

# 2021 GCCA Cold Chain Innovation Showcase & Buyers Guide



**WINNER**

Read about it  
on page 10



# Conquer your cold chain complexity with Körber!



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*GCCA Cold Chain Innovation Showcase & Buyers Guide* is published once a year by the **Global Cold Chain Alliance (GCCA)**, an organization that unites partners to be innovative leaders in the temperature-controlled products industry. The GCCA Core Partners are:

The **International Association of Refrigerated Warehouses (IARW)**, which promotes excellence in the global temperature-controlled warehouse and logistics industry.

The **World Food Logistics Organization (WFLO)**, which delivers education and research to the industry and empowers economic development by strengthening the global cold chain.

The **International Refrigerated Transportation Association (IRTA)**, which cultivates, fosters and develops commercial and trade relations between all those engaged in the transportation and logistics of temperature-controlled commodities.

The **Controlled Environment Building Association (CEBA)** represents the design and construction industry specializing in temperature-controlled facilities that prioritize product safety best practices. We are the source for best practices of building and maintaining the thermal envelope.

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Design by SWALLIS Design, San Francisco, California, USA.

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**About the Cover:** *Americold chose Primus Builders, Inc. to construct a new 312,000-square-foot cold storage distribution facility in Savannah, Georgia, United States. It was the recipient of the 2020 CEBA Built by the Best Award. (Photo courtesy of Primus Builders.)*

# WELCOME

A MESSAGE FROM MATTHEW OTT

THREE YEARS AGO, THE CONTROLLED ENVIRONMENT BUILDING ASSOCIATION (CEBA), ONE OF THE CORE PARTNERS OF THE GLOBAL COLD CHAIN ALLIANCE, ADOPTED A NEW NAME AND MISSION THAT REFLECTED THE EVOLUTION AND DIVERSIFICATION OF THE SECTOR. CEBA is where anyone looking to build, renovate or modernize a first-rate, innovative temperature-controlled facility would come to find the most experienced designers, contractors, manufacturers and suppliers. CEBA represents the expert builders who specialize in the design and construction of controlled environment buildings, including cold storage warehouses, food processing facilities, clean rooms, pharmaceutical facilities, and foodservice and retail distribution centers.

In the same year, the first Controlled Design and Construction Showcase was launched with a four-page listing of companies. This year's showcase has evolved and grown significantly and now includes 10 pages of companies all positioned to provide the very best solutions for construction or modernization of any facility. This publication continues to highlight the most experienced designers, contractors, manufacturers and suppliers in the controlled environment building industry. You'll still find categories including design and construction services, architecture and engineering, low-charge ammonia systems, automation solutions, floors, doors, panels, insulation, racking, forklifts and more. But this year, to keep pace with industry progression, we have added automation and other cold chain technology providers.

CEBA continues to be committed to elevating the perception of the industry by communicating the need for specialization in designing and building thermal, controlled environment facilities and reinforcing how members provide that. A key program to support this goal is the "Built by the Best Award" competition, which each year recognizes excellence in building controlled environment facilities. I encourage you to read the case studies of the three 2020 Built by the Best Winners beginning on page 10, to see the exciting innovations companies are using to advance the cold chain through building design, construction, and modernization.

I hope you reference this guide throughout the year to find your next temperature-controlled building specialist. Better still, attend in person the 41st CEBA Conference & Expo -- the only event in the world dedicated to best practices in controlled environment facility construction, design and maintenance -- this November in Las Vegas, Nevada.

Hope to see you there! 🌐



MATTHEW OTT, CAE, CMP  
PRESIDENT AND CEO, GCCA



**ARE YOU USING AN ENERGY EXCELLENCE CERTIFIED WAREHOUSE AS YOUR COLD CHAIN PARTNER?**

Over 150 member facilities of the Global Cold Chain Alliance (GCCA) have made a commitment to:

- ✓ MAINTAINING A CULTURE OF ENERGY EXCELLENCE
- ✓ IMPROVING ENERGY EFFICIENCY
- ✓ ACCURATELY TRACKING ENERGY CONSUMPTION
- ✓ EXPLORING TECHNOLOGIES FOR CONTINUOUS IMPROVEMENT

Energy Excellence Certified Companies Include:



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[www.gcca.org/energyexcellence](http://www.gcca.org/energyexcellence)

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# 41<sup>ST</sup> CEBA CONFERENCE & EXPO

*Live in Las Vegas...  
the only controlled environment construction event.*

The 41st annual CEBA Conference & Expo will return in-person this year November 2-4, 2021, at the Park MGM in Las Vegas, Nevada. This much anticipated event is the only one in the world dedicated to best practices in controlled environment facility construction, design and maintenance. In a year when cold chain is hotter than ever, this event is a must attend for anyone in the controlled environment construction business.

With more than 200 controlled environment facility construction, logistics, and supply chain operations professionals attending from around the world, participants will gain valuable insight for improving their busi-

ness. Throughout the conference's three days, participants will hear presentations from industry thought leaders, have exceptional networking activities, and experience an expo with cutting-edge products and technology.

## **General Sessions**

The general sessions at the CEBA Conference & Expo provide attendees a thorough look at the latest innovations in controlled environment design and building. This year's conference will include presentations from the finalists of the CEBA Built by the Best Award as well as insights from industry experts.

One of the general sessions will be keynoted by Vince Poscente, a powerfully engaging speaker and author who helps business leaders with massive breakthroughs. Poscente knows firsthand the power that attitude, determination and innovation play in your future success — especially when life doesn't go as planned. After more than a year when nothing went according to plan, it will be beneficial to hear Poscente's perspectives.

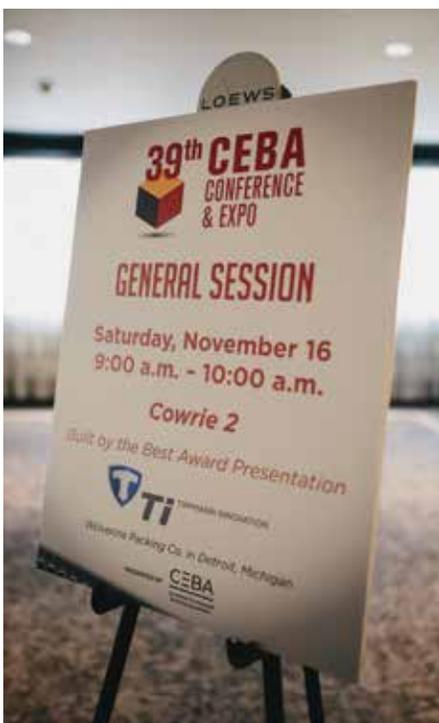
### The Expo

The Expo is an experience not to miss, and features the latest technologies, solutions, products and services from some of the most respected names in the industry. Here's just a small sampling of the products and services that will be featured at this year's expo:

- Cold Storage Contractors
- Doors
- Energy Efficiency Solutions
- Fire Detection Systems
- Flexible Walls
- Flooring
- Insulated Panels
- Insulation
- Lighting
- Materials Handling
- Racking
- Refrigeration Solutions
- Roofing

### Built by the Best Award

The Built by the Best Award acknowledges association members around the globe for their expertise and innovation in constructing, renovating and/or modernizing controlled environment buildings across the world. The top three finalists will present their projects during the general sessions and the winner will be recognized on stage at the end of the Conference.



**These 7 Built by the Best Award Finalists will all present a case study on their projects during the 41<sup>st</sup> CEBA Conference & Expo being held November 2-4 in Las Vegas.**

<b>ARCO Design/Build</b> <b>Project:</b> Cold storage and food processing facility for MTC Logistics Mobile, AL	<b>Sistemas de Refrigeracion Totales</b> <b>Project:</b> Distribution center Mexico City, Mexico
<b>ESI Group USA</b> <b>Project:</b> Greenfield food distribution facility for Performance Food Group (PFG)/Reinhart Foodservice Shawano, WI	<b>Tippmann Innovation</b> <b>Project:</b> Meat processing and distribution facility for Nor-Am Cold Storage Dodge City, KS
<b>Fisher Construction Group</b> <b>Project:</b> Fully automated warehouse for United States Cold Storage Atlanta, GA	<b>Williams Company</b> <b>Project:</b> Distribution facility renovation and expansion for Sysco Nashville, TN
<b>Primus Builders, Inc.</b> <b>Project:</b> Processing facility expansion for Case Farms Winesburg, OH	

**Sign up for the event to hear about these innovative and cutting edge facilities at**  
**[WWW.GCCA.ORG](http://WWW.GCCA.ORG)**

### Construction Cafes

The CEBA Construction Café creates an exchange of ideas and discussion on critical issues facing the industry. Participants choose from 10 different topics, join the table at which the issue is being discussed and spend 20 minutes sharing ideas. Participants then switch tables to discuss ideas. These round-table conversations provide attendees a chance to share ideas, ask questions and solve problems with their peers in a small group setting. The moderator will guide the participants through questions they have submitted in advance, diving into the subjects that matter most to attendees and the industry.

### Networking Opportunities and Events

Prominent social activities, receptions and the exhibit hall all give members and industry suppliers unparalleled access to build partnerships with construction/design-build, warehousing and food processor decision-makers. Other networking opportunities include a first timer and new member reception, an opening night reception, two afternoons set aside to catch up with peers and vendors for private business meetings, a golf tournament and an after-hours party.

This is the only event in the world dedicated to best practices in controlled environment facility construction, design and maintenance, and serves to further CEBA's vision to be the association where anyone looking to build, renovate or modernize a first-rate, innovative facility comes to find the most experienced designers, contractors, manufacturers and suppliers.

