

Administrative Updates

CRRC Staff



Organizational Updates

Jeff Steuben

CRRC Executive Director

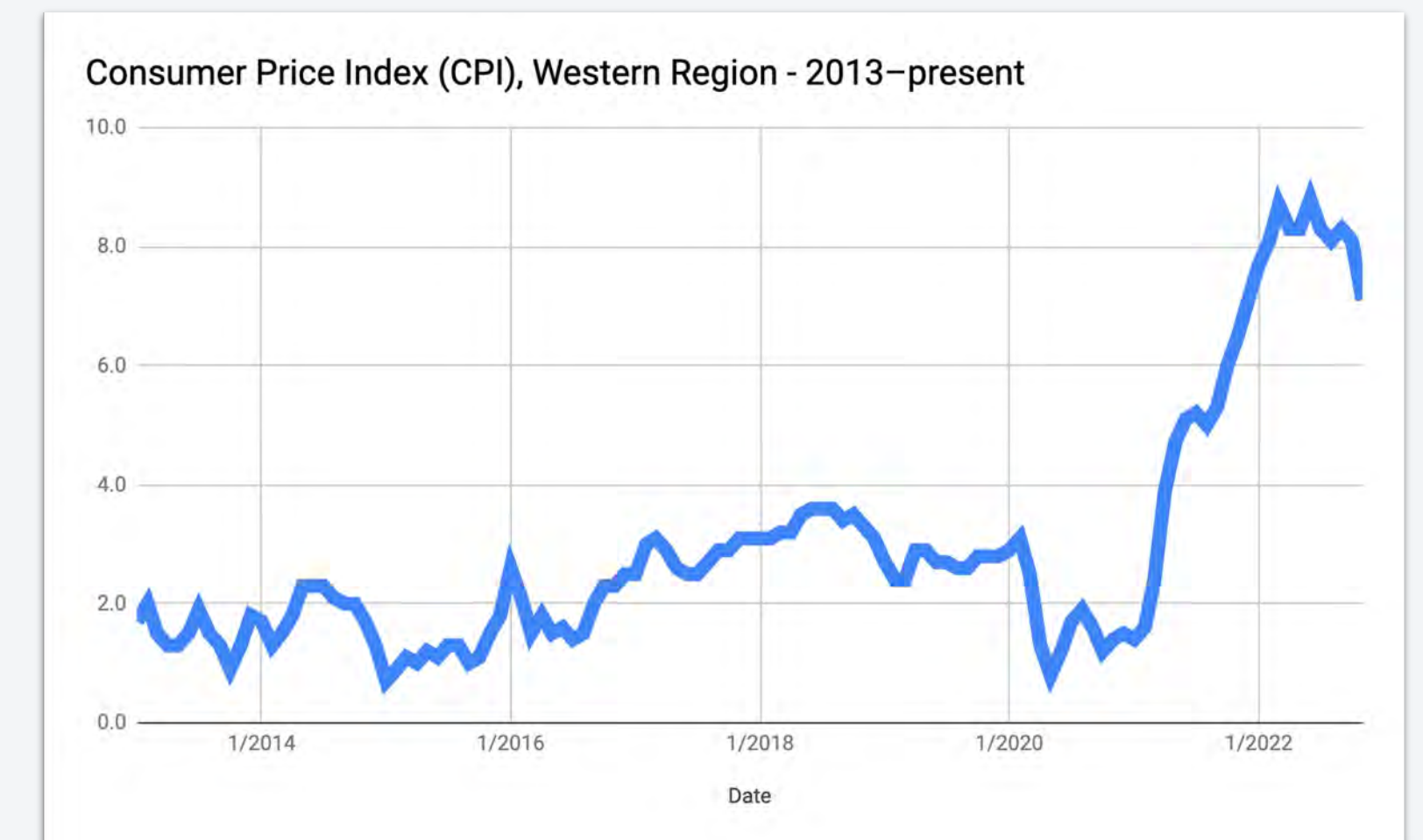
CRRC Organizational Changes

- Membership classes renamed “Industry” and “General Interest”
 - More descriptive than “Class A” and “Class B”
- Plans to hire an Administrative Coordinator summer/fall 2023
 - Will take over administrative duties and support CRRC staff
- CRRC will be looking to relocate to a new office in 2024



CRRC Organizational Changes

- Update to CRRC Roof Rating Program fees and membership dues will take effect January 1, 2024
 - 4% increase
 - Last fee increase (3%) was in 2018
 - Increase helps CRRC offset higher expenses and recent period of unprecedented inflation



Pavement Working Group

- Exploratory Working Group investigating the “cool pavement” market
- Presenting initial findings to Board of Directors tomorrow



For organizational questions, contact:

Jeff Steuben

jeff@coolroofs.org



Roof Program Update

Beth James-Bourgeois

CRRC Administrative Manager



Roof Program Updates 2022/2023

- Formula Change or Retesting Policy
- Rapid Ratings Approved for Rough Substrates
- CRRC Online Rating Portal (Portal) Updates
 - Single Ply Thickness Validations
 - SRI Calculation
 - Specified Conditions Checkbox
 - Portal Plans 2023/2024

Formula Change or Retesting Policy

- Rated products that are reformulated will remain active on the CRRC Rated Roof Products Directory unless the Licensee notifies CRRC staff with a request to inactivate the product.
- Product Rating Application updated to include checkbox.

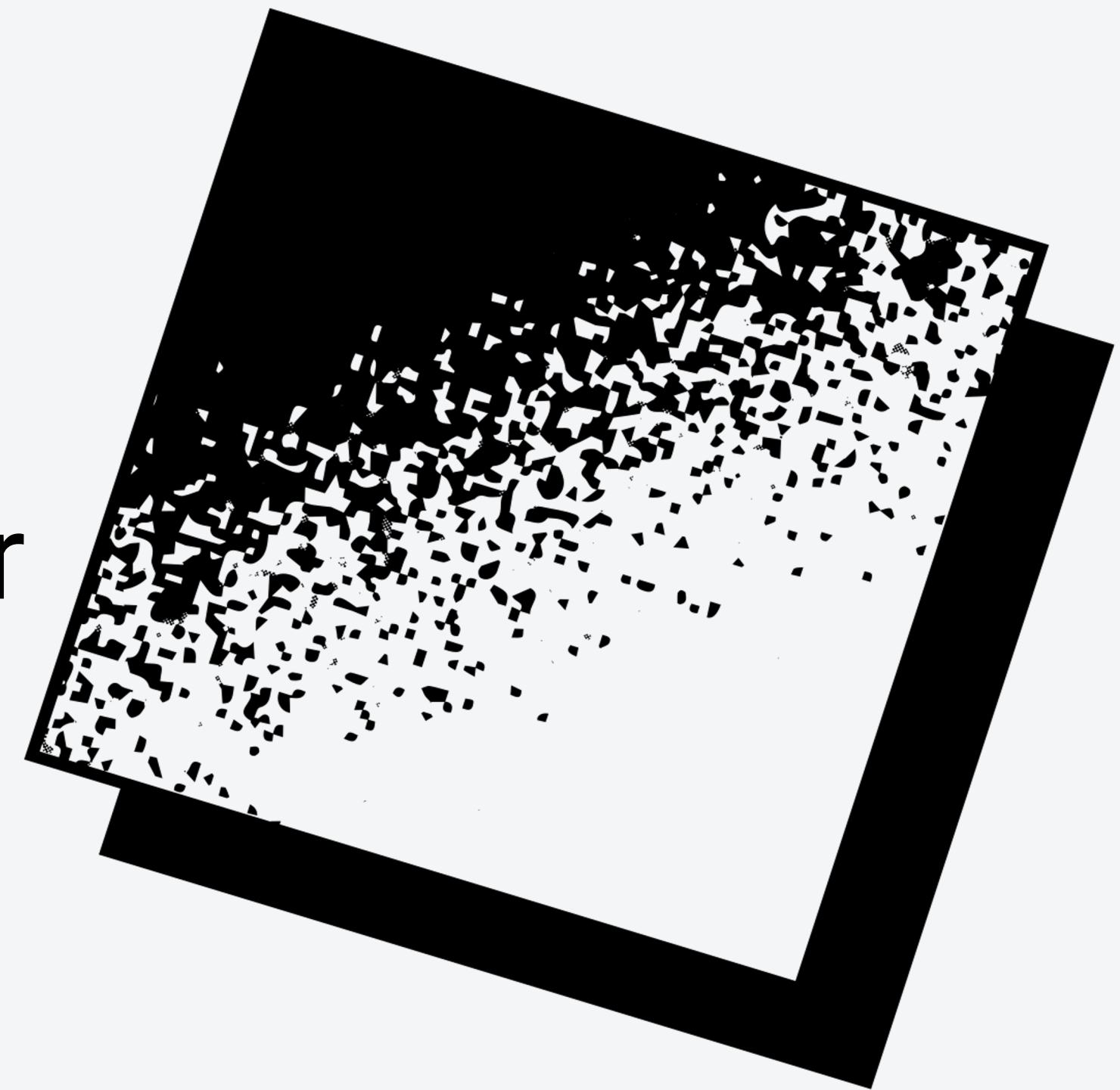
Rating Options

- ☐ CRRC Rating (\$250)
- ☐ Reference (\$250)
- ☒ Formula Change or Retesting
- ☐ ENERGY STAR-Only (legacy)

