

Working Groups and Outstanding Technical Issues

Working Groups for the Resolution of Outstanding Technical Issues

Based on the document “Outstanding Issues with the Non-Residential Component Modeling Approach (CMA) Procedure”, dated 1/11/06, the following /working groups are formed to finalize the outstanding technical issues:

Resolution of Glazing and spacer effects WG (*Review and comment/approve completed work and report for issues 1-5*)

Charlie Curcija (Chair)
Christian Kohler
Greg Carney
Jeff Baker
Joel Smith
Mike Manteghi
Margaret Webb

Implementation of Single glazing and double sash configurations options WG (*Complete the work and write report for issue 7*)

Daniel Wacek (Chair)
Steve Selkowitz
Gurjinder Singh
Cliff Monroe
John Hogan
Charlie Curcija

Handling Sloped and structural glazing WG (*Complete the work and write report for issues 8 and 10*)

Sam Yuan (Chair)
Rick Wright
Randy Van Voorst
Gary Curtis
Bill Lingnell
Charlie Curcija

Implementation of desiccant and glass conductivity effects WG (*Complete the work and write report for issues 6 and 9*)

Charlie Curcija (Chair)
Dave Duly
Margaret Webb
Greg Carney
Daniel Wacek
Rick Wright

Outstanding Issues with the Non-Residential Component Modeling Approach (CMA) Procedure:

Consolidated Technical Issues:

1. Effect of glazing bite on total product U-factors. Status: (Report prepared)
2. Effects of spacer position within the IGU on total product U-factors. Status: (Report prepared)
3. Effects of glass thickness on overall total product U-factors. Status: (Report prepared)
4. Effects of spacer height on total product U-factors. Status: (Report prepared)
5. Definition of generic Best/Worst IGU and spacers. Status: (Report prepared)
6. Desiccant effects. Status: (Working Group formed)
7. Definition of other options that can not be treated with generic B/W options. Status: (Working Group formed)
 - a. Double sash configuration
 - b. Single glazing
8. Sloped glazing Status: (Working Group formed)
9. Effect of glass conductivity Status: (Working Group formed)
10. Structural glazing Status: (Working Group formed)
11. Condensation Resistance – Will be taken care by CR task group
12. Establish frame grouping rules (both interior, exterior & profiles/depths) (Use existing frame groupings and initiate research project for future) – Will be taken care by Frame grouping task group
13. Spacer grouping– Will be taken care by Spacer grouping task group

Consolidated Programming Issues:

1. For certification purposes how are we going to handle size issues (i.e. NFRC size vs. Project size?)
2. Allow for defining NFRC standard size, actual project size, and area weighted U-factor values, SHGC, VT ?
3. Safety checks that establish ranges of values that will not allow bad input
4. Modification of THERM and WINDOW software to be compatible with the NRFEN
5. Creation of IGU and spacer assemblies “on-line” ?
6. Web based NRFEN vs. local installation
7. Develop spec documentation for NRFEN
8. Automation of THERM and WINDOW tools to work more effectively with NRFEN

Consolidated User Issues:

1. Training/testing/certifying users-users must meet certain criteria/get values for examples during testing
2. Auditing users. % needs to be defined.
3. Cost of training/cost of auditing
4. Define Penalties (i.e. replacement of product plus NFRC fine).
5. Need “How to Guide” paper and web based

Appendix: Listing Of Outstanding Issues Developed During The Non-Residential Task Group Meeting From 8/9/04 To 8/10/04 (“Original Issues”):

Technical Issues:

1. How do we develop a correlation between standard glazing bite and changes in bite design-we don't expect variation to be more than $1/8^{\text{th}}$ “+/-”.
2. Develop correlation for std. ht. spacers vs. custom ht. spacers.
3. Keep CRF values/procedures in mind when considering the technical issues/procedures.
4. Establish frame grouping rules (both interior, exterior & profiles/depths)
5. For certification purposes how are we going to handle size issues (i.e. NFRC size vs. Project size?)
6. How do we handle effect of glass thickness (i.e. Lami) & glass conductivity?

Programming Issues:

1. Safety checks that establish ranges of values that will not allow bad input.
2. Allow for defining NFRC standard size, actual project size, and area weighted U factor values.

User Issues:

1. Training/testing/certifying users-users must meet certain criteria/get values for examples during testing
2. Auditing users-a % needs to be defined.
3. Cost of training/cost of auditing
4. Define Penalties (i.e. replacement of product plus NFRC fine).
5. Need “How to Guide) paper and web based.