Visit [www.gcca.org/conference](http://www.gcca.org/conference) to learn more about the CEBA Conference & Expo. We can't wait to see you in Las Vegas! 📍



## CURRENT EXHIBITORS

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- Evapco Inc.
- FCL Builders
- GAF
- Global Insulated Doors Inc.
- Green Span Profiles
- Honeywell International Inc.
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- Kingspan Insulated Panels
- KPS Global
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- M&M Carnot Refrigeration Inc.
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- NORDOCK Inc.
- Protectowire FireSystems
- Quest/Therma-stor
- Republic Refrigeration, Inc.
- RHH Foam Systems Inc.
- Rytec High Performance Doors
- Seneca Holdings Systems, LLC
- The Raymond Corporation
- Tippmann Engineering (QuickFreeze)
- TrueCore
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- WAGNER Fire Safety Consulting GmbH
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- Wiginton Fire Systems

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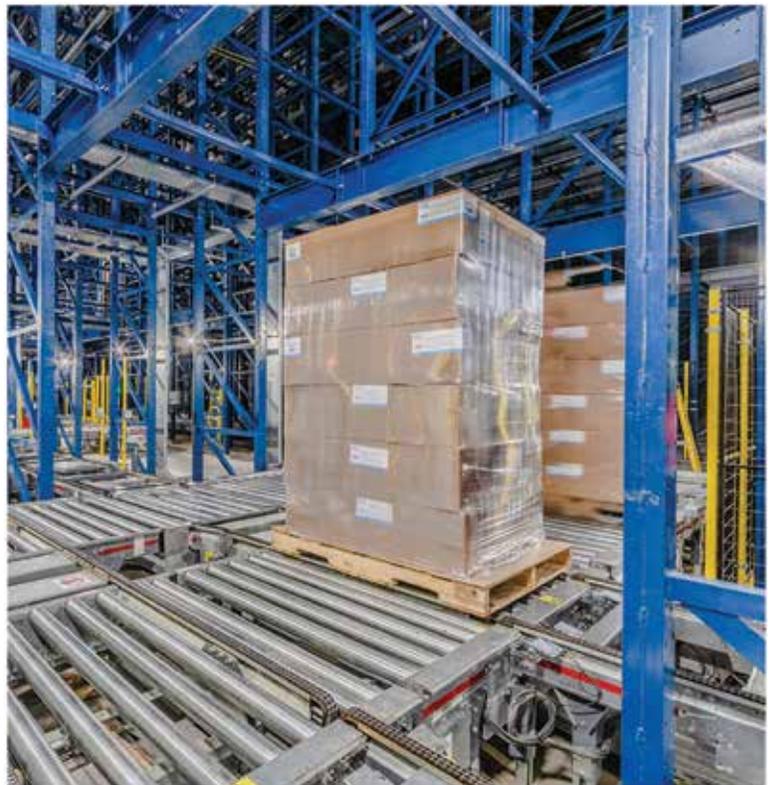
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## The Rapid Evolution of the Grocery Industry.

The grocery industry is changing. Owners recognize they must move away from a hyper-efficient "zero waste" model in favor of a more flexible supply chain that can adapt to unpredictable circumstances. There is also the transition of purchasing power from Baby Boomers to Gen Xers who value convenience over brand loyalty. Technology is part of our lives and has entered the logistics industry as a result. Automation and software solutions are being implemented to improve efficiency and safety.

Many of Primus' clients are moving toward a more agile and responsive supply chain to meet the demands of an e-commerce and home delivery focused consumer base. To capture the "next dollar spent," grocery logistics teams must evolve and think more like a technology company, embracing intralogistics and the IT infrastructure needed to solve challenges quickly – both expected and unexpected.

Think about your business for a moment. Is it adaptable to current consumer demand? How vulnerable are you to unpredictable disruptions? To thoroughly and accurately answer those questions requires an experienced, outside perspective from a partner you can trust – Primus. Our company has been evolving as well, bringing together people, process, and technology to expand our capabilities and take the benefits of our design-build-automate approach to the next level. Today, our clients are gaining a competitive edge by partnering with us well before they break ground and long after construction ends to gain maximum efficiency and productivity.



Americold chose Primus Builders to build a new 312,000-square-foot cold storage distribution facility in Savannah, Georgia, United States, to export poultry. (Photo courtesy of Primus Builders.)



# PRIMUS BUILDERS RECIPIENT OF 2020 CEBA BUILT BY THE BEST AWARD FOR EXPORT FACILITY



*Project notable for deep dive pre-planning, tight scheduling and sustainability initiatives.*

When Americold was looking to add a new 312,000-square-foot cold storage distribution facility in Savannah, Georgia, United States, to export poultry, it began a detailed search for the right company to get the job done.

Erik Gunderson, Founding Partner and Executive Vice President at Primus Builders, Inc., recalls hearing of the project when it went out for bids, and he knew this was a job he wanted to win.

“We knew we were going up against two or three other competitors on the job, and it was a project that Primus really wanted,” he says. “Americold is a great customer, and we made the decision to outthrust our competitors on the proposal side. In making our plan, we

really developed a deep dive on what it would take to build the job.”

Although there was no guarantee the company would be chosen, the Primus team worked hard to understand the jurisdictional restrictions and timelines and invested significant time and effort on the engineering side to ensure it knew what it was delivering.

“We accompanied that with a really strong compliment of design/build partners – our design build electrician, fire protection,

refrigeration – which we knew were huge components of the scope of a job like this,” Gunderson says. “So, when you have those partners going in, you know exactly what you’re building.”

Once all the bids were in, and impressed by its efforts, Americold chose Primus Builders to construct the new poultry import/export facility near the Port of Savannah.

### Overcoming Challenges

At 51-feet high, the 312,000-square-foot building was designed to offer Americold maximum flexibility in its cold storage options, which included a -20 degree QFR quick-freeze system, which freezes product faster and more efficiently.

But the project did not come without challenges.



The facility features automated conveyors, wrapping and labeling stations. (Photo courtesy of Primus Builders.)

After Americold awarded the project to Primus, they challenged the company to find ways to cut back on costs.

“Our partner, Fricks, has developed an optimized paving design, and we worked with them to be able to offer really robust exterior paving at some schedule and cost savings,” Gunderson says. “We worked with our refrigeration partner, ALTA, to economize and stretch the absolute capacity of their refrigeration system. Owner, subcontractor and contractor all had eyes wide open, recognized there was risk and were willing to give it a go – that’s what enabled us to push things to the limit that helped economize the job.”

The schedule was another big challenge.

“The urgency was that Americold wanted to be shipping the power in the first quarter of 2020. So we made decisions and sequenced the work and were able to bulletproof the construction pad and deploy stone, putting our sub slab down in the summer and avoiding slowdowns with wet soil conditions,” Gunderson says. “And we put a lot of our paving in very rapidly so we had great access to the site.”

Michael Cole, Project Manager at Primus, notes an important key to keeping things on track was the use of the Last Planner System. It is a visual, collaborative way to plan, control and produce quality, predictable workflow by eliminating waste, optimizing resources and uncovering and solving problems.

“At first, subcontractors didn’t really want to use it, but once they did, they started to realize it really helps,” he says. “It’s a collaboration between everyone on site and encourages the subcontractors to own the schedule and ultimately holds all the individual subs accountable. Without utilizing that, I don’t think we would have hit our dates as well as we did.”

The area is known for its high ground water, and the Primus team would often hit water when digging down just two to three feet. Plus, that water had nowhere to go, especially when it rained.

The solution was to lay gravel brought in from another part of the state, as there are no quarries near the site, and continuously pump water offsite. These actions made the ground stable enough for construction activities.

A more substantial problem was with permitting delays. When Primus reached out to the AHJ (authority having jurisdiction) during the design phase to discuss permitting, it learned that the facility previously built on the site was completed with a foundation-only permit and the local authorities originally agreed to the new Americold building having a foundation-only permit as well.

Cole shares that after Primus completed the grading and went to the AHJ seeking the agreed upon foundation-only permit, the AHJ changed its mind and instead required a full permit before any further construction could take place.

“This caused a delay of 19 days, but Last Planner again came to the rescue as it helped keep everyone on schedule,” Cole notes.

But then Hurricane Dorian began creeping up the coast and the Georgia governor declared a state of emergency and began evacuations, so the Primus crew was forced to leave the job for about a week.

And just when everything looked to be running smooth as the project neared its completion, the COVID-19 pandemic arrived.

“We gutted it out and we were safe,” Gunderson says. “It was all new at this point. People impacted by the virus were quarantined, but we never shut the job down and it didn’t stop us from finishing on time.”

### Sustainability Efforts

When Dustin Norton, Primus’ in-house sustainability project manager, learned of Americold’s objectives for the project, it was quickly evident that the sustainability goals for the project were strong enough for the warehouse to become LEED certified. This was something Americold had not previously achieved on any of its other buildings.

First, Norton commissioned an energy model that proved the project could reach a 26 to 29% energy savings for a total of 11 to 12 LEED points.

“Although, LEED wasn’t necessarily a given going into the project, Americold already had sustainability goals,” Norton says. “I presented them with a preliminary scorecard that I created that revealed what it would take to get LEED Certified and potentially get to the LEED Silver level.”

With any LEED project, Norton’s goal is to get to the highest certification level that he can, given the resources provided to him. He gives a lot of credit to Americold for jumping on board and trusting him to get the project there.

“The fact is, there aren’t many buildings of this type that are pursuing LEED and I believe that this project, and Americold, are leading the way by showing what’s possible for these buildings,” he says. “I also give a lot of credit to my design team, led by Michael Jones, for making the changes when I requested them and my construction project manager, Michael Cole, for being patient when it came to things like material selection.”

Energy efficiency was aided by the systems selected and the construction of the envelope (insulation values of walls and roof). Water efficiency was largely aided by the choice of an air-cooled refrigeration system and use of low-flush/flow fixtures.

“Water conservation is very important to the Port of Savannah,” Norton says. “The team was able to reduce the building’s water consumption by 45%. Additional water savings were achieved by using ALTA Expert units.”

Additionally, because the refrigeration system uses air instead of water to cool the building, it created significant water savings



The dock interior. (Photo courtesy of Primus Builders.)

as well. For comparison, a similar-sized water-cooled refrigeration system utilizes nearly 10 million gallons of water annually.

“By using an air-cooled system, we are saving essentially all of that water,” Norton says. “While LEED assigns more points to savings associated with things like irrigation savings and efficient fixtures in restrooms and break rooms (by using low and no flow fixtures) – which we also did on this project – the water savings associated with the refrigeration system choice have a much bigger impact on the way this building saves water. The ALTA Expert units are game changers.”