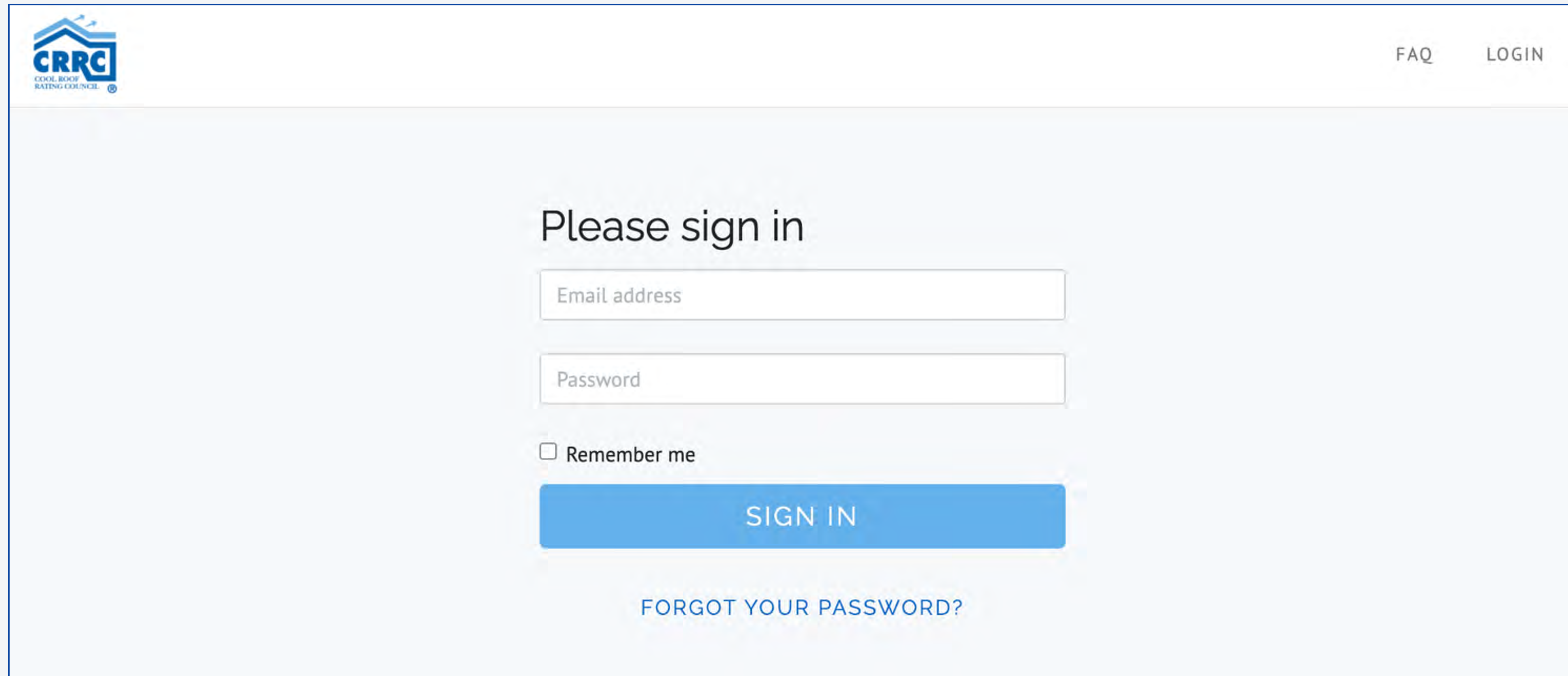
☒ By checking this box, the previous formulation of this product will be inactivated and removed from the CRRC Rated Roof Products Directory.

Rapid Ratings Approved for Rough Substrates

Rapid Ratings for coatings over rough substrates was approved by the CRRC Board of Directors at their meeting on September 22, 2022.



CRRC Online Rating Portal Updates



The image shows a screenshot of the CRRC Online Rating Portal's sign-in page. The page has a white background with a blue header. In the top left corner is the CRRC logo, which consists of a blue house icon with the letters 'CRRC' inside, and the text 'COOL ROOF RATING COUNCIL' below it. In the top right corner are two links: 'FAQ' and 'LOGIN'. The main content area is light blue and contains the text 'Please sign in' in a dark grey font. Below this text are two white input fields with grey borders. The first field is labeled 'Email address' and the second is labeled 'Password'. Below the password field is a checkbox with the text 'Remember me' next to it. Below the checkbox is a blue button with the text 'SIGN IN' in white. Below the button is a link that says 'FORGOT YOUR PASSWORD?' in blue text.

CRRC
COOL ROOF
RATING COUNCIL

FAQ LOGIN

Please sign in

Email address

Password

☐ Remember me

SIGN IN

[FORGOT YOUR PASSWORD?](#)

CRRC Online Rating Portal Updates

Single-Ply Thickness Validations

Portal validations updated for each Single-Ply product subtype based on their corresponding ASTM standard thickness tolerance requirement.

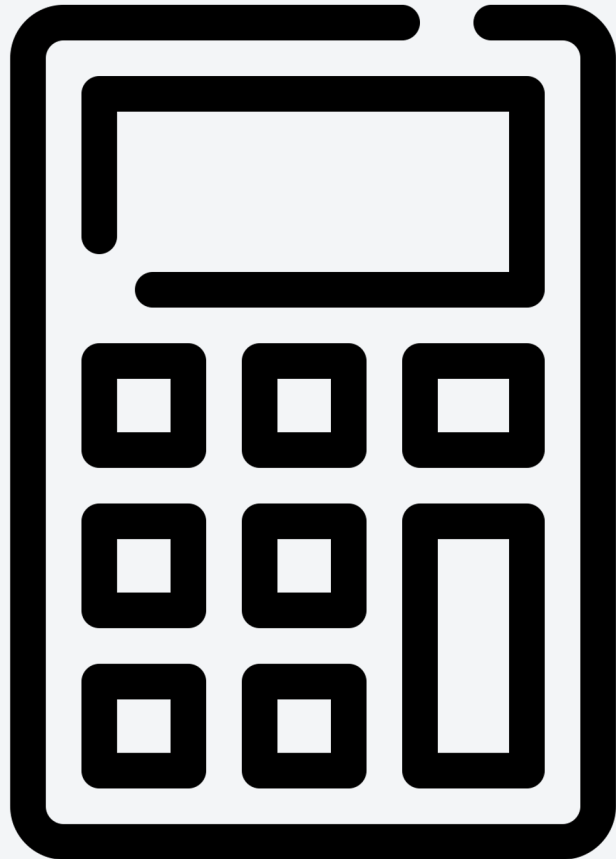
Single-Ply Subtype	Thickness Tolerance
PVC	+10%, -10%
KEE	≥ 32
EPDM	+15%, -10%
TPO	+15%, -10%
Hypalon	\geq specified thickness
KEE-PVC Sheets	\geq specified thickness

CRRC Online Rating Portal Updates

SRI Calculation

The solar reflectance input value is now truncated to three decimal places and not rounded to two decimal places.

BEFORE	AFTER
Solar Reflectance = 0.543	Solar Reflectance = 0.543
Rounded to 0.54 → SRI CALC	SR 0.543 → SRI CALC



CRRC Online Rating Portal Updates



CRRC Online Rating Portal Updates

Specified Conditions Checkbox

- Temperature and humidity reporting fields have been removed from the Test Results Report in the Online Rating Portal and replaced with a checkbox that Test Labs must select to indicate that testing was performed under the specified conditions.

