

VRE-4423

Crisp Neutral Appearance and Market-Leading Performance

Viracon's VRE-4423 is certain to be amongst the most popular high-performance solar control architectural glass coatings of its class. With a Visible Light Transmission (VLT) of 44%, Solar Heat Gain Coefficient (SHGC) of 0.23 and Exterior Reflectance of 25%, VRE-4423's crisp neutral appearance meets all your aesthetic and performance requirements. Add to that Viracon's unique aesthetic advantage: the coating is applied after heat treating, producing glass that is significantly flatter with less distortion than most architectural glass available on the market today.

VRE-4423 was developed in response to architects' requirements for a high performing VRE coating with reduced exterior reflectance that would achieve the same great VRE experience featured on thousands of buildings worldwide. We tailored the color and appearance to meet current design trends, bringing a new, understated aesthetic to the VRE coating family, and closely controlled the aesthetic to be uniform from all viewing angles.

VRE-4423 Key Benefits:

- **Outstanding Performance and Aesthetics:**
lower SHGC with mid-reflectance, crisp neutral appearance, uniform from all viewing angles
- **Enhanced Experience:**
balanced VLT and SHGC attributes that improve occupant comfort and reduce energy costs and emitted carbon
- **Greater Design Options:**
choose from Viracon's broad selection of fabrication options to further enhance the performance and aesthetic benefits



The reflected colors of these images are as viewed from the exterior and illustrate the visual aesthetics of VRE-4423. Sky conditions, viewing angle and other factors may influence perceived color. Viracon recommends viewing actual glass samples prior to final product selection.

VRE-4423

Performance Data

(1" 0A) - 1/4" (6mm) on designated substrate - 1/2" (13.2mm) space—ARGON filled - 1/4" (6mm) Clear (or Low Iron)

Nomenclature ¹	Transmittance			Reflectance			U-Value		SC ²	SHGC	RHG	LSG
	Visible	Solar	UV	Visible-Out	Visible-In	Solar	Winter	Summer				
VRE1-4423	44%	18%	7%	25%	19%	38%	.25	.21	.26	.22	55	2.00
VRE2-4423	37%	14%	3%	19%	19%	14%	.25	.21	.23	.20	48	1.85
VRE3-4423	22%	10%	3%	10%	19%	15%	.25	.21	.18	.15	39	1.47
VRE13-4423	47%	21%	8%	27%	20%	53%	.25	.21	.26	.23	56	2.04
VRE18-4423	32%	14%	5%	15%	19%	29%	.25	.21	.22	.19	47	1.68
VRE19-4423	32%	14%	4%	16%	19%	21%	.25	.21	.22	.19	46	1.68
VRE24-4423	47%	21%	9%	27%	20%	52%	.25	.21	.26	.23	56	2.04
VRE30-4423	32%	13%	4%	15%	19%	19%	.25	.21	.21	.18	45	1.78
VRE31-4423	47%	21%	10%	27%	21%	54%	.25	.21	.26	.23	56	2.04
VRE35-4423	46%	20%	8%	27%	20%	48%	.25	.21	.26	.23	56	2.00

Viracon's solar and optical performance data represent center-of-glass information based on the National Fenestration Rating Council measurement standards and are calculated using Lawrence Berkeley National Laboratory's (LBNL) WINDOW 7 software. Values are nominal—values in as-delivered product may vary according to manufacturing quality tolerances.

- The performance data above applies to insulating glass with two plies (coated outboard; clear inboard) of 1/4" (6mm) glass and a 1/2" (13.2mm) space. Viracon VRE-4423 is applied to the second (#2) surface. When low iron glass is used [Starphire® (#13), Optiwhite™ (#24); UltraClear® (#31); Pure Mid Iron™ (#35)], both plies of the unit are composed of the given low iron substrate.
- VRE-4423 can only be used with heat treated glass.
- Available in maximum dimensions of 130" x 236" (3302mm x 5994mm).

¹ VRE Nomenclature: Example = VRE1-4423, where the number following "VRE" is a color code for the outboard substrate as per following:
 Outboard Glass Substrate Color Codes = 1-Clear, 2-Green, 3-Gray, 13-Starphire®, 18-Optiblue®, 19-CrystalGray®, 24-Optiwhite™, 30-Optigray®, 31-UltraClear®, 35-Pure Mid Iron™. Performance of VRE on additional glass substrates can be viewed on viracon.com.

² **SC** = Shading Coefficient; **RHG** = Relative Heat Gain; **SHGC** = Solar Heat Gain Coefficient; **LSG** = Light to Solar Heat Gain ratio

Superior aesthetics – the coating is applied after heat treating, augmenting flatness compared to architectural glass that is heat treated after the coating application.
 Complete flexibility – specify VRE-4423 on any of your preferred glass substrates.

Greater design options – combine VRE-4423 on the same surface as silk-screen patterns or DigitalDistinctions®.

CrystalGray® and UltraClear® are registered trademarks of Guardian Industries. Optiwhite™ is a trademark of Pilkington.
 Starphire®, Optiblue®, and Optigray® are registered trademarks of Vitro.