Plus, the overall projected energy savings for the building – the sum of a lot of energy efficient measures – are expected to be 26 to 29%.

“Obviously, the refrigeration system is the biggest energy user for the building, so the increased efficiency of that system weighs heavy on the overall savings,” Norton says. “Building envelope characteristics (walls, roof and floor) come in to play by selecting builds that increase the R values.”

Choosing to go 100% LED lighting for the building was another choice that helped those energy model numbers.

“Because the warehouse represents around 95% of the overall building’s energy use, these were the design choices that had the biggest role in the overall energy savings,” Norton says. “However, choices made about efficient HVAC systems in the office, choosing glazing with an improved U-factor and reduced solar heat gain, and improved

building controls, also played a role in getting us to those numbers.”

Norton notes it is significant the building is certified under LEED v4, and not the earlier LEED v2009, v4 is much more stringent than the earlier standard. The project incorporated some credit substitutions from LEED v4.1, which is even newer than v4.

“Because the building is a warehouse, we were able to take advantage of several compliance paths in v4 that are strictly for warehouse and distribution centers,” Norton says.

Americold was so impressed with the sustainability initiatives incorporated by Primus, it is currently working to achieve LEED Silver certification on two additional projects for which Primus is the design-builder.

#### The End Result

Primus installed a -20° QFR quick-freeze system that pulls cold air into every freezer crevice and freezes product faster and more efficiently. This allows the facility to blast freeze 2 million pounds of chicken per day.



At 51-feet high, the 312,000-square-foot building was designed to offer Americold maximum flexibility in its cold storage options. (Photo courtesy of Primus Builders.)

## THE ANNUAL CEBA CONFERENCE & EXPO

is the only event in the world dedicated to controlled environment construction, design, and maintenance.

**41<sup>st</sup> CEBA**  
CONFERENCE & EXPO  
LAS VEGAS, NEVADA  
NOVEMBER 2-4, 2021



**HEAR FROM THE  
BUILT BY THE BEST**  
finalists who are  
constructing state-of-  
the-art facilities.

**CEBA**  
Controlled Environment  
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Register now at  
[www.gcca.org/conference](http://www.gcca.org/conference)



Because of the area's high groundwater, gravel was laid and water continuously pumped offsite to stabilize the ground for construction activities. (Photo courtesy of Primus Builders.)

The finished project also includes a two-story office, a USDA inspection lab that allows inspectors to test the product for spoilage, employee welfare areas, a Quell fire protection system to ensure maximum coverage for the building height, ALTA Expert refrigeration units and automated conveyors, wrapping and labeling stations.

"There's a lot of pride in this facility from our whole Americold team as well as the Primus team," says John Long, Americold's Senior Engineering Project Manager. "Primus delivered, in the middle of a pandemic and everything."

Gunderson credits the success of the project to a willingness by the owner to allow Primus to deploy smart construction capital.

"We stoned the site, we did our exterior paving very rapidly, our fire roads were installed to provide total perimeter access to the site, we put our sub slab in before we hung our seal – it was a well-thought-out job," Gunderson says.

Cole agrees and adds the team hit a homerun on the procurement process.

"I never had a team like this, we needed them to be rock stars and they were," he says. 🎯

## 2020 BUILT BY THE BEST AWARD-WINNING SUPPLIER PROFILES

These are the companies integral to the success of the winning project.

### ALTA Refrigeration, Inc.

ALTA Refrigeration is a full service design/build constructor of Industrial Refrigeration Systems. For over 30 years, ALTA's reputation for energy conservation, low maintenance costs, unique problem solving, and long term value is verified by the repeat business earned from numerous IARW members and other major companies. In-house designed computer control energy savings systems includes over 27 years experience and hundreds of installations. Our reliable 24-hour service department and well-stocked parts departments are important to your business. Licensed in over 22 states, ALTA is positioned to help companies realize a larger return on investment by reducing operating costs.

### Dow Building Solutions

Dow Building Solutions serves the global building, construction and related markets with industry-leading insulation, house-wrap, sealant and adhesive products, as well as complete systems. Through its extensive manufacturing, sales and technical support organization, Dow Building Solutions continually creates novel solutions for improved energy efficiency in buildings today, while also addressing the industry's emerging needs and demands.

### Fastener Systems, Inc.

Specializing in fasteners for all types of cold storage, food processing & refrigerated warehouses. Stocking stainless, self-drilling, self-tapping, ZACS® and explosion release

fasteners. FABLOKS®, long length teks and roofing screws in stock. Tools, accessories, INSTA-FOAM®, tapes, caulks and butyl. The originators of POLARFAST®, the concealed panel screw. Fast overnight delivery.

### The Fricks Company

Industrial concrete floor contractor providing superior workmanship and outstanding customer satisfaction. Fricks specializes in providing the most durable concrete floor in the world through delivering their shrinkage compensating concrete floors which are holistically more durable and virtually eliminate curling and cracking while eliminating up to 90% of joints. The Fricks Company is the recognized leader in premium food facility, manufacturing, and distribution facility floor construction.

### Global Insulated Doors Inc.

Global Insulated Doors is a premier manufacturer of cold storage insulated doors. Our specialty is developing custom doors for all projects no matter what the size. Global Insulated Doors is proud to be family owned and operated. Our reputation for manufacturing a complete range of quality insulated doors, from Personnel doors to large Electric sliding doors, is driven by our many years of experience. This experience and knowledge combined with high levels of integrity and professionalism ensures that our clients receive the best value, highest performance and most technologically advanced products and service in the marketplace today.

### Green Span Profiles

Our products serve the cold storage, commercial/industrial and architectural market segments. Along with our manufactured products, Green Span Profiles offers a collection of services including technical support, engineering, and drafting. Green Span panels are formed by a continuously poured-in-place, manufacturing process that binds interior and exterior steel facings to a polyisocyanurate, insulating foam core. With exceptional insulating properties, superior spanning capability, accelerated installation times, cost-effective pricing, recycled content, plus a rigid feel and streamlined appearance the applications are limitless. All of our panels are rigorously tested and are FM 4880 and 4881 approved.

### Group4 Reps (Gulf Eagle Supply)

Cold Storage Representative for Carlisle-Syntec, manufacturer of TPO, EPDM, PVC single ply roofing systems, and Owens Corning extruded polystyrene for the cold storage, food service and commercial roofing/waterproofing industries.

### Johns Manville

Johns Manville manufacture premium-quality insulation, commercial roofing and fibers and nonwovens for commercial, industrial and residential applications. In addition to delivering well-made, reliable products, we are here to provide exceptional customer service and technical assistance to help ensure that your jobs are done right — from start to finish.

### Lewis Electrical Contractors, Inc.

Lewis Electrical Contractors is your project's turnkey electrical construction provider. We specialize in commercial and industrial projects. We have established a reputation for quality performance and meeting the demands of challenging projects. Lewis Electrical Contractors, Inc. provides complete electrical services for new construction, existing buildings, modifications / tenant improvements, design-build and special projects in a variety of environments including manufacturing, warehouse distribution, medical, food processing, refrigeration, material handling, packaging and lighting.

### Metl-Fab, Inc.

Metl-Fab, Inc. was founded in 2005 and is a cold storage construction contractor specializing in metal panels, cold storage services, truck dock canopies, metal fabrication and materials. We provide installation services across the United States and are well versed in all aspects of cold storage construction.

### Metl-Span

Manufacturers of Factory Mutual Class I polyurethane foamed-in-place panels and polystyrene laminated insulated panels for the construction of cold storage, freezer, food processing and meat plants. Metl-Span also supplies panels for ambient buildings for commercial and industrial use. Find out why Metl-Span makes the most thermally efficient panels available today.

### RHH Foam Systems Inc.

Manufacturers of VERSI-FOAM portable 2-component, low-pressure spray polyurethane foam systems. Units available in a variety of foam densities and sizes; both disposable and refillable containers. Also VERSI-TITE single component foam sealant and VERSI-BLOCK Fire Block and sealant in aerosol cans. All units compatible with low temperature environments and for a wide variety of insulating, sealing, caulking, and patching applications.

### Rytec High Performance Doors

Rytec is a manufacturer of high-performance doors for industrial, commercial,

pharmaceutical and cold-storage environments. Whether rolling, folding, sliding or swinging doors, high-performance doors are our only business. Rytec corporate offices and manufacturing operations are headquartered in Jackson, Wisconsin, a suburb of Milwaukee. Customer technical support is provided through regional offices and a network of local dealers and installers throughout North America.

### Shadco Column Bearing Blocks

Shadco manufactures column bearing blocks, insulated wall panel blocking and pipe support insulation for use in cold storage and food processing building construction. Our column bearing blocks, also known as freezer blocks or thermal isolation blocks, are made from high density, high strength closed cell polyurethane. The blocks are manufactured according to your plans, pre-drilled ready for installation and are available in a variety of densities and compression strengths. Shadco offers short lead times as well as quick turn around on quotes and shop drawings. Contact us for more information and a quote. ☎

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# NEW HOME FOR SOUTHERN FOODS

*A M King transforms a shell into a state-of-the-art processing facility.*

When Southern Foods, a full-service meats, seafood, artisanal cheese and global specialty goods supplier that performs custom processing, decided to expand in Greensboro, North Carolina, it reached out to design-build firm A M King. Their task? Convert an 88,000-square-foot spec shell warehouse into a one-of-a-kind, innovative, modern United States Department of Agriculture (USDA) regulated meat, seafood and cheese processing facility.

Matt Miller, Senior Project Manager for A M King says the project involved separate meat, fish and cheese processing areas, a dry age meat room, separate refrigerated dock and dry dock for inbound and outbound distribution, culinary center with commercial kitchen and first floor and mezzanine office space. And, they had to relocate all of the clients' existing equipment, plus new equipment, into

a much smaller building footprint with room to grow.

"The first thing we had to consider was what the existing building had to offer and what we would have to do to get it ready for everything we needed to put in it," Miller says. "An important goal of this project, for both Southern Foods and A M King, was to use as much of the existing building as

possible. We're extremely familiar with the complex nature of food facility design and construction, however, this particular process of adapting existing structures to meet USDA food facility requirements was exceptionally challenging."

