

Evaluation Services-CRRCSM
ENERGY STAR[®] PRODUCT CERTIFICATION

PROGRAM MANUAL

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PREFACE

The *Evaluation Services CRRCSM Program Manual* has been developed under the direction of the CRRC. The CRRC is an ISO/IEC 17065 accredited Certification Body for the Environmental Protection Agency's ENERGY STAR® Roofing Products Program. The CRRC operates the Evaluation Services CRRCSM(ES-CRRC) Program to verify products for ENERGY STAR certification and does not conduct testing of products. The policies and procedures of the ES-CRRC Program are based on the policies and procedures set forth by the United States Environmental Protection Agency for the ENERGY STAR Certification Bodies under the Roofing Products Program.

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Advisory note: All referenced documents such as Evaluation Services CRRCSM Agreements, Applications, Forms, Procedures or other items may be found at <http://coolroofs.org/product-rating/energy-star>

Chapter 1.0 Program Guidelines

1.1 Scope

The Cool Roof Rating Council (CRRC) operates as a Certification Body for the United States Environmental Protection Agency's (EPA) ENERGY STAR® certification program for roofing products.

The CRRC's Evaluation Services CRRC (ES-CRRC®) Program is designed to support the ENERGY STAR program by verifying and qualifying roofing products per the policies and procedures outlined in *ENERGY STAR Program Requirements for Roof Products*; *ENERGY STAR Program Requirements Product Specifications for Roof Products - Eligibility Criteria*; and *Conditions and Criteria for Recognition of Certification Bodies for the ENERGY STAR Program*.

Advisory Note: ES-CRRC® is a separate and distinct program from the CRRC Product Rating Program. The ES-CRRC® Program is not intended to be used as a primary law or regulation, but rather as an authoritative resource that compliments adopted laws or regulations. If this program is referenced into law or regulation, the provisions of law or regulation may dictate specific requirements that are in addition to or conflict with this program. It is therefore the responsibility of the program participant to comply with applicable laws and regulations.

1.2 Liability

1.2.1 Disclaimer

The use of the CRRC as a Certification Body does not constitute a warranty by the CRRC regarding the radiative properties of a roofing product. Certification is not an endorsement of, or recommendation for, any roofing product. The CRRC is not a merchant in the business of selling roofing products, and therefore, cannot warrant products as to their merchantability or fitness for a particular use.

The CRRC therefore disclaims any and all liability, including but not limited to damages for personal or other injury, lost profits, lost savings or other consequential or incidental damages that may arise from or in connection with:

1. Services provided by, decisions made by, or reports issued or granted by any ENERGY STAR Partner;
2. Reliance on any product description, specification, rating or test, whether

appearing in a report, in a product certification notification, or a printed or electronic directory, or on a label; or

3. The sale or use of any ENERGY STAR certified roofing product certified through the ES-CRRC® Program.

1.2.2 Indemnification

Companies choosing the CRRC as a Certification Body are required to enter into a contract agreement, which contains, among other provisions, an indemnification of the CRRC, its Board of Directors, officers, and agents from and against liability.

1.3 Product Processing Procedure

1.3.1 Standard Products

The CRRC will follow the guidelines for product processing set forth by the EPA in sections 1 and 2 of *Conditions and Criteria for Recognition of Certification Bodies for the ENERGY STAR Program* and *ENERGY STAR Program Requirements Product Specification for Roof Products - Eligibility Criteria*. Below is the product processing procedure as described in those documents:

1. Confirm EPA Partner number;
2. Confirm testing lab is approved by EPA;
3. Confirm correct solar reflectance test method was used;
4. Confirm correct thermal emittance test method was used.
5. Confirm aging method meets EPA protocol; and
6. Confirm test values meet ENERGY STAR minimum requirements.
7. Confirm that other testing requirements have been met where applicable, including thickness testing at the manufacturer's recommended mil thickness, as set forth in ANSI/CRRC S100.

Once product certification has been approved, the CRRC will notify the Partner. A copy of the Notice of Product Certification will be made available to the Partner on the CRRC Online Rating Portal . In accordance with ISO/IEC 17065 (4.1.2.2(g)), any copies of the Notice of Product Certification shall be reproduced in its entirety. All references to ENERGY STAR certification, including logos, must adhere to *the ENERGY STAR Requirements for Roof Products - Partner Commitments and Disqualification Procedures - ENERGY STAR Products*.

