Daylighting Potential Rating Task Group Notes

Thursday, May 27, 2010

4 p.m. – 5 p.m. ET

Co-Chairs: Roger LeBrun, VELUX America Inc., Mudit Saxena, Heschong Mahone Group, Inc.

1. Attendees: Lisa Winkler, Roger LeBrun, Dan State, Gregg Vincent, Mudit Saxena, Willie du Pont, Ken Nittler, Steve Johnson, Peter Lyons, Andy McNeil, Ray Garris
   For Staff: Ray McGowan

2. The TG agreed to accept the developed language for the phase 1 scope: To create a rating system for daylighting potential utilizing the existing NFRC VT rating combined with known, bright day incident illuminance values

3. The TG agreed to accept the developed language for the phase 2 scope: To create a rating system to allow designers to utilize a standardized measurement of the appropriate illumination characteristics of fenestration products considering directional effects for incident and emitted illumination, illumination quality, illumination quantity, illumination distribution and other complex variables as needed

4. Mudit will develop bright day illuminance assignment and send to the group. It was suggested that Ross McCluney be given the first opportunity work on it, since he provided the term used in the scope.

5. Next conference call on June 14 @ 4 pm ET.

Discussion Notes:

- The initial intent for the two phases was further clarified – Phase 1 was meant to be a simple and quick rating, with its use being mainly for residential and light commercial fenestration projects. Phase 2 was meant to be a more advanced rating, with its use being mainly for commercial fenestration projects, where there is typically an energy (or daylighting) consultant on the design team.
- A comment was made that noted that accounting for daylighting energy use was not as well developed as accounting for heating and cooling energy use. The new daylighting potential rating should be able to help the end user account for benefit from daylighting.
- It was suggested that for Phase 1 there be rating procedures for skylights and for windows. The skylights rating be done at a 20 degree tilt from horizontal and the window rating be done at 90
degrees tilt from horizontal. This will be consistent with the way NFRC rates skylights and windows for U-factor.

- Next steps were defined as:
  - STEP 1: Collect information of what constitutes ‘bright day Illuminance values’ to be used in the Phase 1 scope.
  - STEP 2: To come up with a Procedural Guide
  - STEP 3: To develop a new Rating Standard for Daylighting Potential.

- Timeline: It suggested that the work for Phase 1 be completed in 2011