

STEEL CONSTRUCTION



MANUAL

AMERICAN INSTITUTE
OF
STEEL CONSTRUCTION
INC.

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FOREWORD

The American Institute of Steel Construction, founded 1921, is the non-profit technical specifying and trade organization for the fabricated structural steel industry in the United States. Executive and engineering headquarters of AISC are maintained in Chicago.

The Institute is supported by four classes of membership: Active Members engaged in the fabrication, production, and sale of structural steel; Associate Members, who include Engineers, Detailers, Industry-Related Consultants, Software Developers, and Steel Product Manufacturers; Professional Members, who are individuals or firms engaged in the practice of architecture or engineering, including architectural and engineering educators; and Affiliate Members, who include General Contractors, Building Inspectors, and Code Officials. The continuing financial support and active participation of Members in the engineering, research and development activities of the Institute make possible the publishing of this *Steel Construction Manual*.

The Institute's objective is to make structural steel the material of choice, by being the leader in structural-steel-related technical and market-building activities, including: specification and code development, research, education, technical assistance, quality certification, standardization, and market development. AISC has a long tradition of service to the steel construction industry providing timely and reliable information.

To accomplish these objectives, the Institute publishes research, design guides, and specifications. Best known and most widely used is the *Steel Construction Manual*, which holds a highly respected position in engineering libraries. Outstanding among AISC standards are the *Specification for Structural Steel Buildings* and the *Code of Standard Practice for Steel Buildings and Bridges*.

The Institute also publishes technical information and timely articles in its *Engineering Journal*, *Design Guide* series, *Modern Steel Construction* magazine, and other design aids, research reports, and journal articles. Almost all of the information AISC publishes is available for download from the AISC web site at www.aisc.org.

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components in accordance with the provisions of the AISC Load and Resistance Factor Design LRFD Specification and the LRFD Manual of Steel Construction Without requiring students to have a knowledge of stability theory or statically indeterminate structures the book maintains a balance of background material with applications **Steel Construction Manual, 16th Ed** American Institute of Steel Construction, 2023-07 Load & Resistance Factor Design , 1998

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