



Roofing Reflections

July 2006

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Contact Us!

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Send items you'd like us to include in future newsletters to:

Cool Roof Rating Council

1738 Excelsior Avenue
Oakland, CA 94602

Nominating Committee

Congratulations to the 2006-2007 Board of Directors! Newly elected to the Board are: Greg Crawford (American Iron and Steel Institute), Marty Hastings (Valspar) and Joe Mellott (Momentum Technologies, Inc.). Dave Roodvoets (SPRI) was reelected for a second term.

A full list of Board members is at www.coolroofs.org/aboutthecrrc/boardofdirectors.html.

The CRRC would like to thank Jonathan Humble (American Iron and Steel Institute) and Devra Wang (Natural Resources Defense Council) for their past participation on the Board of Directors and Mr. Humble's service as Board treasurer for the past six years. Mr. Humble will continue to serve as the Chairman of the Ratings, Codes and Programs Committee.

Chair's Corner

What a year! CRRC has moved from sinking in financial quicksand to standing firmly on the ground in a position of economic independence. For the last year, CRRC has experienced a tidal wave of product listings and new licensees in anticipation of Title 24. In just five years, CRRC has sprouted from seed money, to being an almost \$700,000 organization, with over 120 licensees and over 700 products listed in the product directory. While CRRC supplies the data required for compliance with California's building code, CRRC *is not* a "California organization." Our data is now being tapped by LEED™, Energy Star® and ASHRAE. We anticipate that other states, as they develop their energy policies, will also utilize this valuable source of data. While it sounds like we should just coast from here on out, that is the last thing on our mind. The need for worldwide energy conservation is critical, and other countries are actively developing programs that will likely require "cool roofs." We believe that CRRC has constructed a sound and reasonable program to measure credible radiative data, and it is our belief that all interested in reflective roofing have something to gain by utilizing the existing CRRC program.

Thank you for making this possible with your ongoing participation!

David Cocuzzi

Ratings, Programs and Codes

Title 24 Update

The California Energy Commission (CEC) has approved changes to the 2005 cool roof standards related to liquid field-applied coatings. These changes will take effect approximately 30 days after approval by the California Buildings Standards Commission, expected in late July. The required dry mil thickness for coatings will be changed from a 20 dry mil minimum to whatever thickness is recommended by the manufacturer for a given substrate. In addition, as an alternative to ASTM D2370, CEC is adding the ASTM D522 (Test B) mandrel test for elongation and tensile strength at low temperatures.

The CEC is currently expecting the 2008 update to Title 24 to take effect on November 1, 2008. This update is likely to include prescriptive requirements for low-slope residential and steep-slope residential and non-residential buildings. A public workshop will be held on July 12 and 13 on the 2008 Building Energy Efficiency Standards; roof-related topics will be covered on the 13th.

To read more about the 2008 standards, visit: <http://www.energy.ca.gov/title24/2008standards/>

Green Globes

The Green Building Initiative, an organization which adopts energy-efficient and environmentally sustainable building practices for residential and commercial construction, has recently kicked off the Green Globes system. Green Globes is a green management tool that includes assessment protocol, a rating system, and a guide featuring ways to integrate

environmentally friendly designs into commercial buildings. Their questionnaire-driven rating system, *Green Globes V. 1 Post-Construction Assessment* (115 available points), includes a section on cool roofing requirements (Section B.2: Reduce Ecological Impacts, 40 points). **Section B.2.6** asks what percentage of the roof has measures to mitigate the heat island effect through either a cool or green roof. A roof may be awarded as many as 10 points for 1-100 % of roof coverage with either vegetation or high albedo materials or a combination of both. Green Globes' standard for high albedo roofing material is a minimum SRI of 78 for low slope and a minimum of 29 for steep slope.

ASHRAE Advanced Energy Design Guides

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) is expanding its line of *Advanced Energy Design Guides*. The *Advanced Energy Design Guide for Small Office Buildings* was the first in the series to be published in 2005, with the *Advanced Energy Design Guide for Small Retail* scheduled to be released in the fall of 2006. These guides provide energy-efficiency measures that can be directly applied depending on the project. By following the guide's suggestions, energy use can be reduced by 30% when compared to ASHRAE Standard 90.1 -1999. In climate zones 1, 2, and 3, which cover the southern states of the US, the design guide includes a suggestion for cool roofs with a reference to the CRRC Product Rating Program.

For more information, see <http://www.ashrae.org>.

Technical Update

Tiles

The CRRC, in conjunction with Lawrence Berkeley National Laboratory, is working on a clay and concrete tile study. The goal of the study is to develop a test method to measure the solar reflectance of these high profile shaped products that allows a relatively small sample size. The CRRC held a conference call for interested parties to discuss the study's test procedure in May.

Wood Products

The CRRC is working with the Cedar Shake and Shingle Bureau to develop a way to rate their wood roofing products. Because they are made of a natural material, there is a variation in the initial color of the shingles. The CRRC and the Cedar Shake and Shingle Bureau are working with Lawrence Berkeley National Laboratory on some initial solar reflectance tests.

Upcoming Lab Training

The CRRC is holding a Lab Training class at Lawrence Berkeley National Laboratory in Berkeley, California on September 21, 2006. This class is full, but another training will be held in Spring 2007 if there is sufficient interest. Email info@coolroofs.org if you are interested in attending a lab training class.

CRRC by the Numbers

We are happy to announce that there are now over 700 products in the CRRC Rated Products Directory. Last year showed a tremendous amount of growth in members, licensees and products and the CRRC is happy to see that this growth trend is continuing.

Membership and Outreach

CRRC in Print

The CRRC is working with Maintenance Solutions Magazine on a special section focusing on cool roofing. Look for this in the August 2006 issue of Maintenance Solutions; it will be available at <http://www.facilitiesnet.com/ms/>.

Upcoming Events

CRRC staff will be attending the US Green Building Council's Greenbuild tradeshow in November in Denver, Colorado. This is the first time the CRRC has staffed a booth at this show and reflects a new focus on marketing the Council's Product Rating Program to architects, roof specifiers and contractors.

CRRC staff attended the Western States Roofing Contractors Association (WSRCA) tradeshow in Las Vegas on June 26 and 27. Staff enjoyed talking to a variety of contractors, consultants and manufacturers.

For a list of other upcoming CRRC meetings and events, please visit our *Upcoming Meetings and Events* page at http://www.coolroofs.org/crrcnews_announcement3.htm

