# Building to Meet the New MA State Stretch Code Changes (HERS 42/45): What Builders Need to Know – Session IV













#### **Announcements:**

10% Discount on NEHERS Memberships Between 12/1/23 and 1/31/24

Member Category	Annual Dues <sup>2</sup>	Early Bird Dues
	(Paid after January 31st)	(Must be paid by January 31st)
Certified HERS Rater	\$120.00	\$108.00
Dual Rater & RESNET-Accredited Independent Trainer	\$240.00	\$216.00
Accredited Rating Provider	\$350.00 + \$66.50/Rater <sup>1</sup> (capped at 50)	10.0% Discount off Annual Calculated Fee
Dual Accredited Rating &	\$700.00 + \$66.50/Rater <sup>1</sup>	10.0% Discount off Annual
Training Provider	(capped at 50)	Calculated Fee
ASSOCIATE – Student/Individual	\$60	\$54
ASSOCIATE - Sponsor	\$500	\$450
HERS Program	\$500 - \$5,000 (\$.90 per rating done in state suggested)	10.0% Discount off Annual Calculated Fee

(1) Rating Provider variable fee is calculated from Certified Rater count on Jan 1. Providers may opt to include independent raters associated with their providership in this count. (2) Members joining after July 1 pay 50% of Annual Dues. This discount does not apply to the ASSOCIATE- Sponsor or Program membership levels.
(3) For additional information on the benefits and incentives for Sponsor Membership, contact Betsy Ames at info@nehers.org or call/text 978-633-3013.

https://nehers.org/membership











#### **Announcements:**

Please contact us at <a href="mailto:info@nehers.org">info@nehers.org</a> if you'd like to join the NEHERS Alliance **Energy Codes Committee!** 

We review the Residential Energy Code with respect to HERS Raters concerns and take actions where appropriate to attempt to improve the clarity and implementation of Residential Energy Code.

Next Meeting is January 9<sup>th</sup> at 1PM EST. (Meets quarterly).

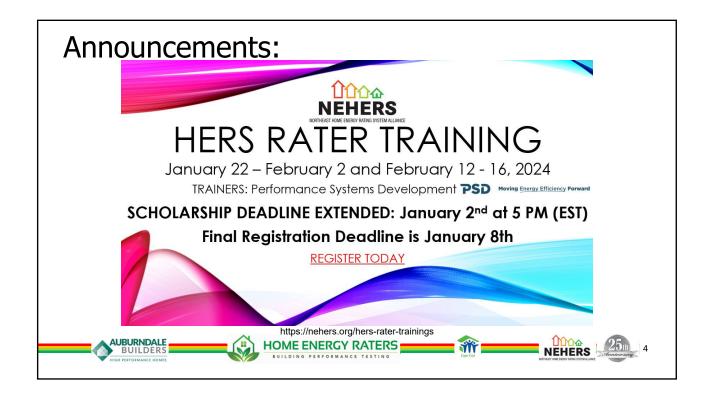












#### **Audience Reminders:**

- Participating in listen-only mode
- Submit a question by typing it into the Questions Pane at the right of your screen any time
- Download the Handout from the Handout Pane
- Provide feedback through our electronic survey following the webinar.
- The recording of this webinar will be posted on our website by Friday. <a href="https://nehers.org/webinars">https://nehers.org/webinars</a>













## Speakers:



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HOME ENERGY RATERS



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## **SERIES OVERVIEW**

- 11/30 Session 1: Overview Home Performance Summary
- 12/7 Session 2: Orientation, Windows and Doors, and PV
- 12/14 Session 3: Mechanicals, Ventilation, Envelope and Appliances
  - 12/21 Session 4: Review/Summary and Questions













