TECHNOFORM

Recommended specification language for Technoform structural polyamide thermal break profiles

08 OPENINGS

1.0- Submittals:

A. Product Data: Provide material data sheet for polyamide 6/6 glass fiber thermal breaks demonstrating acceptable material properties according to the specification. Provide Cradle to Cradle Gold material health certificate for and third-party confirmation that the fenestration thermal barrier is free of compounds listed on the Living Future Institute's red-list.

2.0- Products

2.1- Fenestration Thermal Break:

A. Fabricate aluminum frames with an integral, concealed, low-conductance thermal barrier; located between exterior materials and aluminum members exposed on interior side; in a manner that eliminates direct metal-to-metal contact.

B. All exterior aluminum shall be separated from interior aluminum by a rigid, structural thermal barrier. For purposes of this specification, a structural thermal barrier is defined as continuously extruded, multi-directional 25% minimum glass fiber reinforced 6/6 polyamide nylon strip.

C. All raw material that uses recycled material shall be free of PVC or other impurities (non-glass fiber) to ensure the system meets the as-designed structural and thermal performance.

D. Aluminum framing members separated with a locking mechanical connection to the thermal strip(s) by properly knurling the aluminum cavity and crimping the strip(s) into place to create a composite thermal barrier assembly meeting the quality assurance guidelines described by AAMA QAG 2-12.

E. No thermal short circuits shall occur between the exterior and interior.

F. The thermal barrier shall be Technoform or approved equal.

G. The thermal barrier shall be permanently laser marked with the article number, batch number, and production date when possible.

H. Structural performance values of the thermal barrier assembly to meet specific product/project design criteria or at a minimum certified testing criteria and procedures as described by the AAMA TIR-A8.

I. Thermal barriers material health certificate shall be Cradle to Cradle Gold certified.

Other thermal barrier assemblies such as rolled-in PVC, single or bi directional glass fiber-reinforced polyamides, or pour-and-debridged polyurethane systems will not be accepted.