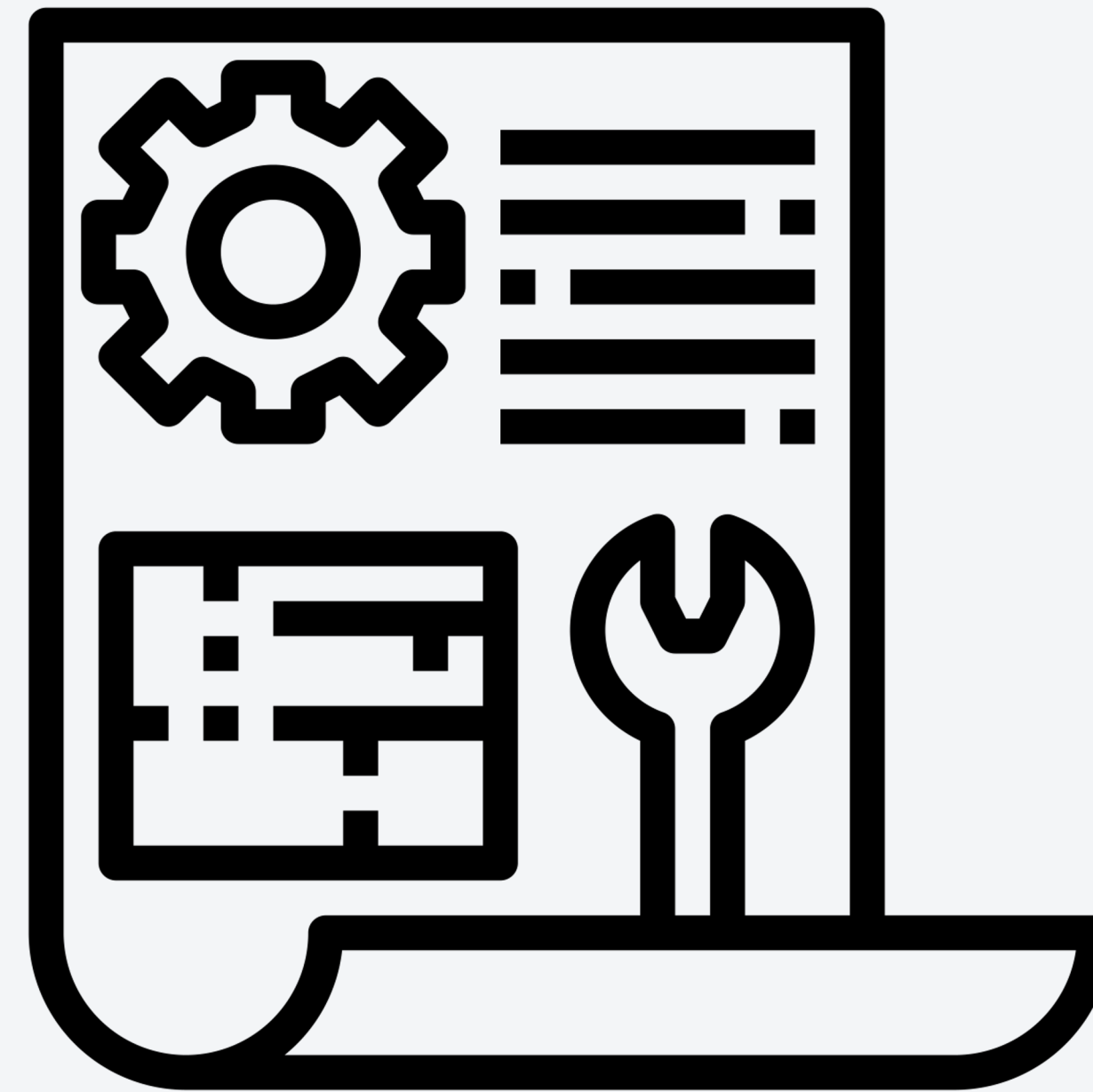
☒ **Testing occurred in a controlled environment under Standard Laboratory Conditions***

Standard Laboratory Conditions defined as a Room Air Temperature of $23^{\circ}\text{C} \pm 3^{\circ}\text{C}$ ($73^{\circ}\text{F} \pm 5^{\circ}\text{F}$) and a Relative Humidity of $50\% \pm 10\%$.

CRRC Online Rating Portal Updates

Portal Plans 2023/2024

- Random Testing Integration
- Invoicing Updates
- Utilities Section for Licensees
- Licensee Division/Subsidiaries



For Roof Program questions, contact:

Beth James-Bourgeois

beth@coolroofs.org



Membership Update

Beth James-Bourgeois

CRRC Administrative Manager



CRRC Active Members

194 Active Members

Industry	General Interest
124	70



CRRC Member Spotlight



- Up to four Member Spotlights per year
- Featured on CRRC website and in CRRC newsletter
- Member may nominate themselves or another Member

CRRC Member Spotlight

Member Spotlights

- Seaman Corporation (current spotlight)
- WeatherShield Roofing Group, Inc.
- Polyglass USA, Inc.
- International Institute of Building Enclosure Consultants (IIBEC)
- DECRA Roofing Systems
- National Roofing Contractors Association
- Tempo Chemicals & Solutions

Member Spotlight

Seaman Corporation / FiberTite Roofing Systems

CRRC Member since 2002



YEAR FOUNDED / YEARS
IN INDUSTRY:

1949

YEARS OF CRRC
MEMBERSHIP:

20



CRRC Member Spotlight

MEMBERSHIP

Member Spotlight Form

Thank you for your interest in the CRRC Member Spotlight! The CRRC offers up to four Member Spotlights per year. Member Spotlights appear on the CRRC website and in the CRRC newsletter. Members may apply themselves or nominate other CRRC Members.

Please complete and submit the fields below to be considered for the Member Spotlight.

Member Name *

Year Founded / Years in Industry

Years of CRRC Membership

Photo or Company Logo

Choose File

No file chosen

Please attach a photo and/or company logo that can appear on the CRRC website and newsletter.

Become the
next Member
Spotlight!

Submit your
application
today!



CRRC Educators



- CRRC Members are eligible to represent the CRRC as a CRRC Educator
- Educators must be authorized by the CRRC Board of Directors
- Email Audrey McGarrell at audrey@coolroofs.org for more info

coolroofs.org/membership/crrc-educators

Welcome New Members!

Industry

Atlas Roofing Corporation
ChillSkyn
Instacoat Premium Products
Lanier Color Company
OMYA International AG
The Aluminum Shingle Company Inc

General Interest

Camden Roofing & Construction LLC
CES Commercial Roofing
Gorman Technical Laboratories
H&H Telecom Construction Inc
Happy Days Roofing
HUDCO Roofing & Exteriors, LLC
Kaitech Enterprise Co., Ltd.
Milenium Solutions
National Fenestration Rating Council
(NFRC)
Right Scope, LLC
RoofersCoffeeShop



For Membership questions, contact:

Beth James-Bourgeois

beth@coolroofs.org



Wall Program Update

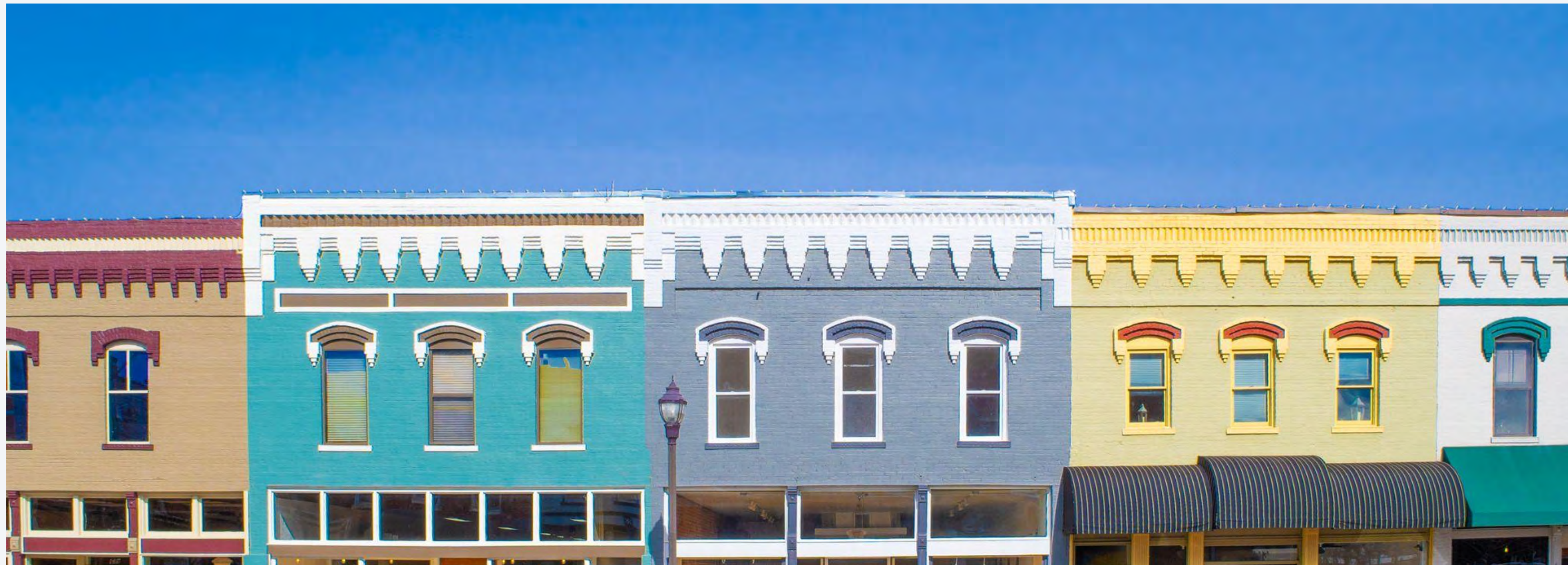
Audrey McGarrell

CRRC Project Manager



Wall Rating Program Overview

- Launched January 2022
- First products rated and Directory launched September 2022
- **87 rated products as of May 2023!**



Thank you to our WRP Founding Members



only from



Coadtech
Cool Additives Technology



Wall Program Participation

Eight Licensees as of May 2023

* active product ratings

1. Behr Paint Company *
2. MACOMA Environmental Technologies
3. NOROO Paint & Coatings *
4. Sherwin-Williams Coil Coatings
5. SICC Coatings, GmbH
6. The Garland Company *
7. Tex-Cote
8. ThermaCote *

Wall Program Participation

Three Accredited Independent Testing Laboratories

- ACE Laboratories – *Ravenna, OH*
- PRI Construction Materials Technologies, LLC – *Tampa, FL*
- R&D Services, Inc. – *Watertown, TN*

Two Accredited Manufacturer Testing Laboratories

- Behr Paint Company – *Santa Ana, CA*
- Sherwin-Williams Coil Coatings – *Fort Myers, FL*