1.3.2 Color Family Products

The verification of Color Family groups from parties seeking ENERGY STAR certification through the ES-CRRC® Program will be carried out in accordance with Appendix 6 in the *CRRC-1 Product Rating Program Manual*. As ENERGY STAR's Color Family Program was adopted from the CRRC Color Family Program, the ENERGY STAR Specification document references the CRRC predefined ranges for Color Family establishment (see section 1.4 Color Families of ENERGY STAR Program Requirements Product Specification for Roof Products).

1.3.3 Compound Ratings

The ES-CRRC® Program will follow the CRRC Product Rating Program protocol for establishing compound ratings for certification under the ENERGY STAR program.

1.3.4 Change in Product Formula

Please refer to *ENERGY STAR Program Requirements Product Specification for Roof Products - Eligibility Criteria*.

1.4 Verification Testing

1.4.1 Overview

Participation in the ENERGY STAR program requires annual Verification Testing for certified products. This testing shall be carried out in conjunction with the annual CRRC Random Testing process, and shall be in accordance with the procedure outlined below. ENERGY STAR products that are also rated through the CRRC Product Rating Program and are selected for CRRC Random Testing will be subject to the process outlined in Appendix 4 in the *CRRC-1 Product Rating Program Manual*. Products that are ENERGY STAR certified will additionally be subject to EPA specified procedures per *ENERGY STAR Verification Testing for Certification Bodies Test Sample Sizes and Determining Testing Failures Non-Lighting Products; Conditions and Criteria for Recognition of Certification Bodies for the ENERGY STAR Program; EPA Directive: ENERGY STAR Verification Testing for Certification Bodies; EPA Directive; and ENERGY STAR Verification Testing Supplement*, which is further expanded for the ES-CRRC® Program as outlined below. Upon completion of the annual Verification Testing Program, Partners whose products are not also selected for the CRRC Random Testing Program will be invoiced for the costs incurred. This includes

sample collection and testing fees, and CRRC staff labor.

1.4.2 Product Selection

Since products may overlap between the CRRC Product Rating Program and the ES-CRRC® Program, the first round of product selection for Verification Testing will be collected under the CRRC Product Rating Program. If the number of selected CRRC rated products does not reach the 10% requirement for ENERGY STAR products, the CRRC will randomly select additional ENERGY STAR listed products to reach the 10% threshold. Testing to verify challenges to certification is conducted in addition to the 10% of randomly selected products.

1.4.3 Product Collection

Samples for Verification Testing will be collected in accordance with *ENERGY STAR Verification Testing for Certification Bodies Test Sample Sizes and Determining Testing Failures: Non-Lighting Products*. For products that are also CRRC rated, sample collection will be conducted in accordance with Appendix 4 in the *CRRC-1 Product Rating Program Manual*. For each rated product, the Partner must submit the contact information for one location where the final finished product may be procured, which may include a manufacturing plant, contractor, or distributor. Additional site information will be requested if the third-party collection agency is unable to procure the product based on the information provided.

1.4.4 Evaluation of Test Results

Certified products will be verified that they meet ENERGY STAR's radiative properties performance minimum values per *ENERGY STAR Program Requirements Product Specification for Roof Products - Eligibility Criteria*. The measured values will be compared to the reported values on the ENERGY STAR Qualified Products List to determine if the Verification Testing results meet the threshold criteria and product eligibility criteria (i.e. minimum allowable values) contained in the *ENERGY STAR Program Requirements Product Specification for Roof Products - Eligibility Criteria*. Should the values not meet the threshold minimum, CRRC will notify EPA by submitting a failure report within two (2) business days as outlined in section 1.4.5 below.

1.4.5 Failed Products

If the Verification Testing results do not meet ENERGY STAR's minimum solar reflectance values, the product will have failed testing. The CRRC will notify EPA within two (2) business days of the failure, in accordance with *ENERGY STAR Verification Testing for Certification Bodies Test Sample Sizes and Determining Testing Failures*.

1.4.6 Appeals

If the Partner has reason to believe that a Verification Testing failure is in error and elects to dispute the results, the Partner shall follow the *ENERGY STAR Verification Testing for Certification Bodies Test Sample Sizes and Determining Testing Failures* section on Consequences of Testing Failures.

1.4.7 Challenge Testing

Challenge testing may be initiated. In accordance with ENERGY STAR policy per the *Conditions and Criteria for Recognition of Certification Bodies for the ENERGY STAR Program*, the CRRC will notify the challenged Partner after the sample for challenge testing has been procured. The CRRC will inform the EPA within two (2) business days of the challenge initiation, as well as the within two (2) business days of receiving the test results from the challenge testing.

