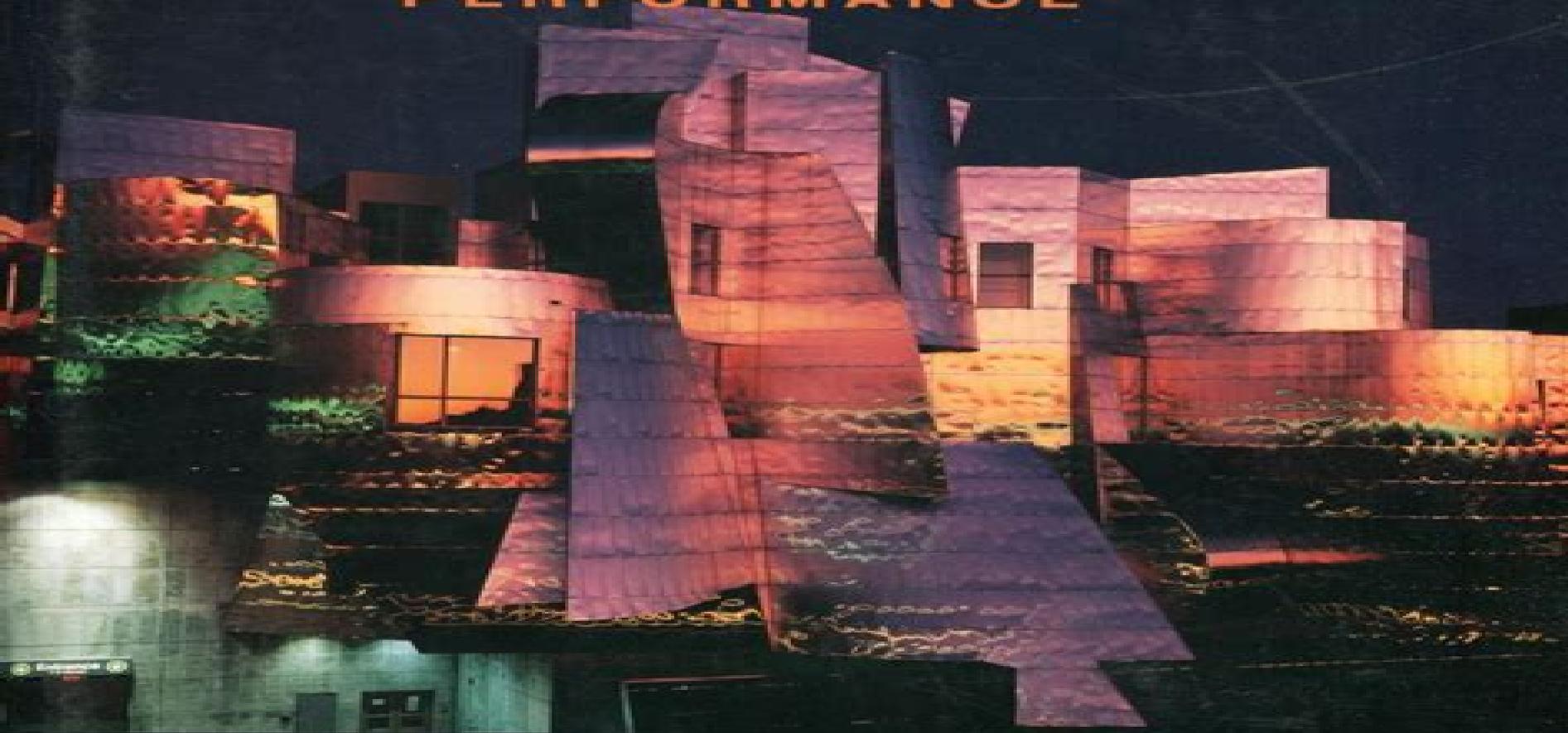


# Architectural Metals

A GUIDE TO  
SELECTION,  
SPECIFICATION, AND  
PERFORMANCE



L. William Zahner

FOREWORD BY FRANK O. GEHRY

# Architectural Metals A Guide To Selection Specification And Performance

**L. William Zahner**



## **Architectural Metals A Guide To Selection Specification And Performance:**

Architectural Metals L. William Zahner, 1995-07-28 The historic breakthroughs in the science of metallurgy over the last quarter century have produced an array of new metallic building materials. Architects and designers now have a far broader palette of metals to choose from than at any other time in history and metal is fast becoming the star building material featured in some of today's most exciting new building projects. A book whose time has come, *Architectural Metals* is the first comprehensive guide to the metals and metallic finishes currently available for use in architecture. Learn from a fourth generation expert in the field who has over the past fifteen years consulted on some of the world's most prestigious building projects. *Architectural Metals* demystifies metals for architects, artisans, and design professionals, providing them with a logical framework for the selection and use of the correct material for the job at hand. Encyclopedic in scope, *Architectural Metals* is an extremely user-friendly working resource supplying readers with instant access to a wealth of essential information about the forms and behaviors of metallic building materials. From aluminum, stainless steel, copper, lead, and zinc to new metals and finishes such as titanium, pewter-coated copper, and colored stainless steel, it describes everything architects, engineers, and design professionals need to know about all the common and many uncommon metals at their disposal. Each chapter of *Architectural Metals* is devoted to a specific type of metal, metallic finish, or coating. Each includes a historical overview, environmental concerns, an exhaustive description of available forms, and where appropriate, colors, performance evaluations, finishes, weathering, and corrosion characteristics, maintenance, and restoration techniques, fastening, welding, and joining methods, and more. And since each metal-producing industry has its own unique jargon and systems of measurement, the author takes pains throughout to define relevant terms and translate measurement and thickness indices into familiar inch and millimeter scales. Destined to become a standard in the field, *Architectural Metals* is an indispensable tool for architects, designers, and artisans who work with metals. Metal is the material of our time. It enables architecture to become sculpture; it also expresses technological possibility as well as the time-honored characteristics of quality and permanence. From Frank O. Gehry's foreword to *Architectural Metals*. Written by one of the leading experts on architectural metals, this is the first comprehensive guide to the metals and metallic finishes and coatings available for use in architectural construction. Growing out of its author's experiences helping architects realize some of the most exciting designs of the past twenty years, *Architectural Metals* demystifies metals for architects and design professionals. Supplies a logical framework for selecting the best materials for the job at hand. Provides instant access to everything architects and designers need to

