



Refractory Heat Loss Analysis

Analyst:

Company:

Project:

Date: 11/10/2014 3:22:38 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	5.000 in	Inert Semi-Insulating	2700 °F	1145.4 °F	1019.4 °F	1082.5 °F	143 !	16,241 *
2	1.000 in	1800 Micro-porous	1800 °F	1019.4 °F	143.9 °F	614.9 °F	143 !	123 *
3	0.250 in	Carbon Steel	1600 °F	143.9 °F	143.8 °F	143.9 °F	143 !	84 *

Locate Temp 1060 °F Distance at Located Temp 3.4 in

Total 143 ! 16,447 *
! btu/hr/ft² * btu/ft²