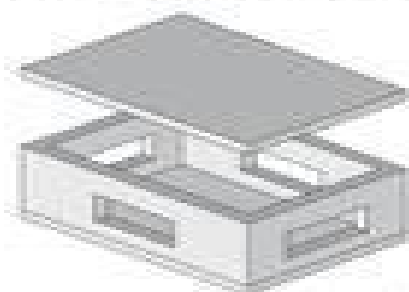


Summer heat protection

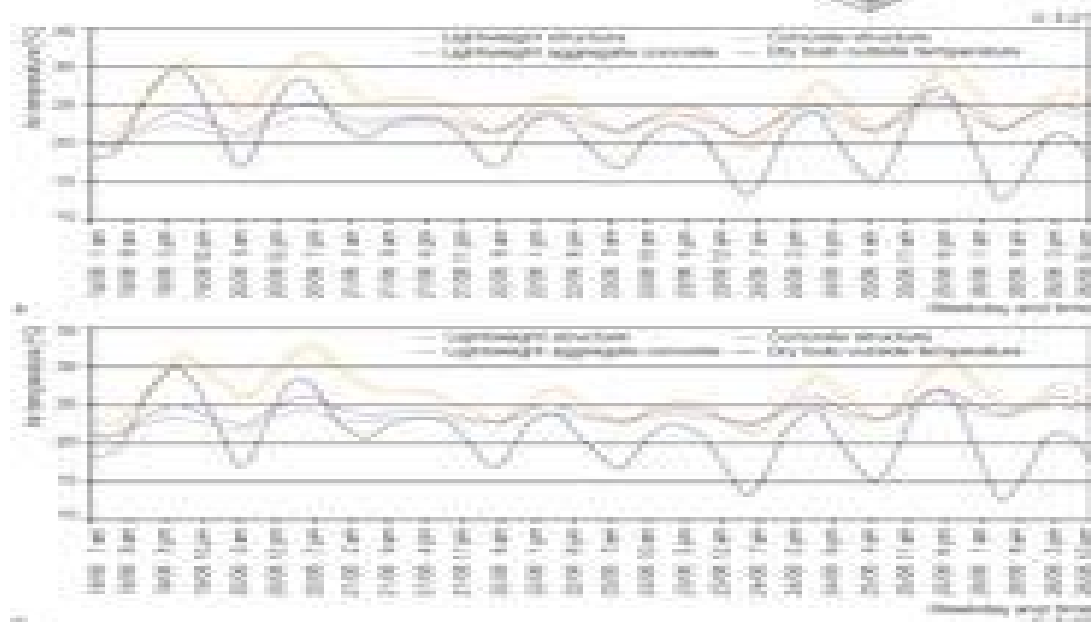
The construction of building envelopes with U-values of less than 0.2 W/m²K has significantly reduced energy exchange through thermal conductivity. Heat transfer between the inside and outside still takes place through radiation and convection (ventilation). During the summer, the thermal gains through solar radiation and the operation of electrical equipment and appliances are so high that they exceed the night time losses through thermal conductivity and the (negligible) radiation losses. Office buildings, with a high level of daytime occupancy combined with the heat from illumination and electrical equipment, are especially affected. Additionally, included

in non-residential buildings often feature a high proportion of glazing to provide daylight for the working areas. A simplified calculation of the summer heat protection (according to DIN 4108-5) can be made using some characteristic values. This takes account of the climate region, the relationship between the surface area of windows and the surface area of the relevant rooms as well as the quality of the windows.