# **SESSION FOUR**

# **Agenda:**

- Review / Summary
- Recipes for Success
- Questions



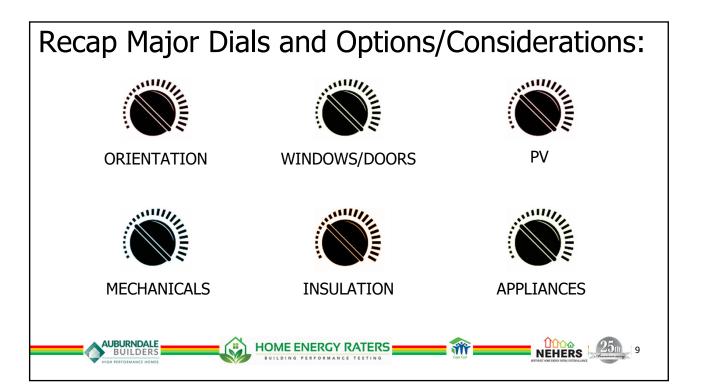


HOME ENERGY RATERS

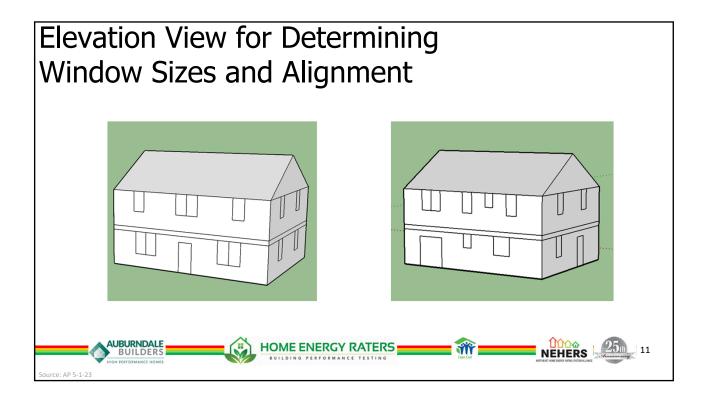


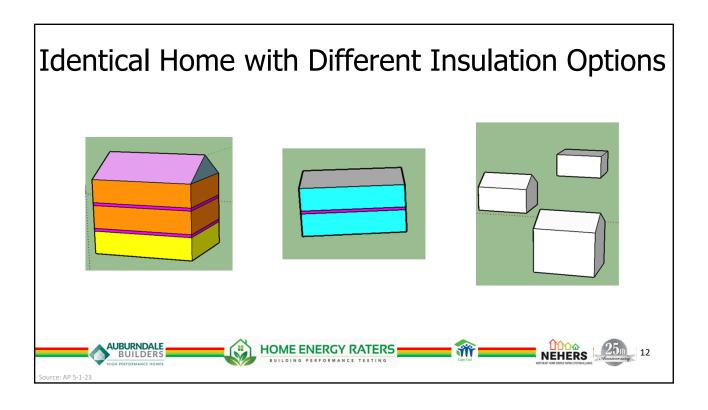


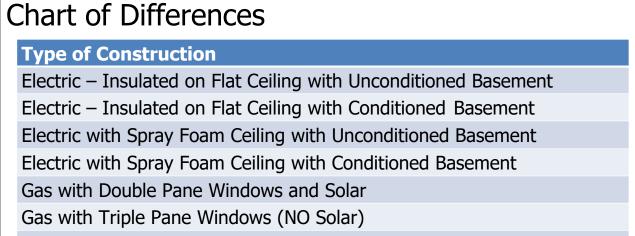






