

COLOR MATCHING PILKINGTON SPACIA™

ATS-198
09/2026

Summary

Pilkington **Spacia™** is a vacuum insulating glass (VIG) unit that offers the thermal performance of a standard one-inch insulating glass unit (IGU) in a monolithic glass form factor. Similar to a standard IGU, it is comprised of an outer pane of low-emissivity (low-e) glass and an inner pane of clear float glass. The gap width and fill differentiate VIG from standard IGU; instead of leaving a gap for air or argon, the air between the two panes of glass is extracted creating a vacuum gap of only 0.2 mm.

Standard thicknesses for Pilkington **Spacia™** range from 6.2mm to 10.2mm. This makes VIG a suitable option for restoration and renovation projects that would like to keep the existing sash and replace the glass with something of higher performance. This bulletin is to provide glazing options for projects that contain sizes or shapes outside of Pilkington **Spacia™** manufacturing capabilities.

Pilkington Spacia™ STIII

Pilkington **Spacia™** make up is low-e (#2) over clear. The best color match options in laminated and monolithic configurations are:

Laminated

Pilkington **Energy Advantage™** (2) / Pilkington **Energy Advantage™** (4) will give you the most similar aesthetic in terms of color and sound attenuation in the same profile thickness as Pilkington **Spacia™**. Surface #4 low-e is required to drop U-factor to improve insulation benefit, minimize condensation.

Monolithic

Single pane Pilkington **Energy Advantage™** (2) can also be used but this design will not improve sound attenuation and will have a more noticeable difference in reflection.

	6mm Pilkington Spacia™ STIII	3mm Pilkington Energy Advantage™ (2) 0.38mm pvb 3mm Pilkington Energy Advantage™ (4)	6mm Pilkington Energy Advantage™ (2)
Visible Transmittance	79%	79%	82%
Visible Reflectance (exterior)	13%	12%	10%
Visible Reflectance (interior)	14%	13%	11%
Solar Transmittance	61%	63%	66%
Solar Reflectance (exterior)	18%	13%	10%
SHGC	0.65	0.67	0.70
SC	0.75	0.77	0.81
U-Factor (winter) (W/m2 K)	0.23	0.64	0.64
U-Factor (summer) (W/m2-K)	0.24	0.49	0.49
Trans L*	91.17	91.38	92.46
Trans a*	-0.84	-0.55	-1.98
Trans b*	1.76	3.13	2.28
Ref L*	43.3	41.16	38.2
Ref a*	-2.97	-2.06	0.74
Ref b*	-4.14	-0.211	-1.17

All values are calculated using the LBNL Optics 6 & Window 7.8 program and represent the "center-of-glass" region of the glazing system. Reference standard: W5_NFRC_2003.std

Change Summary

Change	Date
Format Update	09/15/2026

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