


# Duct Leakage Test Report

## Best Energy Rating & Consulting

1066 E. Zesta Lane, Gilbert, AZ 85297 - 480-824-8535 - mbest@bestenergyrating.com

	licensed to: Best Energy Rating	Date: 8.29.2023
<b>Tested By:</b>	Mike Bestenlehner – RESNET HERS #5905566	
<b>Customer:</b>	Green Elephant Development	
<b>Building Lot Number:</b>		
<b>Building address:</b>	3505 N Hopi Way, Scottsdale, AZ 85251	

<b>Building and Test Information</b>	
<b>Systems</b>	3
<b>Floor Area [sq ft]:</b>	4086
<b>IRC/IECC Duct Pressure Test Limits 4cfm/100 sf livable</b>	162

<b>Results</b>	
<b>Total Duct Leakage @ 25 pascals</b>	N/A
<b>CFM/100 Sf</b>	N/A
<b>Pass / Fail</b>	Exempt – In conditioned space

## Compliance

Code Language: N1103.2.2 (R403.2.2) Sealing (Mandatory).

Ducts, air handlers, and filter boxes shall be sealed. Joints and seams shall comply with Section M1601.4.1 of this code.

Duct tightness shall be verified by either of the following: 1. Postconstruction test: Total leakage shall be less than or equal to 4 cfm (113.3 L/min) per 100 square feet (9.29 m<sup>2</sup>) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test. 2. Rough-in test: Total leakage shall be less than or equal to 4 cfm (113.3 L/min) per 100 ft<sup>2</sup> (9.29 m<sup>2</sup>) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 3 cfm (85 L/min) per 100 square feet (9.29 m<sup>2</sup>) of conditioned floor area.

Exception: The total leakage test is not required for ducts and air handlers located entirely within the building thermal envelope

\*All duct work and air handlers are installed inside the thermal envelope and are thus exempt from duct leakage testing per code.


\*Photos available on request

# Building Leakage Test Report

In compliance with ASTM E-779-10

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Building and Test Information	
Floor Area [sq ft]:	4086
Building volume [cu ft]:	61290
Baseline:	1.3
Ring:	B8

Results	
CFM at 50 Pa:	1280
Air Changes per hour ACH50:	1.253
Pass / Fail	Pass

## Compliance

Code Language: N1102.4.1.2 (R402.4.1.2) Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 5 air changes per hour in Zones 1 and 2, and 3 air changes per hour in Zones 3 through 8. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). Where required by the building official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the building official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

[http://www.resnet.us/directory/search/searchtype/auditor/zip/az/trade\\_id/29/slug/find-raters-auditors/page/1](http://www.resnet.us/directory/search/searchtype/auditor/zip/az/trade_id/29/slug/find-raters-auditors/page/1)

\*Photos available on request

**TightSeal Insulation**

5215 E. Sugarloaf Cir Mesa, AZ 85215

Office: 480-478-6482

Fax:

License Number: ROC-274681



**Insulation Certificate**

WORK AREA	ITEM INSTALLED
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	Foam can around all installed doors and windows
Apply 3.5"/R13 to exterior subfloor of livable where applicable.	Install Nominal open cell foam
Apply 3.5"/R13 to exterior walls of garage	Install Nominal open cell foam
Apply 3.5"/R13 to exterior walls of livable	Install Nominal open cell foam.
Apply 5.5"/R21 to roof deck of livable space	Install Nominal open cell foam
All common and plumbing interior walls.	Install R11 Batt insulation.
Install R19 by 24" batts at ceiling of master bedroom for sound	Install R19 Batt insulation.
Apply 3.5"/R13 to exterior walls of garage	Open Cell A Side
Apply 3.5"/R13 to exterior walls of livable	Open Cell A Side
Apply 3.5"/R13 to exterior walls of garage	Open Cell B Side.
Apply 3.5"/R13 to exterior walls of livable	Open Cell B Side

Customer: Green Elephant Development

Job Number: 1308081

Job Address: 3505 Hopi way Phoenix AZ

Date Completed: \_\_\_\_\_

**TightSeal Insulation**

Builder Signature: \_\_\_\_\_

Date: \_\_\_\_\_