Blower Door Results Reporting

2021 Oregon Energy Efficiency Specialty Code Compliance

This form provides the required information to demonstrate compliance with Section 5.4.3.1.1 Whole-Building Air Leakage in Chapter 5 of ASHRAE 90.1-2019, which is the 2021 Oregon Energy Efficiency Specialty Code (OEESC). It must be provided to the local building official after testing and before the Certificate of Occupancy is issued.

Jurisdiction:

COMPANY INFORMATION			
Company name:		CCB/EEAST no.:	
Address (Street or P.O. Box):		Phone:	
City:		State:	Zip:
Technician's name:	Email:		

PROJECT INFORMATION		
Street address:	Permit no.:	
City:	State: **OR**	Zip:
Building use (from COM*check*):	Number of stories:	
Conditioned floor area (SF):	Conditioned volume (CF):	

5.4.3.1.1 Whole-building air leakage [a]

The measured air leakage rate of the *building envelope* shall not exceed 0.40 cfm/ft^2 under a pressure differential of 0.3 in. of water, with this air leakage rate normalized by the sum of the above-grade and below-grade *building envelope* areas of the *conditioned space* and *semiheated space*.

I hereby certify that the blower door test results are: _____ cfm/ft^2 and _____ CFM@75Pa and have been determined using standard industry protocol such as ASTM E779 or ASTM E1827.

☐ PASS
Less than or equal to 0.40 cfm/ft^2

☐ FAIL
Greater than 0.40 cfm/ft^2 (See Exception #2 if less than 0.60 cfm/ft^2)

Exception no. 1: Buildings with more than 50,000 ft^2 gross conditioned floor area

Air leakage testing shall be permitted to be conducted on less than the whole *building*, provided certain portions of the *building* are tested and their measured air leakage is area-weighted by the surface areas of the *building envelope*.[b]

I hereby certify that the area-weighted blower door test results are _____ cfm/ft^2 and _____ CFM@75Pa and have been determined using standard industry protocol such as ASTM E779 or ASTM E1827.

☐ PASS
Less than or equal to 0.40 cfm/ft^2

☐ FAIL
Greater than 0.40 cfm/ft^2 (See Exception #2 if less than 0.60 cfm/ft^2)

continued…

Exception no. 2: Measured air leakage rate exceeds 0.40 cfm/ft^2 but does not exceed 0.60 cfm/ft^2

☐ I hereby certify that a smoke tracer or infrared imaging was conducted while the *building* was pressurized, and any leaks noted were sealed. Such sealing was made without destruction of existing building components.

☐ I hereby certify that a visual inspection of the air barrier was also conducted, and any leaks noted were sealed. Such sealing was made without destruction of *existing building* components.

An additional report identifying the corrective actions taken to seal leaks has been submitted with this form to the *code official* and the *building* owner.

Exception #3: Continuous air barrier design and installation in accordance with Section 5.9.1.2

Verification of the design and installation of the *continuous air barrier* shall be determined in accordance with the following by an independent third party when using Exception 3 of Section 5.4.3.1.1.

☐ A design review was conducted to verify and document compliance with the requirements in Sections 5.4.3 and 5.8.3.2

☐ Periodic field inspection of the *continuous air barrier* materials and assemblies were conducted during *construction* while the *continuous air barrier* was still accessible for inspection and *repair*. This allowed for verification and documentation of compliance with the requirements of Sections 5.4.3.1.2 and 5.8.3.

TECHNICIANS NAME & SIGNATURE

I hereby certify that all reporting complies with Section 4.2.5.1.2 FPT and Verification Documentation. The Functional Performance Testing (*FPT*) documentation includes the results of the *FPT* and verification, was provided to the owner, and shall be retained with the project records. If applicable, a plan for the completion of any deferred *FPT*, including climatic and other conditions required for performance of the deferred tests, is included in this submittal.

Technician (print name)	**Signature**	**Test Date**

[a] Where a *building* contains both *conditioned space* and *semiheated space*, compliance shall be shown

a. separately for the *conditioned space* and for the *semiheated space*, with the air leakage rate for the *conditioned space* normalized by the *exterior building envelope* area of the *conditioned space* and the air leakage rate for the *semiheated space* normalized by the *semiexterior building envelope* area of the *semiheated space*; **or**

b. for the *conditioned space* and for the *semiheated space* together, with the air leakage rate for the overall space normalized by the sum of the *exterior building envelope* area and the *semiexterior building envelope area* minus the *semiexterior building envelope* area that separates the *conditioned space* from the *semiheated space*.

[b] The following portions of the *building* are tested and their measured air leakage is area-weighted by the surface areas of the *building envelope*:

a. The entire *floor* area of all *stories* that have any *spaces* directly under a *roof*.

b. The entire *floor* area of all *stories* that have a *building entrance* or loading dock.

c. Representative *above-grade wall* sections of the *building* totaling at least 25% of the *wall* area enclosing the remaining *conditioned space*. Floor area tested per (a) and (b) shall not be included in the 25%.