## Challenges of the Job

Since the original building was designed as a standard dry warehouse, it did not support the level of mechanical and fire protection systems required for a facility where 50 percent of the square footage of space would be refrigerated.

Jami Lloyd, Architectural Designer at A M King, notes in order to keep the existing precast walls, roof and supporting structure, the design needed to isolate the steel members and exterior walls from the interior spaces.

"We were able to do this with a system of insulated metal panel walls, liner panels, baffles and ceilings," she says. "This gave us the proper framework to both physically and thermally maintain the new systems that are



The original dry warehouse was converted to refrigerated storage and processing spaces with a system of insulated metal panel walls, liner panels, baffles and ceilings. (Photo courtesy of A M King.)

required to control refrigeration temperatures for processing and storage of food. In addition, we ensured that the fire suppression system would operate as required in the case of an emergency.”

Another challenge was getting the facility ready a month and a half earlier than scheduled, as Southern Foods was required to relocate from its previous facility sooner than initially planned.

“A coordination meeting was scheduled with the subcontractors, and it was determined that in order to achieve this new timeline, the construction team would require overtime for labor to expedite key pieces of equipment and coordinate a plan with the city building officials,” Miller said. “Through the consolidated effort of all parties, the new project end date was achieved.”

### Meeting Safety Requirements

Once the structure was addressed, the design team turned its attention to the food safety and sanitation concerns of the new facility.

Tackling the specialty floor, Lloyd explains the team utilized Stonhard Brand Stonclad UT flooring, a high-strength industrial floor coating with a polyurethane 4 component mortar system that combines a urethane-urea binder, pigments and quartz aggregates.

“This coating is known for its high impact resistance, abrasion, thermal shock and chemical resistance,” she says. “We installed this coating over all concrete slabs in the food processing area to provide a protective layer over our slab. Thus, we were able to prevent food particles from absorbing into the concrete slab and minimized the risk of bacterial growth. The aggregate is mixed in to provide a textured slip resistant finish for ensured safety.”

Additionally, the team installed numerous trench and floor drains and sloped floor slab to those drains so that when the processing rooms are washed down, the water self-drains until none remains.

Since the room would have to be washed down so often, stainless-steel materials, best for corrosion resistance, were chosen for doors, hardware, equipment and exposed metals.

“Also, because these rooms are cleaned with high-temperature pressurized water, we needed to ensure the light fixtures could withstand the extreme temperature changes and force from the pressurized water,” Lloyd says. “To solve this problem, we chose fixtures that had an IP65 rating. The 6 means the fixture is dust tight and the 5 means the fixture is protected against water jets from any angle.”

With all the equipment in this space, the design team wanted to make sure the conduit, water and refrigeration lines were sealed and off the walls to ensure proper cleaning processes could happen. Their solution was to seal standoffs for conduit and plumbing to assist with easy cleaning.

“One of the most common issues with food safety and sanitation is cross contamination,” Lloyd says. “Therefore, gowning rooms were provided as the main point of entry and exit

into and out of the processing areas.”

### Fulfilling Needs

Bill Mutton, President of Southern Foods, also had another request for A M King. He wanted a space that would encourage client interaction.

“Southern Foods doesn’t just sell you a product, we invite you to be a part of the selection process,” he says.

To fulfil this goal, Miller says they installed triple-paned viewing windows in the meat, fish and cheese processing rooms, as well as the dry aged meat room.

“These windows are thermally broken so they can withstand the different temperatures on either side, without fogging or condensation,” he says. “They allow for easy viewing so clients and guests can see the aged meat and cheeses, as well as the seafood, before the product is cut. The windows also provide a safe barrier between visitors and the raw product.”

Mutton championed sustainability measures whenever possible. Miller notes the main sustainability initiative implemented



A distinctive 34-degree, 4,200-square-foot dry beef aging room is fitted with high-tech temperature and humidity controls and large viewing windows for customers. (Photo courtesy of A M King.)



A high-strength industrial floor coating over all concrete slabs in the food processing area prevents food particles from absorbing into the concrete slab and minimizes the risk of bacterial growth. (Photo courtesy of A M King.)

was the use of an existing building in lieu of a greenfield site.

“It was important to all parties to locate an existing project site that could be used and modified to meet the owner’s needs,” Lloyd says. “With exterior precast walls, minimally insulated roof and structural steel already in place, we were able to meet our goal to design a thermally isolated space within the bounds of an existing structure.”

The team lined the inside face of exterior walls with insulated metal wall panels. Insulated metal panel ceilings were suspended below the existing roof structure.

“We layered floor slabs with insulation and underslab glycol piping to create separation from the exterior elements,” Miller says. “This separation allowed us to create a thermally sealed interior space that could withstand the required temperatures ranging down to negative 20 degrees.”

HVAC systems were used to balance energy efficiency and economic viability. The facility’s first floor non-production spaces and the second floor office spaces were configured as a variable air volume (VAV) system comprised of a packaged rooftop air conditioner with modulating natural gas heating and a variable speed supply fan.

Additional green measures included installing LED lighting, adding mechanical DX cooling systems, efficient heat pumps, higher than required R-Values for wall systems in refrigerated areas and implementing a complete occupancy sensor control throughout the building spaces. Also, each rooftop unit had two compressors for staging capability and to reduce energy consumption at lower loads.

One of the biggest challenges the design team faced was organizing the spatial layout. Southern Foods needed to have raw meat and fish remain at the required temperature from arrival, through the cutting/packing process and in storage until ready to be shipped.

“Our challenge was to make sure each space the product passed through met the refrigeration, thermal and finish requirements necessary for maintaining its integrity,” Lloyd says.

For example, A M King created easy access from the refrigerated dock to the -20-degree blast freezer and packaging area.

“The blast freezer, which is a vital part of the patty process, had to be centrally located in the building to ensure easy accessibility. However, that meant it had to withstand varying temperatures, sometimes extreme temperature differentials of 70 degrees or more,” Lloyd says. “The construction of this freezer had to be carefully considered to ensure that it would perform.”

To do this, 5-inch-thick IMP was used for the ceiling and walls, which were extended below the slab to prevent thermal transfer. Additionally, A M King’s design-build team installed a glycol piping system to heat the underslab and constructed a baffle ceiling to help direct the air flow from the refrigeration system to the product to help bring down the temperature as quickly as possible.

### Work Complete

A M King finished the Southern Foods project under budget and on time in just 19 months.

The new facility now houses a 13,500-square-foot food processing area with a distinctive 34-degree, 4,200-square-foot dry beef aging room fitted with high-tech temperature and humidity controls and large viewing windows. In total, there are 11,585 square feet of freezers, 11,429 square feet for 32-degree coolers and loading docks, a refrigerated cheese processing area, a 14,250-square-foot space for dry storage and a 12,660-square-foot office mezzanine.

And, with the new fish processing area, cheese processing room and express purchasing for the general public, the company can do more than it ever has.

The project was a finalist in the CEBA Built by the Best Competition in 2020. 🏆



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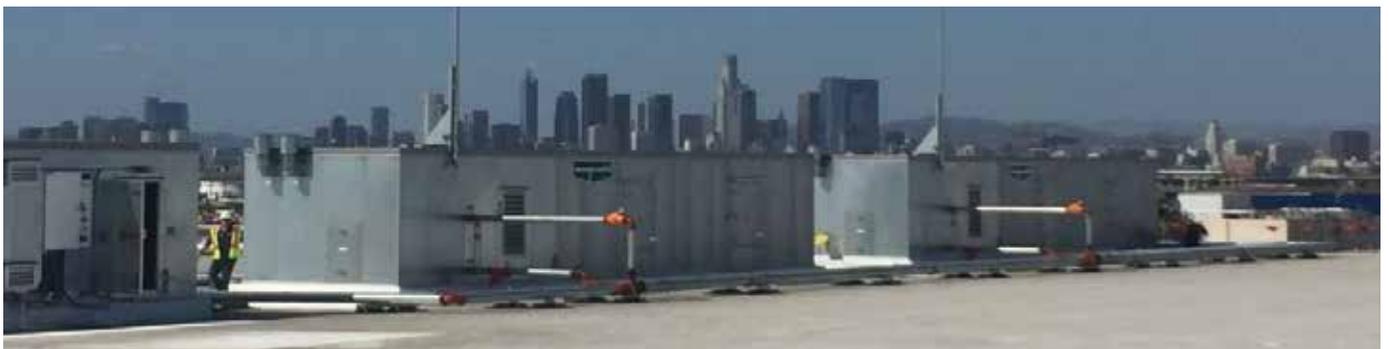
The General Contractor & Owner need to be aware that the following items will bring savings to the project:

- ✓ Eliminating or reducing the size of the central machinery room and roof supports for ammonia pipe headers.
- ✓ Planning for the required roof steel will minimize any structural cost impact for the packaged units and recognize savings from no ammonia roof headers.
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- ✓ Reduction in the GC’s monthly “site general conditions” cost because the building construction schedule can be shorter.

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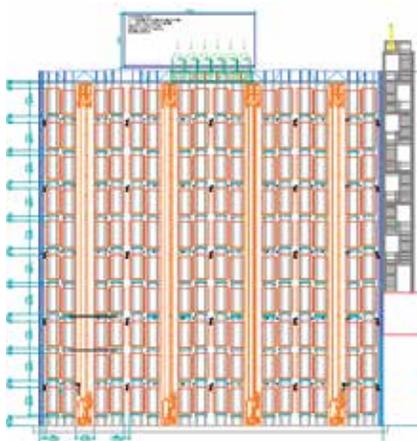


To take advantage of these lower building costs the architectural, structural, electrical and mechanical design team needs to incorporate the packaged solution into the building design early in the project development process. This will guarantee that the material take-offs and subcontractor bids are based on the associated reduction in building scopes and the cost savings are recognized by the General Contractor and passed on to the Owner. The design-build process, common for refrigerated facilities, lends itself to making these new cost saving improvements happen, but if the building is designed “*the same old way*” then they are harder to achieve.