1.5 Internal Audits

The CRRC shall conduct an annual internal audit pursuant to the accreditation requirements of International Standard (ISO) 17065. Accreditation to ISO 17065 is required by EPA to be an ENERGY STAR Certification Body. The purpose of the internal audit is to ensure compliance with the International Standard, ENERGY STAR requirements for Certification Bodies, and CRRC and ES-CRRC® Program policies and procedures, and to identify if there are deficiencies (nonconformities) that must be corrected. In the event the CRRC Quality Manager is unable to perform the task, he/she may delegate internal auditing responsibility to qualified staff.

Chapter 2.0 Referencing ES-CRRC

2.1 General

To clearly distinguish the ES-CRRC® Program from the CRRC Product Rating Program, the CRRC has

laid out specific guidelines for ES-CRRC® Program participation.

2.2 Rules for Referencing ES-CRRC®

By signing the *Evaluation Services CRRCSM Partner Agreement* participants agree to the following:

1. The ES-CRRC® Program is separate and distinct from the CRRC Product Rating Program.
 - a. As such, ES-CRRC® Program participants cannot in any way imply or directly state that they are participants in the CRRC Product Rating Program, unless they are also a participant of the CRRC Product Rating Program.
 - i. This includes use of any CRRC Product Rating Program labels, logos, names or marks.
 - b. The ES-CRRC® Program participant cannot imply or state that their company or products are certified through the ES-CRRC® Program or by the CRRC.
 - c. The ES-CRRC® Program participant cannot market to any third party that it is participating in the ES-CRRC® Program.
 - d. If these policies are violated in any way, a \$5,000 fee *per violation* plus CRRC attorney's fees may be enforced.
2. Failure to comply with the conditions in the *Evaluation Services CRRCSM Partner Agreement* may result in termination from the ES-CRRC® Program.
3. For complete details, please review the *Evaluation Services CRRCSM Partner Agreement*.

Chapter 3.0 Revocation or Closing Files

3.1 Scope

The CRRC shall have the authority to revoke or modify (including but not limited to imposition of further conditions) for cause any product certification granted under this program. "Cause" shall include:

- (A) Failure of the material to conform to the certification specifications as defined by the ES-CRRC® Program and the ENERGY STAR program.
- (B) Failure of the material, and/or method of manufacturing, to remain consistent.
- (C) Failure to comply with any condition or rule of the ES-CRRC® Program.

- (D) Any intentional misstatement in the application or any knowingly inaccurate data submitted in support thereof.
- (E) Failure to comply with any provision in the *Evaluation Services CRRCSM Partner Agreement*.
- (F) Any other ground considered as adequate cause in the judgment of the CRRC whether of the same or a different type than listed above.

3.2 Disqualification and Use of ENERGY STAR Logo

Partner's with certified products that are disqualified from the ENERGY STAR program for any reason shall adhere to the logo use requirements in the *ENERGY STAR Requirements for Roof Products - Partner Commitments and Disqualification Procedures - ENERGY STAR Products*.

3.3 Reinstatement

Reinstatement of products shall be at the discretion of EPA. If reinstatement is granted, product submission shall be in accordance with the requirements for roofing product submission as stipulated in *ENERGY STAR Program Requirements Product Specification for Roof Products - Eligibility Criteria*, unless otherwise directed by EPA.

3.4 Consultation

Prior to the CRRC acting on the closing of files, the holder of the ENERGY STAR certification shall be given reasonable notice and an opportunity to be heard in accordance with Chapter 4.0 below.

Chapter 4.0 Complaints

4.1 Purpose

This chapter provides guidance on how to submit complaints to the CRRC. Any party shall be afforded the opportunity to discuss, clarify, and resolve disagreements with respect to cited disputes concerning actions by the CRRC or by an ENERGY STAR Partner regarding certification policies and procedures prior to that party submitting a complaint.

4.2 Submission

Any party may submit a written complaint to the CRRC. Complaints shall be sent to CRRC headquarters and shall include the following information:

- (A) The name(s) and address(s) of the submitter(s), telephone, facsimile, and e-mail contact numbers;
- (B) A description of the complaint;
- (C) Relevant information to support the complaint; and
- (D) In the event of a complaint regarding the accuracy of an ENERGY STAR Partner's product certification, the complainant shall pay a filing fee that includes the cost of obtaining and testing product samples.

The CRRC reserves the right to request further information or written clarification.

