

Meeting Notes from NFRC Combined Task Group Meeting  
Interior Attachments Task Group and Exterior Attachments Task Group  
October 29, 2008

Those in attendance on the conference call:

Dennis Anderson  
Andy Rittenhouse  
Darrell Smith  
Dennis Roberts  
Ed VerVane  
Fred Higgins  
Jayson Vandervoort  
Kara Stoddard  
Kerry Haglund  
Michael Cienian  
Michael Rubin  
Robert Simons  
Roger LeBrun  
Ross McCluney  
Sanjiv Malkan  
Scott Hanlon  
Steve Harp  
Steve Strawn  
Thomas Zaremba  
Tom Merker  
Tom Morrissey  
Willie duPont  
Don Smallwood  
Jim Krahn  
Joe Hayden  
Marcia Falke

Meeting was called to Order by Chair Fred Higgins who reminded the group of the NFRC Antitrust policy. Mike Cienian volunteered to capture meeting notes. Agenda was reviewed and approved.

Unfinished Business:

**3a) Product Installation Guidelines** – Tom Merker lead the group through the most current version of this document. Illustrations had been added which were quite helpful.

The group decided to identify (3) conditions for testing and simulation:

- 1) nothing in the window
- 2) attachment fully deployed, but in open position
- 3) attachment fully deployed, but in closed position

The group agreed that our assumption would be that an attachment that was fully retracted would test/simulate as if there was no attachment in the window.

The group reviewed the diagram that Fred Higgins had provided to help clarify terminology. It was pointed out that this diagram was not a test fixture schematic, and that there would be a need for such a schematic.

The topic of edge seals was raised; Tom Merker will add edge seals to the bullet points for Interior Attachments.

To expand the understanding, Ross McCluney suggested that we should include pictures of products mounted per Code, and the same products mounted for testing. They may not be the same.

Tom Merker will update and distribute the document after the meeting.

There was discussion in regards to the products from Ed VerVane's company (Winsulator) and whether they are a better fit for Interior Attachments or Storm Windows Task Group work. Tom Zaremba will review the Product Grouping worksheet that Sanjiv Malkan is developing to see if Storm Windows are appropriate to include. This will be reviewed at our next combined meeting.

Darrell Smith suggested that the Tom Merker document be named to clearly express that it is "Installation Guidelines for Testing and Simulation." There may be a need for a more specific disclaimer.

Fred and the group thanked Tom Merker for the good work in advancing this document.

**3b) NFRC 100** – Rob Simons gave an update on the Work Group he is chairing that is updating a version of the NFRC 100 U-Factor Technical Procedure to include attachment products. Rob had distributed a document that was converted from a PDF. Staff will send Rob the Word Version of the document so it will be easier to update and track changes.

Rob had added section 5.8 and asked those interested to review and comment and return any updates to Rob by December 1<sup>st</sup>, 2008. This will give Rob time to compile the changes and share with the combined Task Groups in our December meeting.

In discussion on the Reference Base Case Window list, Willie DuPont explained that he and his team are working to develop a set of Base Case windows that perform like the ones we had selected from the NFRC materials, but are sized/constructed to be more accommodating for testing purposes. He will provide an update on this at the Jacksonville meeting.

**3c) NFRC 200** – John Gant is leading this work group that will adapt the NFRC 200 SHGC technical procedures to accommodate attachments. While John was unable to attend today’s meeting, Fred Higgins shared John’s report. It was noted that the NFRC 200 Work Group will reconvene soon, as the Product List, Base Case Windows and NFRC100 work is needed to be fairly complete before the 200 work commences.

**3d) Product List** – Sanjiv Malkan lead the group through the latest version of the Product List. This document has rows that are organized to show Product Groupings/ Product Families as would be most compatible for NFRC simulation, testing, and possibly rating.

Two new columns were added to the document: Emittance and Solar Absorbance. The group worked through some typical examples and Sanjiv will populate these spreadsheet columns. After some discussion, it was agreed that the Emittance value would be .9 plus or minus .05.

**3e) Sharing Session** - Marilyne Anderson of MIT had been contacted by Mike Cienian in regards to sharing some of her work and projects as a benchmarking and knowledge sharing session for the combined Attachments task groups. Marilyne is interested in participating and is waiting to hear back from our team. As time was running out in today’s meeting, this topic will be deferred to the Jacksonville meeting.

**4a) Road Map Work Group** – Fred Higgins, Mike Cienian, Charlie Curcija and Tom Morrissey had some preliminary discussions on creating a “road map” for project planning purposes of our combined Task Groups, with the goal of completing NFRC approved technical procedures, ratings, certification and labeling processes in the most expedient timeframe possible.

Fred invited all who are interested in being part of a Road Map Work Group to let him know via email.

**Other new business** – Ross McCluney and Willie duPont suggested additional spreadsheet pages to the Sanjiv Malkan document that would identify whether the products are currently covered in the Windows and Therm simulation programs, and as U-factor and other values are obtained, be the place to capture this information.

Meeting was adjourned, with much thanks to participants and well wishes to all for safe travels to the NFRC Jacksonville meetings.

Submitted by:  
Mike Cienian