

# Architectural Metals

*The historic preservation movement has had a huge influence on America's built landscape for the past thirty years. Discover the cornerstone primer on the topic -- Keeping Time. This edition features a wealth of new material, including new chapters on preservation values in oral-based cultures, international preservation, and future developments in the field. In addition, you'll find a clear, concise survey of preservation movement's history, complete with: Helpful coverage of the theory and practice driving the movement. Expanded material on landscape preservation. New information on scientific conservation, cultural corridors, and historic tourism. Numerous informative photographs*

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*illustrating the book's content. Order your copy of this fundamental volume for tomorrow's historic preservationists today.*

*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*

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*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*

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*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.*

*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*

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*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*

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*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.*

*The leading resource for architects, designers, and artists working with zinc Zinc Surfaces: A Guide to Alloys, Finishes, Fabrication and Maintenance in Architecture and Art combines the latest guidance and information about zinc surfaces into a single and comprehensive resource for architects and artists everywhere. The*

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*fifth book in the author's authoritative Architectural Metals Series, Zinc Surfaces offers a highly visual, full-color guide to ensure architects and design professionals have the information they need to properly maintain and fabricate zinc surfaces. Numerous case studies illuminate and highlight the theoretical principles contained within. Full of concrete strategies and practical advice, Zinc Surfaces provides readers with complete information on topics including: The use of zinc in architecture The history of zinc's use in design How to choose the right alloy for your purposes Surface and chemical finishes Corrosion resistance of various alloys This book is perfect for architecture professionals, metal fabricators and developers, architecture students and instructors, and designers and artists working with metals.*

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*Skyline*

*A Guide to Selection, Specification, and Performance*

*20th Century Exterior Architectural Metals*

*Keeping Time*

*Metals in America's Historic Buildings*

*The History and Theory of Preservation in America*

*Metal Finishes Manual*

*Architectural Metals*

*Code of Standard Practice for the Architectural Metal Industry*

*(including Miscellaneous Iron).*

*Architectural Metals and Supplies*

***Promotes an awareness of metals in America's buildings and monuments, and makes recommendations for the preservation and repair of such metals. Intended for***

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*owners, architects, and building managers who are responsible for the preservation and maintenance of America's architectural heritage. When metal building components need rehabilitation or maintenance, info. on proper preservation techniques for each metal and its alloys has not been available. This sourcebook on historic architectural metals is a reference on metals used in architecture; how they are used, how to identify them, and when to replace them. Photos*

**ZINC SURFACES THE LEADING RESOURCE FOR ARCHITECTS, DESIGNERS, AND ARTISTS WORKING WITH ZINC**

*Zinc Surfaces: A Guide to Alloys, Finishes, Fabrication and Maintenance in Architecture and Art combines the latest guidance and information about zinc*

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*surfaces into a single and comprehensive resource for architects and artists everywhere. The fifth book in the author's authoritative Architectural Metals Series, Zinc Surfaces offers a highly visual, full-color guide to ensure architects and design professionals have the information they need to properly maintain and fabricate zinc surfaces. Numerous case studies illuminate and highlight the theoretical principles contained within. Full of concrete strategies and practical advice, Zinc Surfaces provides readers with complete information on topics including: The use of zinc in architecture The history of zinc's use in design How to choose the right alloy for your purposes Surface and chemical finishes Corrosion resistance of various alloys This book is perfect for*

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*architecture professionals, metal fabricators and developers, architecture students and instructors, and designers and artists working with metals.*

*This box of 35 actual metal samples compliments Zahner's book, Architectural Metals. These samples permit designers and other building professionals to evaluate surfaces and colors. The pack includes such metals as Blackened Copper, Green Stainless Steel, Pickled Finish Titanium, Color Anodized Aluminum and Pre-Weathered Zinc. This practical box can be used for client presentations as well as storage.*

*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*

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*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*

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*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*

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*framework for the selection and application of steel in all aspects of architecture.*

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this book offers extensive visuals backed by expert discussion to prepare students for work in a modern professional practice. This new 12th edition has been significantly updated to provide the latest information on important architectural developments and movements, with detailed coverage of sustainability, economy, technology, and more alongside current building standards and best practices. The companion website features sample curricula, student exercises, and classroom projects to aid the