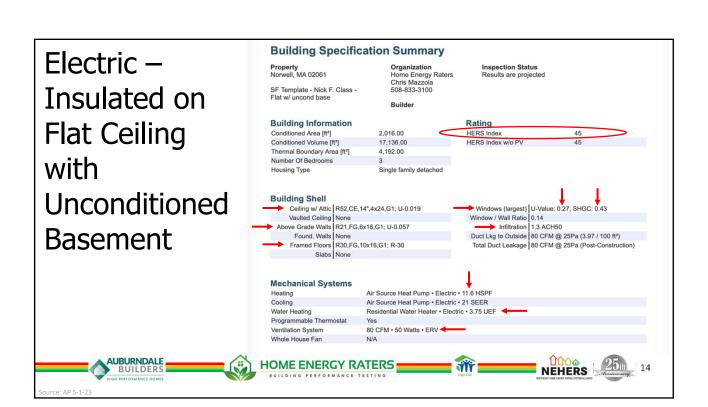


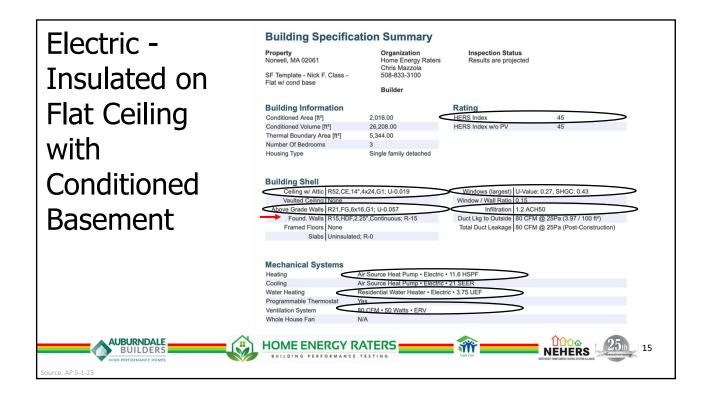


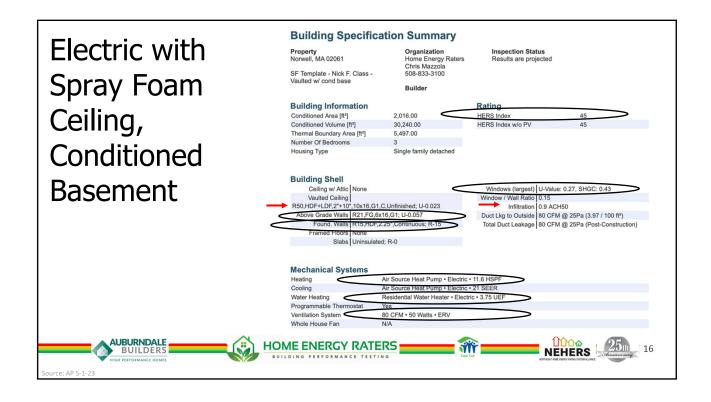


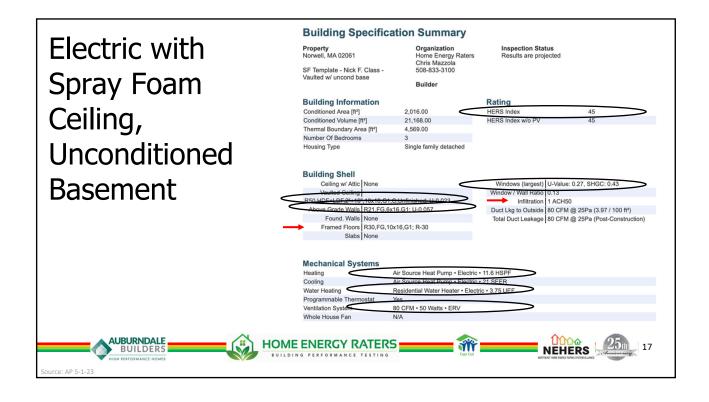
Gas with Spray Foam Ceiling, Conditioned Basement and Triple Pane Windows (NO Solar)

