



Energy Compliance Certificate

2015 IRC/IECC - Residential

One- and Two-Family Dwellings and Multiple Single-Family Dwellings

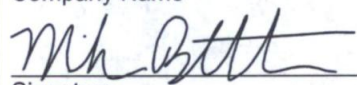
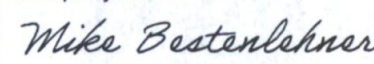
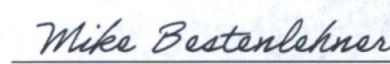
Plan Review No.: 660-20-1

Permit No.: 260907

Project Address: 6643 E Monterosa St, Scottsdale, AZ 85251

Builder Name: Kowlachuk Custom Homes

To be completed by responsible parties, signed by builder and submitted to inspector at final inspection.

Inspection Phase	Results	Sign-Off by Responsible Party
1. Thermal Envelope/Air Barrier (N1102/R402) Inspections shall be made before application of interior finish to verify the following in accordance with code, approved plans and specifications: <ul style="list-style-type: none"> Insulation installation (R-values), fenestration (U-factor and SHGC) and continuous air barrier alignment verified by a qualified 3rd party (certified rater). 	<input checked="" type="checkbox"/> Pass	<u>Best Energy Rating</u> Company Name  Signature Date(s): <u>10/20/2020</u>
2. Envelope Leakage Testing (N1102.4/R402.4) The building or dwelling unit shall be tested and verified as having an air leakage rate <u>not exceeding 5 air changes per hour for detached dwelling units and 7 air changes per hour for attached dwelling units</u> by a qualified 3 rd party (certified rater). <ul style="list-style-type: none"> Testing (N1102.4.1.2/R402.4.1.2) 	<u>Envelope Air Leakage Rate:</u> <u>1.496</u> Air Changes per Hour <input checked="" type="checkbox"/> Pass	<u>Best Energy Rating</u> Company Name  Signature Date(s): <u>5.6.2021</u>
3. Plumbing (Rough-In) Inspection Inspections at plumbing rough-in shall verify compliance as required by the code, approved plans and specifications as to the following: <ul style="list-style-type: none"> Pipe insulation, corresponding R-values, hot water circulation system controls (N1103.5/R403.5) or manifold distribution system. 	<input type="checkbox"/> Pass	Company Name Signature Date(s):
4. Mechanical (Rough-In) Inspection Inspections shall verify compliance as required by the code, approved plans & specs following (N1103/R403): <ul style="list-style-type: none"> Installed HVAC equipment type and size, controls, system insulation and corresponding R-values; Whole-house ventilation and local exhaust (M1507). Where the ducts and air handlers are outside the building thermal envelope, provide a duct leakage test by a qualified 3rd party (certified rater). 	<u>Duct Leakage Rate:</u> <u>Exempt</u> cfm per 100 sf <input type="checkbox"/> Rough-in Test <input type="checkbox"/> Post-constr. Test <input checked="" type="checkbox"/> Pass	<u>Best Energy Rating</u> Company Name  Signature Date(s): <u>5.6.2021</u>
5. Final Inspection The final inspection shall verify the proper installation of the following (N1103/R403): <ul style="list-style-type: none"> HVAC system, programmable thermostats, whole-house ventilation (M1507), local exhaust, damper controls and proper operations. High-efficacy lamps and fixtures (N1104/R404). 	<input type="checkbox"/> Pass	Company Name Signature Date(s):

rev. 11/13/18


Compliance Statement: I certify that to the best of my knowledge the information above is in full compliance with the City of Scottsdale adopted International Energy Conservation Code (IECC) and amendments.

Permit Holder/Builder Signature:  Date: 5-12-2021

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: 5.6.2021
Tested By:	Mike Bestenlehner – RESNET HERS #5905566	
Customer :	Kowalchuk Custom Homes	
Building Lot Number:		
Building address:	6643 E Monterosa St, Scottsdale, AZ 85251	

Building and Test Information	
Systems	2
Floor Area [sq ft]:	3412
2012 IRC Duct Pressure Test Limits 4cfm/100 sf livable	136

Results	
Total Duct Leakage @ 25 pascals	N/A
CFM/100 Sf	N/A
Pass / Fail	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 m²) 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 ft² (9.29 m²) 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 m²) 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