



# National Fenestration Rating Council Bulletin

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February 26, 2015

Dear Members and Participants,

Please consider the posted summary page, [Develop Reference Representative Solar Spectra for Solar Heat Gain Coefficient Calculations to Rate Fenestration in North America](#). This summary page will be discussed at the [NFRC Spring Committee Week](#) meeting during the Research Subcommittee. The NFRC Solar Spectrum Task Group developed this summary page to accomplish part of the scope shown below. If this summary page is approved at the meeting, a formal RFP will be developed for ballot at the Fall 2015 Membership Meeting.

No response is necessary, simply consider the summary page and prepare to discuss it at the Spring Committee Week in Annapolis, Maryland.

Please email [Ray McGowan](#), 240-821-9510, with any questions.

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## **SCOPE:** (last approved 9/23/2014)

This task group shall analyze the use of standard solar spectrum/spectra for NFRC use, which affects simulated Solar Transmittance and SHGC ratings. This includes the following four tasks:

1. Create a documented advantage-disadvantage assessment of changing spectra, including an assessment of the effect on stability in NFRC programs.
  1. Document any issues with the current spectrum and how the proposed changes would address these issues.
2. Investigate new/existing standard solar spectra for NFRC use based on current best knowledge of solar energy and selected environmental conditions and compare the new spectra to the current spectrum.
  1. Document how any new/existing spectra is better or more accurate than the current spectrum for NFRC programs.
3. Strive to have any new/existing spectra adopted by a standards organization (ASTM, ISO, etc.), if applicable.
  1. A documented effort should be made for international harmonization both of the spectra and its use.
4. Create a documented assessment (including pros and cons) of changing calculation methodology:

- FROM: Direct solar spectra at normal incidence.
- Updated direct solar spectra at normal incidence combined with diffuse solar spectra at hemispherical angle of incidence.
- Include implications of the new methodology being out of alignment with ISO 15099 and/or the need to update ISO 15099.

*This task group reports to the Optical Properties Subcommittee.*

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