



THE BASIS OF ARCHITECTURALLY EXPOSED STRUCTURAL STEEL

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WHAT IS AESS?

Architecturally Exposed Structural Steel (AESS) is steel that must meet two requirements: it must be designed to be structurally sufficient to support the primary needs of the structure of the building, complex or auxiliary structure, while at the same time being exposed to view and forming a significant part of the architectural language of the building. Any structural steel that is not considered can therefore be considered architecturally exposed. The design, detailing and finish requirements of AESS will typically exceed that of standard structural steel, which is normally concealed by other materials or finishes. This naturally increases the time and cost in design, detail, fabrication, erection and finish AESS systems.

The integration of structural steel in architecturally exposed environments is a new approach to its design and detailing, in particular as not all AESS need be designed to be equally exposed. Detail, access, erection, maintenance and repairs will each have very different expectations of the role of the steel in the aesthetics of the building. Even within building typologies, different approaches to steel design are valid.

There is more to steel. Architecturally exposed structural steel can take steel from being merely a structural reinforcement to being a primary element in the design of the building. The design, detailing and finish requirements of the structural steel are often considered as an integral part of the building's design.

Architecturally Exposed Structural Steel Specifications Connections Details

Joacim Rocklöv



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Architecturally Exposed Structural Steel Terri Meyer Boake, 2015-02-17 This book provides the means for a better control and purposeful consideration of the design of Architecturally Exposed Structural Steel AEES It deploys a detailed categorization of AEES and its uses according to design context building typology and visual exposure In a rare combination this approach makes high quality benchmarks compatible with economies in terms of material use fabrication methods workforce and cost Building with exposed steel has become more and more popular worldwide also as advances in fire safety technology have permitted its use for building tasks under stringent fire regulations On her background of long standing as a teacher in architectural steel design affiliated with many institutions the author ranks among the world's best scholars on this topic Among the fields covered by the extensive approach of this book are the characteristics of the various categories of AEES the interrelatedness of design fabrication and erection of the steel structures issues of coating and protection including corrosion and fire protection special materials like weathering steel and stainless steel the member choices and a connection design checklist The description draws on many international examples from advanced contemporary architecture all visited and photographed by the author among which figure buildings like the Amgen Helix Bridge in Seattle the Shard Observation Level in London the New York Times Building and the Arganquela Footbridge

Structures and Architecture Paulo J. Cruz, 2016-10-14 Although the disciplines of architecture and structural engineering have both experienced their own historical development their interaction has resulted in many fascinating and delightful structures To take this interaction to a higher level there is a need to stimulate the inventive and creative design of architectural structures and to persuade architects and structural engineers to further collaborate in this process exploiting together new concepts applications and challenges This set of book of abstracts and full paper searchable CD ROM presents selected papers presented at the 3rd International Conference on Structures and Architecture Conference ICSA2016 organized by the School of Architecture of the University of Minho Guimar es Portugal July 2016 to promote the synergy in the collaboration between the disciplines of architecture and structural engineering

Complex Steel Structures Terri Meyer Boake, 2020-08-24 Complexity in architecture construction and material manipulation is constantly increasing due to our present ability to design calculate and fabricate an extending range of geometric shapes and systems This volume addresses the design of complexity in the planning fabrication and construction of steel structures based on non orthogonal geometries curved and chaotic geometries poly diagrid systems lattice grid structures and others Topical photographs by the author on a wide range of international projects present innovative methods and techniques providing an excellent understanding of the possibilities and requirements of complex steel structures

Structures and Architecture - Bridging the Gap and Crossing Borders Paulo J.S. Cruz, 2019-07-08 Structures and Architecture Bridging the Gap and Crossing Borders contains the lectures and papers presented at the Fourth International Conference on Structures and Architecture ICSA2019 that was held in Lisbon

