

SAB Construction
Solaia

| 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 |
| Area of useable space | | | |
| | | 596 | sq.ft |
| Ceiling height in useable space (no sheetrock) | | | |
| | | 9 | ft |
| Volumne of space | | | |
| | | 5364 | |
| Required Volume of Air = total Btu/h * (50 cu.ft./1000 Btu/h) | | | |
| | | 7500 | cu.ft. |
| Required Area of Usable Space | | | |
| | | 834 | sq.ft. |
| Standard Method of Work? | | | |
| | | BAD | |
| Combustion Air Transfer Grille | | | |
| Per IRC G2407.5.3.1 | | | |
| Required Opening Free Space = 1 sq.in./1000 Btu/h | | | |
| | | = 160 | sq.in. |
| Size of grille to be used | | | |
| | | = (2) 14"x8" | |
| 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