CRRC Wall Rating Program

Solar reflective walls reduce the amount of the sun’s heat that is absorbed by the building.

The CRRC Wall Rating Program
Offers exterior wall product ratings based on the product’s ability to keep the building cool

- Credible test values from accredited labs
- Third-party data shown on public directory
- Ratings shown on product labels
- Anticipated launch: Spring 2022
- See more at coolroofs.org/walls

CRRC Rated Wall Products Directory
Valuable resource for establishing:

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CRRC Wall Rating Program

Save Energy¹
Reduce the Urban Heat Island Effect²
Reduce Ground-level Ozone³
Reduce Peak Power Demand¹

Why Reference CRRC Wall Rating Program Ratings

- CRRC participation open to both standard and “cool” products
- Codes and programs set “cool” definitions, performance requirements
  - Allows for flexibility and control of program requirements
  - Programs can raise or lower minimum requirements as needed
  - Enables consumer choice - compare a wide variety of products
- Codes and programs already have reflective wall requirements:
- CRRC quality assurance measures ensure product rating integrity

Contact the CRRC: coolroofs.org/walls
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ASHRAE 90.1-2016
CALGreen 2019
Green Globes Standard 2019
Green Seal Standard GS-11-2015
Hawaii Energy Building Code
IgCC 2018
How Solar Reflective Walls Work

Solar reflectance and thermal emittance are two properties that quantify the “coolness” of a wall. Both properties are rated on a scale from 0 to 1, where 1 is the most reflective or emissive.

**Standard wall**

The sun’s radiation hits the exterior wall.

**Solar reflectance**: the fraction of solar energy that is reflected by the wall.

**Thermal Emittance**: the relative ability of the wall surface to radiate absorbed heat.

Some solar heat is absorbed by the wall and transferred into the building.

Solar reflective walls aren’t necessarily white—"cool color" products use darker-colored pigments but are highly reflective in the near infrared (non-visible) portion of the solar spectrum.

**Solar reflective wall**

More energy is reflected by the wall.

Less heat is transferred into the building.

About the CRRC

The Cool Roof Rating Council (CRRC) is a 501(c)(3) non-profit organization founded in 1998. The CRRC is dedicated to developing, implementing, and communicating an accurate radiative energy performance rating system for the building envelope, supporting research, and serving as an educational resource. CRRC ratings are based on independent testing and published on the Rated Products Directory, and can be used to comply with building codes and programs.

The CRRC has a diverse membership of industry, test labs, academia, government, and contractors. The CRRC is currently developing a rating program for exterior wall products. Learn more at: coolroofs.org/walls

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Adopting a cool walls requirement into Hawaii’s building code was a sensible solution that saves energy and reduces construction costs."

— Howard Wiig, Hawaii State Energy Office

