

Climate Seal™

Acoustic Series Window Insert



ACOUSTICAL
SURFACES INC.

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FEATURES & BENEFITS

- High performance acoustical rating
- Filters 85% of the harmful UV light spectrum
- Significantly cheaper and easier than replacement windows
- Increases thermal efficiency of any existing window
- Extremely easy to install and remove for cleaning or fresh air
- Custom made for standard and unique window shapes, styles and sizes
- Easy egress in emergency situations

Born from our original Climate Seal™ Thermal Series, the Climate Seal™ Acoustic Series window insert specifically focuses on sound abatement across all frequency levels with exceptional performance while maintaining its discreet look and superior thermal properties. While the Climate Seal™ Thermal Series abates sound by up to 60% from pre-existing levels, the Acoustic Series boasts up to 80% sound reduction with an STC rating as high as 49, which rivals or exceeds the performance of many other competitive products and does so at a significantly reduced cost and aesthetic impact.

The Climate Seal™ Acoustic Series model is an ideal choice for many residential, commercial and historical applications. Whether you live on a busy street, airplane flight path or wish to maintain the comfort level of your hotel guests, the Climate Seal™ Acoustic Series window insert will perform extremely well, regardless of the application. Other acoustical window products have you call for a secondary and permanent window layer, which we feel is excessive, bulky and unattractive without an appreciable improvement above and beyond our Climate Seal™ Acoustic Series system. The Climate Seal™ Acoustic Series window insert is easily removed in seconds for access to the primary window for cleaning or maintenance and is just as easily re-applied to protect you from irritating and excessive decibel levels. See page 3 for a comprehensive breakdown of our performance ratings and results. We've also included a "before & after" scenario on (3) different primary window applications to illustrate how effective the Climate Seal™ Acoustic Series can be when applied over your primary window. And, just like all of our other Climate Seal™ family of products, the Acoustic Series is fully customizable. Custom paint colors, glazing options, as well as custom shapes and sizes are all available to ensure performance and aesthetics are not compromised.



APPLICATIONS

Conference and board rooms, hotels, theaters, schools, audiophile rooms, recording studios, houses of worship, music practice and band rooms, airports, apartments, condos and more.

SPECIFICATIONS

Standard colors: white, brown; 1/8" & 1/4" acrylic options available; all orders are made to size; contact ASI for complete specifications and other resources.

Test Reports & Additional Information Can be Found at:

www.acousticalsurfaces.com/window-inserts/acoustical_window_inserts.htm



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Climate Seal™ Acoustic Series window insert applied over aluminum curtain wall construction for @ Balance America office suites. Houston, TX.



Climate Seal™ Acoustic Series window insert applied over existing storefront glass for maximum sound protection from street traffic. Ipswich, MA.



Climate Seal™ Acoustic Series window insert for a residential triple wide double-hung application. Charlotte, NC.

Climate Seal Sound Rating - STC*		
	Window Assembly	STC*
	Double Hung Window	24
	Double Hung Window w/Climate Seal Insert	37
	Triple Casement Window	27
	Triple Casement Window w/Climate Seal Insert	44
	Store Front/Hotel Fixed Window	33
	Store Front/Hotel Fixed Window w/Climate Seal Insert – 2.5" Airspace	38
	Store Front/Hotel Fixed Window w/Climate Seal Insert – 4.5" Airspace	46
	Store Front/Hotel Fixed Window w/Climate Seal Insert – 6.5" Airspace	51

*STC (Sound Transmission Class) – a rating defined by ASTM E90 to represent how well a building partition attenuates airborne sound. The higher the STC number, the greater amount of sound that is lost. This rating targets a noise spectrum surrounding speech levels.



STOP NOISE

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CLIMATE SEAL MOUNTING STYLES



Window Install:

In-Jamb mounting style where the Climate Seal™ window sits inside of the window jamb itself – much closer to the existing window.



Frame Only:

Surface mount style installation where the Climate Seal™ window is mounted on the surface of the existing window frame. This mounting style is preferred because of the increased amount of airspace, which allows for maximum sound reduction between the existing window and the Climate Seal™ window insert.

SAMPLES OF SUPERIOR vs INFERIOR WINDOW INSERTS



Superior

Climate Seal™ Acoustic Series window insert. Easily removed for cleaning of the primary window while retaining exceptional performance.



Inferior

X-brand permanent acoustic window. 3X thicker aluminum fixed window eliminated the ability to access the primary window when needed. Performance not equivalent to Climate Seal™ Acoustic Series window insert.



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