Wall Directory, Label, & Logo

coolroofs.org/directory/wall

CRRC

Rated Wall Products

Search keywords

Q

Clear Filters

Product Type

Colors

☐ Red

☐ Yellow

☐ Blue

☐ Bright White

☐ Tan

☐ Black

☐ Metallic

☐ Orange

☐ Green

☐ Purple

☐ Off-White

☐ Gray

☐ Brown

☐ Variegated (Multicolor)

☐ Beige

☐ Pink

87 results

Sort by CRRC

CRRC PROD ID.	MANUFACTURER	BRAND AND MODEL	PRODUCT TYPE	COLOR	SOLAR REFLECTANCE INITIAL3 YEAR	THERMAL EMITTANCE INITIAL3 YEAR
W125-0001	NOROO Paint & Coatings Co., Ltd.	Energy Saver Cool Wall White	Paint / Architectural Coating	Bright White	0.81Pending	0.81Pending
W123-0004	The Garland Company, Inc.	Tuff-Coat Almond 1643-ALMOND	Paint / Architectural Coating	Tan	0.49Pending	0.87Pending

CRRC

WALL PROGRAM

Wall Rated Product ID #: W000-0000

	Initial	Aged
Solar Reflectance	0.00	Pending
Thermal Emittance	0.00	Pending

The ratings above are subject to CRRC rating program conditions, requirements, and limitations. Visit coolroofs.org for important information and disclaimers about CRRC rating conditions, requirements, and limitations.

CRRC

Rated Wall Products

Search keywords

Q

Clear Filters

Product Type

Colors

Solar Reflectance

Thermal Emittance

Manufacturer:

All

Product Market:

All

87 results

Sort by CRRC Product ID

CRRC PROD ID.	MANUFACTURER	BRAND AND MODEL	PRODUCT TYPE	COLOR	SOLAR REFLECTANCE INITIAL3 YEAR	THERMAL EMITTANCE INITIAL3 YEAR
W111-0001	ThermaCote, Inc.	ThermaCote® ThermaCote® D59	Paint / Architectural Coating	Bright White	0.77Pending	0.89Pending
W111-0002	ThermaCote, Inc.	ThermaCote® ThermaCote® D70	Paint / Architectural Coating	Gray	0.29Pending	0.89Pending
W115-0001-000	Behr Paint Company	BEHR PREMIUM PLUS® EXTERIOR PAINT BWC-25 SANDY CLAY EXTERIOR FLAT ULTRA PURE WHITE® NO. 4050 BWC-25 SANDY CLAY EXTERIOR SATIN ENAMEL ULTRA PURE WHITE® NO. 9050 BWC-25 SANDY CLAY EXTERIOR SEMI-GLOSS ENAMEL ULTRA PURE WHITE® NO. 5050 BWC-25 SANDY CLAY INTERIOR/EXTERIOR HI-GLOSS ENAMEL ULTRA PURE WHITE® NO. 8050 BWC-25 SANDY CLAY	Paint / Architectural Coating	Tan	0.59Pending	0.89Pending

Directory Disclaimers

CRRC

WALL PROGRAM

RATED PRODUCT

Model Codes and Standards



Green Building Certification Programs





LEED BD+C: New Construction • v4.1 - LEED v4.1

Heat Island Mitigation with Cool Walls

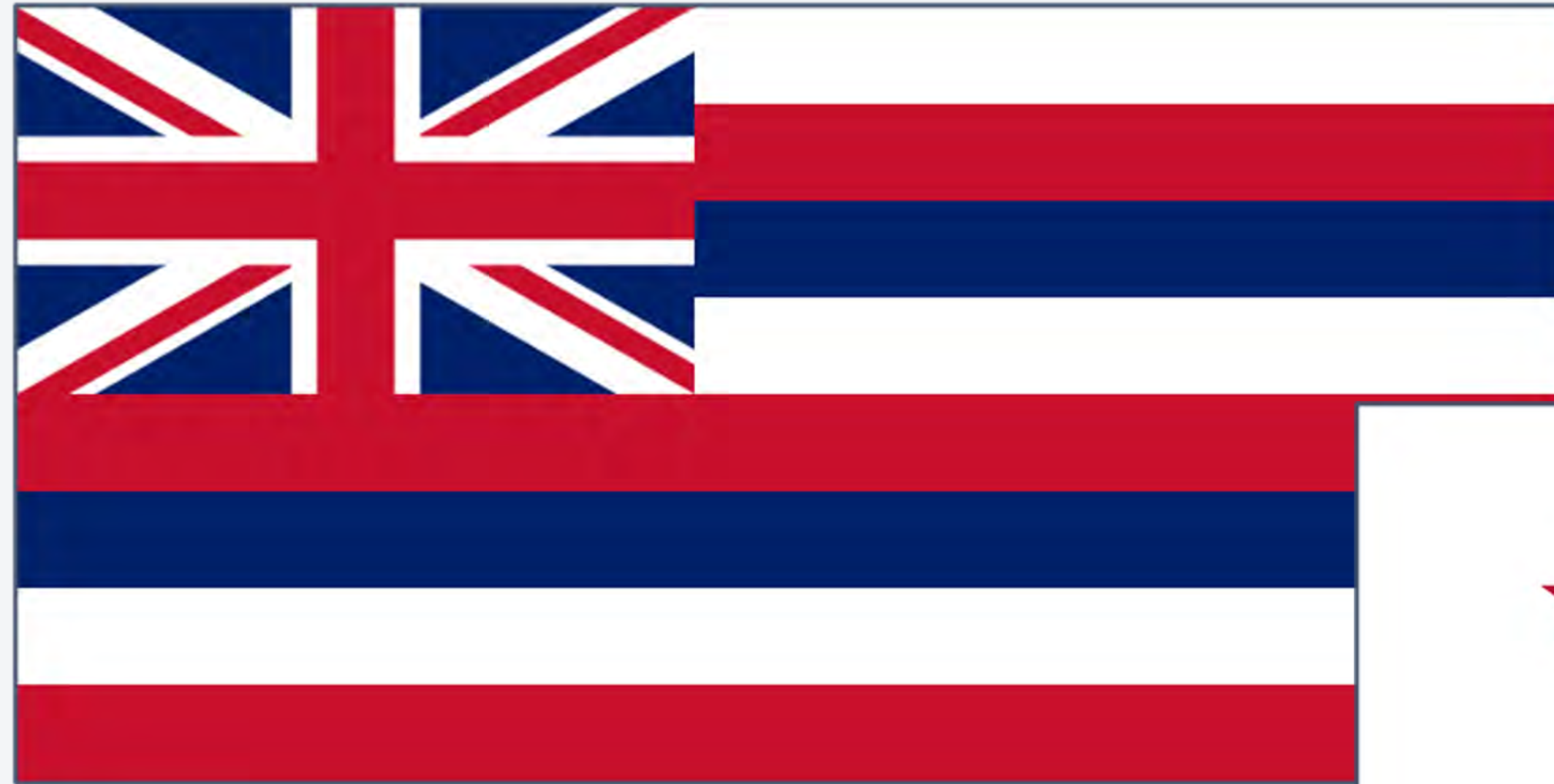
Pilot credits

SSpc154 | Possible 1 Points

Image Source: U.S. Green Building Council



State-Level Initiatives



Hawaii State Energy Code

California Green Building
Standards (CALGreen)



Marketing and Outreach

Goal 1

25 Wall Licensees
by December 2025

Goal 2

200 Rated Wall
Products by
December 2025

Goal 3

Kick-off research
project by mid-2024

Program and Technical Development

CRRC Wall Rating Program - Product Rating Application	
Company Name	
CRRC Licensee ID (found in WRP Licensee Welcome Letter)	
Application Information	
Rating Option	
Please select one	
Application Type	
Please select one	
Product Brand Name	
Product Model Name/Number	
Product Type	
Please select one	
Product Color	
Please select one nominal color that will appear on the Rated Products Directory.	
Intended Customer	
Please select one	
Laboratory/Test Farm Information	
Product Testing Data Source	
Please select one	
Accredited Independent Testing Laboratory	
Please select one. Applies to all application types except for Color Family Additional Elements being tested by an AMTL.	
Test Farm	
Please select one. Applies to all application types except for Color Family Additional Elements.	
Accredited Manufacturer Testing Laboratory	
Color Family Additional Elements applications only.	
Product Contact Information	
The Product Contact is the person that the Test Lab and the CRRC will contact with any questions or information regarding the product rating. Their name and phone number will also be listed in the product entry published on the Rated Wall.	
Product Contact First Name	
Product Contact Last Name	
Product Contact Email Address	
Product Contact Phone Number	
Company Address	
City, State, & Zip	
Applicant Signature	
Please type your name in lieu of a physical signature.	
Date	

Architectural Coating Products Only	
Min. Manufacturer Recommended Thickness (mils)	
Safety Data Sheet and Technical Data Sheet Submission	
SDS and TDS must be sent to the Test Lab and the CRRC. Select "True" to indicate that the SDS and TDS will be submitted.	
Substrate Verification	
Architectural Coatings must be applied to a substrate with <0.2 Solar Reflectance (CRRC-2 Section 3.2 (A)). If specimens are prepared by licensee, an extra substrate must also be submitted. Select "True" to indicate that the substrate used or supplied to the lab meet this.	
Masonry Products Only	
Product Sub-Type	
Color Family Applications Only	
Color Family Group	
Please select one.	
Color Family Representative Element CRRC WRP ID	
For Color Family Additional Element applications only. Please enter the CRRC Wall Rated Product ID of the Color Family Representative Element being referenced.	
Reference Applications Only	
Reference Product CRRC WRP ID	
Enter CRRC Wall Rated Product ID of the product being referenced.	
Signed O&M Authorization Form	
An O&M Authorization Form signed by your company and the Other Manufacturer must be submitted to the CRRC along with this application. Select "True" to indicate that the signed form.	
Note: Reference Applications should be sent directly to the CRRC (not a Test Lab). No testing is required for Reference.	
Compound Rating Applications Only	
Additional Brand and Model Names	
List any additional brand and model name(s). Each additional brand and model name must be preceded by a comma and a space.	