### The Evapcold design can provide a shorter construction schedule:

- ✓ Evapcold units can be manufactured & shipped in parallel with building steel fabrication and erection.
- ✓ Units have a very short installation time.
- ✓ Significantly less on-site labor than field erected systems.
- ✓ Factory testing leads to quick & trouble-free startup.
- ✓ Refrigeration no longer the project’s critical path.





# CONNECTING RAIL AND SHIP IN OAKLAND

*Fisher Construction Group finds success with Lineage Logistics Cool Port design/build.*

Lineage Logistics Cool Port in Oakland, California, United States, is a new temperature-controlled transload distribution facility that is a cornerstone project of an economic revitalization plan developed by a public-private partnership between Lineage Logistics, cold storage operator Dreisbach Enterprises and the Port of Oakland.

Fisher Construction Group was hired to design and build the mammoth \$70 million property on 22 acres.

The 276,000-square-foot facility bridges the gap between rail and ship and provides a greatly needed cold storage and transfer hub for importing and exporting protein products

between the United States and Pacific Rim nations. Lineage Logistics Cool Port is projected to handle approximately 9,000 rail cars per year and an additional 9,000 containers by truck, transferring up to 1,000,000 tons of perishable product through the Port of Oakland annually.

Ryan Smith, Senior Project Manager for Fisher Construction Group, noted the company became involved in the project when the Port of Oakland issued a request for proposal, and Fisher was selected to team with the Cool Port Group (comprised of Lineage Logistics and Dreisbach Enterprises) as its builder.

Being the first public/private partnership project for the Port of Oakland, Fisher's project management team navigated many "firsts" for the port. Cool Port's ownership group trusted Fisher's management team to navigate and advise them through the process.

"Time and budget were the two biggest driving factors," Smith explains. "Because of reasons to do with the lease, the facility had to be operational by November 2018 – regardless

*The Lineage Logistics Cool Port, designed and built by Fisher Construction Group, bridges the gap between rail and ship and provides a cold storage and transfer hub for importing/exporting perishable products between the United States and Pacific Rim nations. (Photo courtesy of Fisher Construction Group.)*

of whether it was working or not, they were going to start being charged rent.”

In addition, there was a concurrent federally funded project to get rail lines in place, and Fisher needed to meet certain milestones and dates to allow that rail service project to be installed.

“There’s also a lot of public involvement working in the Port of Oakland,” Smith says. “The Maritime Aviation Port Labor Agreement requires using local unions, so we could hire from five zip codes in the Oakland area. Fisher hired a person to specifically administer the requirements.”

Once port staff reviewed and endorsed the project, the port’s commissioners still needed to provide final approval of the entirety of the plan including utilities, grading, environmental, trucking haul routes and construction reviewed and approved.

### Constructing the Cold Chain

The facility contains a 100,000-square-foot storage zone that represents about one third of the entire space. The rest is comprised of a uniquely winged refrigerated loading dock, allowing for product transloading in optimal conditions.

Smith notes the 108 rail and truck doors in the refrigerated cross-dock were designed with a complex set of interlocks to help maintain the cold chain.

“The rail doors remain locked until the trains are completely aligned with the inflatable dock seals and adjustable rail levelers are in place,” Smith says. “The interlocking system allows rail cars to be aligned four-deep with passage bridges fitted between cars. Loads are transloaded to trucks using specially designed truck levelers enabling the trucks to be fully loaded with product via handling trucks, without the need to hand-load the last stack in the area that a conventional loading dock would typically occupy.”

### Overcoming Challenges

Smith notes jurisdiction issues were the largest challenges the crew faced as working in California, in Oakland specifically and at the port, all had unique issues. Overall, there were about 20 different agencies from which Fisher needed approval.

On the construction side, horrible soils were the problem.

As the site was once an army base located on the tidelands of Oakland Bay, it presented some challenges to Smith and his team. For one, there were unknown sunken hazards and potential contamination in the already soupy tide flats.

Smith explained the poor soils required the facility to be built on 1,800 concrete piles driven 50 feet down to counteract settling and seismic activity, bracing the building’s slab foundation.

“If there ever was a seismic event, it was estimated the ground underneath could slip away up to two feet,” Smith points out. “We had to design with that in mind, so we built it almost like a bridge deck sitting on top of piers and it’s all a structural slab.”

That required all utilities coming in to have big joints and flexible connections and all underground utilities (electrical, plumbing) had to be set in concrete with hangers.

Additionally, the land is heavily regulated by the California Department of Toxic Substance Control due to the possibility of ground contamination so specific site permits and approval was required by the DTSC to proceed with the work, such as obtaining groundwater permits for the discharge of construction dewatering efforts from The East Bay Municipal Utility District.

The Fisher team also created a hinge detail for the truck aprons so if the ground erodes, the top would still be connected to the building as the aprons would tilt in the event of settlement. Trucks would have access to the docks via the use of this teeter-totter design counteracting settlement.

### Notable Innovation

The Cool Port project adopted a locally driven strategy when devising its long-term international solution and its localized strategy was woven into every aspect of the enterprise.



*Two thirds of the entire facility is comprised of a winged refrigerated loading dock, allowing for product transloading in optimal conditions. (Photo courtesy of Fisher Construction Group.)*



One hundred and eight rail and truck doors in the refrigerated cross-dock were designed with a complex set of interlocks to help maintain the cold chain. (Photo courtesy of Fisher Construction Group.)

The success of the Lineage Logistics Cool Port project required significant innovation long before the first excavator arrived onsite and throughout the project’s entire design-build process.

Smith notes that innovation is evident in the way the company future-proofed the methane-pocketed and seismic-prone land to a suitable building foundation; how it devised on-demand market adaptability in the form of interchangeable frozen and chilled storage spaces; and how it maximized end-to-end cold chain efficiencies within an intermodal system.

“While the advantages of intermodal transport are well known, less well known is the need for continuous improvement of the cold chain itself,” he says. “Every link in the chain carries the risk of breaking the chain and risking safety, quality and value along the way.”

The Cool Port design mitigated the likelihood of weak links by creating continuous cold chains capable of safeguarding all goods entering and exiting the building. “Neither loading nor unloading breaks the chain when utilizing inflatable rail dock shelters and internal setback dock pits with cold chain safeguards,” Smith says. “Frozen or chilled,

the process remains intact and cargo is never exposed to external temperatures.”

Cool Port’s continuous cold chain intermodal transport facility is augmented by the structure’s innovative cold chain storage capabilities. The structure houses an 80,000-square-foot freezer in tandem with two 10,000-square-foot areas capable of storing goods with a temperature range of -10F to +35F.

“Such convertible storage spaces accommodate the dynamic realities of market demand,” Smith says. “This innovation reduces the facility’s limitations, thus increasing its functionality in an evolving market.”

Being a freezer and a cooler, Smith notes there is always a bigger demand for water. Originally faced with a \$2 million connection price, Fisher was able to negotiate to get it down to a manageable cost. That was a battle that took six months, Smith adds.

### Sustainable Efforts

The design, construction, and operations of Cool Port met all of CALGreen’s codes – the statewide standard for reducing the environmental impact of construction by minimizing waste and setting a high standard of energy

efficiency for new buildings.

“The building is certainly very efficient thermally,” Smith says. “We used all the latest technologies for the thermal envelope.”

The whole building is also solar-ready if solar was to become available. There are dedicated dead loads for solar panels on the building, extra room in the electrical gear, and extra conduits for other solar provisions.

Smith notes that given cold storage facilities are intensive energy users, it was in everyone’s interest to increase the efficiency of the facility through smart use of materials and technologies. Therefore, the steel-supported 48-foot, 7-inch-tall cold storage facility is totally clad in energy efficient 6-inch IMP panels offering an R44 value, making it possible to maintain the freezer/convertible cooler with less than 2-degree fluctuation in energy consumption. Similarly, the cross-loading docks are clad in 4-inch insulated metal panels.

The facility’s state-of-the-art industrial ammonia refrigeration system utilizes low-charge direct expansion for all cooling loads, which significantly reduces the ammonia charge required on site. It provides additional benefits including the elimination of recirculation pumps, effective operation at multiple

temperature levels, reduced defrost times and frequency, excellent response to changes in load, fast restart after a power failure, and simplified maintenance and operation.

Propylene glycol, circulating through compressor oil coolers, provides the heat for sub-floor warming under the storage areas, preventing ground frost formation. Meanwhile, Cool Port's control system manages all room temperatures and defrost cycles, providing a floating suction and discharge pressures that maximize electrical efficiency.

### Final Thoughts

At the conclusion of the build, a formerly brown site riddled with challenges was transformed into a continuous blue-sky operation. Just as important, both temporary and

evergreen opportunities were introduced into an economically distressed community.

"The Mayor of Oakland was at the grand opening, and multiple people in Congress came through, the Port commissioner was there, and everyone was happy with what they saw," Smith says. "It's a one-of-a-kind project. To have a facility where you can get fresh produce, meats and anything that needs to be refrigerated off a boat and put directly on to rail is unique."

Smith was pleased that the project met or exceeded all MAPLA goals as the first port/public/private partnership in Oakland. He credits the joint effort from the beginning of the project as making it a smooth process for all involved.

"We came away having a very successful project with all those parties," he says. "It was a very clear goal and we designed what was needed and what they wanted. We were on time and on budget and had the facility running when we had to."

The project was a finalist in the CEBA Built by the Best Competition in 2020. 

