ROOF APPLICATION

GLASS ROOF GLAZING

Representative laminated insulated glass configuration for overhead applications

OUTSIDE

INSIDE

0.24 in outer

0.51 in argon

Laminated inner

REPRESENTATIVE GLASS BUILD-UP

EXTERIOR LITE
0.24 in Ecosol T 50; coating on surface #2

INSULATING CAVITY
0.51 in cavity; 90% argon fill

INTERIOR LAMINATED LITE
0.16 in Extra Clear + 0.015 in clear PVB + 0.16 in Clear

NOMINAL OVERALL THICKNESS
Approximately 1.09 in

WINTER U-FACTOR
0.24 Btu/(h ft² °F)
1.4 W/(m²K)

SOLAR HEAT GAIN
0.30 SHGC

VISIBLE TRANSMITTANCE
49 %
Daylight transmittance

UV TRANSMITTANCE
2 %

DAYLIGHT + SOLAR

Outdoor daylight reflectance	**31%**
Indoor daylight reflectance	**23%**
Direct solar transmittance	**25%**
Outdoor solar reflectance	**38%**
Solar absorption	**37%**
Shading coefficient	**0.35**

THERMAL + ACOUSTIC

Summer U-factor	**0.22 Btu/(h ft² °F)**
Color Rendering Index	**Ra 88**
Weighted sound reduction	**Rw 38 dB (-1, -5)**
Sound Transmission Class	**STC 38 dB**
Outdoor-Indoor Transmission	**OITC 33 dB**

PROJECT-SPECIFIC GLAZING SELECTION

Vision Art Aluminium does not use one glass configuration for every project. The final glass build-up may be adjusted for the product type, roof or vertical application, panel size, structural and thermal demands, applicable municipal and adopted energy-code requirements, project engineering, product availability, and the client's requested priorities for comfort, solar control, daylight, acoustics, safety, privacy, and budget.

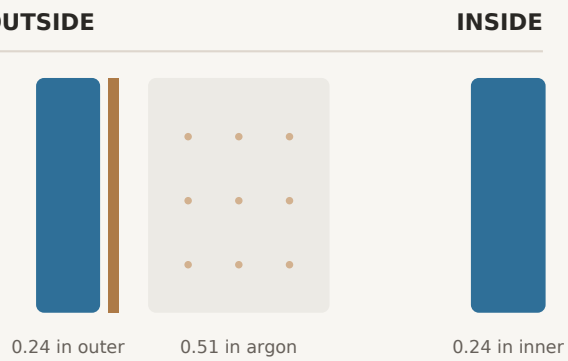
FINAL APPROVED SHOP DRAWINGS AND PROJECT SPECIFICATIONS GOVERN.

Representative center-of-glass calculations only; not a whole-product NFRC rating, certification, or label. Whole-product results depend on frame, spacer, dimensions, operability, and installation. Acoustic values are estimated. Safety glazing, heat treatment, lamination, thickness, coatings, and final make-up are subject to code, engineering, and project review. Calculation basis references NFRC 100, ISO 15099, ISO 9050, ASHRAE, ASTM G173, and ISO 9845. Report date: August 15, 2026.

VERTICAL APPLICATION

DOORS, WINDOWS + ENCLOSURES

Representative insulated glass configuration for vertical sunroom and opening systems



REPRESENTATIVE GLASS BUILD-UP

EXTERIOR LITE
0.24 in Ecosol T 50; coating on surface #2

INSULATING CAVITY
0.51 in cavity; 90% argon fill

INTERIOR LITE
0.24 in Extra Clear

NOMINAL OVERALL THICKNESS
Approximately 0.99 in

WINTER U-FACTOR	SOLAR HEAT GAIN	VISIBLE TRANSMITTANCE	UV TRANSMITTANCE
0.25 Btu/(h ft² °F)	**0.31** SHGC	**49** %	**29** %
1.4 W/(m²K)		Daylight transmittance	

DAYLIGHT + SOLAR

Outdoor daylight reflectance	**31%**
Indoor daylight reflectance	**24%**
Direct solar transmittance	**27%**
Outdoor solar reflectance	**38%**
Solar absorption	**35%**
Shading coefficient	**0.35**

THERMAL + ACOUSTIC

Summer U-factor	**0.22 Btu/(h ft² °F)**
Color Rendering Index	**Ra 88**
Weighted sound reduction	**Rw 34 dB (-1, -4)**
Sound Transmission Class	**STC 34 dB**
Outdoor-Indoor Transmission	**OITC 28 dB**

PROJECT-SPECIFIC GLAZING SELECTION

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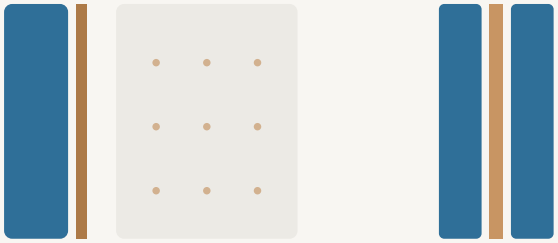
ACOUSTIC UPGRADE

HIGH-PERFORMANCE ACOUSTIC GLAZING

Representative STC 41 option for windows and doors where clients request enhanced sound reduction

OUTSIDE

INSIDE



0.24 in outer

0.51 in argon

Acoustic inner

REPRESENTATIVE GLASS BUILD-UP

EXTERIOR LITE
0.24 in Ecosol T 50; coating on surface #2

INSULATING CAVITY
0.51 in cavity; 90% argon fill

ACOUSTIC LAMINATED LITE
0.16 in Extra Clear + 0.06 in acoustic PVB + 0.16 in Extra Clear

NOMINAL OVERALL THICKNESS
Approximately 1.13 in

WINTER U-FACTOR
0.24 Btu/(h ft² °F)
1.4 W/(m²K)

SOLAR HEAT GAIN
0.30 SHGC

VISIBLE TRANSMITTANCE
49 %
Daylight transmittance

UV TRANSMITTANCE
0 %

DAYLIGHT + SOLAR

Outdoor daylight reflectance	**31%**
Indoor daylight reflectance	**23%**
Direct solar transmittance	**25%**
Outdoor solar reflectance	**38%**
Solar absorption	**37%**
Shading coefficient	**0.35**

THERMAL + ACOUSTIC

Summer U-factor	**0.21 Btu/(h ft² °F)**
Color Rendering Index	**Ra 88**
Weighted sound reduction	**Rw 41 dB (-1, -5)**
Sound Transmission Class	**STC 41 dB**
Outdoor-Indoor Transmission	**OITC 35 dB**

PROJECT-SPECIFIC GLAZING SELECTION

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FINAL APPROVED SHOP DRAWINGS AND PROJECT SPECIFICATIONS GOVERN.

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