WALL PRODUCT RATING PROGRAM MANUAL CRRC-2

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2435 N. Lombard Street
Portland, OR 97217
www.coolroofs.org
Phone (866) 465-2523

CRRC Wall Program - Test Results Report

Use this form for all product types EXCEPT FOR Architectural Coatings. The Arch. Coating TRR must be used for Architectural Coatings. Yellow highlighting indicates a required field.

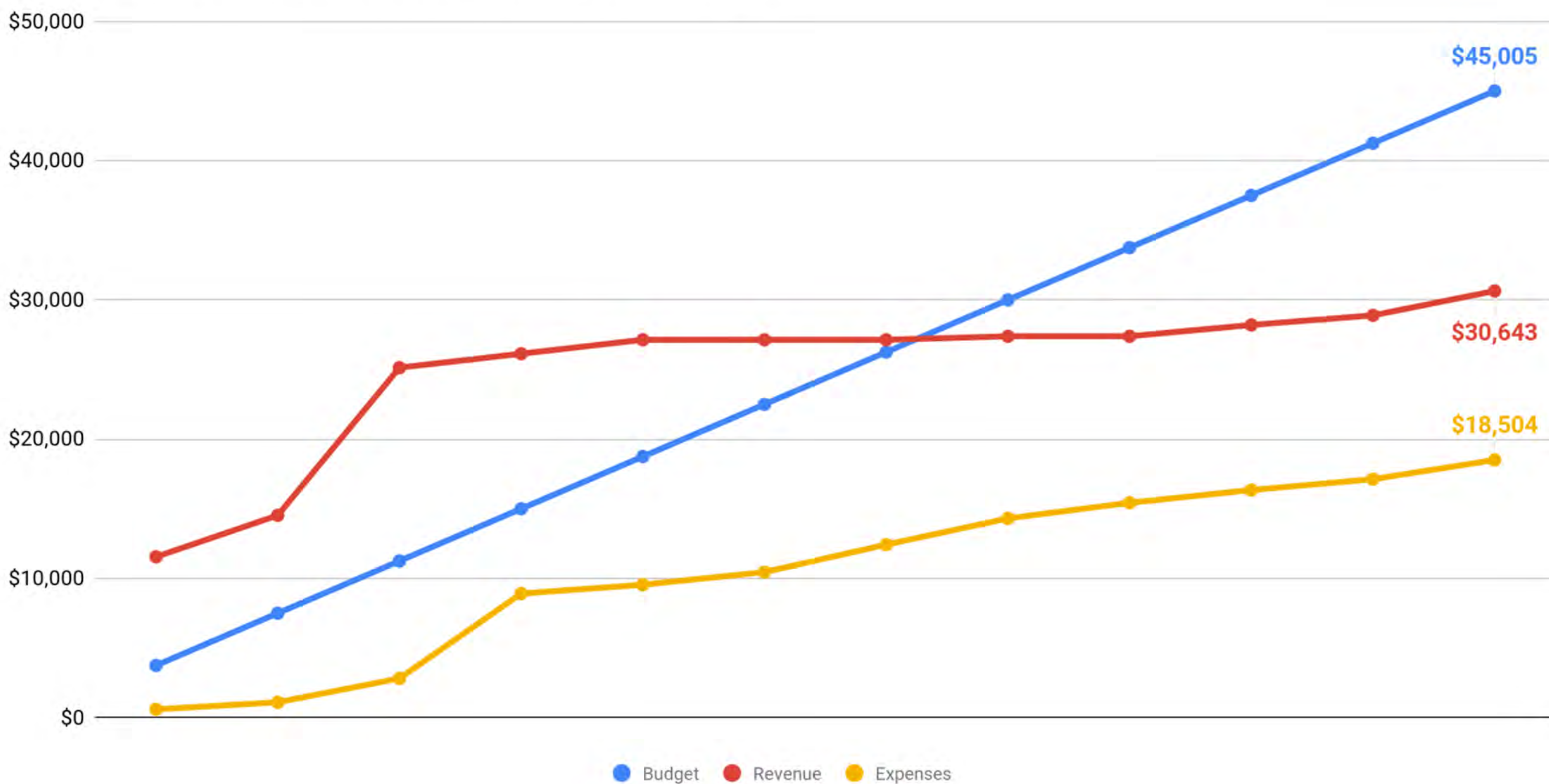
1. Product Information (from Licensee's Product Rating Application)				
Licensee Name				
Brand Name				
Model Name/Number				
Product Type				
Product Color				
2. Laboratory Information				
Laboratory Name				
Operator				
Lab Report ID				
Test Farm Shipment Date				
3. Colorimetry Testing (Color Family Applications ONLY) (CRRC-2 Section 3.6; Appx. 1, S.2.4 & S.3.3; Appx. 2)				
Color Family (from Licensee's Product Rating Application)				
L low	L high	a low	a high	b low b high
Color measurement specification: 0°/45° (illuminant/observer) geometry with 10° standard observer, D65 illuminant. Hunter L, a, b color space. (Informative Note: See ASTM E805, Section 9 for reference only.)				
Measured Color Properties				
Date Color Tested				
Batch A				
Panel ID	Measurement #	Hunter L Value	Hunter a Value	Hunter b Value
	1			
	2			
	3			
Batch A Averages				
Batch B				
Panel ID	Measurement #	Hunter L Value	Hunter a Value	Hunter b Value
	1			
	2			
	3			
Batch A Averages				
Overall Averages				
If any color averages are RED, the product may not be added to the selected Color Family Group.				

4. Initial Radiative Properties Testing Information			
Room Air Temperature (°C)	Room Air Relative Humidity (%)		
All Specimens meet size requirements specified in the CRRC-2 Program Manual? (CRRC-2 Sec. 3.2)			
Does the product appear to be variegated (multicolored)?			
A product "appears variegated" if you can visually see variations in the surface color or discrete markings of different colors.			
Solar Reflectance Test Method			
AM 1.5 GV output (1590 setting on SSR) used for SR tests? (CRRC-2 Appx. 1, S.2.2)			
Date Tested			
Thermal Emittance Test Method			
Date Tested			
5. Tested Initial Radiative Properties (CRRC-2 Section 3.3 Solar Reflectance; 3.4 Thermal Emittance)			
Group A			
MFR Batch #	Panel ID	Solar Reflectance	Thermal Emittance
Group B			
MFR Batch #	Panel ID	Solar Reflectance	Thermal Emittance
Group C			
MFR Batch #	Panel ID	Solar Reflectance	Thermal Emittance
6. Average for All Initial Tests			
Solar Reflectance Average			
Thermal Emittance Average			
7. Signature Log			
In lieu of a physical signature, please type your name and the date below.			
Signature			
Date			



