

Professional Engineer Load Calculation Submittal (October 2011)

The following document must be completed by the licensed Professional Engineer who completed the “load calculation” in order for Southface to verify a project as complying with green building program requirements. Please attach a copy of the load calculation to this document. Additionally, please complete and attach the Southface Duct Design Submittal if required. Duct design documentation is required for EarthCraft Gold and Platinum levels and for USGBC LEED for Homes.

I, _____, a licensed Professional Engineer in the State/Commonwealth of _____, hereby declare that the project at the following address, _____ (referred to herein as the “Project”), meets all of the prescriptive requirements listed below.

Please identify and describe the load calculation software and/or ASHRAE method for this Project:

Initial next to each statement below:

_____ The residential HVAC system is designed for typical use as defined by *2009 ASHRAE Handbook of Fundamentals, Chapter 17: Residential Heating and Cooling Load Calculations*:

- Normal occupancy (i.e., number of bedrooms plus one); AND
- Additional safety factors were not used in calculation; AND
- Internal gains through lighting and appliances are minimal.

_____ The design conditions used for this Project are the 99.0% design temperatures used in the *2009 ASHRAE Handbook of Fundamentals Chapter 14: Climatic Design Information* for the Project’s location OR provide supporting documentation (e.g., local code and weather data) proving that prevailing local practice by the HVAC industry uses other weather data.

_____ Indoor design temperatures are 70 °F in the winter and 75 °F in the summer.

_____ Whole house infiltration and duct infiltration are set to “tight,” reflecting the programmatic requirements for tight construction verified with field testing.

_____ Building envelope insulation R-values and component U-values reflect construction specifications.

_____ Ventilation is designed to meet ASHRAE 62.2-2007.

Signature

State and License Number

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Disclaimer:

Southface does not verify that the data provided to Southface by the person executing this document is correct or complete. The sole purpose of this review is to determine compliance with the green building program requirements. Southface makes no representations or warranties concerning the HVAC systems, including but not limited to its ability to provide sufficient heating, cooling, ventilation and dehumidification for this Project.