

Report on TC 163/WG 14 meeting in Zurich, Switzerland.

February 2-6, 2002

By: *Bipin Shah, NFRC*
Dragan Curcija, University of Massachusetts

ISO TC 163/WG-14 meeting was held at EMPA in Dubendorf (suburb of Zurich):

Thomas Frank (Host)
EMPA Abteilung Bauphysik
Ueberlandstr. 129
CH-8600 Duebendorf
Switzerland

Meeting Attendance:

- 1) Thomas Frank (Switzerland), Ray Williams (UK), Bill Goss (USA), Dragan Curcija (USA), Dick Van Dijk (Netherlands), Bipin Shah (USA), Jan Fransson (Velux, Denmark), Werner Kuhnert (Austria), Mr. Thomas Nussbaumer (Switzerland), Bertil Jonsson (Sweden)
- 2) Regrets: S. Svendsen, H. Hartmann, Ken-ichi Kumura, Lars Olsen, Per-Olof Marklund, And A.H. Elmahdy

Approval of agenda:

ISO TC163/SC1/WG14 Hot box test method for doors and windows **A joint meeting with CEN TC89/WG7adhoc group on hot box measurements**

AGENDA

- 1- Opening of the meeting
- 2- Letter of regret
- 3- Adoption of the agenda (N151)
- 4- Approval of the draft minutes of the last meeting at Ottawa (N147)
- 5- Resolutions taken at the ISO/TC 163/SC1 (SC1 N350)
- 6- Final discussion of ISO DIS 12567-2 taking into consideration:
 - Accepted changes made in Ottawa (N148)
 - Annex C: Example of calibration test and measurement of a roof window
 - Results of CEN enquiry of ISO DIS 12567-2 (N150)
 - CFD-calculation results (EMPA)

- 7- Error and uncertainty analysis (supplimentary criteria for ISO 8990)
- Results of balloting on new work item (ISO TC 163, secretariat SC1)
- 8- Time and place of the next meeting
- 9- A.O.B.
- 10- Closing of the meeting

Thomas Frank the WG-14 chair welcomed everyone to EMPA and asked for the approval of the agenda. He also mentioned that Thomas Nussbaumer will present study about the depth of the skylight on the February 4th, and visit to the lab on February 5th after the lunch. Agenda was approved by the members present.

Thomas Frank mentioned that during the WG-14 meeting in Ottawa the group addressed the negatives and comments from the DIS 12567-2 ballot. During that meeting there were some issues that needed more work; a) Depth of projection of fenestration product that are valid for testing under current ISO, b) Ψ -value listed in the document needed to be checked and should be in line with the main document (ISO 12567-1), c) Metering area issue; d) Calculate example.

Thomas Frank mentioned that the deadline to submit the revised document is end of March 2002. Mr. Frank distributed list of resolutions from the Ottawa meeting.

- Establish a group within WG14 that will work on revising ISO 8990.
- Ballot has been sent out (Reminder: need to mention this to John Mumaw for getting information to the US TAG).
- Review the comments from ISO and CEN on ISO 8990.

Mr. Shah distributed two documents, a) List of requirements in accordance with ASTM 1363, 1199, 1423 and NFRC documents; b) Copy of ASTM C1363 draft 13, which is currently being balloted.

During the discussion of the issues for ISO 12567-2 standard the following conclusions were made: a) the surround panel thickness was limited to be 100 to 200 mm thick and there was no limitation set on the projection depth (in line with NFRC requirement); b) new Ψ -values will be included in the revised document; c) ??; d) Jan Fransson (from Velux) said that he would work with Svendsen (IFT) and prepare new example by mid March. He also mentioned that he will check at Velux if they could help with the Translation of the document into French and German; e) Include in scope that the test results may not be representative of the performance of the roof window in the field. Ray Williams volunteered to write the paragraph.

The discussion ensued regarding the calculation of environmental temperature and view factors. [Based on the current implementation of environmental temperature and the discussion that followed during the meeting, it appears that it would be beneficial to incorporate the method in ASTM C1199 to account for reveal depth.

Other issues discussed:

Bipin and Dragan requested from Dick Van Dijk clarifications regarding the use of algorithms of air flow between glazing and attachment between glazings. Possibly look at the Pella product for comparison to test results. In connection with that, Bipin discussed with Mr. Van Dijk the issue of an Italian company, Permasteelisa regarding their curtain wall system and NFRC rating of such a system.

Bipin and Dragan discussed the issue of proposing ISO 15099 as the EU standard and the progress on that. Dick mentioned that they were working on that. In addition, the discussion was held regarding issue of OPTICS5 database and its harmonization with European WINDAT project. Mr. Van Dijk mentioned that a questionnaire is circulating within European manufacturers about the use of OPTICS database. To his knowledge Interpane Glass had some reservations about this. Their concern was that there was a possibility that the program could be misused. Mike Hutchins (UK) is in charge of the survey and he will publish the results once all the responses are in.

Bipin has asked Dick to send final ALTSET report about solar calorimetry, which would be useful to NFRC in their effort to improve solar calorimeter standard.

Finally, Bipin also talked with Mr. Bertil Jonnson from Sweden about his study of the CTS placement in the surround panel and requested to be sent a copy of that report.

Next meeting would be held in Stockholm, Sweden September 2-4.

Attached:

- ISO 12567-2 listing most of the changes made at the ISO meeting (Thomas Frank will send the final standard to the group).
- List of files sent by Thomas Frank before the meeting.