2022 Program Finances

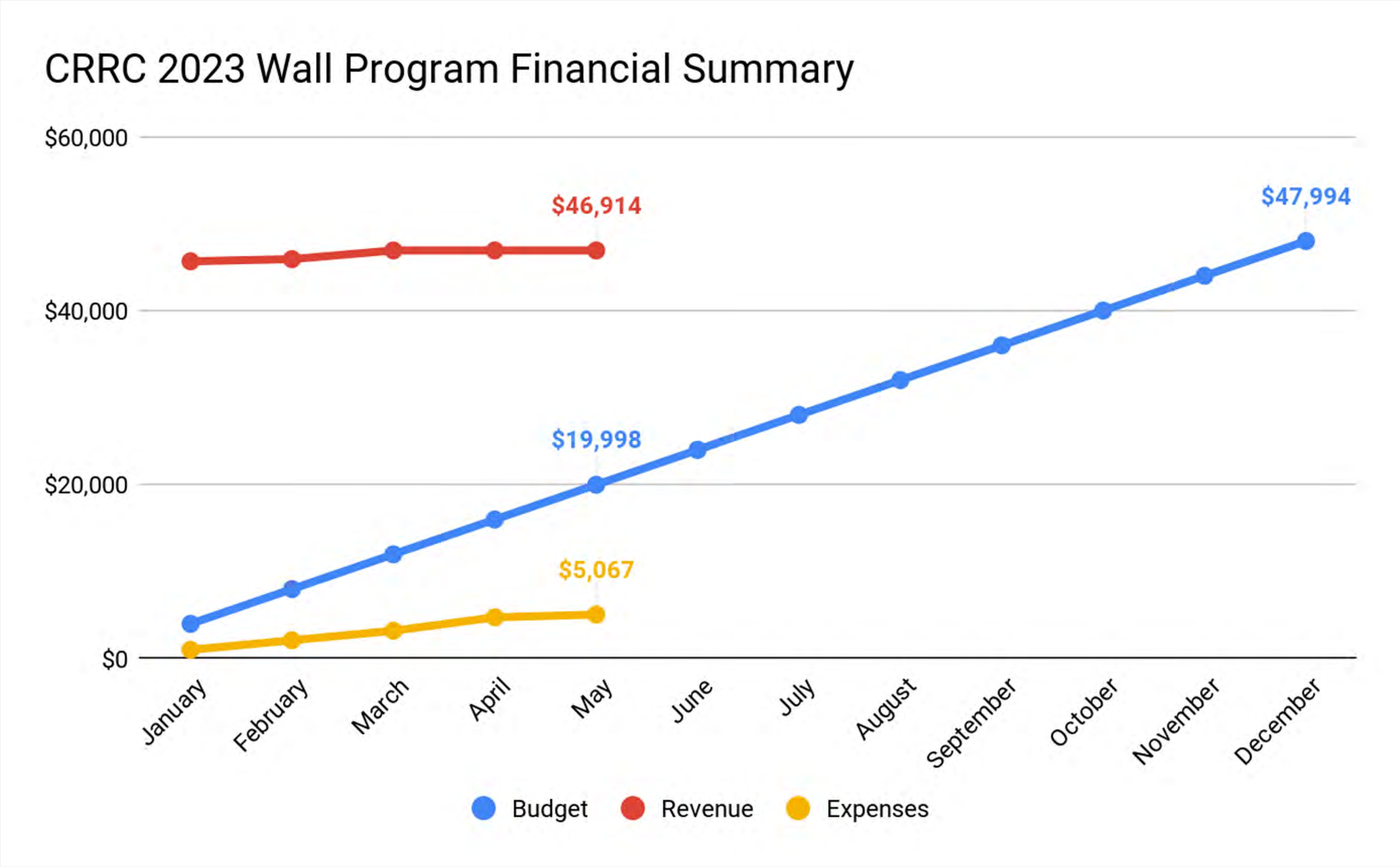
2022 CRRC Wall Program Financial Summary



2022 EOY Wall Program Finances

Revenue	\$30,643
Expenses	\$18,504
Net	\$12,138

2023 Program Finances



Looking Ahead

- Ramping up education, outreach, and marketing
- Potential future development of Online Rating Portal
- Potential research project



To learn more or start rating products, contact:

Audrey McGarrell

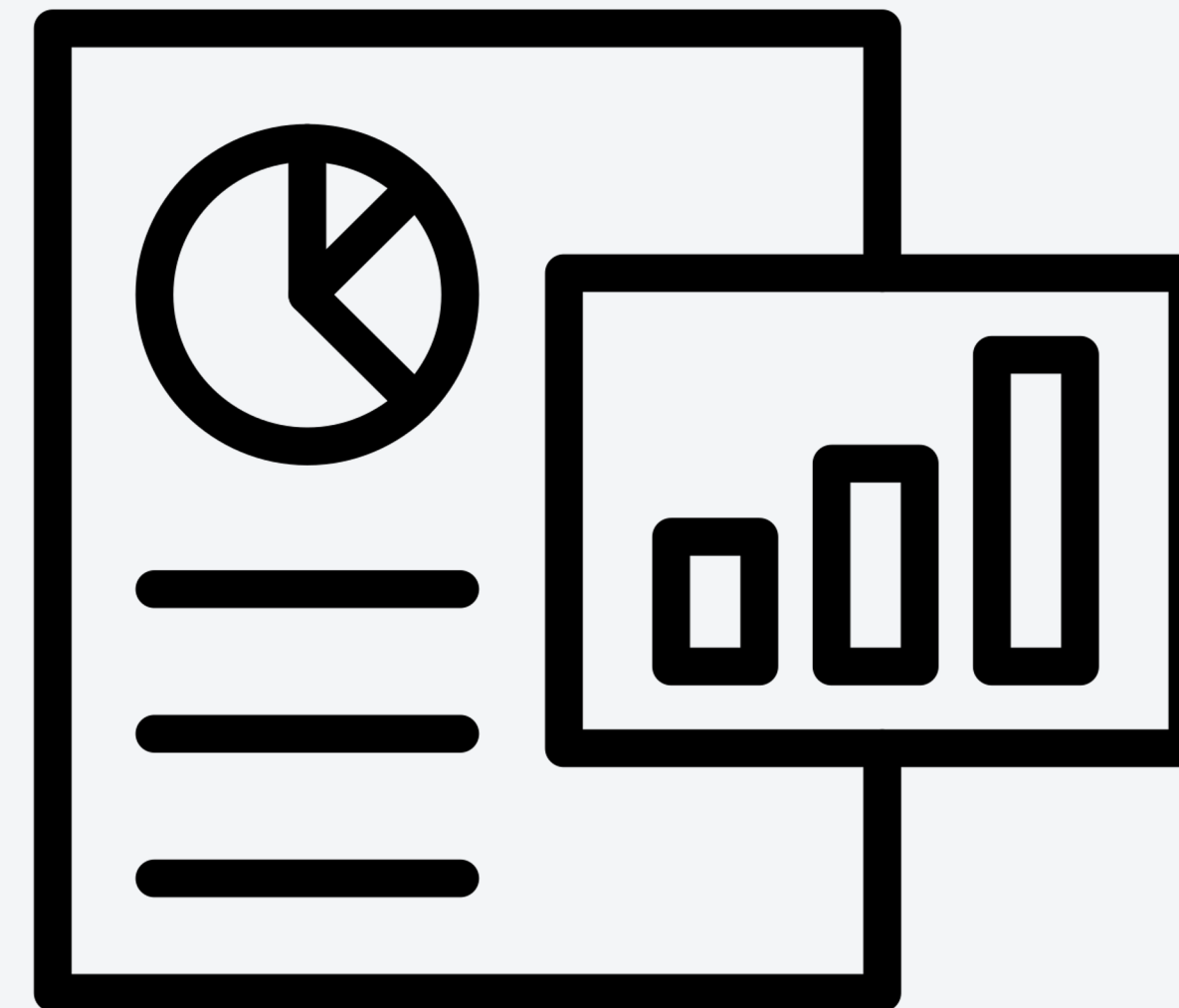
audrey@coolroofs.org



Random Testing Program Update

Stacey Weister

CRRC Technical Manager



Purpose of Random Testing


The Random Testing Program is a quality assurance mechanism for active CRRC-rated roof products

RANDOM TESTING PROCESS

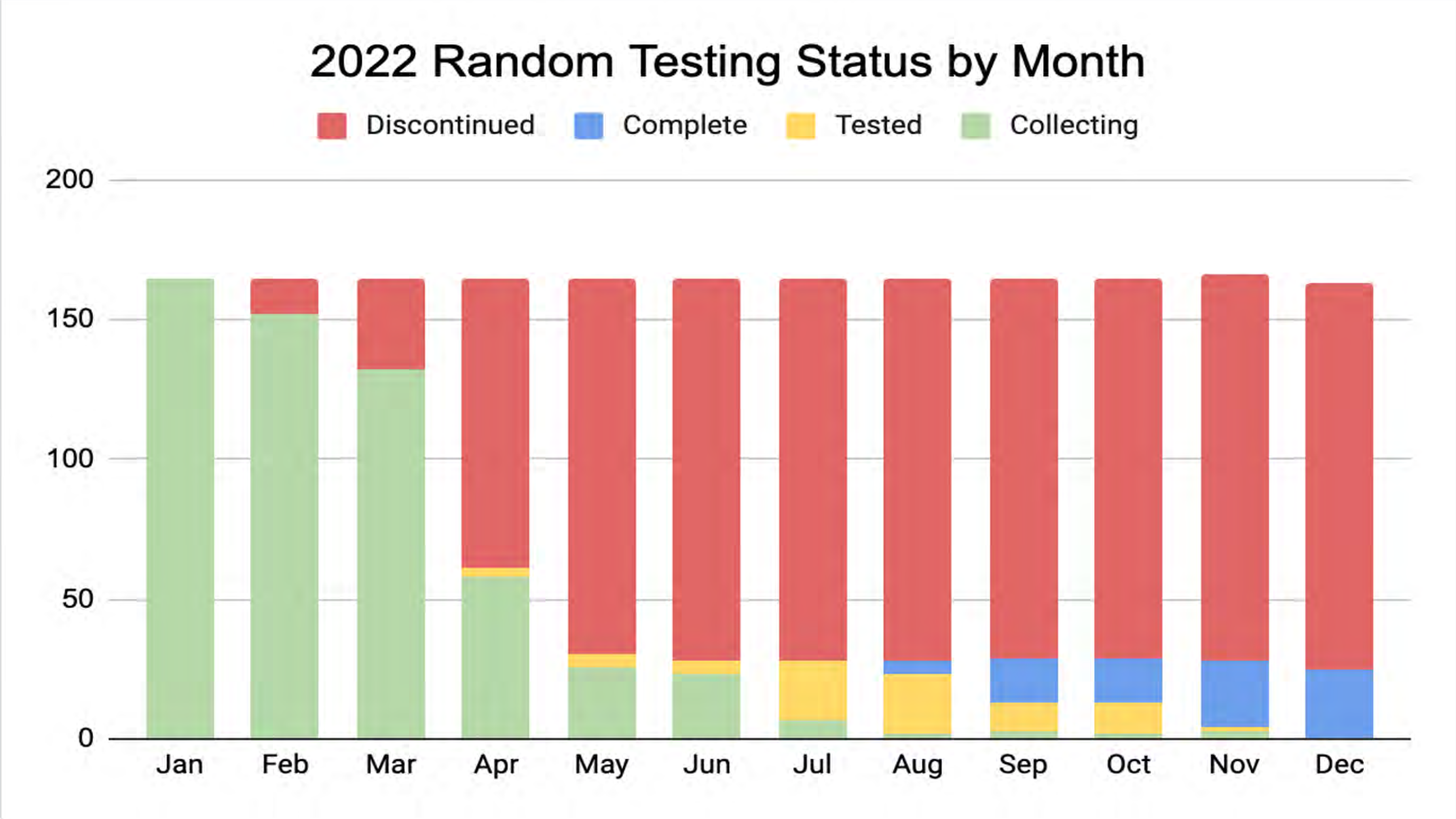
1. Select products and gather information
2. Collect products
3. Labs test products and report to CRRC
4. CRRC reviews the results and compares to original ratings