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# COLD CHAIN BUYERS GUIDE

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### Air Curtains and Doors

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Mundelein, IL United States  
[www.albanydoors.us](http://www.albanydoors.us)

#### **Berner Air Curtains**

New Castle, PA United States  
[www.berner.com](http://www.berner.com)

#### **Clark Door Limited**

Carlisle, United Kingdom  
[www.clarkdoor.com](http://www.clarkdoor.com)

#### **Hormann High Performance Doors**

Burgettstown, PA United States  
[www.hormann-flexon.com](http://www.hormann-flexon.com)

#### **Jamison Door Company**

Hagerstown, MD United States  
[www.jamisondoor.com](http://www.jamisondoor.com)

#### **KPS Global**

Fort Worth, TX United States  
[www.kpsglobal.com](http://www.kpsglobal.com)

#### **Mayekawa U.S.A., Inc.**

Lebanon, TN United States  
[www.mayekawausa.com](http://www.mayekawausa.com)

#### **Southern Thermal Solutions Inc.**

Mt. Crawford, VA United States

#### **Tracy Cold Storage Construction, Inc.**

Point Lookout, NY United States  
[www.tracycoldstorage.com](http://www.tracycoldstorage.com)

### Ammonia/Chemical Supplies

#### **Dow Chemical (Australia) Pty Ltd.**

Melbourne, Victoria Australia  
[www.dow.com](http://www.dow.com)

#### **Dupont**

New Delhi, India  
[www2.dupont.com/India\\_Country\\_Site/en\\_IN](http://www2.dupont.com/India_Country_Site/en_IN)

#### **Honeywell International Inc.**

Morris Plains, NJ United States  
[www.honeywell.com](http://www.honeywell.com)

#### **Tanner Industries Inc.**

Southampton, PA United States  
[www.tannerind.com](http://www.tannerind.com)

#### **The Chemours Company**

Wilmington, DE United States  
[www.chemours.com/en](http://www.chemours.com/en)

### Ammonia/Environmental Monitoring Equipment

#### **Advanced Energy Control, Inc.**

Randolph, WI United States  
[www.advancedenergycontrol.com](http://www.advancedenergycontrol.com)

#### **Bridge Industrial Partners**

Rosemont, IL United States  
[www.bridgedev.com](http://www.bridgedev.com)

#### **Calibration Technologies**

Columbia, MO United States  
[www.ctiengineering.com](http://www.ctiengineering.com)

#### **Lisa Line Life Science Technologies Pvt., Ltd.**

Mumbai, India  
[www.lisalineasia.com](http://www.lisalineasia.com)

#### **Logix Refrigeration Controls**

Kirkland, WA United States  
[www.logix-controls.com](http://www.logix-controls.com)

#### **Nitto, Inc.**

Teaneck, NJ United States  
[www.nitto.com/us/en](http://www.nitto.com/us/en)

#### **Republic Refrigeration, Inc.**

Monroe, NC United States  
[www.republicrefrigeration.com](http://www.republicrefrigeration.com)

#### **Tanner Industries Inc.**

Southampton, PA United States  
[www.tannerind.com](http://www.tannerind.com)

### Architect

#### **Bosz Arch, Inc.**

Irvine, CA United States  
[www.boszarch.com](http://www.boszarch.com)

#### **ESI Group USA**

Hartland, WI United States  
[www.esigroupusa.com](http://www.esigroupusa.com)

#### **Internal Trade Engineering Design and Research Institute P.R. China**

Beijing, China  
[www.itedri.com.cn](http://www.itedri.com.cn)

#### **The Weitz Company**

Cedar Rapids, IA United States  
[www.weitz.com](http://www.weitz.com)

#### **Ware Malcomb**

Irvine, CA United States  
[www.waremalcomb.com](http://www.waremalcomb.com)

### Audit and Inspection Provider

#### **Applus RTD USA, Inc.**

Sugar Land, TX United States  
[www.applus.com/en](http://www.applus.com/en)

#### **Danbee Investigations**

Midland Park, NJ United States  
[www.danbeeinvestigations.com](http://www.danbeeinvestigations.com)

#### **Graycor Construction Company**

Charlotte, NC United States  
[www.graycor.com](http://www.graycor.com)

#### **Jan X-ray Services, Inc.**

Sugar Land, TX United States  
[www.janxndt.com](http://www.janxndt.com)

#### **Latus**

Ascot Vale, Victoria Australia  
[www.latus.com.au](http://www.latus.com.au)

#### **Mantis Informatics**

Grand Haven, MI United States  
[www.mantis.group/index.html](http://www.mantis.group/index.html)

### Batteries or Chargers

#### **Advanced Charging Technologies (ACT)**

Fountain Valley, CA United States  
[www.act-chargers.com](http://www.act-chargers.com)

#### **Battery Specialties Australia**

Summer Park, Queensland Australia

#### **Centura Yuasa Batteries (NSW)**

Villawood, New South Wales Australia

#### **Century Yuasa Batteries**

Carole Park, Queensland Australia  
[www.cyb.com.au](http://www.cyb.com.au)

#### **Green Cubes Technology Corp.**

Kokomo, IN United States  
[www.greencubestech.com](http://www.greencubestech.com)

#### **GridMarket**

New York, NY United States  
[www.gridmarket.com](http://www.gridmarket.com)

#### **Midac Australia Pty Ltd.**

Smeaton Grange, New South Wales Australia  
[www.midacbatteries.com](http://www.midacbatteries.com)

### Clothing and Personal Protective Equipment

#### **Avaska**

Knoxville, TN United States  
[www.avaska.com](http://www.avaska.com)

#### **Badger Australia**

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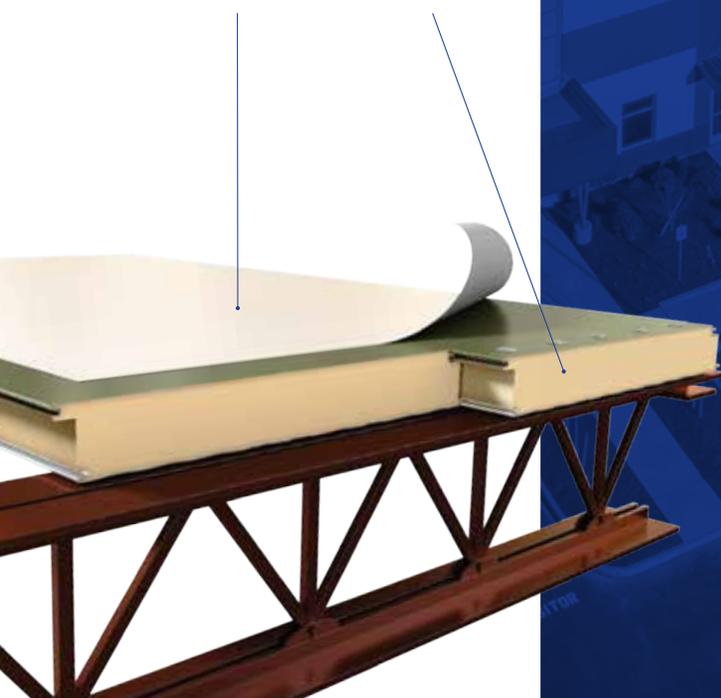
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[www.teamgrp.com](http://www.teamgrp.com)

**Technocool Engineering**  
Tashkent, Uzbekistan  
[www.technocool.kz](http://www.technocool.kz)

**TGW Systems, Inc.**  
Grand Rapids, MI United States  
[www.tgw-group.com](http://www.tgw-group.com)

**The Whiting-Turner Contracting Company**  
Baltimore, MD United States  
[www.whiting-turner.com](http://www.whiting-turner.com)

**Thermal Technologies, Inc.**  
Blythewood, SC United States  
[www.thermaltechnologies.com](http://www.thermaltechnologies.com)

**Thermo Design Insulation Ltd.**  
Edmonton, AB Canada  
[www.thermo-design.com](http://www.thermo-design.com)

**Tippmann Construction**  
Fort Wayne, IN United States  
[www.tippmangroup.com](http://www.tippmangroup.com)

**Tippmann Innovation**  
Fort Wayne, IN United States  
[www.ticold.com](http://www.ticold.com)

**Tracy Cold Storage Construction, Inc.**  
Point Lookout, NY United States  
[www.tracycoldstorage.com](http://www.tracycoldstorage.com)

**Transwestern**  
Chicago, IL United States  
[www.Transwestern.com](http://www.Transwestern.com)

**Trundley Design Services Limited**  
Norfolk, United Kingdom  
[www.trundley.com](http://www.trundley.com)

**UISC, LLC**  
Berkeley, IL United States  
[www.unitedinsulated.com](http://www.unitedinsulated.com)

**V. Paulius & Associates**  
Allendale, NJ United States  
[www.vpa.com](http://www.vpa.com)

**Vaughan Constructions Pty Ltd**  
Port Melbourne, Victoria Australia

**Walter Fedy**  
Kitchener, ON Canada  
[www.walterfedy.com](http://www.walterfedy.com)

**WDS Construction, Inc.**  
Beaver Dam, WI United States  
[www.wdsconstruction.net](http://www.wdsconstruction.net)

**Wiley & Co.**  
Woolloongabba, Queensland Australia  
[www.wiley.com.au](http://www.wiley.com.au)

**Williams Company**  
Orlando, FL United States  
[www.williamsco.com](http://www.williamsco.com)

## Doors

**Advanced Insulation Concepts, Inc.**  
Florence, KY United States  
[www.aicinsulate.com](http://www.aicinsulate.com)

**Albany Entrematic**  
Mundelein, IL United States  
[www.albanydoors.us](http://www.albanydoors.us)

**ASSA ABLOY Entrance Systems**  
Oakleigh, Victoria Australia  
[www.assaabloy.com.au](http://www.assaabloy.com.au)

**Bluseal Limited**  
Worcester, United Kingdom  
[www.bluseal.co.uk/](http://www.bluseal.co.uk/)

**Brucha Corp**  
Denver, CO United States  
[www.brucha.com](http://www.brucha.com)

**Clark Door Limited**  
Carlisle, United Kingdom  
[www.clarkdoor.com](http://www.clarkdoor.com)

# Architecture | Engineering | Construction

Feasibility Studies | Facility Master Planning | Facility Sizing and Layout



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888.328.2962 | [info@cmcdesign-build.com](mailto:info@cmcdesign-build.com) | [cmcdesign-build.com](http://cmcdesign-build.com)

**Controlled Environment Systems LLC**  
Mansfield, MA United States  
[www.cesweb.com](http://www.cesweb.com)

**CSI of Virginia, Inc.**  
Glen Allen, VA United States  
[www.csiinc.org](http://www.csiinc.org)

**DAN-doors A/S**  
Skanderborg, Denmark  
[www.dan-doors.com](http://www.dan-doors.com)

**Efaflex**  
Henderson, Auckland, New Zealand  
[www.efaflex.com](http://www.efaflex.com)

**Envisage Systems**  
Mount Martha, Victoria Australia  
[www.ebs-building.com](http://www.ebs-building.com)

**Frank Door Company**  
Newport, NC United States  
[www.frankdoor.com](http://www.frankdoor.com)

**Global Insulated Doors Inc.**  
Concord, ON Canada  
[www.globalinsulateddoors.com](http://www.globalinsulateddoors.com)

