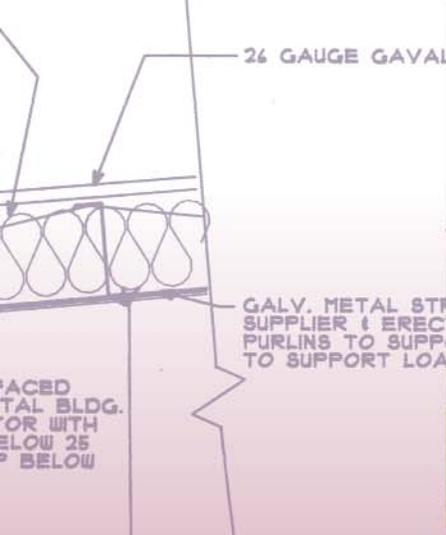


NIA

National Insulation
— Association —

www.insulation.org



NIA CERTIFIED FACED
INSULATION®

NIA CERTIFIED FACED INSULATION®

CONDENSATION CONTROL • THERMAL CONTROL • NOISE CONTROL

- 2x2 ACOUSTICAL CEILING BY CEILING SUPPLIER
- PROVIDE STUDS & GYP. BD. AROUND FRAMES BEYOND TO ABOVE CEILING LEVEL
- X-BRACING IN THE EAST (WEST BAYS ONLY) BRACING IMMEDIATELY ON THE INSIDE OF FRAME PLATE
- AT X-BRACED BAYS PROVIDE AN EXTRA 3/4x2x2 STUD WALL TO COVER THE BRACING, GYP. BD.

Fiber Glass
Metal
Building
Insulation

We Always Measure Up!



www.insulatemetalbuildings.org



Today, metal buildings dominate the one- and two-story construction market. New trends in architectural design require materials that are engineered to keep pace with ever-changing design concepts.

One such material is Certified Faced Insulation (NIA-404). Specifically designed to meet the unique thermal and acoustical requirements of today's metal buildings, certified fiber glass metal building insulation is designed to meet 100% of the stated R-value after lamination.

When properly installed, insulation can return more on an investment than any other building material.

ASHRAE Standard 90.1

ASHRAE Standard 90.1 is the national energy standard for all nonresidential buildings that have heating and cooling systems.

The standard sets minimum requirements for the energy-efficient design of new buildings in ways that minimize the use of energy. Requirements cover lighting and mechanical systems as well as the building envelope.

The term "building envelope" refers to the walls, roofs and floors that "envelope" or enclose heated or cooled spaces. Interior partitions are not part of the building envelope, but exterior walls and roofs are.

The building envelope requirements of ASHRAE Standard 90.1 address heat conduction by specifying minimum R-values (thermal resistance to heat flow or insulation) or maximum U-values (the rate of steady-state heat flow) for building envelope construction assemblies.

One of the most cost-effective ways to ensure that metal buildings meet the minimum U-value requirements of ASHRAE Standard 90.1 is to install Certified Faced Insulation in the building envelope.

An Important Step in Code Compliance

Specifying a certified product with an assured R-value helps builders achieve the stated performance level of any installed insulation system. The addition of a certified, faced insulation package to the overall design of a metal building is an effective way to ensure that metal buildings meet the minimum U-value requirements of the ASHRAE Standard 90.1.

Meets Cost Control Needs of Building Owners

Certified Faced Insulation helps today's building owners control costs. Because insulation helps control the rate of heat transfer through a building, energy consumption is reduced and the result is lower fuel bills. When properly installed, insulation can return more on an investment than any other building material.

Benefits of Certified Faced Insulation™

- **Thermal Control** — Certified Faced Insulation acts as a barrier to slow down the movement of heat, keeping it inside the building in winter and outside in summer.
- **Condensation Prevention** — Certified Faced Insulation limits the passage of water vapor and prevents it from condensing within the insulation or on the cold building wall.
- **Noise Control** — Certified Faced Insulation reduces the level of both exterior and interior noise by preventing transmission of exterior sounds to the interior of the building, and absorbing reverberating sounds within the building.
- **Attractive Appearance** — The laminated facings on Certified Faced Insulation provide a bright, attractive, wall and ceiling treatment that acts as a reflector to increase light efficiency. Engineered to withstand the rigors of installation, facings are fire retardant, and have good tensile strength, and puncture resistance.

