

Acoustical Guide – Table of Contents

Table of Contents for the Acoustical Guide (click on a bullet below to navigate to sub sections)

- Introduction
- Rating
- Principles
- Data
- Methodologies
- Glossary
- Worksheets
- References
- Example

Purpose

This Acoustical Glazing Design Guide has been prepared for the building design professional, manufacturer of Saflex protective interlayer used in laminated glass. This guide includes the most comprehensive and up-to-date collection of laboratory-tested sound transmission loss data for laminated, monolithic and air-spaced glass configurations. It is an indispensable reference for anyone concerned about sound transmission through windows.

The primary purpose of this publication is to present easy-to-follow methodologies for estimating the minimum required sound transmission loss (TL) for exterior glazing exposed to the most common sources of exterior environmental noise: aircraft, highway traffic and rail transportation. These methodologies are devised to enable the architect to explore glazing options early in project development.

The need for this planning tool is great and ever-increasing due to more extensive use of land areas close to airports, highways and rail transportation lines. This, coupled with greater building owner/user expectations for noise control and wider use of lightweight, lower-cost building materials, has heightened the importance of exterior environmental noise considerations.

Organization

To provide a "user friendly" design tool, this guide has been organized as follows:

Section 1 presents methodologies for determining the minimum required window sound transmission class (STC) rating and various glazing alternatives that will satisfy this requirement. Also included in this section are typical examples illustrating the use of these methodologies and a compilation of window STC data measured by Riverbank Acoustical Laboratories (BALTM) in tests.

Saflex Acoustical Guide

Zhe Xu



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Sound & Vibration 2.0 David Sykes, 2012-08-30 This book features comprehensive practical and measurable guidelines for all aspects of acoustics in the design construction and evaluation of all types of healthcare facilities including large general hospitals and specialized patient care facilities Architectural Acoustics Illustrated Michael Ermann, 2015-01-16 Unite the science of sound and the principles of design to enhance any space Architectural Acoustics Illustrated translates the quantitative and qualitative content of acoustics into the graphic language of architecture This highly visual guide includes over 350 illustrations that outline the physics of sound and the best design practices for limiting or mitigating noise in buildings by using the latest in materials and techniques Each chapter includes a summary checklist of design guidelines to help prevent mistakes and oversights and the Instructor's website offers video animations demonstrating acoustical concepts Designed as a first look at the interaction of sound and space the book explains the principles of architectural acoustics and their practical applications providing a comprehensive guide for designing with acoustics in mind Architectural acoustics is more than just concert halls it may determine building placement division of interior space exterior construction and even siting When addressed early in the design process the resulting space can be free of unwanted sound and promote good hearing if left unaddressed the problems with the space can lead to lawsuits and costly post construction remediation Architectural Acoustics Illustrated helps designers solve most acoustical problems in advance by enabling readers to Understand the physical science underlying the behavior of sound Consider the interactions of sound and space in the initial design approach Mitigate building sounds such as those produced by HVAC and plumbing with early design planning Design spaces for listening and incorporate acoustics best practices into every plan The highly visual format of the book helps readers grasp complex concepts quickly and thorough discussion of each concept's real world application ties the science directly into the design process All design professionals need to have a fundamental understanding of acoustics and Architectural Acoustics Illustrated is a comprehensive practical guide in an easy to read format **Architectural Acoustics** William J. Cavanaugh, Gregory C. Tocci, Joseph A. Wilkes, 2009-11-16 Get the leading guide to acoustics for architects engineers and interior designers A widely recognized comprehensive reference to acoustic principles for all concerned with the built environment Architectural Acoustics Second Edition provides design professionals with up to date information on basic concepts acoustical materials and technologies for controlling wanted or unwanted sound within and around buildings Written by a team of internationally recognized experts and experienced consultants this Second Edition covers fundamental acoustic principles design criteria acoustical materials control strategies and methods for a wide variety of building types including educational healthcare recreational residential commercial industrial and transportation facilities Particular attention is given to places for listening and performance such as theaters churches concert and recital halls outdoor arenas classrooms multiuse auditoria libraries music practice and rehearsal rooms recording and broadcast studios sports venues

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Monsanto Company,1986 **Architectural Record** ,1996 **Architectural Acoustics** Marshall Long,2014-02-05