**GPL Construction (UK) Ltd.**  
Norfolk, United Kingdom  
[www.gplconstruction.co.uk](http://www.gplconstruction.co.uk)

**HBCL Coldstores Ltd.**  
West Yorkshire, United Kingdom  
[www.hbclcoldstoresltd.co.uk](http://www.hbclcoldstoresltd.co.uk)

**Heritage Hygienic Environments Ltd.**  
Wirral, United Kingdom  
[www.heritagehe.com](http://www.heritagehe.com)

**Holden Installations Ltd.**  
Cork, Ireland  
[www.holden.ie](http://www.holden.ie)

**Hormann High Performance Doors**  
Burgettstown, PA United States  
[www.hormann-flexon.com](http://www.hormann-flexon.com)

**IK Industries**  
Shahajapur, Maharashtra India  
[www.ikindustries.in](http://www.ikindustries.in)

**IXL Co., Ltd.**  
Bangkok 10250, Thailand  
[www.ixl.co.th](http://www.ixl.co.th)

**Jamison Door Company**  
Hagerstown, MD United States  
[www.jamisondoor.com](http://www.jamisondoor.com)

**KPS Global**  
Fort Worth, TX United States  
[www.kpsglobal.com](http://www.kpsglobal.com)

**Metaflex Doors India Pvt. Ltd.**  
Noida, India  
[www.metaflex.in](http://www.metaflex.in)

**Midwest Materials Company**  
Joplin, MO United States  
[www.midwestmaterials.com](http://www.midwestmaterials.com)

**MT Cold Storage Solutions Ltd**  
Leigh Sinton, WOR United Kingdom

**R.A.Sneddon Ltd**  
Scotland, United Kingdom  
[www.rasneddon.com](http://www.rasneddon.com)

**R-cold, Inc.**  
Perris, CA United States  
[www.r-cold.com](http://www.r-cold.com)

**Retracom Contracting**  
Brown Plailns, Queensland Australia  
[www.retracom.com.au](http://www.retracom.com.au)

**Rytec High Performance Doors**  
Jackson, WI United States  
[www.rytecdoors.com](http://www.rytecdoors.com)

**Senneca Holdings**  
Cincinnati, OH United States  
[www.senneca.com](http://www.senneca.com)

**Thermal Construction Specialists**  
Saint Paul, MN United States  
[www.tcscold.com](http://www.tcscold.com)

**TNR Industrial Doors**  
Barrie, ON Canada  
[www.tnrdoors.com](http://www.tnrdoors.com)

**Tracy Cold Storage Construction, Inc.**  
Point Lookout, NY United States  
[www.tracycoldstorage.com](http://www.tracycoldstorage.com)

**Weiland Doors**  
Norfolk, NE United States  
[www.weilanddoors.com](http://www.weilanddoors.com)

#### Education and Training Provider

**Innovative Refrigeration Systems, Inc.**  
Lyndhurst, VA United States  
[www.R717.net](http://www.R717.net)

**Lanier Technical College**  
Gainesville, GA United States  
[www.laniertech.edu/ammonia](http://www.laniertech.edu/ammonia)

**Latus**  
Ascot Vale, Victoria Australia  
[www.latus.com.au](http://www.latus.com.au)

#### Energy Management/Monitoring Equipment or Services

**ACME Tele Power Limited**  
Gurgaon (Haryana), India  
[www.acmetelepover.com](http://www.acmetelepover.com)

**Advanced Energy Control, Inc.**  
Randolph, WI United States  
[www.advancedenergycontrol.com](http://www.advancedenergycontrol.com)

**AIR Consulting Global Ltd**  
Northern Ireland, United Kingdom  
[www.airconsulting.eu.com](http://www.airconsulting.eu.com)

**Cascade Energy, Inc.**  
Walla Walla, WA United States  
[www.cascadeenergy.com](http://www.cascadeenergy.com)

**Chemtron Science Laboratories Private Limited**  
Navi Mumbai, Maharashtra India  
[www.chemtronscience.com](http://www.chemtronscience.com)

**Couch Perry & Wilkes LLP**  
Birmingham, United Kingdom  
[www.cpw.com](http://www.cpw.com)

**Dalkia Energy Solutions, LLC**  
Beverly, MA United States  
[www.groomenergy.com](http://www.groomenergy.com)

**Denovo**  
West Des Moines, IA United States  
[www.Netzeroalliance.com](http://www.Netzeroalliance.com)

**EMSC-Australia**  
Malvert, Victoria Australia

**Energy Action**  
Parramatta, New South Wales Australia  
[www.energyaction.com.au](http://www.energyaction.com.au)

**EnerNOC**  
Melbourne, Victoria Australia  
[www.enernoc.com](http://www.enernoc.com)

**EP Hvac&R (Pty) Ltd t/a Energy Partners Refrigeration**  
Centurion, Gauteng South Africa  
[www.energypartners.co.za](http://www.energypartners.co.za)

**GNB Industrial Power**  
Mount Waverly, Victoria Australia

**Gould Group**  
Westerville, OH United States  
[www.gouldgrp.com](http://www.gouldgrp.com)

**Gray Construction**  
Lexington, KY United States  
[www.gray.com](http://www.gray.com)

**GridBeyond**  
Watford, United Kingdom  
[www.girdbeyond.com](http://www.girdbeyond.com)

**GridMarket**  
New York, NY United States  
[www.gridmarket.com](http://www.gridmarket.com)

**HB Products A/S**  
Hasselager, Danmark, Denmark  
[www.hbproducts.dk](http://www.hbproducts.dk)

**Honeywell International Inc.**  
Morris Plains, NJ United States  
[www.honeywell.com](http://www.honeywell.com)

**IGS Energy**  
Dublin, OH United States  
[www.igs.com](http://www.igs.com)

**Logix Refrigeration Controls**  
Kirkland, WA United States  
[www.logix-controls.com](http://www.logix-controls.com)

**Madison Energy Investments**  
New York, NY United States  
[www.madisonenergy.com](http://www.madisonenergy.com)

**Minus40 Pty Ltd.**  
Castle Hill, New South Wales Australia  
[www.minus40.com.au](http://www.minus40.com.au)

**Industrial**  
Raleigh, NC United States  
[www.ndustrial.io](http://www.ndustrial.io)

**PED Consultants Ltd.**  
Armagh, United Kingdom  
[www.pedconsult.com](http://www.pedconsult.com)

**PowerSecure**  
Wake Forest, NC United States  
[www.powersecure.com](http://www.powersecure.com)

**Prana Energy**  
Caulfield South, Victoria Australia  
[www.pranaenergy.com.au](http://www.pranaenergy.com.au)

**S & S Refrigeration Company**  
Jersey City, NJ United States  
[www.srefrig.com](http://www.srefrig.com)

**TESSOL (Thermal Energy Services Solutions Pvt. Ltd)**  
Navi Mumbai, India  
[www.tessol.in](http://www.tessol.in)

**Testo Do Brazil**  
Campinas, São Paulo Brazil

**Therma**  
San Francisco, CA United States  
[www.hellotherma.com](http://www.hellotherma.com)

**Utility Management Services**  
Wilmington, NC United States  
[www.utilmanagement.com](http://www.utilmanagement.com)

**VaCom Technologies**  
La Verne, CA United States  
[www.vacomtech.com](http://www.vacomtech.com)

**Vapor Armour**  
Clackamas, OR United States  
[www.vaporarmour.com](http://www.vaporarmour.com)

**Viking Cold Solutions, Inc**  
Houston, TX United States  
[www.vikingcold.com](http://www.vikingcold.com)

## Financing, Financial Services

**Lockwood Securities**  
New York, NY United States

**Rabobank**  
Utrecht, Netherlands  
[www.far.rabobank.com](http://www.far.rabobank.com)

**RoadSync**  
Atlanta, GA United States  
[www.roadsync.com](http://www.roadsync.com)

**Truist Bank**  
Atlanta, GA United States  
[www.truist.com](http://www.truist.com)

**Williams Industrial Group of  
Marcus & Millichap**  
San Diego, CA United States  
[www.marcusmillichap.com](http://www.marcusmillichap.com)

## Fire and Smoke Protection Systems

**Ahern Fire Protection a division of J. F.  
Ahern Co.**  
Fond du Lac, WI United States  
[www.jfahern.com](http://www.jfahern.com)

**Johnson Controls**  
Lansdale, PA United States  
[www.tyco-fire.com](http://www.tyco-fire.com)

**Protectowire FireSystems**  
Pembroke, MA United States  
[www.protectowire.com](http://www.protectowire.com)

**WAGNER Fire Safety Consulting GmbH**  
Langenhagen, Germany  
[www.wagnergroup.com](http://www.wagnergroup.com)

**Wiginton Fire Systems**  
Sanford, FL United States  
[www.wiginton.net](http://www.wiginton.net)

## Flooring and Flooring Solutions

**Heritage Hygienic Environments Ltd.**  
Wirral, United Kingdom  
[www.heritagehe.com](http://www.heritagehe.com)

**HIL Installations Ltd.**  
Merseyside, United Kingdom  
[www.hil-installations.com](http://www.hil-installations.com)

**Kalman Floor Company**  
Denver, CO United States  
[www.kalmanfloor.com](http://www.kalmanfloor.com)

**MegaSlab**  
Marietta, GA United States  
[www.MegaSlab.com](http://www.MegaSlab.com)

**MT Cold Storage Solutions Ltd**  
Leigh Sinton, WOR United Kingdom

**O'Connor Construction Group**  
Poolville, TX United States  
[www.ocgbuild.com](http://www.ocgbuild.com)

**TECNOPOL**  
Monterrey, Nuevo Leon Mexico  
[www.tecnopol.mx](http://www.tecnopol.mx)

**The Fricks Company**  
Fort Worth, TX United States  
[www.fricksc.com](http://www.fricksc.com)

**Thermal Construction Specialists**  
Saint Paul, MN United States  
[www.tscold.com](http://www.tscold.com)

**Twintec Industrial Flooring**  
Rugby, Warwickshire, United Kingdom  
[www.twintec.co.uk](http://www.twintec.co.uk)

**Twintec USA**  
Cornelius, NC United States  
[www.twintecusa.com](http://www.twintecusa.com)

**Williams Company**  
Orlando, FL United States  
[www.williamsco.com](http://www.williamsco.com)

## Forklift Tires or Wheels

**ASAFE Australia**  
Glendinning, New South Wales Australia  
[www.asafe.com](http://www.asafe.com)

**A-Safe, Inc.**  
Elkridge, MD United States  
[www.asafe.com/en-us](http://www.asafe.com/en-us)

**Ashley Services Group**  
Sydney, New South Wales Australia  
[www.ashleyservicesgroup.com.au](http://www.ashleyservicesgroup.com.au)

