

VRE-43

INTRODUCING THE BEST PERFORMING COATING IN
VIRACON'S MOST POPULAR COATING FAMILY - VRE-43

DISTINCT CRISP APPEARANCE WITH LOW INTERIOR
AND EXTERIOR REFLECTIVITY FOR GREAT AESTHETICS

Viracon is pleased to announce the introduction of VRE-43, our newest high-performance solar control architectural glass coating. With a Visible Light Transmission (VLT) of 43%, Solar Heat Gain Coefficient (SHGC) of 0.22 and Exterior Reflectivity of 25% on clear glass combined with a neutral appearance, you now have a coating that meets all of your aesthetic and performance requirements.

Architects and designers have been asking for a VRE coating that reduces exterior reflectivity and SHGC while still maintaining the same great VRE appearance that is featured on over 2,000 buildings around the world. Through a recently patented process, VRE-43 was developed to meet the performance needs required in today's demanding building environment. The aesthetics were also tailored to meet current design trends of a vibrant appearance while bringing a new, understated level of reflectance to the VRE coating family.

VRE-43 KEY BENEFITS:

- + Outstanding performance and aesthetics – Best SHGC and lowest reflectance of any VRE coating, all without sacrificing aesthetics
- + Superior design – Balanced VLT and SHGC attributes that improve occupant comfort and reduce energy costs
- + Greater design options – Combine VRE-43 with Viracon's broad selection of fabrication options to further optimize performance and aesthetics



VRE1-43
SHGC 0.22
VLT 43%

- The reflected colors of the images above are viewed from the exterior and are provided as a reference for the visual aesthetics of Viracon VRE-43. Sky conditions, viewing angle and other factors can influence perceived color. Viracon recommends viewing actual glass samples prior to final product selection. Visit viracon.com for more information.

SOLAR OPTICAL PROPERTIES AND THERMAL CHARACTERISTICS (AIR)

(1" OA) - 1/4"(6mm) on designated substrate - 1/2"(13.2mm) Airspace - 1/4"(6mm) Clear (or Low-Iron)

Nomenclature	Transmittance			Reflectance			U-Value		Shading Coefficient	Relative Heat Gain	SHGC	LSG
	Visible	Solar	UV	Vis-Out	Vis-in	Solar	Winter	Summer				
VRE1-43	43%	17%	7%	25%	19%	38%	.29	.26	.25	54	.22	1.95
VRE2-43	36%	13%	3%	19%	19%	14%	.29	.26	.23	50	.20	1.80
VRE3-43	22%	9%	3%	10%	19%	15%	.29	.26	.18	40	.16	1.38
VRE19-43	32%	13%	4%	16%	19%	21%	.29	.26	.22	47	.19	1.68
VRE24-43	46%	20%	10%	27%	20%	53%	.29	.26	.25	54	.22	2.09
VRE26-43	27%	11%	4%	13%	19%	16%	.29	.26	.21	45	.18	1.50
VRE29-43	30%	12%	5%	14%	19%	21%	.29	.26	.21	46	.19	1.58
VRE30-43	31%	12%	4%	15%	19%	19%	.29	.26	.21	47	.19	1.63

SOLAR OPTICAL PROPERTIES AND THERMAL CHARACTERISTICS (ARGON)

(1" OA) - 1/4"(6mm) on designated substrate - 1/2"(13.2mm) Airspace - 1/4"(6mm) Clear (or Low-Iron)

Nomenclature	Transmittance			Reflectance			U-Value		Shading Coefficient	Relative Heat Gain	SHGC	LSG
	Visible	Solar	UV	Vis-Out	Vis-in	Solar	Winter	Summer				
VRE1-43	43%	17%	7%	25%	19%	38%	.25	.21	.25	52	.21	2.05
VRE2-43	36%	13%	3%	19%	19%	14%	.25	.21	.22	47	.19	1.89
VRE3-43	22%	9%	3%	10%	19%	15%	.25	.21	.17	37	.15	1.47
VRE19-43	32%	13%	4%	16%	19%	21%	.25	.21	.21	44	.18	1.78
VRE24-43	46%	20%	10%	27%	20%	53%	.25	.21	.25	52	.22	2.09
VRE26-43	27%	11%	4%	13%	19%	16%	.25	.21	.19	42	.17	1.59
VRE27-43	21%	8%	2%	9%	19%	8%	.25	.21	.17	36	.14	1.50
VRE29-43	30%	12%	5%	14%	19%	21%	.25	.21	.20	43	.18	1.67
VRE30-43	31%	12%	4%	15%	19%	19%	.25	.21	.20	43	.18	1.72

The solar and optical data presented is center-of-glass data based on the National Fenestration Rating Council measurement standards. They were calculated using Lawrence Berkeley National Laboratory's (LBNL) WINDOW 7 software. The values shown are nominal. They may vary due to manufacturing tolerances.

1. The performance data above applies to insulating glass with two plies (clear inboard) of 1/4" (6mm) glass and a 1/2" (13.2mm) airspace. Viracon VRE-43 is applied to the second (#2) surface. If Optiwhite™ (#24) glass is used, both plies of the unit are the Optiwhite substrate.
2. If VRE-43 is applied to tinted glass, the glass must be heat treated.
3. If VRE-43 is applied to clear glass, contact Viracon's Technical Services Department to determine the possibility of using annealed glass.
4. Available in maximum dimensions of 120" x 204" (3048mm x 5182mm). Note: The maximum size for annealed glass under any condition is 50 sq ft (4.65 sq m).

VRE Codes: Example = VRE1¹-43

¹Outboard Glass Substrate Color Codes = 1-Clear, 2-Green, 3-Gray, 19-CrystalGray™, 24-Optiwhite™, 26-Solarblue™ glass, 29-Graphite, 30-Optigray® glass.

Performance of VRE on additional glass substrates can be viewed on viracon.com

Complete flexibility - specify VRE-43 on any of your preferred glass substrates.

Greater design options - combine VRE-43 on the same surface as silk-screen patterns or DigitalDistinctions™.

Superior aesthetics - the coating is applied after heat treating, augmenting flatness compared to architectural glass that is heat treated after the coating application.

CrystalGray is a trademark of Guardian Industries.
Optiwhite and Graphite are a trademark of Pilkington.
Solarblue™ glass and Optigray® glass are registered trademarks owned by Vitro.



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