This is the third ballot to add language to include the simulation of all spandrel panel systems to the NFRC program. The Spandrel Validation Task Group has met a few times to address all negatives and comments from the NFRC Meetings held virtually on July 13, 2020.

Previously, spandrel glass only was able to be simulated and that has always been a limitation to the NFRC program for commercial manufacturers of glazed wall systems. Research was conducted, and was presented at the Albuquerque NFRC meetings, that proved that spandrel systems with interior opaque metal insulation panels can be simulated and backed up by validation testing. The conclusions of the research indicated that more than 63.5mm of glass edge is required and that 254mm of glazing edge shall be required for an accurate simulation.

**Associated Program Administrative Topics**

If this ballot passes, fully implementing the changes will affect:

1. Documents: ANSI / NFRC 100 will be presented to ANS for next ballot. NFRC Simulation Manual shall be revised to include modeling procedures to be added.
2. Software updates: Review if existing NFRC Upload Spreadsheet will account for opaque panel layers. If not, CPD modifications may be necessary.
3. Estimated cost of full implementation: If CPD modifications required, then costs will be incurred but amount un-determined.
5. Business Rules: Any related changes to the CPD or certification information will need to be investigated.
6. Program Processes: Yet to be determined
7. Pending other Committee/Board approval: Other documents and any recommend software related costs
8. Other: NA
Section 3. Definitions:
A spandrel panel system consists of an exterior exposed glazing layer with an interior insulated opaque panel. Does "interior insulated opaque panel" specifically include metal panel? What if a condition exists of having an exterior glazing layer, and just insulation + steel backpan on the inboard side? Or just metal panel + insulation, and no steel backpan? Would those conditions not be certifiable? The term/phrase/make-up of "interior insulated opaque panel" needs to be defined.
Table 4-2 - Boundary Conditions:
Interior Insulated Opaque Spandrel Panel......Shall use the interior boundary condition from above that is equivalent to the glazed wall system's intermediate frame type.

For future certification processes, IE, New Commercial Ratings program- if there is no intermediate mullion for a standard unit, it needs to be defined what will be the overriding boundary condition if the horizontal and vertical details do not have the same boundary conditions. Is the boundary condition with the larger area the overriding condition for the entire interior insulated opaque spandrel panel?
**Company Name, Rep Initials** | **Response Number**
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Permasteelisa Group, K.N | 003

**NEG**

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**Section and/or Page #**

Section 5.6.5

**Comment/Alternate Language**

Section 5.6.5 Calculation of Total Product Rating

.....Therefore, a specialized spreadsheet shall be used to conduct the proper product area-weighting using equation 5-1. Needs to be clarified if said spreadsheet will be provided by NFRC, and standardized for all parties or that the manufacturer seeking certification and/or test lab certifying the product can create and utilize their own respective spreadsheet.

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Motion Language.............

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Motion Originator – Rep Initials | Date
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Second – Rep Initials

Motion Text

Record of Votes

**Voice Vote**

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**By Count**

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