

As1288 2006 Australian Standards Glass In Building

Glass in Building Glass Buildings Glass in Building Glass Construction Manual Structural Glass Facades and Enclosures Basics Glass Construction Glass & Interactive Building Envelopes Safety Implications of Glass in Building Construction Glass Structures Glass in Architecture from the Pre- to the Post-industrial Era The Use of Glass in Buildings Glass in Building Glass & Interactive Building Envelopes Glass in Architecture and Decoration Glass in Building. Laminated Glass and Laminated Safety Glass. Dimensions and Edge Finishing Great Glass Buildings The Place of Glass in Building Glass in Architecture Windows and Glass in the Exterior of Buildings Glass in Building David Button Heinz W. Krewinkel Bernhard Weller Christian Schittich Mic Patterson Andreas Achilles Michel Crisinel Iain Barnard Jan Wurm Sophie Wolf Valerie L. Block Bernhard Weller Michel Crisinel Raymond McGrath British Standards Institute Staff Peter Hyatt John Gloag Michael Wigginton National Research Council (U.S.). Building Research Institute David Button

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a comprehensive guide to the nature and performance of glass and its relationship with the building occupant prepared by a team of expert contributors from Pilkington Glass Ltd the volume explores the visual thermal mechanical and protective functions so that

specifiers of glass can fully understand what they can achieve with it numerous line diagrams help to explain relevant points of theory while built examples are illustrated by color photographs throughout the text primarily for architects and design professionals annotation copyright by book news inc portland or

glass is a material which renders possible an especially elegant architectural language this book provides a detailed insight into a world of technically sophisticated structures twenty five projects from the past five years are presented here in a wealth of detail by way of descriptions photographs and scale drawings the buildings selected encompass a wide range of different types and functions providing an intriguing record of the whole spectrum of current developments in glass technology and the role it plays in construction

glass in building opens up a whole range of fascinating design possibilities for the planning architect glass has long served as a translucent room closing element but its range of possible uses is actually much wider it not only offers protection against the external world for example noise or fire despite its apparent fragility it can even take on load bearing functions in supporting structures in combination with various different finishing methods materials and coatings it also satisfies exacting structural physical standards glass in building offers a clear compact and illustrated overview of the material appropriate use of this varied and versatile material in building construction and provides information that goes far beyond the basics on designing with glass and producing and using specialized glass products as well as on the building and planning regulations that must be taken into account when constructing with glass a selection of exemplary realized projects rounds out the theoretical section das bauen mit glas eröffnet dem planenden architekten faszinierende gestalterische möglichkeiten schon lange dient es als lichtdurchlässiger raumabschluss ist aber weitaus vielfältiger einsetzbar glas bietet nicht nur schutz vor der aussenwelt etwa gegen lärm oder feuer sondern kann trotz seiner vermeintlichen zerbrechlichkeit sogar lastabtragende funktionen innerhalb eines tragwerks übernehmen in kombination mit verschiedenen veredelungsmethoden materialien und beschichtungen erfüllt es auch hohe bauphysikalische anforderungen detail practice konstruktiver glasbau liefert einen kompakten anschaulichen Überblick über den materialgerechten einsatz dieses facettenreichen baustoffs in der baukonstruktion und vermittelt weit über die grundlagen hinausreichende informationen zum entwerfen mit glas zur herstellung und anwendung spezieller glasprodukte sowie zu den baurechtlichen regelungen die im glasbau zu berücksichtigen sind eine auswahl beispielhafter realisierter projekte rundet den theoretischen teil ab

glass offers a wide variety of possible applications for the realization of even the most ambitious designs in architecture and in the past two decades it has experienced an unparalleled burst of innovation for planners this means working constantly with this high performance material in compact and appealing form the completely revised glass construction manual presents the current state of the art on planning and building with glass from the history through the technical foundations all the way to the most innovative applications astonishing perspectives on thermal insulation and solar protection and the addition of thoughtfully selected new practical examples round off this comprehensive reference work

a comprehensive guide to structural glass facades for architects engineers and builders once an experimental building form structural glass facades have matured into a fully robust technology structural glass facades and enclosures documents defines and categorizes the current state of the art in long span glass facade design and construction with a focus on structural systems glass cladding options and implementation strategies for innovative design a comparative analysis of these various systems is included along with designs and design practices for enhancing transparency engineering issues material process and fabrication considerations installation means and methods and project delivery strategies for implementing innovative building technology in today s construction marketplace the reader will find information here that is not available together in any single resource including structural system types and design options with integrated glass system options and their application on each of the structural types an in depth discussion of design fabrication and installation issues relative to each system type accompanied by illustrations and photographs a discussion of the challenges of implementing innovative design and technology in the construction industry and operational practices to improve the probability of success a series of in depth case studies documenting representative samples of stunning built works that employ the technology and design principles identified in the book structural glass facades and enclosures provides expert content for putting cutting edge technology into real life practice creating new potential for fresh applications embracing both aesthetic and performance solutions and for the adoption of the technology by architects builders and facade practitioners