4.3 Complaints Regarding Accuracy of Product Certification Claims

4.3.1 Notification

Upon receipt of the complaint, the CRRC shall forward a notice indicating receipt of the complaint, an action plan that further identifies cost and timeline for resolving the complaint, and shall assign the submission a file number. Any ENERGY STAR Partner who is the subject of a warranted complaint that requires further investigation by the CRRC shall be notified. The identity of the person filing the complaint will be confidential. If an ENERGY STAR product customer files a complaint, they will be notified of its submission to the EPA.

4.3.2 Review

The CRRC may take such action as it deems appropriate, in its sole discretion, to address the complaint. In the event of a complaint regarding inaccuracy of an ENERGY STAR Partner's product certification, the CRRC will obtain a product sample through the methods described in Section 1.4 (Verification Testing) and shall perform testing in accordance with the Verification Testing procedures. In the event the product rating was inaccurate, the complaining party shall have its filing fee refunded.

4.4 Responsibility of Partners

In accordance with ISO 17065 Clause 4.1.2.2 (j), the ENERGY STAR Partner shall keep a record of all complaints made known to it relating to compliance with certification requirements and makes these records available to the CRRC when requested and:

- (A) Takes appropriate action with respect to such complaints and any deficiencies found

in products that affect compliance with the requirements for ENERGY STAR certification;

- (B) Documents the actions taken; and
- (C) Informs the CRRC, without delay, of changes that may affect its ability to conform with the ENERGY STAR certification requirements.

Chapter 5.0 Appeals

5.1 General

An ENERGY STAR Partner aggrieved by any determination by the CRRC, pursuant to Chapter 3.0 above, who chooses to appeal, shall do so within 20 business days of the date of receipt of said written determination or order.

5.2 Submission

Appeals shall be submitted in writing, addressed to the CRRC headquarters, and shall include the following information:

- (A) The name and address of the appellant, telephone, facsimile, and email contact numbers, and the name and address of legal counsel if the appellant desires to have representation;
- (B) A description of the roofing product under appeal;
- (C) A description of the issue being appealed;
- (D) A statement of reasons for appeal;
- (E) Relevant evidence and supporting data or information; and
- (F) A filing fee to be determined by the CRRC.

The CRRC reserves the right to request further information or written clarification from the appellant, and shall extend the appeal review if, in the opinion of the CRRC, the content of the additional information or written clarification is of substance to warrant additional time.

5.3 Notification

The CRRC shall assign a file number upon receipt of the appeal. All future correspondence to and from the CRRC shall reference the file number. The appellant

shall be notified of the convening of any associated hearing by the CRRC.

5.4 Appeal Review

Upon receipt of a completed submission, the CRRC shall evaluate the submission and render a decision of the matters in dispute within 20 business days of receipt of the completed submission or within 20 business days of a hearing if one is convened. The decision to hold a hearing shall be at the discretion of the CRRC Board of Directors. The CRRC reserves the right to extend the time of review if the CRRC determines that there is sufficient cause. The CRRC shall notify the appellant of the CRRC decision by certified mail, return receipt requested, or other method, which provides evidence of and a receipt for delivery.

Chapter 6.0 Arbitration

6.1 General

If the appellant disputes the decision of the CRRC under Chapter 5.0, the appellant has the right to appeal solely through arbitration. The appellant shall notify the CRRC of a request for arbitration in writing within 20 business days of receipt of the written appeal review decision. The request shall include the following information:

- (A) The name(s) and address(es) of the appellant(s), telephone, facsimile, and email contact numbers, and name and address of legal counsel if the appellant desires to have said representation;
- (B) A description of the roofing product under arbitration;
- (C) A description of the issue being arbitrated;
- (D) A statement of reason for the arbitration;
- (E) Relevant evidence and supporting data or information; and
- (F) A concise statement of its rebuttal position(s).

6.2 Arbitration Method

The arbitration shall consist of one of the following methods:

- (A) A single arbitrator selected jointly by the appellant and the CRRC to investigate and resolve the matter, or

- (B)** The CRRC and the appellant shall use the American Arbitration Association's procedures for the selection of a single arbitrator from a list of seven candidates, with each party having the right to strike three.

6.3 Cost

The appellant shall be responsible for all time and expense costs incidental to the arbitration proceedings.

6.4 Hearing

The hearing may be conducted under the American Arbitration Association procedures for arbitration if requested by either party. Unless otherwise agreed upon by all parties, the arbitrator(s) shall issue a written decision within 15 business days of the hearing or of the final written submission.

DISCLAIMER: Since the CRRC is a participant in EPA's ENERGY STAR Program, the processes and procedures outlined in Chapters 3, 4, 5, and 6 of this document can be superseded at any time by the involvement of EPA and its enforcement of the ENERGY STAR program.