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Facade Construction Manual Timber Construction Manual Construction Manual for Polymers + Membranes Architectural Details 2003 Bio-based Building Skin Modern Construction Envelopes Constructing Architecture Building to Suit the Climate Energy Manual Construction Materials Manual Single Family Houses Holzbau Atlas Construction Information Source and Reference Guide Glass Construction Manual Zeitschrift für Architektur & Bau Detail Climate and Architecture Single Family Houses Architectural Detailing Facade Apertures Building Skins Thomas Herzog Thomas Herzog Jan Knippers Detail Magazine Anna Sandak Andrew Watts Andrea Deplazes Petra Liedl Manfred Hegger Manfred Hegger Christian Schittich Thomas Herzog Jack W. Ward Dieter Balkow Torben Dahl Rüdiger Krisch Edward Allen Roland Krippner Christian Schittich
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facades they are the first feature of a building to be noticed they determine its distinctive appearance and are often the subject of controversial debate this new first edition of the facade construction manual provides a systematic survey of contemporary expertise in the application of new materials and energy efficient technologies in facade design and represents an invaluable addition to our series of construction manuals it surveys the facade design

requirements made by various types of buildings as well as the most important materials from natural stone through to synthetics and documents a diversity of construction forms for a wide range of building types over 100 international case studies in large scale detailed drawings are presented in the comprehensive project section

with some 600 photos and 4000 drawings and plans the timber construction manual is a comprehensive and indispensable reference work in the specialist literature on timber it looks at all types of timber and timber materials also presenting detailed information on the current norms and standards chapters cover the basic principles of working with timber providing detailed information on subjects such as heat noise insulation fire protection treatment the significance of timber with particular reference to ecology is also investigated timber as a load bearing material is considered and topics such as new methods of joining transport and montage are documented the second part of the volume presents a large number of built examples which feature some classic structures but focus chiefly on more recent buildings the spectrum presented ranges from heavy load bridges to multi storey residential buildings the second part of the examples looks specifically at topics such as facades building skins etc

whether it be as translucent sheets broadly stretched membranes and inflated foil cushions or in graceful organic curves architecture today is utilizing plastics in the most disparate forms and for a wide variety of purposes innovative technical developments are constantly improving its material properties at the same time there is a growing new awareness of its potential as a construction material while plastics used to be employed primarily as an inexpensive variant on traditional building materials they are increasingly regarded in the construction world today as a serious and viable alternative be it as supporting structures roofs facades or elements of interior design and decoration thanks in large part to this inherent self sufficiency plastics are currently enjoying an unprecedented surge in popularity even among the international architectural avant garde as multiwall sheets or corrugated fiber reinforced panels or as filling between glass panes and the new generation of ecological bioplastics also pays tribute to the debate on sustainability ridding plastics of their lingering reputation as environmental offenders from the history of plastics and membranes in architecture to their material properties and requirements in construction and design the plastics and membranes construction manual cuts to the chase providing the kind of solid and comprehensive overview of the subject that readers have come to expect from the im detail series selected project

examples round off the reference work and make it indispensable for the day to day life of the professional planner and for every architecture library

this is a compilation of the full year's information including the discussion section where well known architects and critics as well as specialist authors and architectural historians articulate their views the documentation section containing an analysis of selected projects in which buildings from around the world are covered in depth and the technology section where the specific theme of each issue of the magazine is treated in greater depth along with these are illustrations of the high standards that detail is known for where all plan drawings are true to scale and have been approved by the architects planners and engineers responsible for the original design this annual sourcebook is a beautiful record not only of the year's detail publication but of some of the best and most innovative contemporary architecture

this book provides a compendium of material properties demonstrates several successful examples of bio based materials application in building facades and offers ideas for new designs and novel solutions it features a state of the art review addresses the latest trends in material selection assembling systems and innovative functions of facades in detail selected case studies on buildings from diverse locations are subsequently presented to demonstrate the successful implementation of various biomaterial solutions which defines unique architectural styles and building functions the structures morphologies and aesthetic impressions related to bio based building facades are discussed from the perspective of art and innovation essential factors influencing the performance of materials with respect to functionality and safety are also presented special emphasis is placed on assessing the performance of a given facade throughout the service life of a building and after its end the book not only provides an excellent source of technical and scientific information but also contributes to public awareness by demonstrating the benefits to be gained from the proper use of bio based materials in facades as such it will appeal to a broad audience including architects engineers designers and building contractors

modern construction envelopes deals with the facade and roof as an integral part of the building allowing a holistic approach to the design of the building envelope and providing greater design freedom the book is aimed at readers who want to extend their knowledge of wall and roof construction beyond the information given in the modern

