



Facilities Engineering for Retail Applications

When customer experience is your business, Erdman Anthony is your facilities design specialist.

FOOD-MARKET RETAIL | DISTRIBUTION CENTERS | BIG-BOX STAND-ALONE | URBAN HIGH-RISE DEVELOPMENT

Experience counts: Erdman Anthony has helped our clients successfully complete thousands of retail projects, including new facilities and remodels of all sizes and complexity.



You've come to the right place. Our dedicated team of engineers has designed diverse store areas, including frozen foods, pharmacies, bakeries, delis, wine shops, culinary-teaching kitchens, and prepared foods. Your engineering needs are our specialty:

- Energy modeling and sustainable concepts applied in all our designs.
- Laser scanning, infrared technology, and building information modeling (BIM) are standard tools.
- Your merchandising concepts, operational needs, and maintenance standards complemented by our designs.



Source: Handbook of Energy Audits, 9th Ed.

Refrigeration accounts for nearly half of a supermarket's annual electricity costs.

Commission a refrigeration solution appropriate for you.

Premanufactured, packaged refrigeration systems can mystify your engineering team. Erdman Anthony's experienced refrigeration engineers are proficient in refrigeration-system commissioning, with expertise in design, analysis, and modeling, for custom solutions in:

- Direct expansion systems
- Heat recovery systems
- Secondary coolant systems
- Ammonia systems
- Air- and water-cooled condensers
- Water-side economizers
- CO₂-coolant systems, secondary and transcritical





Commissioning for New and Existing Buildings

Enhance energy savings and efficiency, lower life-cycle costs, improve your operations and maintenance efforts, and improve occupant comfort.

As your advocate, Erdman Anthony can provide you and your team with advantages at every stage of your project.

Plus, Commissioning Services from Erdman Anthony's SustainabiLITEAM™ provide a quality-assurance process that can help keep critical systems in your building operating as you intended.

New Buildings

Commission your new store or distribution center for optimal productivity, with energy-consuming systems verified to perform as efficiently as possible.

- LEED®/Green Globes certifications
- Third-party design and submittal reviews as owner's advocate
- Verification that installation and operations meet owner's requirements
- Documented site observations tracking non-compliance issues
- System testing and trend analysis verifying operation
- Third-party operation and maintenance manual and training reviews as owner's advocate

Existing Buildings

Whether through changes in how your facility is used, problematic control settings, or from minor component failures, your building's performance can degrade over time. Evaluate your current operations and bring your systems back into optimum performance with Erdman Anthony's tools and experience.

- Systematic process to ensure that building systems meet current needs
- Energy analysis and optimization
- Environmental emissions and water-use reductions
- Improved indoor environmental quality (air, noise, temperature)
- Assistance in obtaining financial incentives and tax benefits
- System documentation and training

Energy Consulting

Energy consumption is a cost you can control—and we have the experience to help you do exactly that. Erdman Anthony's energy-consulting services apply a meticulous, regimented process that involves an objective evaluation of your current energy usage, approaches to reducing it, estimates on how much it will cost to implement these strategies, and an evaluation of what your operating costs will look like over time.

- Energy audits and capital-improvement studies
- Alternative energy sources
- Sustainable design
- Third-party design review and analysis
- LEED®/Green Globes certification consulting
- Assistance in obtaining financial incentives and tax benefits

Mechanical, Electrical and Plumbing (MEP) Engineering

Your building is made up of complex systems—and they all need to be designed to work together effectively and efficiently.

Achieve that critical synergy with Erdman Anthony's mechanical, electrical and plumbing (MEP) design services. We will help you through the design and implementation of these systems and controls that promote efficiency, safety, health, and comfort:

- Heating, ventilation, and air-conditioning units, systems, and controls
- Electrical power and distribution
- Process piping and plumbing systems, including storm, sanitary, grease, and natural gas
- Building-control systems
- Fire protection and life safety
- Refrigeration and refrigeration controls
- Laser scanning for building-system documentation





When you're shopping for proven retail-facilities design experience, check out Erdman Anthony.

Since 1954, we've been dedicated to developing superior infrastructure solutions by partnering with our clients—studying their unique situations and listening carefully to their needs.

Our clients trust us with new stores and remodels of food-market retail, distribution centers, big-box stand-alone, and urban high-rise development.



SustainabiliTEAM™, Erdman Anthony's approach to sustainable design and building operation, combines the efforts of our engineers, energy analysts, and commissioning professionals. In addition to retail-facilities design, Erdman Anthony is a full-service engineering firm that offers:

- Refrigeration Engineering
- Energy Consulting
- Commissioning (New and Existing Buildings)
- Mechanical, Electrical and Plumbing (MEP) Engineering

Accreditations



To learn more about our experience in retail-facilities design, visit:

www.erdmananthony.com/retail.

For more information, contact:
Tim Robinson, P.E.
Retail Department Manager
at (585) 427-8888, ext. 1050
RobinsonT@erdmananthony.com

Corporate Headquarters:
145 Culver Road, Suite 200 • Rochester, NY 14620
(585) 427-8888



NY: ALBANY | BUFFALO | ROCHESTER
PA: HARRISBURG | PITTSBURGH
FL: WEST PALM BEACH **ME:** PORTLAND