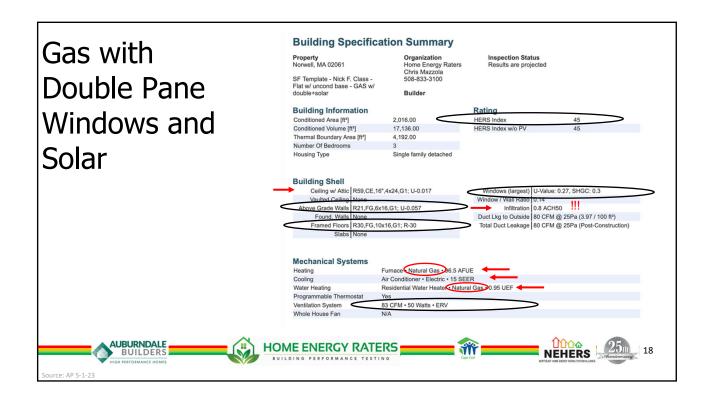
HOME ENERGY RATERS

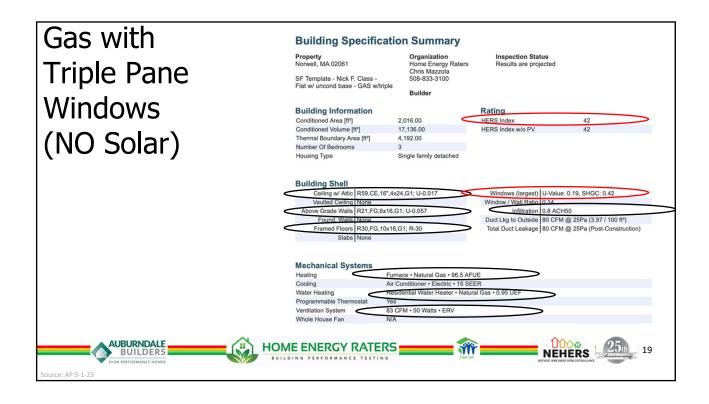


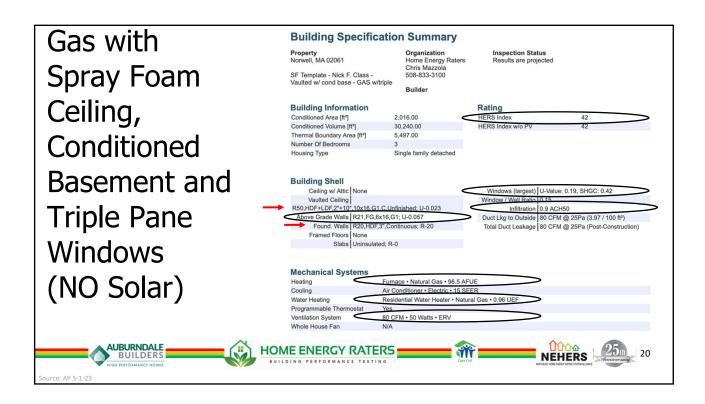












# Exception to Rule is Tons of Glass



#### **Design Stages:**

- 1) Concept- Layout
- 2) Schematic Design (SD)
- 3) Design Development (DD)
- 4) Construction Drawings (CD)

#### **Construction Stages:**

- 5) Foundation and Frame
- 6) Envelope: Insulation (Interior/Exterior)
- 7) MEP
- 8) Finishes Interior/Exterior











## Recommended Workflow to Reduce Risks

#### Recommended Workflow for 42/45:

- 1) More check-ins, earlier in SD/DD/CD design phases before you get to construction.
- 2) Keep value engineering options open. Do not design your team into a corner that could require expensive corrections to reach your HERS Score.
- 3) Focus on: high efficiency heating/cooling, DHW, ERV/HRV, and windows- making the right decisions with these four items makes the biggest impact on overall HERS rating.
- 4) Allows builder/architect to play with insulation type and level, which home-owner may not have preferences about.
- 5) Once you have this formula down, you can repeat it for similar builds, or go through it step-by-step each time for custom builds.



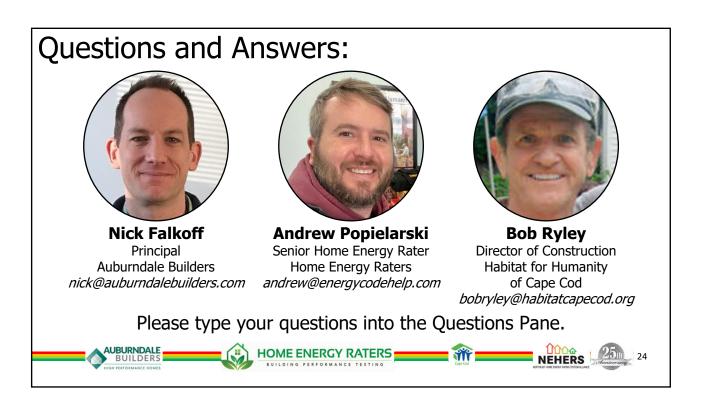












### Thank You for Participating in Today's Webinar

Please take a moment to complete the brief survey. Your feedback is very important to us.

# **Upcoming NEHERS Monthly Webinar Series:**

**January TBD: Solving Performance Demands with Wood Fiber Insulation** 

- with Scott Johnston of Timber HP

February 14, 2024: PHIUS Prescriptive Path

- with Isaac Elnecave and Tony Lisanti of PHIUS

https://nehers.org/webinars











