

2021 Oregon Energy Efficiency Specialty Code (OEESC)

Blower Door Results Reporting Form

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 Code (OEESC). It must be provided to the local Building Official after testing and before the Certificate of Occupancy is issued.

COMPANY INFORMATION			
Company name:			CCB/EEAST #:
Street address:	City:	State: OR	Zip:
Technician name:	Phone:	E-mail:	
PROJECT INFORMATION			
Project Name:		Permit #:	
Street Address:			
City:	State: OR		ZIP:
Building Use (from COMcheck):		Number of Stories:	
Conditioned Floor Area (SF):		Conditioned Volume (CF):	
5.4.3.1.1 Whole-Building Air Leakage ^a			
<p>The measured air leakage rate of the <i>building envelope</i> shall not exceed 0.40 cfm/ft² 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 <i>building envelope</i> areas of the <i>conditioned space</i> and <i>semiheated space</i>.</p> <p>I hereby certify that the blower door test results are: _____ cfm/ft² and _____ CFM@75Pa and have been determined using standard industry protocol such as ASTM E779 or ASTM E1827.</p> <p><input type="checkbox"/> PASS - Less than or equal to 0.40 cfm/ft² <input type="checkbox"/> FAIL – Greater than 0.40 cfm/ft² (See Exception #2 if less than 0.60 cfm/ft²)</p>			
Exception #1: Buildings having over 50,000 ft ² of gross conditioned floor area			
<p>Air leakage testing shall be permitted to be conducted on less than the whole <i>building</i>, provided certain portions of the <i>building</i> are tested and their measured air leakage is area-weighted by the surface areas of the <i>building envelope</i>.^b</p> <p>I hereby certify that the area-weighted blower door test results are _____ cfm/ft² and _____ CFM@75Pa and have been determined using standard industry protocol such as ASTM E779 or ASTM E1827.</p> <p><input type="checkbox"/> PASS - Less than or equal to 0.40 cfm/ft² <input type="checkbox"/> FAIL – Greater than 0.40 cfm/ft² (See Exception #2 if less than 0.60 cfm/ft²)</p>			
Exception #2: Measured air leakage rate exceeds 0.40 cfm/ft ² but does not exceed 0.60 cfm/ft ²			
<p><input type="checkbox"/> I hereby certify that a smoke tracer or infrared imaging was conducted while the <i>building</i> was pressurized, and any leaks noted were sealed. Such sealing was made without destruction of existing building components.</p> <p><input type="checkbox"/> 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 <i>existing building</i> components.</p> <p><input type="checkbox"/> An additional report identifying the corrective actions taken to seal leaks has been submitted with this form to the <i>code official</i> and the <i>building</i> owner.</p>			

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Exception #3: Continuous air barrier design and installation in accordance with Section 5.9.1.2		
Verification of the design and installation of the <i>continuous air barrier</i> shall be determined in accordance with the following by an independent third party when using Exception 3 of Section 5.4.3.1.1.		
<input type="checkbox"/> A design review was conducted to verify and document compliance with the requirements in Sections 5.4.3 and 5.8.3.2		
<input type="checkbox"/> Periodic field inspection of the <i>continuous air barrier</i> materials and assemblies were conducted during <i>construction</i> while the <i>continuous air barrier</i> was still accessible for inspection and <i>repair</i> . 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, AND CERTIFICATION OF COMPLIANCE		
I hereby certify that all reporting complies with Section 4.2.5.1.2 FPT and Verification Documentation. The Functional Performance Testing (<i>FPT</i>) documentation includes the results of the <i>FPT</i> 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 <i>FPT</i> , including climatic and other conditions required for performance of the deferred tests, is included in this submittal.		
Technicians Name (Print)	Signature	Test Date
<p>^a Where a <i>building</i> contains both <i>conditioned space</i> and <i>semiheated space</i>, compliance shall be shown</p> <p>a. separately for the <i>conditioned space</i> and for the <i>semiheated space</i>, with the air leakage rate for the <i>conditioned space</i> normalized by the <i>exterior building envelope</i> area of the <i>conditioned space</i> and the air leakage rate for the <i>semiheated space</i> normalized by the <i>semiexterior building envelope</i> area of the <i>semiheated space</i>; or</p> <p>b. for the <i>conditioned space</i> and for the <i>semiheated space</i> together, with the air leakage rate for the overall space normalized by the sum of the <i>exterior building envelope</i> area and the <i>semiexterior building envelope area</i> minus the <i>semiexterior building envelope</i> area that separates the <i>conditioned space</i> from the <i>semiheated space</i>.</p> <p>^b The following portions of the <i>building</i> are tested and their measured air leakage is area-weighted by the surface areas of the <i>building envelope</i>:</p> <p>a. The entire <i>floor</i> area of all <i>stories</i> that have any <i>spaces</i> directly under a <i>roof</i>.</p> <p>b. The entire <i>floor</i> area of all <i>stories</i> that have a <i>building entrance</i> or loading dock.</p> <p>c. Representative <i>above-grade wall</i> sections of the <i>building</i> totaling at least 25% of the <i>wall</i> area enclosing the remaining <i>conditioned space</i>. Floor area tested per (a) and (b) shall not be included in the 25%.</p>		