

The logo for ENERGY STAR RaterPRO. It features a blue square on the left containing a white icon of a house with a checkmark inside. To the right of the square, the words "ENERGY STAR" are written in blue, with a registered trademark symbol (®) to the right. Below "ENERGY STAR", the word "RaterPRO" is written in a larger, bold, blue font, with a trademark symbol (™) to the right.

Preview

ENERGY STAR Certified Homes Stakeholder Meeting

October 24, 2017




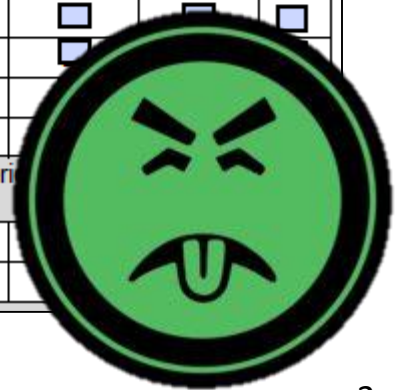
Goal of RaterPRO

- Provide a tool that facilitates the collection of high-quality field data during the pre-drywall and final inspections.



Goal of RaterPRO

 <h2 style="margin: 0;">Rater Field Checklist</h2> <h3 style="margin: 0;">ENERGY STAR Certified Homes, Version 3 / 3.1 (Rev. 08)</h3>						
Home Address: <input type="text"/>		City: <input type="text"/>	State: <input type="text"/>	Permit Date: <input type="text"/>		
Thermal Enclosure System			Must Correct	Builder Verified ¹	Rater Verified ²	N/A ³
1. High-Performance Fenestration & Insulation						
1.1 Fenestration meets or exceeds levels specified in Item 2.1 of the Rater Design Review Checklist			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
1.2 Insulation meets or exceeds levels specified in Item 3.1 of the Rater Design Review Checklist			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
1.3 All insulation achieves RESNET-defined Grade I installation. See Footnote 4 for alternatives. ⁴			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
2. Fully-Aligned Air Barriers⁵ At each insulated location below, a complete air barrier is provided that is fully aligned as follows:						
<u>Ceilings:</u> At interior or exterior horizontal surface of ceiling insulation in Climate Zones 1-3; at interior horizontal surface of ceiling insulation in Climate Zones 4-8. Also, at exterior vertical surface of ceiling insulation in all climate zones (e.g., using a wind baffle that extends to the full height of the insulation in every bay or a tabbed baffle in each bay with a soffit vent that prevents wind washing in adjacent bays). ⁶						
2.1 Dropped ceilings / soffits below unconditioned attics, and all other ceilings			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Walls:</u> At exterior vertical surface of wall insulation in all climate zones; also at interior vertical surface of wall insulation in Climate Zones 4-8 ⁷						
2.2 Walls behind showers, tubs, staircases, and fireplaces			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.3 Attic knee walls and skylight shaft walls ⁸			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.4 Walls adjoining porch roofs or garages			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.5 Double-walls and all other exterior walls			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Floors:</u> At exterior vertical surface of floor insulation in all climate zones and, if over unconditioned space, also at interior vertical surface of floor insulation including supports to ensure alignment. See Footnotes 10 & 11 for alternatives. ^{9, 10, 11}						
2.6 Floors above garages, floors above unconditioned basements or crawlspaces, and cantilevered floors			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.7 All other floors adjoining unconditioned space (e.g., rim / band joists at exterior wall or at porch roof)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>





Goal of RaterPRO

- Provide a tool that facilitates the collection of high-quality field data during the pre-drywall and final inspections.
- This helps increase the value, and reduce the cost, of a high-quality third-party rating.
- Promote increased adoption of high-quality ratings across the industry.



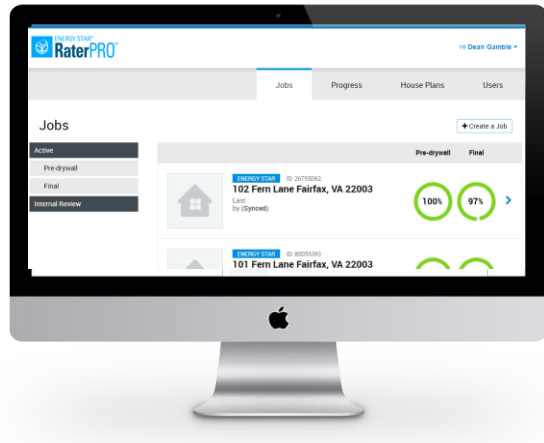
Key Features of RaterPRO

1. Ability to verify both ENERGY STAR and HERS homes.

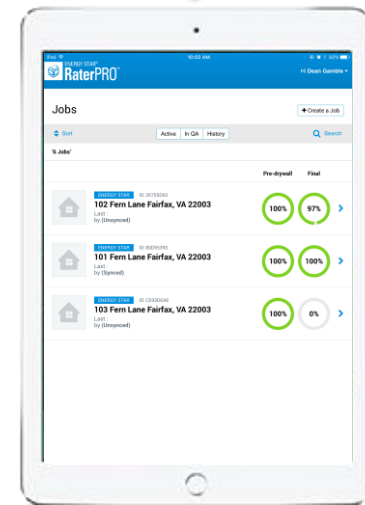


Key Features of RaterPRO

2. Cloud-based, but with the ability to work offline.



Web-Based Admin Site



Field App

Key Features of RaterPRO

3. Able to import proposed ratings from HERS software.
4. Able to export confirmed ratings back to HERS software.





Key Features of RaterPRO

5. Capable of capturing robust data.

Status

N/A

Must
Correct

Rater
Verified

Notes

Missing weather-stripping on front door

Photos



Key Features of RaterPRO

6. Voluntary and freely available.



Status of Development Process



Problem
In
Chair
Not
In
Computer



Status of Development Process

Early 2016 – Outreach & Design

- Interviews with 30 separate HERS rating companies.
- Discussions with production and custom builders.
- Calls with HERS software companies & tool manufacturers.
- Bar talk with Steve Baden.



Status of Development Process

Late 2016 to 2017 – Programming

- Early interface development shown at last year's meeting.
- Demoed core functionality at RESNET conference.
- Chugging along ever since.



Status of Development Process

Today

- Nearly all of core workflow is in place:
 - User access
 - Importing proposed ratings
 - Job creation
 - Completing a job
 - Exporting a confirmed rating
 - Syncing



Status of Development Process

After Today

- Adding features (many already underway):
 - Provider workflow
 - Search functions
 - Builder reports
 - Bulk upload and download of ratings
 - Job tracking
 - Sampling
 - Android support



Status of Development Process

2018

- 1st half: Version 1.0 public beta available for use.
- ~2nd half: Drop the 'beta' label after gaining experience & completing jobs.



Test Drive

“The user interface is great, and being able to work offline is very useful.”

Zach Kimbrough, Energy Logic



Test Drive

“It’s very clean visually. I especially like it for reviewing field and file data.”

Paul Gay, US Ecologic



Test Drive

"The granular breakdown of every ENERGY STAR checklist item was helpful, and it was great that the specs from the projected models were automatically incorporated."

Thiel Butner, Pando Alliance



Demo



Questions?



ENERGY STAR Certified Homes

Web & Email:

Main: www.energystar.gov/newhomespartners
Technical: www.energystar.gov/newhomesguidelines
Training: www.energystar.gov/newhomestraining
HVAC: www.energystar.gov/newhomesHVAC
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