Alternatively, the internal temperature of the individual rooms or zones of a building can be determined using thermal building simulation with temporally variable (dynamic) system boundary conditions by modelling the specific physical and technical parameters of a building



- (C 3.21) Needs software to simulate the internal temperature
- (C 3.22) Highly variation in the operative room temperature at maximum (21 June) without air exchange rate of 1.0 h⁻¹
 - a. With light-storage capacity of 10 MJ
 - b. Without light-storage capacity
- (C 3.23) Total system efficiency depending on the use of the building and the actual energy demand for heating is related to the surface area of the building
 - a. Low temperature source (10 °C)
 - b. Conventional source combined with active thermal storage system
 - c. Heat pump system



and their resulting energy flows over a given time period. The boundary surfaces of the building example (Fig. C 3.21) are thermally insulated externally to Passive House standards, so the heat capacity of the building components can be used as a buffer. Wall and roof construction have the same 100 mm thickness (made up 10.5% of the total wall area) and are arranged equally on all four faces. Thermal transfer occurs through the surface of the outer envelope (system boundary) in the form of thermal conductivity, radiation and convection (ventilation). Other heat sources or sinks (heating, building equipment technology or similar) are not present. The daytime air exchange rate is $n = 0.5 \text{ h}^{-1}$ and can be increased to $n = 5.0 \text{ h}^{-1}$ during the night. Heating or cooling systems are not active during the simulation (25).

Fig. C 3.22 shows the changes in the exterior and interior (operative) temperatures over the simulation period. It is clear that the exterior temperature shows periodic fluctuations. At the same time, variations over several days (heating and cooling) are identifiable. In principle, the interior temperature follows the course of the exterior temperature. However, the interaction between the course of the operative temperature and the effective heat storage capacity of the building structure is evident. With a lower heat storage capacity, the operative temperature shows pronounced fluctuations and follows the movement of the exterior temperature closely. With no heat storage mass, the building heats up markedly during the daytime; the peak temperatures become so high it is no longer comfortable and consequently the space has to be air-conditioned.

With greater effective heat storage capacity, the amplitude of the operative temperature compared to the exterior temperature is reduced considerably, and the room temperature fluctuates in a narrower range, which is still perceived as comfortable. Under these circumstances, cooling or air conditioning is not required. These results lead to the general conclusion that, given Germany's climate, the insulation of air-conditioning is not necessary if heat input can be restricted through the use of effective winter protection measures – in particular window glazing – and building components with effective heat storage capacity to store incoming heat. The temperature of the thermal store at the start of the sun's radiation should be as low as possible so that – proportional to the temperature difference – heat transfer is maximised and the temperature of the component after storing incoming thermal energy does not exceed approx. 20 °C. This storage requires the removal of the heat gained in building components during the day through convection to the outside (ventilation) in the cooler night hours, even in the medium-term months. This leads not only to a reduction in a building's primary energy consumption, but also reduces the investment and operating costs for equipment and systems.

Concrete Construction Manual Birkhauser Detail

**Ulrich Knaack, Tillmann Klein, Marcel
Bilow, Thomas Auer**



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Concrete Construction Manual Friedbert Kind-Barkauskas, Bruno Kauhsen, Stefan Polónyi, Jörg Brandt, 2013-01-07 No detailed description available for Concrete Construction Manual *Basics Concrete Construction* Katrin Hanses, 2017-05-22 Concrete is the modern construction material that has helped shape the fundamental static principles of structural load bearing Similar to masonry concrete effectively transmits pressure downward but its weak point is tractive forces Concrete has also enabled freer use of architectonic forms This title imparts the basic knowledge every architect needs to master for planning reinforced and non reinforced concrete construction *The Architecture Reference & Specification Book updated & revised* Julia McMorrough, 2018-01-09 Most architectural standards references contain thousands of pages of details overwhelmingly more than architects need to know on any given day The updated and revised edition of Architecture Reference Specification contains vital information that s essential to planning and executing architectural projects of all shapes and sizes all in a format that is small enough to carry anywhere It distills the data provided in standard architectural volumes and is an easy to use reference for the most indispensable and most requested types of architectural information

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 **Architectural Details 2003** Detail Magazine, 2016-01-08 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

