

Question to GBCI:

Comment 1 given below is a review comment from GBCI regarding the EAC1 energy model baseline system for patient rooms in a hospital. In the comment, GBCI states "Please also ensure that the fan power is modeled at 0.3 kW/cfm since Addendum AC is being applied". The source of this requirement is unclear. The location of the text within addendum ac that describes a requirement of using 0.3 kW/cfm for system 1 is not apparent. We recommend that fan power for system 1 be determined per addendum ac in the same manner all other systems in the baseline are determined. If this approach is incorrect and 0.3 kW/cfm is the correct value to use for systems of type 1, please reference the portion of the code in which this requirement is given.

GBCI Review comment 1:

"The response narrative to preliminary comment 2 includes an exception to Section G3.1.1. However, the exception states that when "the Baseline HVAC system type is 5, 6, 7, or 8, use separate single zone systems" and the appropriate Baseline HVAC system type for residential areas is HVAC system 1. If appealing this credit please provide a revised Template and energy models in which HVAC system 1 is modeled in the appropriate (residential) areas in the Baseline case. For additional guidance on what constitutes a residential area, please refer to the definition in Section 3.

When modeling system type 1: packaged terminal air conditioner for the patient rooms, please ensure that one HVAC system is modeled per thermal zone. Please also ensure that the fan control, cooling type, and heat type are modeled as constant volume, direct expansion coils, and hot water fossil fuel boiler. Please also ensure that the cooling efficiency of each HVAC system is modeled between 11.0 EER to 9.3 EER based on the autosized cooling capacity of each HVAC system using Table 6.8.1D. Please also ensure that the fan power is modeled at 0.3 kW/cfm since Addendum AC is being applied. Please also ensure that the number of hot water boilers, hot water boiler type, hot water boiler efficiency, hot water supply temperature, hot water return temperature, hot water

temperature reset control, hot water pump configuration, hot water pump control, and hot water pump power are modeled according to Sections G3.1.3.2 through G3.1.3.5, and Table 6.8.1F. Finally, please provide the input parameters for each HVAC equipment and HVAC system in the Baseline model in Table 1.4”

GBCI Response:

The project team is correct that Addendum AC does not explicitly say that the fan power for system types 1 and 2 must be modeled at 0.3 kW/cfm; however, there is a LEED NC v2.2 CIR Ruling dated 8/13/2007, which provides additional changes to Appendix G that was not included in Addendum AC.