Certification Requires Using NAIMA 202-96® (Rev. 2000) Insulation

Certification requires using NAIMA 202-96® (Rev. 2000), or approved equal, unfaced metal building insulation. NAIMA 202-96® (Rev. 2000) insulation is an “over-engineered” fiber glass blanket and is the only insulation that can be used to make the certified faced product. Using NAIMA 202-96® (Rev. 2000) insulation alone does not assure thermal recovery. It must be laminated and certified to the Certified Faced Insulation Standard in order for its performance and integrity to remain intact.

It is the combination of the two standards that assists laminators in producing a more consistent product with reliable thermal resistance (R-value).

Certification Requires Third Party Testing

For insulation to be certified to the Faced Insulation Standard, laminators are required to participate in third party testing by a nationally recognized independent laboratory such as the National Association of Home Builders (NAHB). This testing ensures out-of-the-package performance of faced metal building insulation, thus providing assurance that the product delivers the specified insulation R-value.



“It’s important that we offer the absolute best products and services to our customers. Certified Faced Insulation optimizes the insulation performance for the life of the building”

John E. Myers, VP Sales
LBM Construction, Inc.

Two Insulation Standards Assure Consistency

Certified Faced Insulation Standard (NIA-404)

▶ The Certified Faced Insulation Standard is a post-lamination certification for flexible faced fiber glass insulation used in metal buildings. It was developed by the National Insulation Association (NIA) to assure builders and building owners that the fiber glass insulation specifically engineered for metal buildings meets 100% of the stated R-value after the lamination process.

The Standard was developed because the lamination process of applying adhesives and a facing to the fiber glass insulation can greatly affect the thickness recovery of the insulation and subsequently its effectiveness.

The Standard addresses quality issues such as adhesive rates, compression ratios, packaging, handling, storage, moisture and other things that can impact the thermal performance of the insulation.

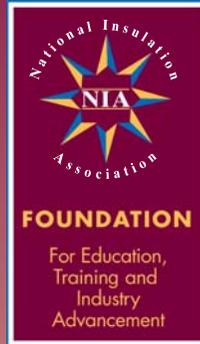
The NAIMA 202-96® (Rev. 2000) Standard

▶ The standard was developed by the North American Insulation Manufacturers Association (NAIMA). It is a product performance standard designed to help builders meet today’s energy codes.

To make sure that NAIMA 202-96® (Rev. 2000) insulation products have the R-value stated after lamination, the manufacturers produce the unfaced insulation to an average of 108% of the R-value stated on the pre-lamination label. The R-value and NAIMA 202-96® (Rev. 2000) are printed right on the insulation providing assurance that the insulation is manufactured specifically for metal buildings.

The NAHB label appears on every package of Certified Faced Insulation. It is your assurance that the R-value you specify is at the jobsite.

To obtain a list of current certified laminators, go to www.nahbrc.org click on the box labeled "NAHB Research Center-Certified". Next, click the link identified as "Lab/Certification Services" then click on "Thermal Insulation" and go to "Mineral Fiber Flexible Faced Metal Building Insulation".



“Orlando Annulli & Sons Inc. strives to be a leader in its market-place. With the majority of our work being in a Northern climate, I need the assurance and confidence that my customer is getting a true "R" value in his insulation product. With Certified Faced Insulation I have that confidence.”

Ernie Babineau,
Manager, Pre-Engineered Building
Division
Orlando Annulli & Sons Inc.

About The National Insulation Association

The National Insulation Association (NIA) is a not-for-profit trade association representing the contractors, distributors, laminators, fabricators and manufacturers who provide thermal insulation, insulation accessories and components to the commercial, mechanical and industrial markets throughout the nation.

Since 1953, members of NIA have utilized the most advanced insulation technologies to significantly improve the performance of industrial processes; to increase the interior comfort of buildings; to help control energy wastes; to help protect workers in hazardous work environments; and to help their customers save billions of dollars in energy while reducing greenhouse gasses.

The insulation products and services provided by NIA members constitute the most cost-effective, energy-saving technology available for reducing CO₂, NO_x and carbon equivalent (CE) emissions, the major cause of global warming.

NIA is the voice of the insulation industry and is dedicated to keeping the commercial and industrial industry up to date on the latest industry trends and technologies.



▶ For additional information on NIA Certified Faced Insulation® for Metal Buildings tap into —

www.insulatemetalbuildings.org

e-mail: niainfo@insulation.org
website: www.insulatemetalbuildings.org