

SOUND



SAFLEX AC[®] SUPERIOR ACOUSTICAL INTERLAYER OFFERS A HIGHER LEVEL OF SOUND PROTECTION

The World's Leading Brand of Interlayers

The Saflex[®] branded family of protective interlayers has multiple benefits for laminated glass that allow architects and designers to use glass in applications without sacrificing structural performance. These benefits are Safety, Security, Solar and Sound reduction.

Superior Acoustic Attenuation Performance

Saflex AC[®] is a superior acoustical offering from the Saflex family that has safety, security and solar benefits coupled with a significantly higher level of sound reduction capability as compared to standard laminated glass. Saflex AC provides greater damping performance over other products in the Saflex family. There is no need to increase the overall thickness of the glass or the air space to achieve higher STC performance for the same configuration.

Product Applications

Saflex AC is currently used in windows, curtain walls, storefronts and in overhead and sloped glazing applications. Saflex AC provides the same visual clarity and optical quality of other Saflex branded interlayers and when properly selected, laminated and installed, Saflex AC meets the federal safety requirements for glazing as specified in 16 CFR Part 1201CPSC.

Project Applications

Laminated glass made with Saflex AC can be used in any project where structural performance and a higher level of sound reduction is a requirement. Airports and surrounding structures, Hotels, Sports Stadiums, Recording Studios, Train Stations, Educational Facilities, and High Rises are just some of the projects where Saflex AC should be specified. Virtually anywhere glass can be used - so can Saflex AC.

Since the mid 1960's acoustical testing has been performed on laminated glass containing Saflex® protective interlayers. Initially there were few test facilities and no consensus standards on testing. The glass was held in the opening between the "sound" and "receiver" chambers in any manner that prevented air leakage and held the glass in place. As the demand for acoustical glazing has grown, so have the number of test facilities and the number of tested products. The lack of uniformity between testing facilities in holding the glass between the chambers has led to significant deviations in the generated STC values. This difference can be seen in the measurement repeatability with a single specimen, round robin tests among testing facilities and installation methods. The graph to the right is an example of the deviation seen in a study performed on the identical piece of glass at two laboratories utilizing different anchoring/glazing techniques

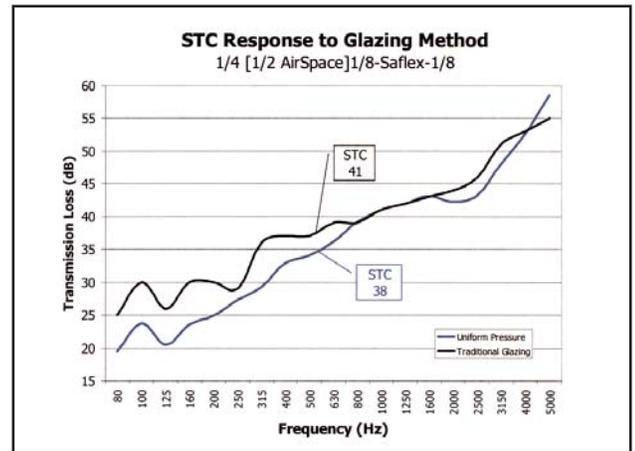


Table I -- Acoustical Ratings

Specimen Configuration (inches) ¹	Overall Thickness (inches)	STC ²
Monolithic Units		
1/4	1/4	30
Laminated Single Units		
1/8-Saflex® 0.030-1/8	1/4	34
1/8-Saflex® AC 0.030-1/8	1/4	35
1/4-Saflex® 0.030-1/4	1/2	37
1/4-Saflex® AC 0.030-1/4	1/2	38
Laminated Insulating Glass Units		
1/4 [1/2 AirSpace] 1/8-Saflex® 0.030-1/8	1	39
1/4 [1/2 AirSpace] 1/8-Saflex® AC 0.030-1/8	1	40
1/4 [1/2 AirSpace] 1/4-Saflex® 0.030-1/4	1 1/4	41
1/4 [1/2 AirSpace] 1/4-Saflex® AC 0.030-1/4	1 1/4	42
Double Laminated Insulating Glass Units		
1/8-Saflex® 0.030-1/8 [1/2 AirSpace] 1/8-Saflex® 0.030-1/8	1	40
1/8-Saflex® 0.030-1/8 [1/2 AirSpace] 1/8-Saflex® AC 0.030-1/8	1	41
1/8-Saflex® AC 0.030-1/8 [1/2 AirSpace] 1/8-Saflex® AC 0.030-1/8	1	42
1/8-Saflex® AC 0.030-1/8 [3/4 AirSpace] 1/8-Saflex® AC 0.030-1/8	1 1/4	44
1/4-Saflex® 0.030-1/4 [1/2 AirSpace] 1/4-Saflex® 0.030-1/4	1 1/2	41
1/4-Saflex® AC 0.030-1/4 [1/2 air space] 1/4-Saflex® AC 0.030-1/4	1 1/2	45

Notes:
 1 = Glass only values. Frequency and single numbers transmission loss numbers will change with variables such as edge anchoring, size, temperature, frame type and air infiltration of window systems.
 2 = STC values are provided from glass samples held in place with a pliable mastic; nominal glass size 3 ft x 6 ft; test temperature nominal 70 degrees F

Exceptional Performance Comes with Exceptional Service

The Solutia Architectural Glazing Solutions Centre (AGSC) provides a comprehensive range of services to support architects and designers. The AGSC can provide technical support, literature, master specs, testing data, and samples as well as laminator and window manufacturer referrals. The AGSC also offers AIA CEU courses.

Discover how Saflex® protective interlayer for laminated glass can help you design with freedom and performance. Contact the AGSC at 1-877-674-1233, www.solutia.com, or glazin@solutia.com for a customized architectural solution.

Tests conducted in recognized acoustic laboratories* using Saflex and Saflex AC interlayers show a 2 - 5 STC unit gain can be achieved, depending upon the overall configuration by switching from Saflex to Saflex AC. The STC improvement is realized because of the significant reduction in transmission at the critical frequency of most common glazing thicknesses. This reduction of transmitted noise can thereby reduce the perceived noise coming through the fenestration opening. STC data for common configurations are shown below in table I. The numbers contained in Table I should be used as a guide and treated as glass only numbers. They may not be indicative of performance in the intended fenestration system. Variables such as air infiltration, size, temperature and glazing methods may have adverse affects on the performance of the entire system. Whenever possible, actual installation practices should be utilized on a mock up panel to ensure accurate rating of the desired acoustical fenestration product.

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