Architectural Acoustics Second Edition presents a thorough technical overview of the discipline from basic concepts to specific design advice Beginning with a brief history it reviews the fundamentals of acoustics human perception and reaction to sound acoustic noise measurements noise metrics and environmental noise characterization In depth treatment is given to the theoretical principles and practical applications of wave acoustics sound transmission vibration and vibration isolation and noise transmission in floors and mechanical systems Chapters on specific design problems demonstrate how to apply the theory including treatment of multifamily dwellings office buildings rooms for speech rooms for music multipurpose rooms auditoriums sanctuaries studios listening rooms and the design of sound reinforcement systems Detailed figures illustrate the practical applications of acoustic principles showing how to implement design ideas in actual structures This compendium of theoretical and practical design information brings the relevant concepts equations techniques and specific design problems together in one place including both fundamentals and more advanced material Practicing engineers will find it an invaluable reference for their daily work while advanced students will appreciate its rigorous treatment of the basic building blocks of acoustical theory Considered the most complete resource in the field includes basic fundamental relations derived from first principles and examples needed to solve real engineering problems Provides a well organized text for students first approaching the subject as well as a reliable reference for experienced practitioners looking to refresh their technical knowledge base New content for developing professionals includes case studies and coverage of specific focus areas such as audio visual design theaters and concert halls *The Construction Specifier* ,1990 **Sound & Vibration** ,1990

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berbahan dasar kaca kini menjadi pilihan berbagai pihak pemilik arsitek maupun pengguna pengunjung bangunan Namun informasi tentang kaca yang rinci terkait ilmu bangunan belum tersaji secara lengkap dan mendalam Buku ini mencoba mengupas kaca mulai sejarah komponen penyusun jenis standar sampai industri kaca yang kini memegang peranan dalam penyediaan kebutuhan akan kaca di dunia arsitektur Dibahas pula aspek termal optikal kimiawi fisis dan mekanis kaca sebagai sebuah pengetahuan dasar sebelum melangkah pada tahap pemilihan kaca dan konsekuensi yang akan diterima ketika menggunakan kaca tertentu Sesungguhnya fokus dan bahasan spesifik buku ini yang membedakan dari buku lain adalah terkait aspek akustika kaca terutama pada penggunaan kaca di iklim tropis Sifat akustika kaca di iklim hangat sedikit berbeda dengan penggunaan di iklim sejuk Paparan terkait aspek akustika kaca diharapkan dapat mengarahkan penggunaan kaca secara lebih tepat pada iklim yang sesuai Buku ditutup dengan bahasan terkait elemen elemen bangunan yang dapat diselesaikan menggunakan kaca jenis kaca yang cocok untuk dipilih beserta elemen pendukungnya baik kaca yang akan dipasang menggunakan bingkai atau kusen maupun tanpa bingkai dengan sistem pemasangan yang lebih modern Tidak ketinggalan dibahas pula sistem pemeliharaan dan perlakuan tambahan pada kaca agar kinerjanya makin baik dan tahan lama

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1. Understanding the eBook Saflex Acoustical Guide
 - The Rise of Digital Reading Saflex Acoustical Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Saflex Acoustical Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Saflex Acoustical Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Saflex Acoustical Guide
 - Personalized Recommendations
 - Saflex Acoustical Guide User Reviews and Ratings
 - Saflex Acoustical Guide and Bestseller Lists
5. Accessing Saflex Acoustical Guide Free and Paid eBooks
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 - Saflex Acoustical Guide eBook Subscription Services
 - Saflex Acoustical Guide Budget-Friendly Options

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 - Saflex Acoustical Guide Compatibility with Devices
 - Saflex Acoustical Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Saflex Acoustical Guide
 - Highlighting and Note-Taking Saflex Acoustical Guide
 - Interactive Elements Saflex Acoustical Guide
8. Staying Engaged with Saflex Acoustical Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Saflex Acoustical Guide
9. Balancing eBooks and Physical Books Saflex Acoustical Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Saflex Acoustical Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Saflex Acoustical Guide
 - Setting Reading Goals Saflex Acoustical Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Saflex Acoustical Guide
 - Fact-Checking eBook Content of Saflex Acoustical Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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