



VIRACON THERMAL SPACER (VTS™)

ENGINEERED TO OUTPERFORM

Viracon delivers a proprietary warm-edge spacer technology for insulating glass units called Viracon Thermal Spacer (VTS™). VTS replaces a traditional spacer, desiccant and primary sealant with a better-performing, single component spacer available in glass sizes up to 130" x 236".

VTS's exclusive formulation consists of a black thermoplastic with integrated desiccant and polyisobutylene (PIB) that is chemically bonded to the glass and the secondary silicone sealant. This exclusive technology has been engineered to outperform other spacers and edge seal systems.

SUPERIOR SEAL INTEGRITY:

Chemically bonded to glass and secondary sealant

- Chemical bond of this single component spacer eliminates the need for added vapor barriers, acrylic adhesives, additional desiccant or PIB
- Increased stability in extreme temperatures making it suitable for both hot and cold climates
- Proven secondary silicone sealant for long term durability and structural performance

SUPERIOR THERMAL PERFORMANCE:

An argon filled unit with warm-edge spacer

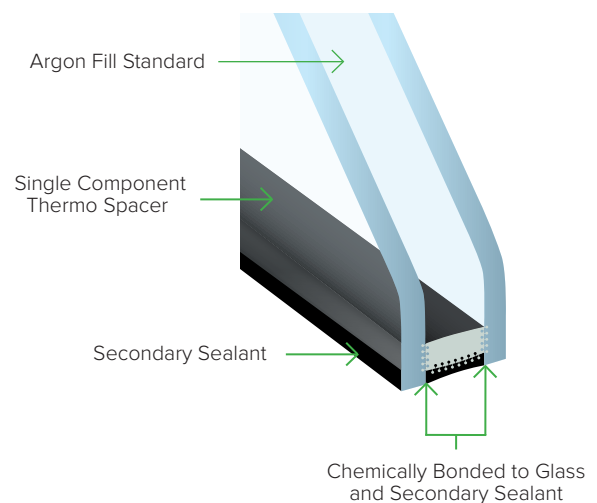
- Improves edge-of-glass U-value performance 14.4% over aluminum spacers and 7% over stainless steel spacers
- Argon gas retention is improved by 35%
- Elevated condensation resistance (CR)

SUPERIOR AESTHETICS:

Smooth matte black monolithic extrusion

- Robotically extruded for a consistent sightline
- Coating edge deletion is within the VTS
- Chemical bond of VTS to the glass and secondary silicone sealant eliminates PIB migration
- Uniform matte finish results in a monolithic appearance and subtle reflectance of the frame color
- Eliminates metal spacer attributes, such as shine, connection splices and top profile perforation

Viracon Thermal Spacer

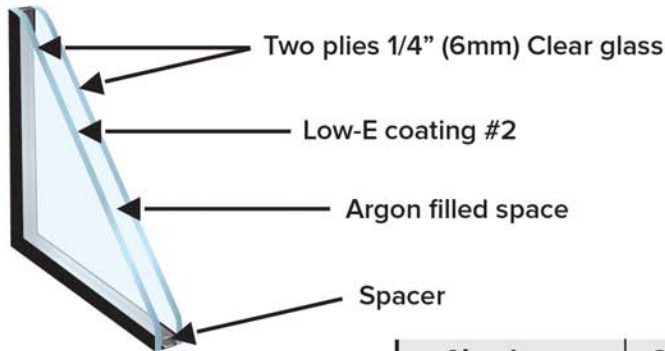


VTS's superior seal integrity supported with a Special 12 Year Limited Warranty

A SUPERIOR PERFORMING THERMAL SPACER

VTSTM is superior in thermal performance over aluminum and conventional warm edge spacers. Reference the chart below as an example when installed in a thermally enhanced system. Results will vary based on the framing system used, however this depicts the significant improvement capable with VTS.

1" Low-E Insulating



		Aluminum Spacer 1/2" (13.2mm)	Stainless Steel Spacer 1/2" (13.2mm)	ExtremEdge™ Spacer 17/32" (13.5mm)	VTSTM Spacer 1/2" (13.2mm)
1" Low-E Insulating	Center of Glass U-Value ¹	Rough Opening U-Value ²			
Conventionally Glazed Framing System	.25	.391 <i>CR³ 48</i>	.379 <i>CR³ 52</i>	.374 <i>CR³ 56</i>	.371 <i>CR³ 55</i>
2-Sided Structurally Glazed Framing System	.25	.354 <i>CR³ 53</i>	.334 <i>CR³ 57</i>	.324 <i>CR³ 65</i>	.319 <i>CR³ 60</i>
4-Sided Structurally Glazed Framing System	.25	.336 <i>CR³ 56</i>	.312 <i>CR³ 60</i>	.300 <i>CR³ 63</i>	.293 <i>CR³ 66</i>

1. Center of glass u-value is calculated using WINDOW 7 software.

2. Rough opening u-value is generated using thermal model simulation software, incorporating a thermally enhanced framing system.

3. Condensation Resistance (CR): A relative indicator of a fenestration product's ability to resist the formation of condensation at a specific set of environmental conditions. The higher the Condensation Resistance value the greater the resistance to the formation of condensation.