Materials, Structures, and Standards Julia McMorrough, 2006-01-01 Most architectural standards references contain thousands of pages of details overwhelmingly more than architects need to know to know on any given day Now there is a place where architects can find vital information essential to planning and executing architectural projects of all shapes and sizes in a format that is small enough to carry anywhere Materials Structures and Standards distills the data provided in standard architectural volumes and offers an easy to use reference for the most indispensable and most requested types of architectural information Part 1 Building an Architectural Project addresses basic geometry architectural drawing types AutoCAD guidelines building codes accessibility issues structural and mechanical systems conventional building components and sustainable design Part 2 Materials provides a detailed catalog of wood masonry and brick metals concrete and interior finishes Also included are an illustrated glossary of architectural terms and a cross referenced guide to the most helpful books organizations and websites

Architectural Detailing Edward Allen, Patrick Rand, 2016-02-24 The industry standard guide to designing well performing buildings Architectural Detailing systematically describes the principles by which good architectural details are designed Principles are explained in brief and backed by extensive illustrations that show you how to design 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 new third edition has been updated to conform to International Building Code 2012 and incorporates current knowledge about new material and construction technology Sustainable design issues are integrated where relevant and the discussion includes reviews of recent built works that extract underlying principles that can be the basis for new patterns or the alteration and addition to existing patterns Regulatory topics are primarily focused on the US but touch on other jurisdictions and geographic settings to give you a well rounded perspective of the art and science of architectural detailing In guiding a design from idea to reality architects design a set of details that show how a structure will be put together Good details are correct complete and provide accurate information to a wide variety of users By demonstrating the use of detail patterns this book teaches you how to design a building that will perform as well as you intend Integrate appropriate detailing into your designs Learn the latest in materials assemblies and construction methods Incorporate sustainable design principles and current building codes Design buildings that perform well age gracefully and look great Architects understand that aesthetics are only a small fraction of good design and that stability and functionality require a deep understanding of how things come together Architectural Detailing helps you bring it all together with a well

fleshed out design that communicates accurately at all levels of the construction process **Detailing for Landscape**

Architects Thomas R. Ryan, Edward Allen, Patrick J. Rand, 2011-02-25 Based upon the best selling book Architectural Detailing by Edward Allen and Patrick Rand Landscape Architectural Detailing applies the same organization to the three major concerns of the landscape architecture detailer function constructability and aesthetics Richly illustrated this book approaches landscape architecture detailing in a systematic manner and provides a framework for analyzing existing details and devising new ones Landscape Architectural Detailing includes material on details related to aesthetics water drainage and movement structures construction assemblies sustainable resources and more **Building Physics of the Envelope**

Ulrich Knaack, Eddie Koenders, 2018-05-07 Die Fassade ist die Schnittstelle des Gebäudes mit seiner Umwelt Dort treffen bauphysikalische Parameter wie Wärme Feuchte Schall und Licht auf das Haus und wirken auf es ein Alle diese Einflüsse bedingen die Regulierung durch die Gebäudehülle um Behaglichkeit für den Nutzer und Funktionstauglichkeit der Architektur zu gewährleisten Diese Einführung erläutert die wichtigsten Phänomene um dann den Bezug zur Baupraxis herzustellen Welche Materialien reagieren in welcher Weise auf diese Faktoren Wie gehen Fassadensystemen mit Wärme Feuchte Schall und Licht um Das praxisorientierte Buch entstanden aus der Zusammenarbeit eines Architekten und eines Bauingenieurs beschreibt die wichtigsten Fassadenmaterialien und Konstruktionen im Hinblick auf ihre bauphysikalische Performance