**Architectural Metals** L. William Zahner, 1995-07-01 *Copper, Brass, and Bronze Surfaces* L. William Zahner, 2020-02-26 A FULL COLOR GUIDE FOR ARCHITECTS AND DESIGN PROFESSIONALS TO THE SELECTION AND APPLICATION OF COPPER BRASS AND BRONZE *Copper Brass and Bronze Surfaces* third in Zahner's *Architectural Metals* Series provides a comprehensive and authoritative treatment of copper, brass, and bronze applications in architecture.

and art It offers architecture and design professionals the information they need to ensure proper maintenance and fabrication techniques through detailed information and full color images It covers everything from the history of the metals and choosing the right alloy to detailed information on a variety of surface and chemical finishes and corrosion resistance The book also features case studies that offer strategies for designing and executing successful projects using copper brass and bronze Copper Brass and Bronze Surfaces is filled with illustrated case studies that present comprehensive coverage of how each metal is used in creating surfaces for building exteriors interiors and art finishes All the books in Zahner s Architectural Metals Series offer in depth coverage of today s most commonly used metals in architecture and art This visual guide Features full color images of a variety of copper brass and bronze finishes colors textures and forms Includes case studies with performance data that feature strategies on how to design and execute successful projects using copper brass and bronze Offers methods to address corrosion before and after it occurs Explains the significance of the different alloys and the forms available to the designer Discusses what to expect when using copper brass and bronze in various exposures Written for architecture professionals metal fabricators and developers architecture students designers and artists working with metals Copper Brass and Bronze Surfaces offers a logical framework for the selection and application of copper brass and bronze in all aspects of architecture

Steel Surfaces L. William Zahner,2020-10-06 A full color guide for architects and design professionals to the selection and application of steel Steel Surfaces fourth in Zahner s Architectural Metals Series provides a comprehensive and authoritative treatment of steel applications in architecture and art It offers architecture and design professionals the information they need to ensure proper maintenance and fabrication techniques through detailed information and full color images It covers everything from the history of the metal and choosing the right alloy to detailed information on a variety of surface and chemical finishes and corrosion resistance The book also features case studies that offer strategies for designing and executing successful projects using steel Steel Surfaces is filled with illustrated case studies that present comprehensive coverage of how steel is used in creating surfaces for building exteriors interiors and art finishes All the books in Zahner s Architectural Metals Series offer in depth coverage of today s most commonly used metals in architecture and art This visual guide Features full color images of a variety of steel finishes colors textures and forms Includes case studies with performance data that feature strategies on how to design and execute successful projects using steel Offers methods to address corrosion before and after it occurs Explains the significance of the different alloys and the forms available to the designer Discusses what to expect when using steel in various exposures Written for architecture professionals metal fabricators and developers architecture students designers and artists working with metals Steel Surfaces offers a logical framework for the selection and application of steel in all aspects of architecture

