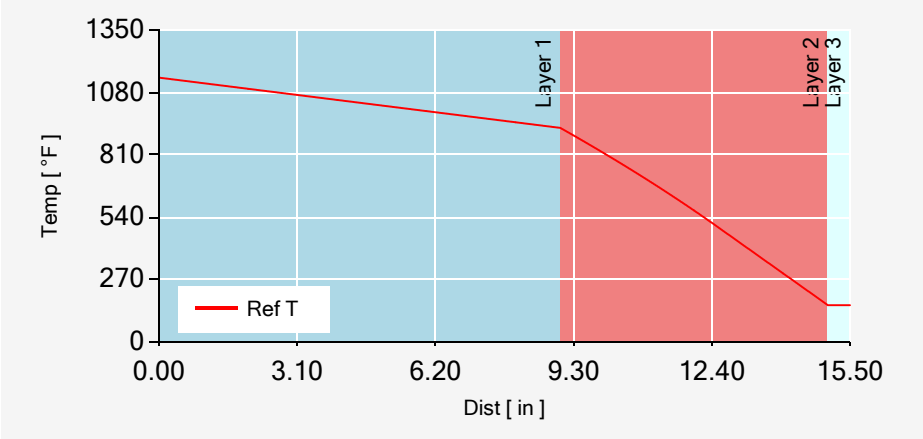

Refractory Heat Loss Analysis

Analyst: Company: Project: Date: 11/10/2014 3:27:56 PM

Unit: English
Num of Layers: 3
Gas Type: Air
Wall Type: Horizontal - Bot
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	9.000 in	Inert Semi-Insulating	2700 °F	1145.6 °F	927.5 °F	1036.7 °F	137 !	27,910 *
2	6.000 in	2300 IFB	2300 °F	927.5 °F	158.5 °F	559.7 °F	137 !	4,524 *
3	0.500 in	Carbon Steel	1600 °F	158.5 °F	158.3 °F	158.4 °F	137 !	200 *

Locate Temp 1060 °F Distance at Located Temp 3.5 in Total 137 ! 32,634 *

! btu/hr/ft² * btu/ft²