The Art of Precast Concrete David Bennett, 2005-08-26 As a building material precast concrete allows a wide range of sculptural forms and design options By treating the surface in various ways fascinating textures and fine finishes can be produced This book provides a systematic overview of the variety of applications for such concrete elements throughout Europe Author David Bennett provides in depth information on newly developed especially lightweight forms of concrete such as GRC Glass Fibre Reinforced Concrete Ductal and CRC Compact Reinforced Composite A selection of some 24 projects which are of particular significance are documented in detail and provide a wealth of inspiring design ideas The appendix comprises an overview of the building practices in the individual European countries and the availability of concrete elements Amongst the buildings documented are the Scottish Parliament Building in Edinburgh by Enric Miralles Benedetta Tagliabue the Synagogue in Dresden by Wandel Hoefer Lorch Hirsch and the Mexican Embassy in Berlin by Gonzalez de Leon Components and Connections Maarten Meijs, Ulrich Knaack, 2012-11-05 Jedes Gebäude besteht aus Teilen die vielfältig organisiert werden können Wärme etwa lassen sich auf unterschiedliche Weise anordnen um ihre Hauptfunktionen Tragen Trennen und Schützen optimal wahrzunehmen Das Buch stellt die gängigen Tragsysteme wie Scheiben Massiv oder Skelettbauweise vor und zeigt deren Auswirkung auf das Gesamtgefüge Es erklärt wie Räume vertikal oder horizontal verbunden und zu einem Ganzen zusammengesetzt werden können Die einzelnen Elemente wie Geschossdecken Deckenöffnungen oder Fundamente werden in ihren Funktionen und mit ihren Verbindungsmöglichkeiten dargestellt Das Buch zeigt hinter der Fülle der möglichen Details die Prinzipien der Detaillierung Zahlreiche eigens angefertigte Zeichnungen erklären

die Prinzipien der Bauteile und verdeutlichen diese dann an realisierten Projekten

Façades Ulrich Knaack, Tillmann Klein, Marcel Bilow, Thomas Auer, 2014-09-05 Introduction to building façades as revised edition Façades 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 façades have become increasingly complex intelligent façades for instance adapt to changing climate and lighting conditions Newly developed materials and technologies have broadened the scope of façade functions This book demonstrates the principles of façade construction It systematically describes the most common types such as post and beam façade curtain wall corridor façade or double façade and provides guidelines for appropriate detailing Numerous drawings made especially for the book explain the principles of different types of façades 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 Façades offers insights into what's next

World Architecture, 2002

Materiality and Interior Construction Jim Postell, Nancy Gesimondo, 2011-06-15 A comprehensive reference of materials for interior designers and architects Choosing the right material for the right purpose is a critical and often overlooked aspect in the larger context of designing buildings and interior spaces When specified and executed properly materials support and enhance a project's overall theme and infuse interior space with a solid foundation that balances visual poetry and functionality *Materiality and Interior Construction* imparts essential knowledge on how materials contribute to the construction and fabrication of floors partitions ceilings and millwork with thorough coverage of the important characteristics and properties of building materials and finishes Individual coverage of the key characteristics of each material explores the advantages and disadvantages of using specific materials and construction assemblies while helping readers discover how to make every building element count In addition *Materiality and Interior Construction* is highly illustrated throughout to show material properties and building assemblies Supplies rankings and information on the green attributes of each material so that designers can make informed decisions for specifications Is organized by application for easy and quick access to information Includes a companion website featuring an extensive online image bank of materials and assemblies Rather than a typical catalog of materials *Materiality and Interior Construction* is efficiently organized so that the reader is guided directly to the options for the location or assembly they are considering Reliable and easy to use *Materiality and Interior Construction* is a one stop comprehensive reference for hundreds of commonly used materials and their integration as building components and an invaluable resource that every interior designer or architect should add to their set of tools

