



Thermal Insulation Association of Canada

The Voice of The Mechanical Insulation Industry

Association Canadienne de l'Isolation Thermique

La voix de l'industrie de l'isolation mécanique

FOR IMMEDIATE RELEASE

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***North American Commercial and Industrial Insulation Standards* manual now available in Canada**

The Thermal Insulation Association of Canada (TIAC), Canada's national association overseeing quality and standards for mechanical insulation, has partnered with the Midwest Insulation Contractors' Association (MICA) to bring a national standards manual to Canada.

North American Commercial and Industrial Insulation Standards (NACIIS) Manual—Canada's only standards manual for mechanical insulation—is now available for purchase.

In late 2021, TIAC finalized an agreement with the Midwest Insulation Contractors Association (MICA) to endorse the 9th edition of that organization's manual—renamed the *North American Commercial and Industrial Insulation Standards* (NACIIS) manual.

The NACIIS manual contains updated information related to the design, specification, and installation of thermal insulation on piping, fittings, ductwork, equipment, and vessels found within commercial heating/ventilating/cooling and plumbing systems.

Industrial power and process systems information on firestopping systems is also included, and refrigeration and cryogenic systems have been added.

“Possibly the most used sections of the manual are the installation detail drawings, referred to as plates, and the Appendix Tables, which are some of the most needed and sought-after points of data when considering a mechanical insulation system,” says Luis Garcia, Chair of TIAC's Innovators Group, which was instrumental in formalizing the agreement.

“The detail plates are intentionally shown without specifics of dimensions or kinds of materials so that users can include this information relative to their particular desires for the specific project, without predetermined information unduly influencing details or causing unsatisfactory results,” says Garcia. “Leaving these details to the discretion and needs of the user ensures that the specifics will be relevant to the situation at hand.”

This open format also has the benefit of accommodating new materials in the market, for any function—insulation, fastening/attachment, sealing, or finishing. An installation practice detailed in a plate can apply, without the need to develop completely new details specifically for the given material, if the producer is accepting of the plate details. Some material producers specifically refer to the standards as acceptable installation practice details.

Additional Highlights:

This publication represents a continued program of standards revisions and specialized editions, serving the insulation industry and its customers as:

- a means of clearer communication between owners, engineers, contractors, and inspectors on projects regarding the intended practices and materials to be used

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- an updated source of technical information concerning commercial and industrial insulation products and practices.
 - a means by which installation practices that are commonly accepted throughout the industry can be understood and followed.

The book is divided into the following sections:

Introduction, Insulation Materials and Properties, Insulation System Design, Specification Writing, Project Coordination, Maintenance, Insulation Thickness Programs, General Application Methods/Illustrations, Specialized Applications Methods/Illustrations, Flashing, Cryogenic Systems, Glossary, and Appendix Tables.

Installation detail plates included:

Piping, Fittings, Valves, Flanges, Mechanical Couplings, Ducts, Plenums, Housings, Vessels, Tanks and Equipment, a Power section including breechings and boiler walls, and Specialized Applications to include Noise, Refrigeration, Removable and Reusable Insulation Blankets or Pads, and Cryogenic.

The manual is published as a service to contractors, engineers, designers, owners, and the mechanical insulation industry in general. This resource has grown to be recognized as the authoritative source for specifying and communicating installation details for mechanical insulation systems across the United States and Canada.

Most of the content is applicable and relevant to both Canadian and American markets, but there is still work to be done.

“We are working on developing a cross-reference document for Canadian users of NACIIS for those instances where practices differ,” Garcia says. “We will be reaching out to members of TIAC to rely on their expertise and experience to help the Innovators group to ‘Canadianize’ the manual.”

“Our industry in Canada now has a fully functional and up-to-date standard that they can refer to when they work on complex projects, or if they simply need a refresher on practices around insulation,” says TIAC President Joey Fabing. “As well, our industry in Canada now has access to combined expertise—this combined initiative elevates the North American industry as a whole and keeps us all up to date on industry standards.”

The NACIIS Manual is currently only available in English. The next phase of TIAC’s agreement with MICA is to have the manual translated to French for use across Canada.

To learn more or to purchase a copy of the NACIIS manual, please email info@tiac.ca.

The Thermal Insulation Association of Canada is the national industry association for contractors, distributors and manufacturers of commercial, industrial and institutional thermal insulation, asbestos abatement and firestop. It oversees the quality and standards for mechanical insulation application, distribution, and manufacture. Its headquarters are based in Ottawa, Ontario with provincial branches in six regions of Canada. To learn more, visit tiac.ca