

CASESTUDY

NOISE ABATEMENT

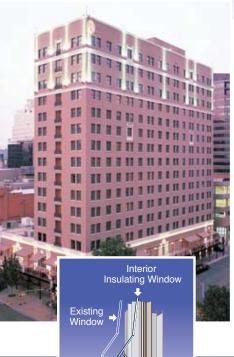


ocated in the heart of downtown Los Angeles, the W Hotel was faced with numerous noise problems. There was the traffic noise inherent to all big cities, but there also was the problem of the bells and chimes from the church across the street. On top of this, the helicopter from the adjacent UCLA Medical Center took off and landed from its rooftop helipad. All this added up to serious noise infiltration issues in guestrooms.

Using a retrofit interior insulating window, Maine Glass successfully and cost-effectively soundproofed 140 guestrooms. Independent tests resulted in a noise reduction from over NC35 to below NC25, resulting in a greater than 10 decibel improvement. This equates to blocking out more than half the orginal exterior noise infiltration.

The Intercontinental Stephen F. Austin was suffering from noise complaints as a result of rooftop chillers and city noise. The chief engineer Mike Frazer had to find a window application to solve the problem. He contacted a variety of window companies to install test units. Maine Glass was awarded the contract.

Maine Glass worked closely with Mike Frazer to insure an efficient and smooth installation to minimize guest disruption. One year after completion of the project he had this to say, "Noise complaints have been eliminated and the energy savings have been significant. Maine Glass windows are going to pay for themselves in less than 5 years."



Recent Projects/Customers

Projects

University of Chicago Hospitals, Chicago IL Embassy Suites, Greensboro NC Mariott Silver Springs, Silver Springs MD Seelbach Hilton, Louisville KY Fairfield Inn, Germantown TN Courtyard Marriott, Denver CO Federal Reserve, Philadelphia PA Harvard University, Cambridge MA Weber State University, Ogden UT Wyndham, Indianapolis IN Marriott Tremont, Boston MA Beacon Hotel, Miami FL Disney Museum, San Francisco CA

Customers

Plant Construction Kimpton Hotels Johnson Controls CB Richard Ellis TAC-Americas Cheviot Corporation Sage Hospitality Equity Office Marriott Corporation Starwood Hotels

SOUND STUDY OF MAINE GLASS INTERIOR INSULATING WINDOWS

The tests listed in the chart below are from three independent testing agencies performed at three different facilities. All three of these tests resulted in over a 10 dB improvement. A 10 dB improvement translates into a 50 percent reduction in noise infiltration. one of the tests resulted in over a 20 dB improvement which translates into over a 75 percent reduction in noise infiltration.

Test Location	Testing Agency	Rating Scale	Existing Conditions	Initial Results	Maine Glass Installation	Final Results	dB Improvement
W Hotel	AJS Acoustics	NC	Aluminum, Single Pane sliders	37	2" airspace, interior slider with 1/8" glass	24	13
Stanford Court	Salter Associates	NC	Steel, Single Pane fixed window	36	2 3/4" airspace, interior fixed panel with 3/16" glass	26	10

"We used to get 20 to 50 noise complaints a week, now we get NONE." Chief Engineer Larry Bailey (Austin Town Lake Holiday Inn)

- 1. Sound transmission is primarily dependent on the air cavity between the two layers of glass and the glass thickness.
- 2. Our windows not only create an air cavity but can use different glass thickness to optimize sound reduction.
- 3. Independently tested to reduce noise infiltration by up to 75%