High-rise Manual Johann Eisele, Ellen Kloft, 2003 What constitutes a high rise building A high rise is in fact any building with more than 9 storeys and not just those striking skyscrapers which shape modern city skylines In the past architects who designed such structures used to be the exception but in the last 10 years more and more architectural offices have begun to focus on this type of

building However the sheer complexity of designing and planning the construction of a high rise as opposed to other building types requires a wealth of specialized experience and expertise The High Rise Manual is the first comprehensive reference work on this subject All relevant aspects of such an undertaking are examined in detail by some 24 specialist authors Each step is extensively documented including the initial project planning the building organisation the laying of the foundations the supporting structure the building technology the office design and the Facility Management Theoretical contributions present the basic principles of select **Constructing Architecture** Andrea Deplazes, 2005-07-25 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 *Roof Construction Manual* Eberhard Schunck, Hans Jochen Oster, Rainer Barthel, Kurt Kießl, 2013-01-21 the Roof Construction Manual is a comprehensive reference work on the construction of pitched roofs containing over 1800 plans and 220 photographs Thirteen fundamental roof types and the relevant materials including thatch wood slate tile concrete fibrous cement bitumen glass metal membranes and synthetic materials are documented in detail Essential topics such as ventilation vapour and wind seals insulation and drainage renovation and energy conservation are examined As with all the Construction Manuals some 38 built examples illustrate the theoretical details paying particular attention to important features such as the ridge hip eaves roof valley verge and penetration A compact presentation of the load bearing physics and structures as well as current norms and standards make this volume an indispensable standard work for all architects and engineers **Advances in Structural Integrity and Failure** , 2024-02-21 The purpose of this book is to expand the knowledge and skills of civil and structural engineers and researchers and help them better understand design and analyze civil engineering applications This book examines advancements in structural integrity and failure and underground construction It offers profound insights into the mechanisms that can lead to the integrity or failure of structures and result in safe underground construction It provides details on the fundamental principles theories behavior and performance of different structural elements and underground construction The book delves into the mechanics design and construction of reinforced concrete structures It explores the design principles applied to reinforced concrete structures and considers critical structural elements like beams slabs columns and foundations It also demonstrates various advances in reinforced concrete technology including high performance concrete fiber reinforced concrete self compacting concrete and the use of nanomaterials It describes methods for the analysis and evaluation of reinforced concrete structures non destructive testing methods structural health monitoring finite element analysis and causes of failure In addition the book proposes a design model for determining the flexural bearing capacity of reinforced concrete beams having reinforcement steel with reduced modulus of elasticity Moreover the book investigates the effects of loading rates on the mechanical properties of structural steel It also evaluates the formation of welding defects in the process of connecting steel structures which is inevitable from the aspect of failure mechanics In addition it utilizes an equivalent shell wire model to propose a simple accurate technique

for nonlinear assessment of reinforced concrete shear walls with less computational cost The book introduces tunnel design theory and method support structure systems construction technology and equipment under complex geological conditions Furthermore it highlights procedures to design efficient dewatering systems considering the working conditions stability and impacts generated in the vicinity of construction and to examine the state of retaining walls by using hydrogeological tools Finally it outlines the online monitoring and intelligent diagnosis mechanism of key equipment in the subway ventilation system

Skins, Envelopes, and Enclosures Mayine Yu, 2013-08-22 Integrate the best building envelope construction methods materials science and structural principles in your work using this book as a resource to help you With more than seventy significant case studies located in North America South America Europe and Asia from prehistory to the present this book illuminates the theory and techniques of assembling exteriors Six chapters organized by wall types from hand set monolithic walls to digitally fabricated curtain walls each have a material focus section to help you understand their intrinsic properties so that you can decide which will best keep the weather out of your building Examples from the ancient world including the Pyramids and the Great Wall through a range of renowned modern architects such as Studio Gang Sauerbruch Hutton Herzog and deMeuron and Rafael Moneo illustrate how significant works in the history of architecture explored innovative use of materials stone brick concrete glass and aluminium Along the way principles of construction from masonry and basic framing through ever more sophisticated envelope systems address classic problems presented by gravity wind rain and sun with studies of lateral forces building movements and materials that bridge the gaps in between them

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

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