



Technical Committee Update

CRRC Membership Meeting
Reno, Nevada
June 17, 2009



Technical Update

- Rating Program Changes
- Ongoing Studies
- Technical Committee
Administrative Updates



CRRC-1 Changes

- Uncharacteristically Damaged Samples
- Single Ply Thickness Measurements
- Interim Tile Rating Procedure



Uncharacteristically Damaged Samples

As 3 samples are exposed at each of the 3 Test Farm locations, if 1 sample (and no more than 1 sample) is uncharacteristically damaged during weathering exposure, it will be removed from the calculation of the Aged Radiative Properties.



Single Ply Thickness Measurements

- For a compound rating for single ply products, a thickness test will verify that the thinnest thickness is tested.
- ASTM D571
- Thickness must be within 10% of the manufacturer stated thickness



Interim Tile Rating Procedure

- Until June 1, 2010, tile products shall be tested using CRRC-1 Test Method 1.
- A minimum of 6 measurements will be taken on 9 tiles, with additional measurements taken until the standard error is ≤ 0.02 .
- Measurement locations will be marked allowing for the same locations to be measured for aged ratings.
- Tile specimens will be flat, unless only profiled products are available.



Interim Tile Rating Procedure

- Variegated 9 tile specimens must represent the range of colors and ratio of an entire roof assembly.
- 3 samples will be placed at each of the 3 test farm locations for weathering.
- Samples may be cut to remove untestable area (due to profile).



Ongoing Studies

- High Profile Test Method
- Reflectometer Sensor Research
- E1918A Round Robin



High Profile Test Method

Researching alternatives to E1918 that can capture multiple refraction effects from profile.

Possible Test Methods :

- Modified C1549
- E1918A with an artificial light source
 - Testing by ORNL
- E1918/C1549 hybrid
- Applying a calculated correction, using a computer model
 - Testing by Device & Services



Reflectometer Sensor Research

- A study to compare the Version 5 reflectometer with the new Version 6 reflectometer.
- Testing by Device and Services and ORNL.
- Study will be complete by October 2009.



E1918A Round Robin

- Three labs have completed testing for E1918A.
- Some samples were broken during shipment
- Next Steps



TC Administrative Updates

- Technical Committee Meetings & Guidelines
- Technical Committee Voting Members & Alternates
- DOE Grant



Technical Committee Meetings & Guidelines

Increased number of TC meetings to 4 per year (2 in-person & 2 conference calls)

Established data submission guidelines:

- Data provided for every assertion, in Excel format, 2 weeks prior to TC meeting
- Summary Sheet with investigation methods, 2 weeks prior to TC meeting
- Analysis and conclusions supported by evidence, 1 week prior to TC meeting



TC Voting Members & Alternates

	Voting Member	Company	Alternate	Company
1	Bill Kirn	National Coatings	Tim Kersey	Siplast
2	Hashem Akbari	Lawrence Berkeley National Laboratory	Ronnen Levinson	LBNL
3	Andre Desjarlais	Oak Ridge National Laboratory	Bill Miller	ORNL
4	Stan Graveline	Sarnafil, Inc.	Mike Ennis	SPRI
5	Darrel Higgs	Owens Corning	Jim Baker	ARMA
6	Scott Kriner	MCA	Chuck Praeger	Metal Building Manufacturers Association
7	Rich Lee	Momentum Technologies	Richard Slomko	Atlas Material Testing Technology
8	David Roodvoets	DLR Consultants	Matthew Friday	Q-Lab Weathering Research Service
9	Richard Allan Snyder	CertainTeed Corporation	Tim McQuillen	Firestone Building Products
10	Kurt Sosinski	Tremco, Inc.	Ingo Joedicke	ISP Minerals Inc
11	Mike Vogel	U.S. Tile Company	Yoshi Suzuki	MCA Clay Tile
12	Jim Leonard	E.R. Systems	Tom Ennis	Insulating Coatings Corporation
13	Marty Hastings	Dura Coat Products	Greg Crawford	American Iron & Steel Institute
14	Payam Bozorgchami	CEC		
15	Jerry Vandewater	Tile Roofing Technology	Rick Olson	Tile Roofing Institute



DOE Grant

- DOE Building Envelope & Windows R&D Division
 - Cooperative Agreement
- CRRC will seek funding for Technical Committee projects:
 - High Profile Test Method
 - Asphalt Shingles Test Method
 - Case Study Demonstration Project
 - Solar Reflectance Index Study
 - CRRC Laboratory Training