

steelwise

## INTRODUCING THE AISC MANUAL RESOURCE PAGE

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The third of a three-part series introducing the new companion materials—all available free online—that have been prepared to complement the 14th Edition AISC *Steel Construction Manual*.

14<sup>th</sup>  
Ed. +

**FROM THE VERY FIRST** AISC *Specification* to the 14th Edition AISC *Steel Construction Manual*, AISC has always

made information dissemination a top priority. In this third in a series of three SteelWise articles highlighting companion materials for the 14th edition *Manual*, we have one more feature to highlight: something we've called an "interactive reference list."

As always, each part of the *Manual* includes a section that lists references that provide background information. In the printed *Manual*, the reference section generally can be found after the text but before the design tables. The exceptions are Part 5, which doesn't have any references, and Part 10, where the references are at the end because text and tables intermingle.

If you have a library like ours, you can find these references with a little digging. But since most people don't have all the references, and to make them easier to find even if you do, we've compiled them online at [www.aisc.org/manual14](http://www.aisc.org/manual14) and also made them accessible through AISC's ePubs page, [www.aisc.org/epubs](http://www.aisc.org/epubs).

If the reference is an item published by AISC, it's hyperlinked to the corresponding document in AISC's ePubs and freePubs collection. Be logged in when you click the link and it will open automatically. References not owned by AISC are linked to the document, where possible, or to an appropriate website where you can obtain the reference.

But we haven't stopped there! We've also revamped and expanded our entire collection of online steel design references to make it easier to see the breadth of the collection and quicker to browse to collections of interest. Here are a few highlights of the redesigned ePubs and freePubs collection, located at [www.aisc.org/epubs](http://www.aisc.org/epubs).

**Specifications, Codes and Standards:** To keep things simple, we've assembled all of our current codes and standards on one page. It's the first link in our ePubs collection and also can be accessed directly with the shortcut [www.aisc.org/specifications](http://www.aisc.org/specifications). As always, the most current AISC standards are available as free downloads to everyone.

**Steel Construction Manual Resources:** This is our collection of resources specifically developed to support the 14th edition *Steel Construction Manual*. This collection includes the AISC Shapes Database (section properties for current and

historical rolled shapes) and the AISC Design Examples (a collection of more than 150 examples illustrating how to use the AISC *Specification* and *Steel Construction Manual* and steel design in general). These also are free downloads for everyone. The direct link to this collection is [www.aisc.org/manual14](http://www.aisc.org/manual14).

**Seismic Resources:** This page gathers all of AISC's seismic design references in one place. You can find the *Seismic Provisions* (ANSI/AISC 341), the prequalified connections standard for steel moment frames (ANSI/AISC 358) and seismic connection design guides. All current AISC specifications and standards are free downloads and all of AISC's design guides are free downloads to members. If you're relatively new to seismic design or just want to brush up on basic principles, check out the free reference called *Facts for Steel Buildings 3: Earthquakes and Seismic Design*.

**Steel Design Guides:** AISC's steel design guide series was created to provide more detailed design information that we could never fit into the *Steel Construction Manual* even if we tried. Several of the design guides have been updated with second editions, so browse through this section to make sure you've read the latest. Design guides are free PDF downloads for AISC members.

**Engineering Journal:** Every paper published in the AISC *Engineering Journal* is available online, and PDF access is free for AISC members. You can find *EJ* via the general ePubs link or surf directly there with the shortcut [www.aisc.org/ej](http://www.aisc.org/ej).

**Special Topics:** Are you interested in fire-related issues and structural steel? Blast and progressive collapse? Fatigue? We have documents that address all of these topics and more,

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and nearly all of them are free PDF downloads for everyone, including our popular *Facts for Steel Buildings* series. Additionally, this is the place to find design information on industrial facilities and non-building structures (pipe racks, cranes and the like). Some of the references in this category are free to all, some are free to AISC members and others are third-party publications.

**Revisions and Errata:** Over the course of time, standards, specifications and codes change, and also, despite the best efforts of our committees and staff, errors are discovered in publications. The changes we make over the life of our publications are reflected in the documents posted here. You can stay up-to-date by checking here periodically.

**Conference Proceedings:** We have reorganized and expanded our collection of steel-related conference proceedings. Now, in one place, you can find:


- *NASCC: The Steel Conference* and its predecessors are online, along with audio-visual presentations of NASCC sessions since 2008. Watching the presentations is free to everyone. Popular papers from past conferences are free online to AISC members.
- *Connections in Steel Structures: Behavior, Strength and Design* is an international conference held every four to five years. Proceedings from Connections I through Connections VI are available free online to AISC members.
- The *SSRC Annual Technical Session* proceedings from 1976 to the present are available free online to AISC members by special arrangement with the Structural Stability Research Council.

**Historical Standards:** We recently completed a project involving the scanning of hundreds of pages of archival AISC materials and posting them online in our ePubs collection.

Members now have access to an extensive library of AISC standards dating back to the Institute's inception in 1921. You'll find every AISC *Specification* (that's a lineage that dates back to 1923), the AISC *Code of Standard Practice for Steel Buildings and Bridges* (since 1924), a collection of AISC seismic standards and much more. We also provide all of the Research Council on Structural Connections (RCSC) standards (since 1951) by special agreement with RCSC.

**Out-of-Print Publications:** When working with older project documents, it's not uncommon to run across cryptic references to publications such as "AISC T103" or "AISC M003." What's the story? Well, back in the day of printed catalogs and mail-order publications, some specification writers would reference AISC documents using their inventory control number, a practice we never intended. Now, with the out-of-print publication list, you can match commonly cited numbers with documents. In many cases the publications have modern equivalents or replacements, and in some cases we've scanned and posted the originals.

## Conclusion

We hope you've found this overview helpful and that you're well on your way to learning a few new steel design tips and tricks. There's a wealth of information available to you at [www.aisc.org/epubs](http://www.aisc.org/epubs). As you browse, remember that you'll have to be logged in to access members-only content (items with this icon ). If you're not an AISC member, learn more about AISC membership at [www.aisc.org/membership](http://www.aisc.org/membership). Happy browsing!

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*The first article in this series, on the AISC Shapes Database V14.0, appeared in the February 2012 MSC; the second, "Introducing the V14.0 AISC Design Examples" appeared in the March 2012 MSC. Both are available online at [www.modernsteel.com/backissues](http://www.modernsteel.com/backissues).*

## Random Reading

Every now and then we discover a previously unknown (or forgotten) collection of steel-related documents from the past. Three collections are available at [www.aisc.org/epubs](http://www.aisc.org/epubs) in the "Ideas + Answers" section under "Project Solutions."

Two of the collections are project case studies created by U.S. Steel and Bethlehem Steel in the 1960s, 70s and 80s. You may or may not recognize the projects, but they do a great job demonstrating the versatility of structural steel in everyday structures. Plus, the next time you're in Bloomington, Minn., near I-494 and the airport, you can amaze your friends by telling them that the Crowne Plaza was originally a Holiday Inn and it's framed with staggered trusses!

The third collection consists of brochures produced for Prize Bridge Award winners since the 1920s. Many of these bridges are still in use today.