construction handbook using state of the art construction principles of modern facade and roof systems the third edition of this classic has been fully brought up to date it contains new examples in all chapters and presents the projects in revised new 3d drawings and in 27 ar applications that can be accessed free of charge via smartphone and tablet

now in its second edition the trailblazing introduction and textbook on construction includes a new section on translucent materials and an article on the use of glass

in future buildings that make sense from a bioclimatic perspective will not be the exception planners will simply be expected to design them with its wealth of facts this book serves as a concrete aid to planning and design with the planning process as its roadmap it accompanies the planner from the basic evaluation stage through conception and implementation planning all the way to building operation the building related characteristics of the various climatic zones form the basis for the made to measure development of integrated building solutions well conceived graphics illustrate planning contexts and facilitate efficient planning decisions and realistic predimensioning materials systems and technologies are described and their areas of application are pointed out reference parameters costs and the presentation of interrelationships equip the planner to make a strategic and well informed selection

while the efficiency and sustainability offensive is in full swing in most sectors of the economy in the construction sector it is still in its very beginnings economically as well as ecologically however politicians and policymakers at the global european and national levels have begun to address this deficit and are seeking to correct it with legal requirements and laws like enev building certifications and competitions following the proven model of earlier manuals in the series the energy manual presents a comprehensive look at the constructional parameters of energy efficiency and sustainability it offers an advance look at the legal regulations being planned by the eu and as a tool ready for immediate use by architects engineers and designers in their daily work it points the way toward the efficient and sustainable construction and operation of buildings with its focus on the entire lifecycle of a building it provides an integrated perspective a necessary prerequisite for sustainable economic management

the manual addresses fundamental questions of sustainability including life span environmental impact and material cycles while also presenting material innovations all of the principal conventional and innovative construction materials are documented with attention to their production treatment surfaces connections and characteristics

the private single family house is still very much the preferred choice of home yet in recent years there have been many changes not only in the personal situations of the residents their expectations and desires but also in the rising costs of energy and raw materials this has meant that issues such as multi functionalism the use of innovative building materials or energy efficient building methods are increasing in significance in this completely revised and expanded second edition these topical developments have been taken into consideration the organisation and layout of the first volume with its concise and detailed project documentation has been retained the authors introduce floor plan solutions using contemporary projects which bear in mind changing family structures at the same time the contributions provide an in depth introduction to planning single family houses from the design of the floor plan to useful tips for the realisation in addition to this fundamental information 22 projects are documented providing ideas and inspiration for planners students and clients the international selection of projects highlights current trends in planning and designing single family housing and reveals the tried and tested basics

das nachschlagewerk zur konstruktion mit holz und holzwerkstoffen mit einem ausfuhrlichen kapitel zum thema okologie bauphysikalischen grundlagen mit den schwerpunkten warme schall und brandschutz im bereich der tragwerksplanung spielen die neuen verbindungsmitte eine wichtige rolle

this is a reference work on working with glass this volume aims to show the wide range of possibilities for using glass in construction beginning with a historical overview of glass in architecture and explores the principles of construction with such practical aspects as fixing systems

drawing on examples from around the world this book explores the ways in which climate shapes architecture with international case studies the illustrated guide is distinctive in its focus on comfort rather than energy

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this edition of the industry standard on architectural detailing includes new sections covering analysis and modification of existing details and design of new details both basic and advanced revised to address sustainability and to reflect the international building code architectural detailing continues to deliver reliable insightful information on how to design details that will be water and airtight control the flows of heat and water vapor adjust to all kinds of movement age gracefully be easy to construct and still look good conveniently organized by the three major concerns of the detailer function constructibility and aesthetics this edition features richly illustrated examples of detail design case studies and practical exercises new and revised patterns showing form constructibility and aesthetics everything you need whether a student or professional to design details that work order your copy today

deals with the various forms of opening such as doors windows ventilation elements and fixed glass panes and their materialization which also varies according to function special attention is give to the subject of edges

the external facades of a building are more than a protective mantle or an intelligent skin regulating temperature and light they also determine its very appearance by unusual choices of materials and the use of complex technology facades have become increasingly significant in recent years external surfaces are being perceived as an integral part of the building and are therefore being designed as such this volume focuses on the wide ranging aspects of facade design from the selection and use of materials to the advanced technical possibilities now open to

the architect a wide array of carefully selected international examples show the theory in the practice all plans details and large scale sections of the facades have been researched with the high degree of competence typical of the editorial staff from the review detail expert authors provide the essential information needed to plan and design facades and elucidate on the latest developments in technology and materials

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Introduction

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