Aluminum Surfaces L. William Zahner,2019-08-22 A full color guide for architects and design professionals to the selection and application of aluminum Aluminum Surfaces second in William Zahner s Architectural Metals Series provides a

comprehensive and authoritative treatment of aluminum applications in architecture and art It offers architecture and design professionals the information they need to ensure proper maintenance and fabrication techniques through detailed information and full color images It covers everything from the history of the metal and choosing the right alloy to detailed information on a variety of surface and chemical finishes and corrosion resistance The book also features case studies offering architecture and design professionals strategies for designing and executing successful projects using aluminum Aluminum Surfaces is filled with illustrative case studies that offer strategies for designing and executing successful projects using aluminum All the books in Zahner s Architectural Metals Series offer in depth coverage of today s most commonly used metals in architecture and art This important book Contains a comprehensive guide to the use and maintenance of aluminum surfaces in architecture and art Features full color images of a variety of aluminum finishes colors textures and forms Includes case studies with performance data that feature strategies on how to design and execute successful projects using aluminum Offers methods to address corrosion before and after it occurs Discusses the environmental impact of aluminum from the creation process through application Explains the significance of the different alloys and the forms available to the designer Discusses expectations when using aluminum in various exposures For architecture professionals metal fabricators developers architecture students and instructors designers and artists working with metals Aluminum Surfaces offers a logical framework for the selection and application of aluminum in all aspects of architecture

### **Stainless Steel Surfaces**

L. William Zahner, 2019-08-27 A full color guide for architects and design professionals to the selection and application of stainless steel Stainless Steel Surfaces offers an authoritative and comprehensive guide to the application of stainless steel to create surfaces for building exteriors interiors and art finishes The first volume in Zahner s Architectural Metals Series the book is a visual full color book filled with the information needed to ensure proper maintenance of stainless steel and suggestions for fabrication techniques The author a noted expert in the field covers a range of topics including the history of the metal choosing the right alloy information on a variety of surface and chemical finishes and facts on corrosion resistance Stainless Steel Surfaces is filled with illustrative case studies that offer strategies for designing and executing successful projects using stainless steel All the books in the Zahner s Architectural Metals Series offer in depth coverage of today s most commonly used metals in architecture and art This important book Contains a comprehensive guide to the use and maintenance of stainless steel surfaces in architecture and art Features full color images of a range of stainless steel finishes colors textures and forms Presents case studies with performance data that feature strategies on how to design and execute successful projects using stainless steel Offers methods to address corrosion before and after it occurs Discusses the environmental impact of stainless steel from the creation process through application Explains the significance of the different alloys and the forms available to the designer Discusses what to expect when using stainless steel in various exposures Architecture professionals metal fabricators developers architecture students and instructors designers and artists

working with metals *Stainless Steel Surfaces* offers a logical framework for the selection and application of stainless steel in all aspects of architecture *Olin's Construction* H. Leslie Simmons, 2011-12-20 Get the updated industry standard for a new age of construction For more than fifty years Olin's Construction has been the cornerstone reference in the field for architecture and construction professionals and students This new edition is an invaluable resource that will provide in depth coverage for decades to come You'll find the most up to date principles materials methods codes and standards used in the design and construction of contemporary concrete steel masonry and wood buildings for residential commercial and institutional use Organized by the principles of the MasterFormat 2010 Update this edition Covers sitework concrete steel masonry wood and plastic materials sound control mechanical and electrical systems doors and windows finishes industry standards codes barrier free design and much more Offers extensive coverage of the metric system of measurement Includes more than 1 800 illustrations 175 new to this edition and more than 200 others revised to bring them up to date Provides vital descriptive information on how to design buildings detail components specify materials and products and avoid common pitfalls Contains new information on sustainability expanded coverage of the principles of construction management and the place of construction managers in the construction process and construction of long span structures in concrete steel and wood The most comprehensive text on the subject Olin's Construction covers not only the materials and methods of building construction but also building systems and equipment utilities properties of materials and current design and contracting requirements Whether you're a builder designer contractor or manager join the readers who have relied on the principles of Olin's Construction for more than two generations to master construction operations [New Architecture and Technology](#) Gyula Sebestyén, Christopher Pollington, 2007-06-07 Many books have covered the topics of architecture materials and technology *New Architecture and Technology* is the first to explore the interrelation between these three subjects It illustrates the impact of modern technology and materials on architecture The book explores the technical progress of building showing how developments both past and present are influenced by design methods It provides a survey of contemporary architecture as affected by construction technology It also explores aspects of building technology within the context of general industrial social and economic developments The reader will acquire a vocabulary covering the entire range of structure types and learn a new approach to understanding the development of design [Advanced Materials & Processes](#), 1996 **Metals and Corrosion** Lyndsie Selwyn, 2004 Literaturverz S 157 193 *Lawyers Desk Reference*, 2001 *Steel and Beyond* Annette W. LeCuyer, 2001 Metal opens up a vast range of fascinating possibilities in today's building industry Here the latest technical processes are presented together with examples from contemporary architecture New conceptual strategies for structures hybrid materials and constructions computer aided design and fabrication and the adaptation of techniques from aeroplane design and ship building these new technical developments in design and production are radically changing the use of metals in building Yesterday's standards and processes are rapidly becoming out

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