



MINUTES

U-Factor Subcommittee

Tuesday, March 3, 2009

Under Technical Committee Block: 1:30 p.m. – 5:00 p.m.

Chair: *Michael Thoman, Architectural Testing, Inc.*

Vice Chair: *Mahabir Bhandari, Carli, Inc.*

1. Chair called the meeting to order at 2:30 - antitrust reminder given and reviewed voting requirements
2. Scott Hanlon (Staff) appointed recording secretary
3. D. DeBlock / S. Harp moved to approve the minutes from the Fall 2008 (Jacksonville, FL) meeting as presented. Passed by unanimous voice vote.
4. The agenda was reviewed and approved as presented
5. Reports
 - a. Tubular Daylighting Devices Task Group – D. DeBlock reported there are no actions items to move forward.
 - b. Garage / Rolling Door Task Group – J. Hetzel reported that the TG revised their scope because the TG previous tasks were completed. The DASMA membership hopes to provide some preliminary testing values based on new 100 and 102 procedures by July meeting. The simulation manual procedure for garage door modeling will be to TIPC for approval. The Door TG will dissolve when the following are complete: simulation manual for garage doors; DASMA research; and completion of the vertical jamb hardware research.
 - c. Door Task Group – D. DeBlock reported that there is a door ballot to be handled later in the U-Factor SC meeting.
 - d. Testing Laboratory Task Group – M. Thoman reported no official meetings and no new action items.
 - e. Skylight Task Group – R. LeBrun reported that the TG discussed the possibility of a research project on curb mounted skylights. M. Thoman requested that R. LeBrun provide insight on the possibility to ballot any part of Section 5.3 of the NFRC 100 for the 2009 document cycle.
6. Unfinished Business
 - a. Progress of work groups and 2009 document cycle –
 - i. T. Rogers provided a presentation on simplifying spacers based on a spacer conductivity study from WESTLab.
Motion: J. Hayden / T. Rygg moved that the 3 spacer class and 1 specific modeling technique from the study be forwarded as a recommendation from the WG to the SC. Motion passed by unanimous voice vote.

- ii. M. Thoman. Reinforcement simplification WG is not sure what the membership was looking and asked those individuals wanting reinforcement simplification to provide recommendations to the WG.
- iii. J. Larsen provided a presentation on grid (divider) simplification.
- iv. Glass/Low-E WG performed some preliminary work – nothing to report.

7. New Business

- a. NFRC 100 Attachment ballots will be handled at the Attachment SC.
- b. NFRC 100 Swinging Door Ballot
 - i. QTI negative: Table 5-2
Withdrawn

MOTION: D. DeBlock / S. Strawn moved to move the ballot as revised to the Technical Committee for approval. Motion passes by unanimous voice vote.
- c. NFRC 100 Thermal Break
 - i. QTI negative:
MOTION: M. McDonald / M. Falke moved to find the negative persuasive and substantive and to send the ballot to the Glossary TG for review. Motion passes by unanimous voice vote.
 - ii. All ballot responses (negative and APC) will be sent to the Glossary TG to review.
- d. NFRC 100-2009
 - i. Cardinal negative: General
Withdrawn
 - ii. QTI negative: Section 2.2.E
MOTION: M. McDonald / J. Hayden moved that the negative be found persuasive and editorial. Motion passes by unanimous voice vote.
 - iii. QTI negative: Section 3
MOTION: M. McDonald / J. Hayden moved that all the definitions in the NFRC 100 be referred to the Glossary TG for review and balloting. Motion passes by unanimous voice vote.
 - iv. TRACO negative: Section 3
Handled by iii.
 - v. Pella APC: Section 3
Handled by iii.
 - vi. Velux APC: Section 4.1.2
Withdrawn
 - vii. Research Frontiers NEG: Section 4.1.4
MOTION: R. Temple / T. Rygg moved to find the negative non-persuasive. Motion passes by unanimous voice vote.

M. Thoman: The following 9 ballot responses dealing with Section 4.2 will be incorporated into the next NFRC 100 ballot since this section was not open for ballot.

viii. ALI APC: Section 4.2.3.1

ix. QTI negative: Section 4.2.4.3

x. QTI negative: Section 4.2.4.4

xi. QTI negative: Section 4.2.4.5

xii. QTI negative: Section 4.2.5.F.ii

xiii. QTI negative: Section 4.2.5.G

xiv. QTI negative: Section 4.2.7

xv. JELD-WEN APC: Section 4.2.7

xvi. ETC Labs APC: Section 4.4

xvii. QTI negative: Table 4-3

MOTION: M. McDonald / R. Temple moved to find the persuasive and editorial. Motion passes by unanimous voice vote.

xviii. ALI APC: Table 4-3

MOTION: A. First / B. Second moved to find the persuasive and editorial. Motion passes by unanimous voice vote.

M. Thoman: The following 3 ballot responses dealing within the Section 5.2 will be incorporated into the next NFRC 100 ballot since this section was not open for ballot.

xix. QTI negative: Section 5.2

xx. QTI negative: Section 5.2.2

xxi. QTI negative: Table 5-1

xxii. QTI negative: Table 5-2

Withdrawn

M. Thoman: The following 2 ballot responses dealing within the Section 5 will be sent back to the Skylight TG and incorporated into the next NFRC 100 ballot since this section was not open for ballot.

xxiii. BirchPoint APC: Section 5.2.4

xxiv. AAMA negative: Section 5.3.2

xxv. JELD-WEN APC: Section 6

MOTION: S. Strawn / T. Culp moved to find the APC persuasive and editorial. Motion passes by unanimous voice vote.

MOTION: D. DeBlock / M. McDonald moved to approve the following sections of NFRC 100-2009: Section 1 (Entire), Section 2 (Entire), Section 4 (All except 4.2), Section 5.1, 5.4, 5.5, 5.7, and Section 6 (Entire). These sections will not be moved forward to Technical until the remaining sections of the document are approved. These sections will not be available for ballot in July. Motion passes by unanimous voice vote.

8. Meeting Adjourned at 4:30 pm.