Dear NFRC Members and Participants,

To more accurately reflect the materials and technologies used in building current and future windows, doors, and skylights, the NFRC 101 Thermophysical Properties of Materials Task Group is interested in revising and adding materials and thermophysical property data to the generic materials listings in NFRC 101.

NFRC is seeking assistance in identifying additional specific generic materials for potential inclusion in the NFRC 101 generic materials lists. These new material suggestions can represent generic materials that are notably absent or new applications of existing materials used in current or future fenestration designs.

For example, we might consider expanding the following material classifications in Appendices A and B based on known material usage in frame/sash lineals, spacers, stiffeners, impact glazing, glazing domes, flanges, sealants, door skins, panels, insulating glass components, etc.

**Polymers/Rubbers:**

- Adding additional polymers (such as foamed PVC and chlorinated PVC [cPVC]).
- Polysulfide
- Silicone 1-part standard modulus sealant
- Silicone 1-part high modulus Sealant
- Silicone 2-part standard modulus sealant
- Silicone 2-part high modulus sealant
- Warm applied curable butyl based sealant
- Butyl sealant
- Polyurethane 2-part sealant

**Composites:**

- Expanding Fiberglass to include specific base resins (Polyester, epoxy, etc.) and glass fiber loadings; as commonly used in window lineals and spacers.
- Possibly adding other generic composite materials commonly available in the market.

**Wood based Panels:**

- Expand to include other wood panel products such as OSB, LVL, possibly other cellulose-based panel products (such as wheat board or straw board).

**Metals:**


• Expanding Stainless Steel to include specific commodity alloys such as 304, 305, 316.
• Expanding Aluminum to include specific commodity alloys used in profile extrusion (6061, 6063, 6066, 7075) and in roll-formed cladding (6061, 7075, 1100, 3003, 3004, 3105)
• Consider adding other commodity metal alloys utilized as cladding materials for windows and doors, such as copper or bronze alloys
• Aluminum grades used in box spacer
• Stainless grades used in box- and U-spacer

**Insulation:**

• Different insulation chemistries if not currently included
• Expanding to include different densities- for example different density spray applied or rigid foam boards

**Miscellaneous:**

• Beaded desiccant (alumina oxide) - loose fill - bead diameter 2mm, 3mm, etc.

Ideally, we are seeking **specific material** suggestions. In addition, we will consider thermophysical property data if available and documented from a reliable source. The NFRC 101 Peer Review group/staff will ultimately verify published thermophysical property data from reputable published sources.

Please send suggestions to Ray McGowan for inclusion.

Regards,

**NFRC 101 TG Members**

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