

# Attic Insulation Upgrade

## Photo Report

### Installer:

Tech Name  
Quality Insulation  
1234 SE Company Address Rd.  
1234567890  
Test@gmail.com

**Installation Date:** August 10, 2023

**Installation Address:** 8005 N Projecy St., Portland, Oregon 97215

### Building Number

A photo of the building showing the building number.



Timestamp: August 10, 2023 at 01:22 PM PDT

Geolocation: [45.5118,-122.5810](#)

### About the Report:

This report is intended to show:

1. The critical details of the attic insulation upgrades that were performed.
2. The subsequent air leakage rate of the home after all the air sealing and insulation work in the scope of work has been performed. The report is not intended to be technically exhaustive, neither every single feature nor every example of every feature was photographed. The report does not imply that every single location that could have been air sealed and insulated was air sealed and insulated 100% perfectly, however, the contractor has made diligent effort to be meticulous and do a quality job.

## **About Naturally Drafted Fossil Fuel Appliances Inside the Home**

Naturally drafted fossil fuel appliances inside the pressure boundary of the home will be tested for proper draft and combustion during the pre-envelope upgrade health and safety inspection. However, there is the possibility that the comprehensive envelope air sealing and insulation energy efficiency upgrades could cause the naturally drafted water heater or furnace to fail to draft properly when dryers, range hoods, and exhaust fans are operated simultaneously with the naturally drafted water heater and/or furnace. If this is found to be the case, a combustion air opening connecting the combustion appliance area to the outdoors may need to be added or some other remediation may be required. The homeowner/landlord should be aware of this possibility and the costs of this remediation action.

## **About Mechanical Ventilation**

One important aspect of a comprehensive energy efficiency upgrade is taking control of the air flowing in and out of the home. Without proper air sealing, the air flows in and out wherever it wants to, and primarily when it is very hot or very cold. This leads to comfort issues (drafts) and wasted energy. It also leads to moisture problems when the moisture in that air gets into the wall, attic, or floor assemblies. To avoid these issues while providing adequate fresh air where and when it is needed, the strategy is to seal air leaks, especially high (attic) and low (basement or crawlspace) and then provide continuous mechanical ventilation with optional filtering or other conditioning.

## Insulation Details

### Insulation Measuring Rulers – Photo

Overview of insulation measuring rulers, one installed every 300 sq. ft. visible from attic entrance (photo taken from attic entrance).



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# R-value Per Inch – Photo

Photo of insulation bag R-value per inch table

not weather proof and is not UV protected from direct sun light.  
del material, es posible que el valor R sea menor. No almacene este producto al aire libre ya que  
bolsa no es impermeable y no tiene ninguna protección contra la exposición directa al sol.

ER'S GUIDE GUÍA DEL COMPRADOR

ATTICS ÁTICOS

| R-VALUE | BAGS PER 1000 SQ. FT.<br>Nos. of bags per 1000 sq. ft. of<br>area (incl. wastage for 15% than | MAXIMUM NET<br>COVERAGE<br>Cubajes de bag should not<br>cover more than (square feet) | MINIMUM WEIGHT<br>PER SQ. FT.<br>Weight per sq. ft. of insulation<br>should not be less<br>than (lbs. per sq. ft.) | MINIMUM<br>THICKNESS**<br>Minimum total thickness<br>(inches) | MINIMUM SETTLED<br>THICKNESS**<br>Minimum settled thickness<br>(inches) |
|---------|---|---|--|---|---|
| R-13    | 6.6   | 151.4   | 0.188  | 4.50  | 4.50  |
| R-19    | 9.4   | 106.3   | 0.268  | 6.50  | 6.50  |
| R-22    | 11.1  | 89.9  | 0.317  | 7.50  | 7.50  |
| R-25    | 13.3  | 75.0  | 0.380  | 8.75  | 8.75  |
| R-30    | 15.3  | 65.4  | 0.436  | 10.25   | 10.25   |
| R-38    | 19.5  | 51.4  | 0.554  | 13.00   | 13.00   |
| R-44    | 23.0  | 43.6  | 0.654  | 14.75   | 14.75   |
| R-49    | 25.8  | 38.8  | 0.735  | 16.50   | 16.50   |
| R-60    | 32.1  | 31.1  | 0.916  | 20.00   | 20.00   |

WALLS PAREDES

| R-VALUE | MINIMUM THICKNESS<br>(inches) | MINIMUM MASS PER UNIT<br>AREA (lbs. / square ft.) | MAXIMUM COVERAGE PER<br>BAG (square ft.) | MINIMUM BAGS PER<br>1000 SQUARE FT. | DENSITY (lb. / cu. ft.) |
|---------|-------------------------------|---|--|-------------------------------------|-------------------------|
|---------|-------------------------------|---|--|-------------------------------------|-------------------------|

¡ This  
appli-  
cates  
fire co-  
nitions

Minimum

Características

- Cumple con la  
Tipo I
- No es combustible  
cuando se aplica  
correctamente
- Cumple con la norma  
ASTM E 1363
- No se quemará si se  
aplica correctamente
- No se quemará si se  
aplica correctamente

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## Skylight Shaft – Photo

Photo of skylight shaft insulation detail



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## Knee Wall – Photo

Photo of knee wall insulation detail



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## Stairwell Wall – Photo

Photo of stairwell wall insulation detail



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## Storage Platform – Photo

Photo of storage platform insulation detail



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## Wide Angle – Photo

Wide angle photo showing insulation uniformity with rulers visible



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## Attic Door/Hatch - Photo

Photo of insulation on attic door/hatch



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## Post Air Sealing And Insulation Assessment

### Blower Door Setup - Photo

Photo of blower door setup



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# Manometer CFM50 - Photo

Photo of blower door manometer showing CFM at 50 Pa read out



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## Leakage Reduction Calculator

Final CFM50 = 355

Initial CFM50 = 1820

Building Volume (ft³) = 9000

Initial ACH50 = 12.13

Final ACH50 = 2.37

CFM50 Reduction = 1465