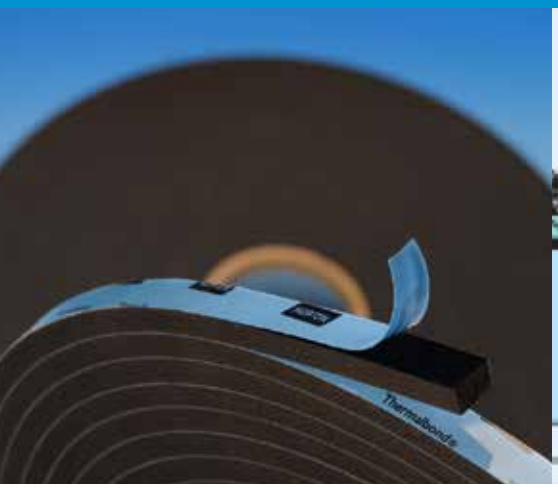
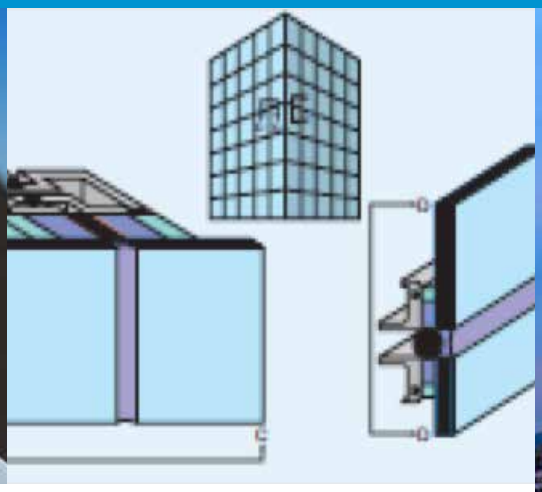
Distinct Advantage

Thermalbond®
Spacer Tapes





Mahanakorn Tower, Bangkok
Thermalbond V2100 Series

Static Shear Performance

Structural Silicone Glazed (SSG) façade systems depend on the performance of the structural silicone to ensure the glass remains fixed in the aluminum or steel substructure for the life of the building. While the structural silicone holds the load, the adjoining spacer tape is critical in the system for several reasons, primarily to ensure no movement of the glass occurs during the silicone curing period as this could result in compromised bond strength.

For field glazing, it is required that the glass be mechanically held in place during the cure period. While the adhesive properties of the tape will help stabilize the glass in position, it is not approved to hold the load. In the more common shop glazing environment, the tape is designed to stabilize the glass in position while the structural silicone cures. Often, the prefabricated glazed façade section is stored in a vertical position due to space limitations. In this situation, the shear strength of the adhesive system on the spacer tape is required to ensure no movement of the glass.

This property evaluation was undertaken to address the static shear and compare Thermalbond series tape to a number of closed cell EVA tapes from SEA, China and Europe.

Thermalbond® Spacer Tapes

- More than 35-year history in SSG
- Open cell structure to optimize silicone curing
- Durable, high-performance acrylic adhesive
- LCA study available to support LEED® credits

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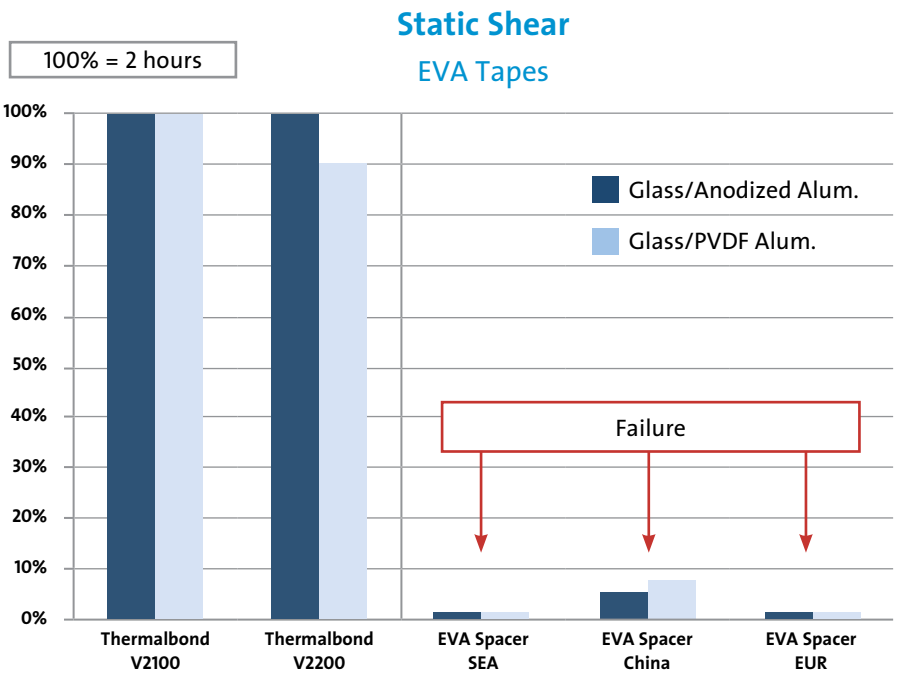
Distinct Advantage

Thermalbond® Spacer Tapes

Thermalbond® vs. Closed Cell EVA Spacer Tape



NOTE: EVA tapes from Asia and Europe markets

Test Methodology

- 25 kPa (3.6 psi) load applied immediately to glass/aluminum overlap samples
- Loading in shear mode
- Time until failure was measured with 2 hours holding selected as 100% level

The Results

- 2 hours holding was selected as the 100% level as this is usually sufficient time for the two-part silicone to cure to hold the load in shear.
- All the EVA tapes failed immediately with the adhesive splitting from the tape surface.
- Thermalbond performed at 100% > 2 hours.
- Data demonstrates a concern with All the EVA tapes failed immediately with the adhesive splitting from the tape surface adequately holding the load of an SSG system in shear mode during the silicone cure period.

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