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 un-testable 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