Portugal in July 2019 It also contains a multimedia device with the full texts of the lectures presented at the conference including the 5 keynote lectures and almost 150 selected contributions The contributions on creative and scientific aspects in the conception and construction of structures on advanced technologies and on complex architectural and structural applications represent a fine blend of scientific technical and practical novelties in both fields ICSA2019 covered all major aspects of structures and architecture including building envelopes fa ades comprehension of complex forms computer and experimental methods futuristic structures concrete and masonry structures educating architects and structural engineers emerging technologies glass structures innovative architectural and structural design lightweight and membrane structures special structures steel and composite structures structural design challenges tall buildings the borderline between architecture and structural engineering the history of the relationship between architects and structural engineers the tectonic of architectural solutions the use of new materials timber structures among others This set of book and multimedia device is intended for a global readership of researchers and practitioners including architects structural and construction engineers builders and building consultants constructors material suppliers and product manufacturers and other professionals involved in the design and realization of architectural structural and infrastructural projects

Structural Design of Buildings Feng Fu, David Richardson, 2024-07-25 Structural Design of Buildings Holistic Design is the essential reference for structural engineers involved in the design of buildings and other structures It forms part of the Structural Design of Buildings series and introduces the concepts and principles involved in holistic structural design of a building

Structural Steel Designer's Handbook, Sixth Edition Roger L. Brockenbrough, 2019-10-25 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product A fully updated source for structural steel design information Thoroughly revised for the latest advances this comprehensive resource contains information essential to the design of steel structures The book lays out the fundamentals of structural steel fabrication and erection followed by detailed design methods for steel beams columns tension components roof systems and connections Design examples throughout the book clearly demonstrate how to apply complex code provisions in the field You will get clear explanations of AISC 360 16 the AASHTO Standard Specification for Structural Steel Bridges the AISI Cold Formed Steel Standards ASCE 7 16 and the 2018 IBC Structural Steel Designer's Handbook Sixth Edition covers Properties of structural steels Effects of steelmaking and fabrication Fabrication and erection Connections Building codes loads and fire protection Criteria for building design Design of building members Floor and roof systems Lateral force design Cold formed steel design Highway bridge design criteria Beam girder and truss bridges Arch and cable suspended bridges

Applying the Building Code Ronald L. Geren, 2016-02-22 No other resource not even the building code presents the exact code information you need when you need it at design stage The International Building Code IBC is a model building code developed by the International Code Council ICC The IBC and its complementary codes provide

design and construction professionals with a complete set of comprehensive coordinated building safety and fire prevention regulations in order to safeguard the public health and general welfare of the occupants of new and existing buildings and structures Adopted throughout most of the United States and its territories it is referenced by federal agencies such as the General Services Administration National Park Service Department of State U S Forest Service and the Department of Defense For architects and other design and construction professionals it is particularly important that they understand how to apply the IBC and how code officials view buildings so that they integrate code required provisions in the earliest design stages of any project Applying the IBC as well as its companion codes to building design is a process that is uniquely different to that of applying the building code during a planning review Whereas other guide books explain the IBC in sequential order from cover to cover chapter by chapter and section by section Applying the Building Code explains the requirements of the IBC as they would apply during the common phases of design from schematic design through to the preparation of construction documents This effectively highlights applicable requirements of the building code at the appropriate stage of design based on available information The book provides a 28 step process that is organized according to the three phases of architectural design schematic design design development and construction documents Each step explains the application of the IBC as well as other codes and standards referenced by the IBC i e International Fire Code International Energy Conservation Code and ANSI A117.1 based on available project information Illustrations and examples are provided throughout that explain the code fundamentals associated with each step A single example project is used throughout the step by step process to illustrate how each step is applied and builds upon code and project information obtained through previous steps Guidance is also provided on the International Existing Building Code and how the step by step process is applied to projects involving existing buildings The role of the building department and its staff in regard to plan reviews and code enforcement is discussed A detailed code data information template is provided that can help organize code related information for construction documents

Understanding Steel Design Terri Meyer Boake, 2013-03-04 *Understanding Steel Design* is based on an overall approach to understand how to design and build with steel from the perspective of its architectural applications Steel is a material whose qualities have enormous potential for the creation of dynamic architecture In an innovative approach to the reality of working with steel the book takes a new look both at the state of tried and tested techniques and at emerging projects Hundreds of steel structures have been observed analyzed and appraised for this book In depth construction photographs by the author are complemented by technical illustrations created to look more closely at systems and details Drawings supplied by fabricators allow greater insight into a method of working with current digital drawing tools

Detailing for Steel Construction ,2002 Modern Steel Construction ,2009

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