



PRODUCT DESCRIPTION

Multifaçades™ is a rainscreen cladding system that creates contemporary buildings with a flush surface across the entire façade. It also boasts a proprietary multi-material mounting system that's compatible with windows and virtually every kind of opaque material.

FEATURES AND BENEFITS

- ✓ Sleek appearance that allows windows to fit perfectly flush with the rest of the envelope.
- ✓ Complies with all market norms and standards, in addition to meeting enhanced energy efficiency requirements.
- ✓ Components and panels are factory made and assembled in a stable, controlled environment to create a sturdy, air- and watertight rainscreen.
- ✓ Most of the components are manufactured and assembled in the workshop; only some of the connectors need to be adjusted on site, making installation quick and efficient.

WARRANTY

This product is covered by Stekar Systems' standard warranty certifying that the work will be free from defects in workmanship or installation under normal use.

MAINTENANCE

Once work is complete, the Multifaçades™ system should be cleaned using products and techniques that do not compromise the system's performance or surface treatments. Regular maintenance must also be performed annually using the same procedures.

Test reports - Window

Structural strength (deflection)	Maximum deflection of L/300 at 90.2 psf	ASTM E330
Structural strength (pressure)	Design pressure of 90.2 psf	ASTM E330
Water resistance	No water penetration at 31 psf of pressure	ASTM E331 ASTM E547
Air infiltration and exfiltration	<ul style="list-style-type: none"> • $q_A \leq 0.01$ CFM/ft² @ 1.57 psf (fixed and operable) • $q_A \leq 0.03$ CFM/ft² @ 6.27 psf (fixed and operable) 	ASTM E283
Heat transfer coefficient (overall U-value)	<ul style="list-style-type: none"> • $U \leq 0.30$ Btu/hrft²F; 1 in double IGU with low-E coating • $U \leq 0.25$ Btu/hrft²F; 1 in double IGU with low-E coating and pyrolytic coating on side #4 • $U \leq 0.23$ Btu/hrft²F; 1¾ in triple IGU with low-E coatings on face #2 and #4 	NFRC 100 (GWCW)

Test reports for AAMA 508 – Pressure Equalized Rain Screen Wall Cladding Systems

Pressure cycling with pressure equalization	Less than or equal to 0.029 seconds	ASTM E1233
Structural strength	The structural strength of the system depends on the wall on which it is hung. The wall must be composed of an assembly certified by a structural engineer.	ASTM E330
Water resistance	No more than 1.6% of the air barrier must be wet.	ASTM E331 AAMA 501.1

Components and raw materials

- Aluminum profiles must be AA6063 alloys with T5 or T6 hardening and comply with ASTM B221.
- The silicone must be a high-performance multi-component structural type (such as Dow Corning Dowsil 983 or Tremco Proglaze II).
- The system must be available in Class I or II anodic finishes and in painted finishes depending on the project needs (DURANAR, DURANAR XL, D2000 and greater).
- The aluminum must always be kept separate from other metals and masonry with an inert material or compliant dielectric paint.
- Low conductivity structural elements are made of glass fiber enhanced polyamide (Nylon 66).
- Generally, silicone and glazing tape are black. These can be gray when used behind a pale cladding whose opacity level is not 100%.

Window Hardware

- Stainless steel limit device (C8628 from Ferco)
- Heavy duty four-bar stainless-steel hinges (301SS from Truth)
- Silver two-fork handle (Spacio G46552 from Ferco)
- Brass corner drive (Ferco Alu-Jet)
- Adjustable brass keeper plate (Ferco E-17719)
- Brass lock (Ferco Alu-Jet)
- Brass snubber (Ferco 9-32832-00-0-1)
- Clear anodized slide (Stekar STE-17, compatible with a 15/20 mm Euro groove)
- Retractable screen (optional)

Design criteria

- The following maximum tolerances must be observed when manufacturing the panels.

Length $\pm 1/16$ in up to 4 ft

Length $\pm 1/8$ in up to 10 ft

Height $\pm 1/16$ in up to 4 ft

Height $\pm 1/8$ in up to 10 ft

Maximum diagonal 5/32 in

Arc 0.2% of length, maximum 3/16 in

- The size of the pane dictates the type and location of the hardware.
- Reinforcements/Stiffeners may be required under certain conditions and can have a visual impact if needed behind a pale cladding.

Installation conditions

- Multifaçades™ cladding must be used on a wall assembly that meets the ASHRAE and ABAA prescribed waterproofing level, i.e. with maximum leakage of 0.04 CFM/ft² under a pressure differential of 1.57 psf as per ASTM E2357.
- The backup wall assembly must contain an air barrier element tested using the procedure in ASTM E2178 and found to have a rating of no more than 0.004 CFM/ft² at a pressure differential of 1.57 psf.
- To ensure the cladding system performs well, the building must be sufficiently compartmented. Stekar recommends subdividing the back of the cladding into compartments 2 stories high and 20 ft wide. The compartment width must be reduced to 5 ft at the corners.

Limitations

Product	Limitations
Multifaçades™ Vision Double IGU – FIXED	A ≤ 40 sq. ft. H ≤ 10 ft. (c-c)
Multifaçades™ Vision Double IGU – OPERABLE	Awning: A ≤ 24 sq. ft. H ≤ 6.5 ft. (c-c)
Multifaçades™ Vision Laminated or triple IGU – FIXED	A ≤ 32 sq. ft. H ≤ 8 ft. (c-c)
Multifaçades™ Vision Laminated or triple IGU – OPERABLE	Awning: A ≤ 16 sq. ft. H ≤ 5 ft. (c-c)
Opaque cladding	A ≤ 50 sq. ft. if H_{built} ≤ 3 stories Otherwise: A ≤ 40 sq. ft. H or W ≤ 10 ft. (c-c)

- Dimensions valid for a 1 in double IGU, a 1¼ in laminated IGU, or a 1¾ in triple IGU.
- A change in glass thickness can cause structural problems for the surrounding parts and hardware.
- For awning windows only. For casement windows, please contact our team to discuss your options.
- For more information, contact the Stekar team. They will be able to discuss your needs and help you bring your project to life.



668, 5TH Avenue
Beauceville QC G5X 1L6

P 418-774-2424
F 418-774-2425
Toll-free **1-877-317-8355**

SALES

ventes@stekar.com