

Facade Construction Manual

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Birkhauser Facade Manual

Ingrid Paoletti, Massimiliano Nastri



Birkhauser Facade Manual:

Facade Construction Manual Thomas Herzog, Roland Krippner, Werner Lang, 2012-12-10 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

Façades Ulrich Knaack, Tillmann Klein, Marcel Bilow, Thomas Auer, 2014-09-05 Introduction to building facades as revised edition Facades determine the appearance of a building Hence they constitute a major element in architecture At the same time the building's envelope has important functions to fulfil such as lighting weatherproofing thermal insulation load transfer and sound insulation Over the past 15 years facades have become increasingly complex intelligent facades for instance adapt to changing climate and lighting conditions Newly developed materials and technologies have broadened the scope of facade functions This book demonstrates the principles of facade construction It systematically describes the most common types such as post and beam facade curtain wall corridor facade or double facade and provides guidelines for appropriate detailing Numerous drawings made especially for the book explain the principles of different types of facades which are then illustrated with built examples For this second edition all chapters were revised and all four examples in the case studies chapter were replaced by new material The new chapter Future Facades offers insights into what's next

Basics Facade Apertures Roland Krippner, Florian Musso, 2017-05-22 Facade apertures represent the realm of the exterior wall or facade which establishes the connection between inside and out and makes it possible to illuminate and ventilate the spaces behind it This volume deals with the various forms of openings such as doors windows ventilation elements and fixed glass panes and their materialization which also varies according to function special attention is given to the subject of edges Themes Types and positions of openings Technical requirements Construction types Connections edges

Executive Design of the Façade Systems Ingrid Paoletti, Massimiliano Nistri, 2023-09-25 The book examines the typological and technological constitution of the principal advanced facade systems in the contemporary design and experimental scenario proposing itself as a knowledge and operational tool currently lacking in the technical literature of the sector at an international level It considers the field of advanced facade systems in a scientific way constituting a support for the study and the executive design The book investigates in detail in an analytical form the constitution of the components on a typological and geometrical functional and constructive level on the basis of the documents and knowledges acquired from the essential contemporary production and construction references At the same

time the book is configured in a handbook form as a reference for understanding and application with respect to traditional and complex fa ade systems For each main type of fa ade the book provides explanations and scientific information for investigating and designing the advanced fa ades according to the characteristics of the mullions and transoms fa ade system stick system of the structural sealant glazing fa ade system of the unit fa ade system of the suspended fa ade system and of the double skin fa ade system Construction of the Façade Systems Ingrid Paoletti,Massimiliano Nastri,2023-12-04 The book explores the advanced fa ade systems according to the productive and constructive contents in a cognitive and operative form as a manual text to provide guidelines for researchers technicians and professionals It provides operational guidance for the technological design production planning and site executive coordination for the realization of fa ade systems The analysis deals with the main building elements and technical interfaces The study of the fa ade systems after explaining the anchoring structures and their connections to the load bearing elements investigates the criteria for the assembly between the framings In particular the book examines the technical interfaces of the main advanced envelope systems with respect to the functional constructive and applicative coordination procedures of the mullions and transoms framing of the structural sealant glazing fa ade system of the unit fa ade system of the suspended fa ade system and of the double skin fa ade system The technical and manual character of the book is also expressed through the analysis of the functional and application procedures of the gaskets with respect to the fa ade systems in order to prevent the transmission of air and water loads the analysis focuses on the connections between the framing and the enclosure elements of the envelope in accordance with the compensation of height differences in order to guarantee impermeability airtightness and insulation Then the book describes the assembly and interface conditions between elements of different composition and production within the fa ade systems the examination of the technical interfaces involves the development and application of sealants based on the loads exerted on the jointing devices in order to fulfill the requirements of sealing and tightness with respect to mechanical thermal and hygrometric water air and wind stresses Moreover the study of the envelope systems examines the methodologies directed toward fulfilling the requirements with respect to the actions caused by fire loads considering the contents related to both components and connections and fixing surfaces Contemporary Curtain Wall Architecture Scott Charles Murray,2009-10-07 In Contemporary Curtain Wall Architecture building technology historian and architect Scott Murray traces the evolution of the curtain wall from early skeleton frame structures of the past to today s complex and technologically advanced configurations Presenting twenty four detailed case studies of exemplary structures completed in the last decade he reveals the curtain wall as one of the most enduring and malleable concepts of contemporary architecture capable of adapting intelligently to site constraints utilizing resources efficiently and offering unprecedented opportunities for innovations in digital design and fabrication material detailing and aesthetic expression Book Jacket

Architectural Detailing Patrick Rand,Jason Miller,Edward Allen,2024-09-24 The industry standard guide to designing

well performing buildings Aesthetics are a vital part of good design Great design emerges from a deep understanding of the functionality and constructability of details Good details provide clear complete and correct information to the wide variety of users that need them Architects guide a project from design idea to buildable reality by working with other building industry professionals and creating a set of details that show how things are put together Architectural Detailing systematically describes the principles for designing good architectural details Using patterns that demonstrate best practices and consistent approaches to design detailing this book teaches why detailing is important what factors shape detailing issues and how to detail a building that meets or exceeds performance requirements Extensive illustrations demonstrate how to design building details that will not leak water or air will control the flow of heat and water vapor will adjust to all kinds of movement and will be easy to construct This fourth edition has been updated to conform to the latest International Building Codes and International Energy Conservation Code requirements and incorporates current knowledge about new material and construction technology including Expanded patterns for sustainability high performance architecture and resilience Examples using panelized or modularized prefabricated building assemblies Complex case studies demonstrating the detailing design process for energy efficient structures Design detailing for maintenance and management of sensitive or weak spots in a building assembly Architectural Detailing helps you bring a building together with a well detailed design that communicates effectively at all levels of the construction process Prefabricated Systems Ulrich Knaack, Sharon Chung-Klatte, Reinhard Hasselbach, 2012-12-13 For a number of years modular construction the use of prefabricated elements in architecture has once again become a subject of lively discussion and debate Long written off as monotonous today s building components are actually highly differentiated and capable of supporting and enhancing the architect s creativity Numerous structures work with prefabricated components for single family homes the figure is ninety eight percent and modular systems are available that meet high aesthetic standards This book provides an overview of the various different systems and their possible uses particularly in the areas of housing office and industrial buildings It explains the processes and components of modular construction and the behavior of the various materials when this construction approach is used The authors offer strategies for planning and designing with prefabricated systems so that the architect can use them productively Numerous drawings explain the principles of modular construction while built examples forge a link between those principles and the practical activity of building **Facade Apertures** Roland Krippner, Florian Musso, 2008 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 **Bio-based Building Skin** Anna Sandak, Jakub Sandak, Marcin Brzezicki, Andreja Kutnar, 2019-03-04 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

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