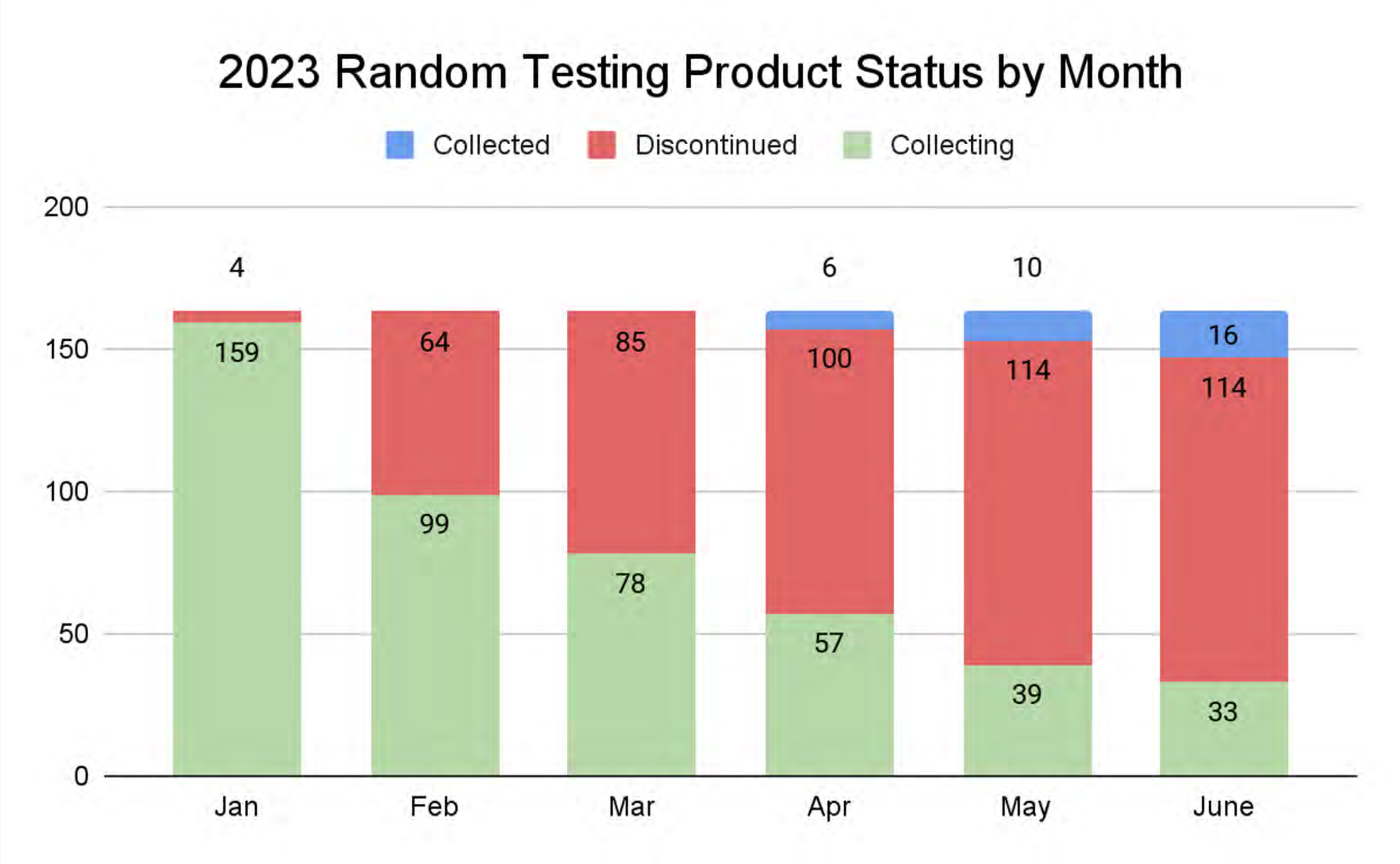
Random Testing (RT) Program Selection

Non-Mandatory Selection	Mandatory Selection
<p>Weighted Random Selection</p> 	Made-to-Order from previous RT year
	Products rated ≥ 15 years that have never gone through RT
	Other selections as needed

2022 Random Testing



2023 Random Testing



Upcoming Random Testing Program

- Specimen Collections - Emphasizing Remote 2024
 - Remote Collections are already allowed, just emphasizing the language in the Program Manual
 - Faster
 - Greater efficiency
 - Possible cost-savings



Random Testing Online Portal Integration

- Feature specification is currently being written
 - Goal to start development next year (2024)
- Features/Improvements
 - Random Testing Test Results Report online forms
 - Automated Communications (e.g., reminders, notifications, requests for information)
 - Licensees can see which products are selected and view results via the Portal

For Random Testing Program questions, contact:

Stacey Weister

stacey@coolroofs.org



CRRC Laboratory Update

Stacey Weister

Technical Manager

CRRC AITLs

- 6 Approved Roof AITLs
 - 7th expected by the end of 2023
- 5 Approved Rapid Ratings AITLs
 - 6th expected by the end of 2023
- 3 Approved Wall AITLs
 - 2 additional labs expected to be approved by the end of the year



CRRC Lab Language

- Quarterly virtual meeting for AITLs
- Review testing and reporting requirements
- “Did you know” Program facts
- Answer & discuss AITL questions



On-Site Lab Training



- Available for Labs and Licensees
- 3 Labs in 2022
 - 1 Lab to become an AITL
 - 1 Lab as a quality mechanism
 - 1 Licensee
- 2 Labs in 2023
 - 1 AITL for newly hired staff
 - 1 Lab to become an AITL (July)

To Schedule In-Person Lab Training, contact:

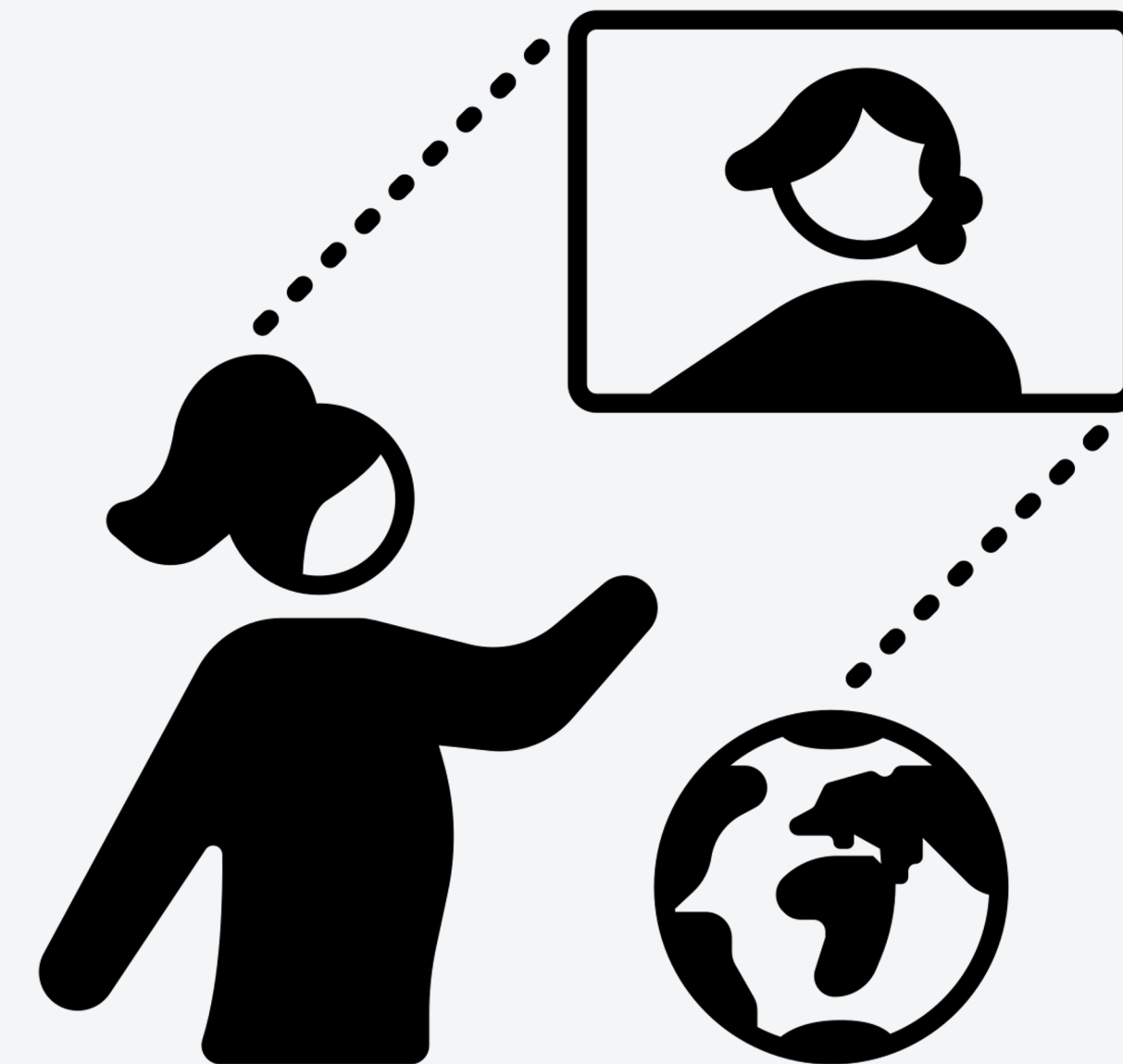
Stacey Weister

stacey@coolroofs.org



Outreach Update

Sarah Schneider
CRRC Deputy Director



Recent Webinars



NWIR Education Committee Presents



CRRRC
COOL ROOF
RATING COUNCIL



SARAH SCHNEIDER
Deputy Director of
the CRRRC



AUDREY MCGARRELL
Project Coordinator
for the CRRRC

KEEPING IT COOL:

*Using Cool Roofs to Combat Heat Islands
and Save Energy*

*Presented by Sarah Schneider and Audrey McGarrell of the Cool
Roof Rating Council.*

This presentation will provide an overview of how cool roofs
work to keep individuals, neighborhoods, and cities cooler
while producing a multitude of other benefits; how these
materials are evaluated and labeled; and how third-party
product ratings support the implementation of policies and
programs that require or promote the use of these
materials as strategies for reducing building energy use and
mitigating urban heat islands.



14 July
2022 | 3:00 PM
EST

> REGISTER NOW




NWIR
National Women in Roofing


Beat the Heat:

**How Solar-Reflective Walls
Combat Heat Islands and
Improve Energy Efficiency**


Free Webinar



CRRRC
WALL PROGRAM®



Ronnen Levinson, Ph.D
Lawrence Berkeley
National Laboratory



Audrey McGarrell
Cool Roof Rating Council

**Thursday,
July 21**
10 AM PT /
1 PM ET

AUGUST 24, 2022 AT 1PM EST

METALCON Live! Presents...

METALCON
OCTOBER 12-14 '22 | INDIANAPOLIS, IN



THIRD-PARTY RADIATIVE PERFORMANCE PRODUCT RATINGS: INTRODUCTION TO THE NEW CRRRC WALL RATING PROGRAM

Presented by
Audrey McGarrell, Project Manager at Cool Roof Rating Council (CRRRC)



CRRRC
COOL ROOF
RATING COUNCIL

Recent Speaking Engagements



Recent Interviews



Event Participation



Upcoming Presentations

June 26

CoatingsTech (Cleveland)



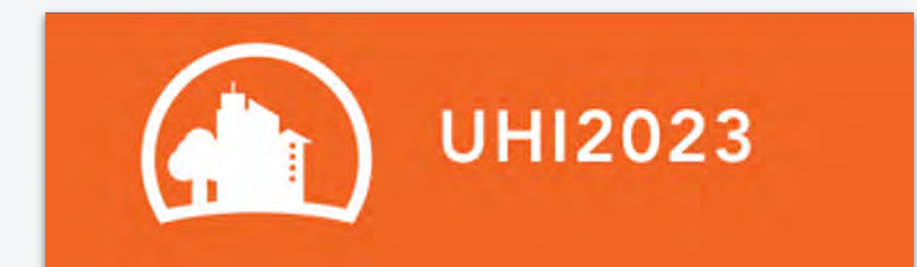
August 22

The Energy Expo (Miami)



September 25

Western Roofing Expo (Las Vegas)



October 15-18

Western Coatings Symposium (Las Vegas)

December 4-7

International Conference on Countermeasures to UHIs (Melbourne)



Recent Articles



The Number-one Resource for Roof Product Ratings



Why You Should Care About Third-party Product Ratings



September 30, 2022 at 6:00 p.m.
By Sarah Schneider, Cool Roof Fellow

February 26, 2023 at 9:00 a.m.
By Sarah Schneider, CRRC.



Social Media

Follow us for updates!

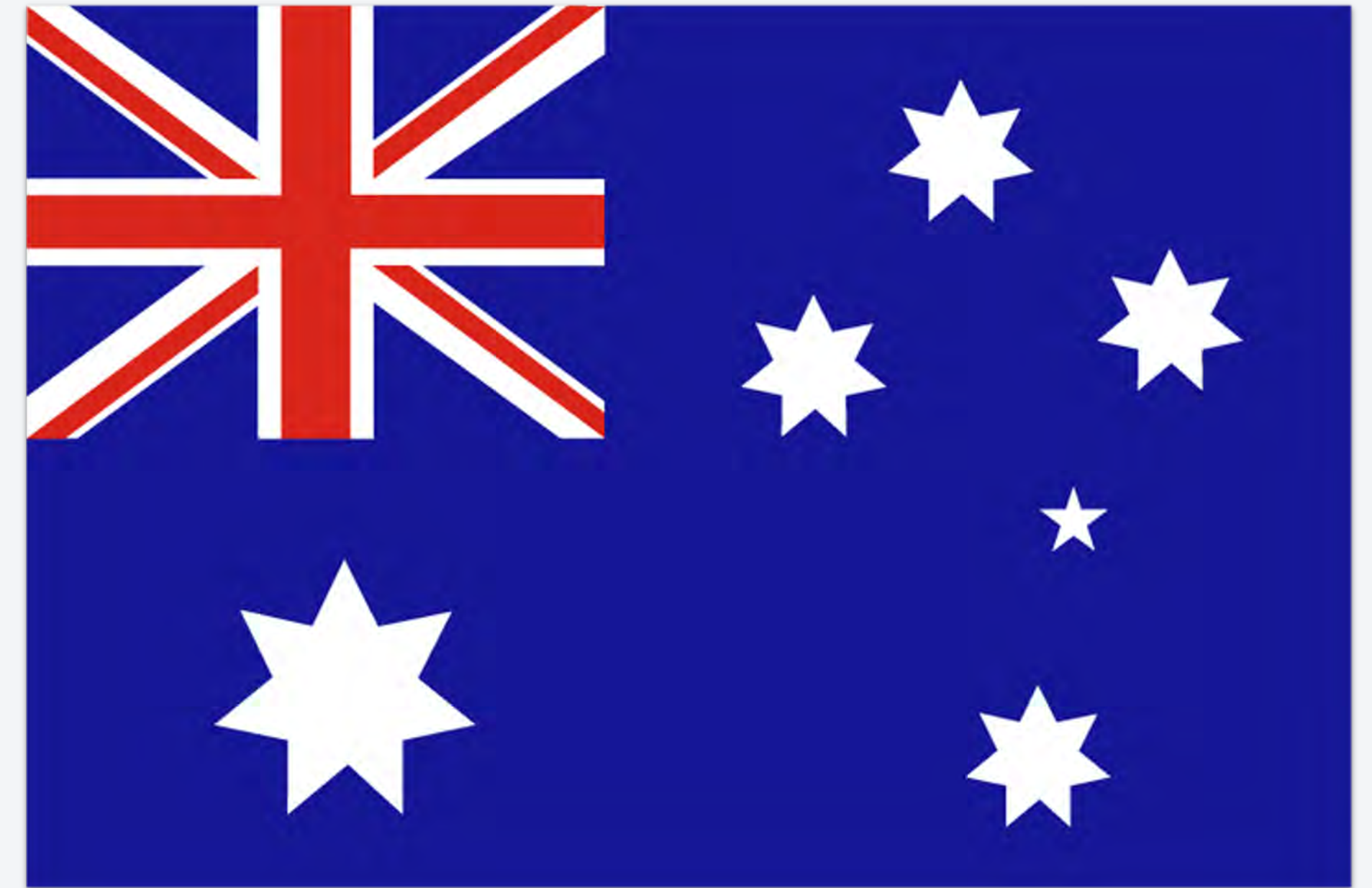


Cool Roof Rating Council
@Official_CRRC

[linkedin.com/company/cool-roof-rating-council](https://www.linkedin.com/company/cool-roof-rating-council)

International Outreach

- Opportunity to provide subject matter expertise to interested organizations
- Board-level working group:
 - Identified priority countries/regions
 - Created outreach action plan and supplemental materials
- Current country of interest is Australia
- CRRC workshop at UHI2023 conference in Melbourne



Outreach Staff Contact

Sarah Schneider
sarah@coolroofs.org

