



# NFRC Technical Bulletin 2012-07

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**DATE:** September 13, 2012  
**SUBJECT:** Implementation of NFRC 202, Executive Committee  
Extension of Aluminum Alloy Emissivity Value, Revision of  
NFRC 101

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This bulletin is to announce items that require attention to the implementation of NFRC 202 for interested physical testing laboratories and attention to all simulators and Inspection Agencies with regard to the change of material emissivity and conductivity in NFRC 101.

If you have any questions concerning the information in this *NFRC Technical Bulletin*, please contact Dennis Anderson at 240-821-9514; email: [danderson@nfr.org](mailto:danderson@nfr.org), Scott Hanlon at 240-821-9519; email: [shanlon@nfr.org](mailto:shanlon@nfr.org), or Ray McGowan at 240-821-9510; email: [rmcgowan@nfr.org](mailto:rmcgowan@nfr.org).

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## Item 1: NFRC 202-2012

The NFRC Board of Directors approved a new test method, NFRC 202-2012, *Procedure for Determining Translucent Fenestration Product Visible Transmittance at Normal Incidence*. The test procedure is published on the NFRC website and may be used to test translucent fenestration products upon completion of laboratory accreditation.

To gain accreditation to conduct this procedure, it will be required to apply and schedule an on-site inspection. The series of 701 documents that will govern the application and inspection for NFRC 202 testing has been approved by the APC but is awaiting Board of Directors approval later this month. An NFRC Bulletin will be disseminated once the Board approves the respective 701 series of documents.

NFRC 202-2012 may be downloaded by clicking the following link:  
[http://nfr.org/documents/NFRC202-2012\\_E0A0.pdf](http://nfr.org/documents/NFRC202-2012_E0A0.pdf)

## Item 2: Executive Committee Extension of Aluminum Alloy Emissivity Value

The NFRC Executive Committee has extended the use of 0.2 for the emissivity value for all mill-finish aluminum alloy components modeled in THERM until July 1, 2013. This will allow ample time to: (1) ensure all work-in-process simulations are finished and certified without having to re-simulate, (2) allow NFRC Staff to update all NFRC documents (including the NFRC Simulation Manual) that may reference emissivity of mill-finish aluminum alloys, and (3) conduct an NFRC 101 peer review of aluminum alloys to ensure 0.05 is the correct emissivity to represent all mill-finish aluminum alloy components.

Be fully aware that NFRC 101 has been approved and published with an emissivity value of 0.05 for mill-finish aluminum alloy but the Executive Order above allows simulators to use 0.2.

### Item 3: Revision of NFRC 101

Please review the attached NFRC 101 errata (E4A23) correcting an error made on the Spring Membership Meeting ballot. The intent of the ballot was to remove the *steel galvanized sheet entry* and combine it with the *steel (plated) entry*; however, the *galvanized steel entry* was removed but not added to the *steel (plated) entry*. In addition, it was not recognized that *steel-galvanized sheet* had a higher conductivity than *steel (plated)*. This latest revision returns the *steel-galvanized sheet* value back to its original entry found in NFRC 101-2012(E3A20), which was a conductivity value of 62 W/mK and an emissivity value of 0.2.

The Thermophysical Properties Subcommittee recognizes that several metal entries in appendix A may be unclear or even contradictory, so NFRC Staff plans to issue a Thermophysical Properties Peer Review of selected generic metal properties to propose changes. This peer review will give members a chance to correct and consolidate generic metal properties.

Please review the documents linked below:

- <http://nfr.org/documents/NFRC101-2010E4A23.pdf>
- <http://nfr.org/documents/NFRC101-2010E4A23-addendumlog.pdf>