



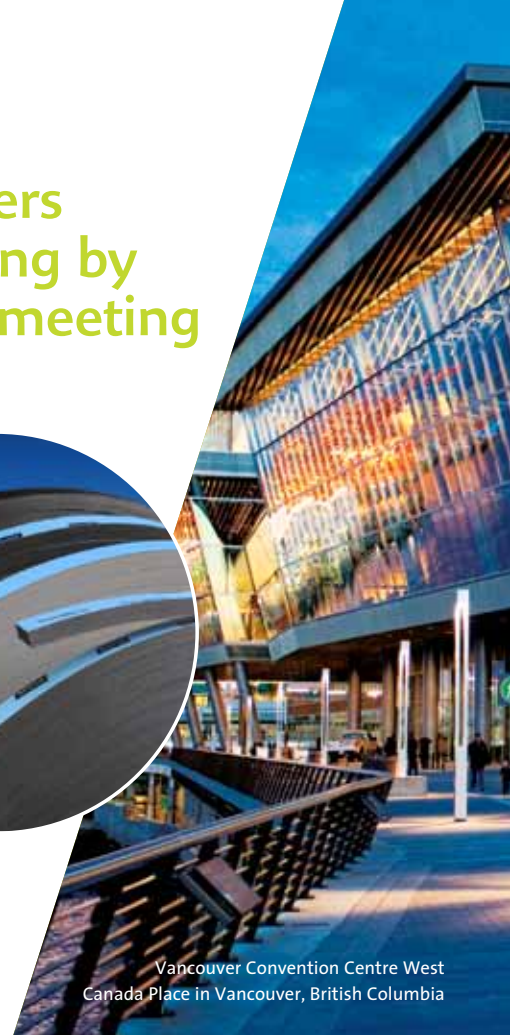
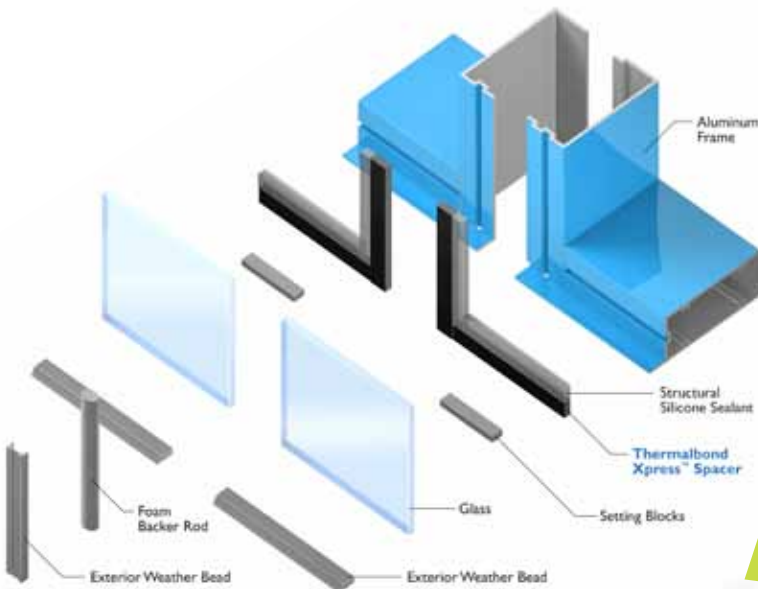
Thermalbond® and Thermalbond Xpress™ Spacers for Structural Silicone Glazing by Saint-Gobain contribute to meeting green building standards

Thermalbond® (also known as Norton® tape) for structural glazing of curtain walls can reduce thermal conductivity and improve a building's energy efficiency.

- High-strength polyurethane foam
- Deters heat transfer
- Reduces the U-Values within glazing assemblies
- Aids in easy fabrication
- Reduces waste and disposal impacts
- Maintains uniform spacing between glass and frame
- Compatible with structural silicones
- Low thermal conductivity
- Thermalbond Xpress™ has no liner, reducing resources
- Can reduce the amount of aluminium in an extrusion for an aluminum frame

Preventing heat transfer can help reduce the load on HVAC systems and also help earn points in the following LEED rating systems:

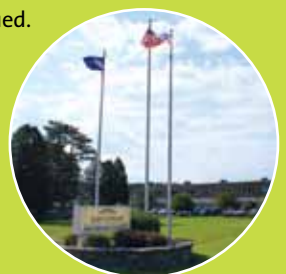
- LEED for New Construction (LEED-NC)
- LEED for Core and Shell (LEED-CS)
- LEED for Commercial Interiors (LEED-CI)
- LEED for Retail: New Construction (LEED for Retail: NC)
- LEED for Retail: Commercial Interiors (LEED for Retail: CI)
- LEED for Schools
- LEED for Healthcare
- LEED Canada: New Construction (LEED Canada NC)



Vancouver Convention Centre West
Canada Place in Vancouver, British Columbia

Sustainability at the Granville, NY manufacturing facility:

- Committed to sustainable manufacturing and operations; initiated a sustainability program with goals to reduce waste and increase energy efficiency.
- Focus on improving sustainability of products using life cycle analysis to understand and reduce environmental impact.
- Hosts community education nights where Granville personnel inform the local community about various aspects of the plant's manufacturing process.
- Committed to supporting local agriculture and open space; maintains a long-term lease on 25 acres of facility property with a local farmer.
- Takes pride in employee safety; awarded the Saint-Gobain Millionaires award in 2010 for achieving one million hours worked without a lost-time accident.
- ISO 14001 and OHSAS 18001 certified.



**ThermalBond® Spacer Tapes LEED Credit Contributions —
LEED-NC, LEED-CS, LEED for Retail: NC, LEED for Schools, LEED Canada NC, LEED for Healthcare**

| LEED Credit | ThermalBond® Contribution | Possible Points Per LEED Rating System |
|---|---|--|
| Energy & Atmosphere | | |
| EA Prerequisite 2 Minimum Energy Performance | ThermalBond®'s high strength polyurethane foam substrate has a low thermal conductivity, which deters heat transfer from an outside space into your building envelope. Preventing this heat transfer can help reduce the load on HVAC systems and satisfy ANSI/ASHRAE 90.1-2007 requirements. | Required in all Rating systems |
| EA Credit 1 Optimize Energy Performance | ThermalBond®'s high strength polyurethane foam substrate has a low thermal conductivity, which deters heat transfer from an outside space into your building envelope. Preventing this heat transfer can help reduce the load on HVAC systems and satisfy ANSI/ASHRAE 90.1-2007 requirements. | LEED-NC, LEED for Schools, LEED for Retail: NC: 1-19 Points LEED-CS: 3-21 Points LEED for Healthcare: 1-24 Points |
| Indoor Environmental Quality | | |
| IEQ Credit 7 or 7.1 Thermal Comfort | ThermalBond®'s high strength polyurethane foam substrate has a low thermal conductivity, which deters heat transfer from an outside space into your building envelope. By preventing this heat transfer, ThermalBond can help your building satisfy ANSI/ASHRAE 55-2004 requirements. | All Rating Systems: 1 Point |

**ThermalBond® Spacer Tapes LEED Credit Contributions —
LEED-CI, LEED for Retail: CI**

| LEED Credit | ThermalBond® Contribution | Possible Points |
|--|---|--------------------------------|
| Energy & Atmosphere | | |
| EA Prerequisite 2 Minimum Energy Performance | ThermalBond®'s high strength polyurethane foam substrate has a low thermal conductivity, which deters heat transfer from an outside space into your building envelope. Preventing this heat transfer can help reduce the load on HVAC systems and satisfy ANSI/ASHRAE 90.1-2007 requirements. | Required in all Rating systems |
| EA Credit 1.3 Optimize Energy Performance: HVAC | ThermalBond®'s high strength polyurethane foam substrate has a low thermal conductivity, which deters heat transfer from an outside space into your building envelope. Preventing this heat transfer can help reduce the load on HVAC systems and satisfy ANSI/ASHRAE 90.1-2007 requirements. | 5-10 Points |
| Indoor Environmental Quality | | |
| IEQ Credit 7 or 7.1 Thermal Comfort | ThermalBond®'s high strength polyurethane foam substrate has a low thermal conductivity, which deters heat transfer from an outside space into your building envelope. By preventing this heat transfer, ThermalBond can help your building satisfy ANSI/ASHRAE 55-2004 requirements. | 1 Point |



Awarded the ENERGY STAR® Sustained Excellence Award for the second year in a row in 2012. This award displays independent recognition of the company's dedication to reducing environmental impact.

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