COBIANWD

GLASS & ENERGY PERFORMANCE GUIDE

Insulated Glass | Low-E Glass | U-Factor | SHGC | Visible Transmittance

1. COBIAN LOW-E & INSULATED GLASS STANDARD

COBIAN uses COOL-LITE SKN 154 as the project Low-E glass reference for insulated glass units. **SKN 154 I** is used for annealed applications and **SKN 154 II** for tempered applications, as required by the product and project. The SKN 154 lite is used as the exterior lite of the IGU. Interior glass may be Clear or Frosted Privacy Glass, subject to the selected configuration.

Product group	Standard double IGU	Triple glazing
Vinyl	3/4" (18 mm)	No
Aluminum Window	3/4" (18 mm)	No
Aluminum Door	13/16" (21 mm)	No
uPVC	1" (24 mm)	Available
Aluminum - Supra 65	1" (24 mm)	Available
Thermal Break Aluminum	1" (24 mm)	Available

Standard 1" (24 mm) double-glazed reference: 6 mm SKN 154 II + 12 mm air space + 6 mm Clear. The 13/16" (21 mm) aluminum-door reference uses 6 mm SKN 154 II + 9 mm air space + 6 mm Clear. Triple glazing is available only on compatible uPVC, Supra 65 and Thermal Break Aluminum systems. Spacer selection and fabrication criteria are intentionally excluded from this customer-facing guide.

2. DOUBLE-GLAZED WHOLE-PRODUCT ENERGY PERFORMANCE

The values below are the Cobian project reference for the complete product configuration (frame + insulated glass), not glass-only Ug values or frame-only Uf values. AIR and 90% ARGON are shown separately so the effect on thermal transmittance can be compared directly.

System	Model	IGU Configuration	U-Factor AIR	U-Factor ARGON 90%	SHGC	VT
Vinyl S190	Fixed	6 SKN154 II / 6 / 6 Clear	0.30	0.27	0.24	0.45
REHAU 4500 uPVC	Fixed	6 SKN154 II / 12 / 6 Clear	0.33	0.29	0.22	0.41
REHAU 4500 uPVC	Tilt & Turn	6 SKN154 II / 12 / 6 Clear	0.33	0.29	0.19	0.34
REHAU 920 uPVC	Sliding Window	6 SKN154 II / 6 / 6 Clear	0.39	0.35	0.22	0.41
REHAU 920-86 uPVC	Sliding Patio Door	6 SKN154 II / 12 / 6 Clear	0.31	0.27	0.23	0.43
COVENT Supra 65 Aluminum	Fixed	6 SKN154 II / 12 / 6 Clear	0.42	0.38	0.24	0.43
COVENT Supra 65 Aluminum	Concealed Sash T&T;	6 SKN154 II / 12 / 6 Clear	0.52	0.48	0.21	0.38
COVENT 4600 Aluminum	Sliding Window	6 SKN154 II / 6 / 6 Clear	0.65	0.62	0.21	0.38
COVENT 10000 Aluminum	Sliding Patio Door	6 SKN154 II / 9 / 6 Clear	0.57	0.53	0.23	0.43
COVENT Imperial RPT	Fixed	6 SKN154 II / 12 / 6 Clear	0.27	0.23	0.23	0.43
COVENT Imperial RPT	Tilt & Turn	6 SKN154 II / 12 / 6 Clear	0.30	0.26	0.21	0.39
COVENT Imperial RPT	Hinged Door	6 SKN154 II / 12 / 6 Clear	0.32	0.28	0.22	0.41
ALG VISTA RPT	Fixed	6 SKN154 II / 12 / 6 Clear	0.28	0.24	0.24	0.44
ALG VISTA RPT	Tilt & Turn	6 SKN154 II / 12 / 6 Clear	0.30	0.26	0.22	0.40
Matra 110 RPT	Sliding Patio Door	6 SKN154 II / 12 / 6 Clear	0.41	0.36	0.23	0.43

3. HOW TO READ THE ENERGY VALUES

U-Factor	Rate of heat transfer through the complete window or door assembly. Lower values indicate lower heat transfer.
SHGC	Solar Heat Gain Coefficient. It indicates the fraction of incident solar heat admitted through the complete product. Lower values reduce solar heat gain.
VT	Visible Transmittance. It indicates the fraction of visible light transmitted through the complete product. Higher values admit more daylight.

4. GLASS OPTIONS

Exterior Low-E lite: COOL-LITE SKN 154 I (annealed) or SKN 154 II (tempered), according to the required application.
Interior lite: Clear Glass or Frosted Privacy Glass.
Triple glazing: available on compatible uPVC, COVENT Supra 65 and Thermal Break Aluminum systems. Typical layouts use SKN 154 on the exterior with Clear + Clear or Clear + Frosted Privacy Glass interior lites.

Performance note. Energy values shown in this guide apply to the listed Cobian reference configurations. Actual project performance can vary with product dimensions, glazing make-up, gas fill, hardware, configuration and test/simulation conditions. Project-specific code, certification or performance requirements should be confirmed for the selected product before specification.