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understanding of developing designers, and links to additional resources include professional associations, manufacturers' websites, and architectural articles to help students stay up-to-date as the field continues to evolve. Architectural Graphic Standards is the gold-standard reference for practicing architects, engineers, and builders; this Student Edition introduces key elements in a way that's relevant to the budding designer, along with ancillary materials that facilitate internalization. Delve into the design and documentation

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process for building materials and elements, as used in today's real-world practice Discover the latest advances in sustainability, digital fabrication, building information modeling, and more Learn the building standards and best practices for a wide variety of architectural details Examine thousands of illustrations, richly detailed graphics, PowerPoint slides, and links to additional resources Simply "knowing" graphic and documentation standards is not enough; future architects and engineers must

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develop an instinctual understanding and reflexive use of much of this material. Architectural Graphic Standards, Student Edition provides the depth and breadth of coverage they need, and the expert guidance that will help them succeed. The third book in the series from Columbia University is focused on metals. Metals, as surface or structure as the generators of space play a role in nearly every strain of modernization in architecture. They define complete geographies of work, production, and political life. Non-

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architectural metals delivered in automobiles, and hard goods in the United States and worldwide have all been sourced as the engines of the sprawling late twentieth-century city in all of its forms. But in the received aspects of architectural history, metals, and in particular steel, remain less diluted; they are presented as intrinsic to the profession as material precedes concepts they are carriers of architectural meaning. Few concepts are as central in structural engineering as the ability of a

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material to sustain plastic deformation under tensile stress the standardization of historically known deformation limits or ductile properties in most materials allows architects and engineers to keep the analysis of structure within known parameters of finite element analysis rather than materials science. If the goal is avoid fracture, the boundaries are set and the limits of ductility are observed. Post-Ductility refers to the literal aspects of material behavior in this case of metals but also of aspects of

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architectural and urban space that are measured by less verifiable but nonetheless real quotients of stress and strain. It is the tension and compression of space that gives form or coherence to form. In either the case of engineering and architecture, formerly daunting degrees of risk seem to have been diminished; new levels of sophistication in calculation lower the risk tolerance for fracture, while more metaphoric readings of limits in architectural and urban space seem to have been long

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surpassed, at times with abandon. The counter-effort has been quite strong if not successful: there are those that want to recreate dense cities by means of compression and there are immense forces of spatial extension by way of economics, communication and transit. Space is pulled to elastic limits and made thin as highly malleable materials such as gold or lead as it is also often re-compressed as forms of urban density. If metals are a significant origin for architecture and indeed whole cities—from buildings to

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automobiles and labor, then what are the limits or equations that offer a new evaluation of both metals, but also of material in a wider sense, as a determining component of the built world? What does an engineer and architect bring to this arena in both local and global circumstances?

Provides general design and technical recommendations to help property owners, developers, and Federal managers rehabilitate historic properties.

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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-

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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

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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

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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.

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Destined to become a standard in the field, *Architectural Metals* is an indispensable tool for architects, designers, and artisans who work with metals. "Metals are 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

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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

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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

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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

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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.

Provides guidance to historic building owners and building managers, preservation consultants, architects,

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contractors, and project reviewers prior to treatment of historic buildings.

The Ornamental & Architectural Metal Products World Summary Paperback Edition provides 7 years of Historic & Current data on the market in about 100 countries.

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8. Overhead & sliding commercial & institutional aluminum doors (excl shower doors, tub enclosures & storm doors) 9. Commercial, institutional & industrial aluminum doors (excl shower doors, tub enclosures & storm doors) 10. Overhead industrial aluminum doors 11. Sliding industrial aluminum doors 12. All other industrial aluminum doors 13. Swinging commercial & institutional aluminum doors (excl shower doors, tub enclosures & storm doors) 14. All other commercial & institutional aluminum doors (excl shower doors, tub enclosures & storm doors) 15. Industrial iron & steel doors 16. Overhead industrial iron & steel doors 17.

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Architectural Metal Surfaces demonstrates techniques for achieving a variety of surface

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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

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