

Alabama Duct & Building Envelope Tightness Testing & Compliance Certification Form



Date			
HVAC Contractor		HVAC Cert.#	
DET Verifier		DET Cert.#	
City		State	Zip
Phone		E-mail	

Home Owner		City	
Address		State	Zip
Builder/Contractor		Permit #	

Building Envelope Tightness Verification

$$ACH_{50} = CFM_{50} \times 60 / \text{Volume}$$

Fan Flow @ 50 Pascals (CFM ₅₀)	Total Conditioned Volume	*ACH ₅₀	Code Compliant

* IECC R402.4.1.2 (Modified for Zones 2 and 3) The building or dwelling unit shall have an air leakage rate not exceeding 5 air changes per hour (@ 50 pascals).

Duct Tightness Verification

$$\% \text{ Duct Leakage Result} = CFM_{25} \times 100 / \text{Conditioned Floor Area Served}$$

System	*Test	*Max. % Leakage	CFM ₂₅	Floor Area (ft ²)	% Leakage	Code Compliant
1						
2						
3						
4						

* Duct Testing is Mandatory (IECC R403.3.3)

Exception - No test is required where the ducts and air handlers are located entirely within the building envelope.

NTR = No Test Required

Maximum % Leakage N/A

Maximum Leakage per 100 square feet of conditioned floor area. (IECC R403.3.4)

RITnah = Rough in total Leakage with no air handler or furnace installed

Maximum % Leakage 3%

RIT = Rough in total leakage with air handler or furnace installed

Maximum % Leakage 4%

PCT = Post construction total leakage with system complete

Maximum % Leakage 4%

I certify that I have inspected the duct work associated with the HVAC unit referenced by the permit listed above (if applicable and where required) and found it complies with the requirements of chapter 305-2-4 of the Administrative Code of Alabama, known as the Alabama Energy and Residential Code.

DET Contractor Signature _____

Date _____

*Note: This document to be provided to homeowner, building official and the HACR Board.