

High-Performance Gray Glasses



***Beverly Headquarters**
Location: Fort Smith, AZ
Products: **Graylite®** & **Optigray®**
Glasses/**Solarban®** 60 Glass
Architect: Cromwell Architects
Engineers
Glass Fabricator: Oldcastle
BuildingEnvelope™*

From warm grays to bold blacks, PPG High-Performance Gray glasses are a critical part of the architect's decorative repertoire. PPG offers two proven favorites that deliver good looks, together with exceptional UV protection and excellent solar control characteristics.

Optigray® 23 Glass

Optigray® 23 glass is gray-tinted with warm bronze undertones and enhanced solar control capabilities. **Optigray 23** glass transmits 21% of the sun's visible light while blocking almost 85% of its solar energy in a one-inch insulating unit. The result is a Solar Heat Gain Coefficient of 0.29 — among the lowest of any architectural tinted glass product.

Along with a reduced air-conditioning load, **Optigray 23** glass also significantly diminishes glare and ultraviolet light transmittance, which is associated with the accelerated fading of fabrics and other interior materials.

Graylite® II Glass

For an even bolder, dark aesthetic, PPG offers **Graylite II** glass, which delivers optimum levels of solar control together with a fashionable, nearly black appearance.

In a one-inch insulating unit, **Graylite II** glass has a Solar Heat Gain Coefficient of 0.35, which is also among the lowest available for any uncoated glass. In addition,



***Caesars Palace Tower**
Location: Las Vegas, NV
Product: **Graylite®** Glass
Architect: Bergman Walls Youngblood
Glazing Contractor: Accuracy Glass
Glass Fabricator: Oldcastle BuildingEnvelope™*

Graylite II glass helps protect interior fabrics and colors from fading by blocking up to 98% of the sun's ultraviolet energy — more than any architectural glass on the market today.

With Visible Light Transmittance of just 9%, **Graylite II** glass is ideal for glare control and privacy glazing.

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Rosemeade Office Building
 Location: Dallas, TX
 Products: Optigray® 23 Glass and Graylite® Glass
 Architect: Halderman Powell + Partners
 Glazing Contractor: Southwest Glass Inc.
 Glass Fabricator: ACI/Dallas
 Owner/Developer: Trammel Crow Development

Fabrication and Availability

Optigray 23 glass and Graylite II glass can be heat-strengthened, tempered and laminated and are readily available as standard products. Optigray 23 and Graylite II glasses are available from hundreds of glass fabrication locations throughout the U.S. and Canada.

Additional Resources

For more information, or to obtain samples of Optigray 23 glass and Graylite II glass, call 1-888-PPG-IDEA, or visit www.ppgglazing.com. All PPG architectural glass is Cradle to Cradle Certified™.

PPG IdeaScapes™ Integrated products, people and services to inspire your design and color vision.

Optigray® 23 and Graylite® II Performance — Commercial Insulating Glass Unit Comparisons Using 1/4" (6mm) Glass

Glass Type	Transmittance			Reflectance		U-Value (Imperial)		European U-Value	Shading Coefficient	Solar Heat Gain Coefficient	Light to Solar Gain (LSG)
	Ultra-violet %	Visible %	Total Solar Energy %	Visible Light %	Total Solar Energy %	Winter Night-time	Summer Day-time				
Monolithic (6mm)											
OPTIGRAY 23	8	23	19	5	5	1.02	0.93	5.75	0.50	0.42	0.55
GRAYLITE II	2	9	8	4	4	1.02	0.93	5.75	0.41	0.35	0.25
Insulating Vision Unit Performance Comparisons 1-inch (25mm) units with 1/2-inch (13mm) airspace and two 1/2-inch (6mm) lites; as shown below											
OPTIGRAY 23 + Clear	6	21	15	6	5	0.47	0.50	2.81	0.34	0.29	0.71
GRAYLITE II + Clear	2	8	7	4	4	0.47	0.50	2.81	0.25	0.21	0.37
SUNGATE® Low-E Glass											
OPTIGRAY 23 + SUNGATE 400 (3)	4	20	13	5	6	0.32	0.31	1.75	0.17	0.15	0.52
GRAYLITE II + SUNGATE 400 (3)	1	8	5	4	5	0.32	0.31	1.75	0.17	0.15	0.52
OPTIGRAY 23 + SUNGATE 500 (3)	6	19	13	6	6	0.35	0.35	1.96	0.28	0.24	0.80
GRAYLITE II + SUNGATE 500 (3)	1	7	5	4	4	0.35	0.35	1.96	0.19	0.16	0.45
SOLARBAN® Solar Control Low-E Glass											
OPTIGRAY 23 + SOLARBAN 60 (3)	3	18	9	5	6	0.29	0.27	1.55	0.21	0.18	1.02
GRAYLITE II + SOLARBAN 60 (3)	1	7	4	4	5	0.29	0.27	1.55	0.14	0.12	0.58
OPTIGRAY 23 + SOLARBAN 70XL (3)	1	17	7	5	7	0.28	0.26	1.50	0.19	0.16	1.04
GRAYLITE II + SOLARBAN 70XL (3)	<1	7	3	4	5	0.28	0.26	1.50	0.13	0.11	0.58

All performance data calculated using LBNL Window 5.2 software, except European U-Value, which is calculated using WinDat version 3.0.1 software. For detailed information on the methodologies used to calculate the aesthetic and performance values in this table, please visit www.ppgideascales.com or request our Architectural Glass Catalog.

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