glass construction is one of the most varied and innovative areas of structural design glass connects exterior and interior spaces at the same time it protects the interior space from the outside world its constructional possibilities go far beyond classical window constructions special glasses possess astonishing physical characteristics and can thus be used in varied and creative ways topics glass as building material

processing and finishing applications construction types connections mountings

the concept of tomorrow s towns and cities will be based on new social economic and technological ideals focused on improving the quality of life to attain this objective architects and engineers of today must improve the quality of buildings and establish new principles of building conception the quality of interior space and the impact of a building on its surroundings depends strongly on the physical interface that separates the outer environment from the inner building space the conception and realisation of this interface the envelope are therefore of prime importance

flat glass opens up more possibilities for the planner than virtually any other material because of the technological complexity of using it however no specific structural forms have been developed for glass supporting frameworks as they have been for wood concrete and steel this book is thus the first to present a coherent guide to the planning and design of glass supporting frameworks the focus is on the pressure resistant flat supporting element as a basic building block for broad supporting structures the spatial and constructive forms of multifunctional self supporting glass envelopes are vividly illustrated and systematically explained the constructions presented exhibit new aesthetic qualities based not on the dictum of dematerialization but on the poetry of gleaming and transparent planes they ring in a new chapter in the history of glass architecture

glass is one of the most fascinating and versatile building materials in architectural history the new insights into glass in architecture are the result of research at the intersection of glass production construction technology and building culture coming from a variety of disciplines the contributions bridge the divide between natural sciences humanities and the preservation and restoration of cultural heritage they explore the crucial role of flat glass in shaping architecture particularly since the 18th century and discuss the in situ restoration of historic windows and glass façades and the importance of preserving this fragile heritage the topics range from the manufacture of sheet glass in pre industrial times to the possibilities of repair and reusability of insulating glazing with contributions in english german and french a multi disciplinary survey of the history of the production and use of flat glass from the roman times to the present day new insights on sheet glass as building material and cultural heritage look inside

this proceedings volume from the american society for testing and materials contains 16 papers by industry professionals on the use of glass in buildings with an emphasis

on glass design editor block discusses codes and standards affecting glass in buildings in the u s and abroad other topics inc

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aims to increase the knowledge of properties and possibilities of glazing in order to increase the performance of building envelopes to reduce the energy consumption and to improve the quality of life with respect to interior space impact on the environment and human welfare

glass safety glass glazing laminates buildings construction materials construction systems parts dimensions dimensional tolerances thickness fire resistant materials size edge finishes

in great glass buildings peter and jennifer hyatt present fifty exemplary modern projects that explore a number of theories about the nature mystique and attraction of glass in the architecture of recent years variously performing roles that include giftwrap lightweight armour transmitter and insulator glass began its re emergence as an architectural force during the 1990s as a symbol of new modernism advances in glass making and construction technology and the advent of structural glazing fixing systems glass coatings and waterproof connections have transformed the ambitious dreams of the past into reality including projects by foster and partners murphy jahn santiago calatrava shigeru ban renzo piano and many others this book reveals the complex nature of glass in today s architecture selling points the latest in images designing with for series a unique focus on the work of renowned contemporary architects from around the world showcasing their projects designed with glass exceptional full colour photographs

originally published in 1943 the place of glass in building is a comprehensive and compact survey of the structural uses of glass in 20th century architecture it gives the facts about the physical properties the possibilities and the limitations of the glass in common use it also deals with the attributes of specialised and decorative glass and provides detailed descriptions of the principal types which were manufactured in the uk intended for architectural students it may also be of interest to architects for it is a condensed survey of the progress that has been made in this structural and decorative material

an overview of the art and science of glass in architecture this work provides a comprehensive overview of the art and science of glass use demonstrating its historical importance in paving the way for a closer synergy between the designer and technologist in addition to providing a historical context for glass architecture the central section of the book presents 20 international detailed case studies of contemporary glass buildings showing the range of applications in a variety of situations large and small the book also explores the potential for the future as new materials move from the abstract world of technical research into realization a detailed appendix provides a full review of the science of glass with a section on design and performance

since its publication in 1993 glass in building has rapidly become the definitive book on this most important modern building material now the book is re issued in paperback so that a greater audience can enjoy and gain value from this work glass fulfils a multitude of functions in buildings in addition to its traditional day lighting role innovative

architectural designs together with the development of new glass types continually extend the range of applications of this material glass in building is a comprehensive guide to the nature and performance of glass and its relationship with the building occupant prepared by a team of expert contributors from pilkington glass limited the book explores the visual thermal mechanical and protective functions so that specifiers of glass can fully understand what they can achieve with it numerous line diagrams help to explain relevant points of theory while built examples are illustrated by colour photographs throughout the text glass in building will help architects and design professionals to approach glass specifications with increased understanding and confidence it will also be a valuable reference for construction professionals academics students and anyone wanting to know more about this unique material

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