## SAB Construction 3 Car Westhampton

5 car westnampton			
Air Combustion Calculation			
Per IRC 2018 G2407.5.1			
Fuel Burning Appliance #1	Furnace	100000	Btu/h
Fuel Burning Appliance #2		50000	Btu/h
Fuel Burning Appliance #3		NA	Btu/h
Total Btu/h		150000	Btu/h
Total Bray II		130000	Dta/11
Area of useable space		486	sq.ft
Ceiling height in useable space (no sheetrock)		9	ft
Volumne of space		4374	
Required Volume of Air = total Btu/h * (50 cu.ft/1000 B	tu/h)	7500	cu.ft.
required volume of Air = total Bea/ii (30 ca.i.y 1000 B	ca, ii,	7500	cu.it.
Required Area of Usable Space		834	sq.ft.
Standard Method of Work?		BAD	
Combustion Air Transi	for Grillo		
Combustion Air Transfer Grine			
Per IRC G2407.5.3.1			
Required Opening Free Space = 1 sq.in./1000 Btu/h			
nequired Opening Free Space – 1 sq.iii./ 1000 Btu/ii	=	160	sq.in.
Size of grille to be used	=	(2) 14"x8"	sq.III.
3.25 5. 85 25 25 252		(=) 1 : 7.0	
Note: If fuel burning appliances are enclosed, (1) opening is required within 12"			
of floor and (1) opening is required within 12" of top enclosure			

SAB Construction