**eForklift**  
Dandenong, South VIC Australia  
[www.eforklift.com.au](http://www.eforklift.com.au)

**Jungheinrich South Africa (Pty) Ltd.**  
Pomona AH, Kempton Park, South Africa  
[www.jungheinrich.co.za](http://www.jungheinrich.co.za)

**Stow International NV**  
Spiere-Helkijn, Belgium  
[www.stow-group.com/en](http://www.stow-group.com/en)

**Superior Tire & Rubber Corp**  
Warren, PA United States  
[www.superiortire.com](http://www.superiortire.com)

**Translift Bendi Limited**  
Redditch, Worcestershire, United Kingdom  
[www.bendi.co.uk](http://www.bendi.co.uk)

## Generators and Engine Generators

**Pacific Cooling Services S.A. Pacoolse**  
Quayaquil, Ecuador

## HR or Recruitment Services

**Danbee Investigations**  
Midland Park, NJ United States  
[www.danbeeinvestigations.com](http://www.danbeeinvestigations.com)

**Labour Force**  
Smithfield, New South Wales Australia  
[www.labourforce.com.au](http://www.labourforce.com.au)

**OZ Labourforce**  
Murarrie, Queensland Australia  
[www.ozlabourforce.com.au](http://www.ozlabourforce.com.au)

**Prosperio Group**  
New Lenox, IL United States  
[www.prosperio.com](http://www.prosperio.com)

**QPSG**  
Tullamarine, VIC Australia  
[www.qpsg.com.au](http://www.qpsg.com.au)

**Summit Workforce Pty Ltd.**  
Drummoyne, New South Wales Australia

**TWUSUPER**  
Parramatta, New South Wales Australia  
[www.twusuper.com.au](http://www.twusuper.com.au)

**United Employment Group, Inc.**  
Allentown, PA United States  
[www.unitedemploymentgroup.com](http://www.unitedemploymentgroup.com)

## Insulated Materials (other than panels or roofing)

**APC Polycoat**  
New Delhi 58, India  
[www.polycoatusa.com](http://www.polycoatusa.com)

**Armadillo Noise & Vibration Limited**  
Shiptley, United Kingdom  
[www.armatherm.co.uk](http://www.armatherm.co.uk)

**ARMATHERM Thermal Bridging Solutions**  
Acushnet, MA United States  
[www.armatherm.com](http://www.armatherm.com)

**Avaska**  
Knoxville, TN United States  
[www.avaska.com](http://www.avaska.com)

**Covestro (India) Private Limited**  
Thane (West), Maharashtra India  
[www.covestro.in](http://www.covestro.in)

**Cryopak**  
Edison, NJ United States  
[www.cryopak.com](http://www.cryopak.com)

**CSI of Virginia, Inc.**  
Glen Allen, VA United States  
[www.csiinc.org](http://www.csiinc.org)

**Dow Building Solutions**  
Middlesex, United Kingdom  
[www.styrofoam.co.uk](http://www.styrofoam.co.uk)

**Duna USA**  
Baytown, TX United States  
[www.dunagroup.com/usa](http://www.dunagroup.com/usa)

**Dupont**  
New Delhi, India  
[www2.dupont.com/India\\_Country\\_Site/en\\_IN](http://www2.dupont.com/India_Country_Site/en_IN)

**DuPont Performance Building Solutions**  
Spring, TX United States  
[www.dupont.com/building.html](http://www.dupont.com/building.html)

**Elliott Company of Indianapolis Inc.**  
Indianapolis, IN United States  
[www.elliottfoam.com](http://www.elliottfoam.com)

**Falk Panel**  
Walker, MI United States  
[www.falkpanel.com](http://www.falkpanel.com)

**Fastener Systems, Inc.**  
West Chester, PA United States  
[www.fastenersystems.com](http://www.fastenersystems.com)

**Holden Installations Ltd.**  
Cork, Ireland  
[www.holden.ie](http://www.holden.ie)

**Honeywell International Inc.**  
Morris Plains, NJ United States  
[www.honeywell.com](http://www.honeywell.com)

**Industrial Cork Co, Inc.**  
Elmhurst, IL United States  
[www.corco.org](http://www.corco.org)

**Jindal Mectec Pvt. Ltd.**  
Narsinghpur, Gurgaon, India  
[www.jindalmectec.com](http://www.jindalmectec.com)

**Johns Manville**  
Fort Wayne, IN United States  
[www.jm.com](http://www.jm.com)

**Kingspan Insulated Panels Pty Ltd.**  
St Marys, New South Wales Australia  
[www.kingspanpanels.com.au](http://www.kingspanpanels.com.au)

**LTI Contracting**  
Phoenix, AZ United States  
[www.lticontracting.com](http://www.lticontracting.com)

**Meadowwood Enterprises, LLC**  
Ballground, GA United States  
[www.me-thermal.com](http://www.me-thermal.com)

**Metl-Fab, Inc.**  
Omaha, NE United States  
[www.metl-fab.com](http://www.metl-fab.com)

**Polyguard Products**  
Ennis, TX United States  
[www.polyguardproducts.com](http://www.polyguardproducts.com)

**Premseal**  
Scunthorpe, United Kingdom  
[www.premseal.co.uk](http://www.premseal.co.uk)

RHH Foam Systems Inc.  
New Berlin, WI United States  
[www.rhhfoamsystems.com](http://www.rhhfoamsystems.com)

Shadco Column Bearing Blocks  
Home, PA United States  
[www.shadco.com](http://www.shadco.com)

#### Insulated Panels

Advanced Insulation Concepts, Inc.  
Florence, KY United States  
[www.aicinsulate.com](http://www.aicinsulate.com)

All Weather Insulated Panels  
Vacaville, CA United States  
[www.awipanel.com](http://www.awipanel.com)

Alliance Industrial Refrigeration Services, Inc.  
Walnut, CA United States  
[www.therefrigerationalliance.com](http://www.therefrigerationalliance.com)

Anis Ahmed & Brothers  
Karachi, Pakistan  
[www.aabros.com.pk](http://www.aabros.com.pk)

ARMATHERM Thermal Bridging Solutions  
Acushnet, MA United States  
[www.armatherm.com](http://www.armatherm.com)

Askin Performance Panels  
South Melbourne, Victoria Australia  
[www.askin.net.au](http://www.askin.net.au)

Brucha Corp  
Denver, CO United States  
[www.brucha.com](http://www.brucha.com)

Controlled Environment Systems LLC  
Mansfield, MA United States  
[www.cesweb.com](http://www.cesweb.com)

CSI of Virginia, Inc.  
Glen Allen, VA United States  
[www.csiinc.org](http://www.csiinc.org)

CT-Technologies ApS  
Vedbaek, Denmark  
[www.ct-technologies.dk](http://www.ct-technologies.dk)

EMCO Panel System Ltd.  
Co. Kildare, Ireland  
[www.emco.ie](http://www.emco.ie)

Eurobond Laminates Ltd.  
Cardiff, United Kingdom  
[www.eurobond.co.uk](http://www.eurobond.co.uk)

Falk Panel  
Walker, MI United States  
[www.falkpanel.com](http://www.falkpanel.com)

GPL Construction (UK) Ltd.  
Norfolk, United Kingdom  
[www.gplconstruction.co.uk](http://www.gplconstruction.co.uk)

Green Span Profiles  
Waller, TX United States  
[www.greenspanprofiles.com](http://www.greenspanprofiles.com)

HBCL Coldstores Ltd.  
West Yorkshire, United Kingdom  
[www.hbclcoldstoresltd.co.uk](http://www.hbclcoldstoresltd.co.uk)

Hemsec Panel Technologies  
Merseyside, United Kingdom  
[www.hemsec.com](http://www.hemsec.com)

Heritage Hygienic Environments Ltd  
Wirral, United Kingdom  
[www.heritagehe.com](http://www.heritagehe.com)

HIL Installations Ltd.  
Merseyside, United Kingdom  
[www.hil-installations.com](http://www.hil-installations.com)

HLM India Pvt Ltd.  
Chakan, Pune, India

Holden Installations Ltd.  
Cork, Ireland  
[www.holden.ie](http://www.holden.ie)

Honeywell International Inc.  
Morris Plains, NJ United States  
[www.honeywell.com](http://www.honeywell.com)

ISD Solutions  
Gloucester Gloucestershire,  
United Kingdom  
[www.isd-solutions.co.uk](http://www.isd-solutions.co.uk)

Isocab by Kingspan  
Beveren-Leie, VWV Belgium  
[www.isocab.com](http://www.isocab.com)

ISOPAN SPA  
Verona, VR Italy  
[www.isopan.com](http://www.isopan.com)

IXL Co., Ltd.  
Bangkok 10250, Thailand  
[www.ixl.co.th](http://www.ixl.co.th)

Johns Manville  
Fort Wayne, IN United States  
[www.jm.com](http://www.jm.com)

Kingspan Insulated Panels  
Deland, FL United States  
[www.kingspanpanels.com](http://www.kingspanpanels.com)

Kingspan Insulated Panels PTY Ltd.,  
Africa  
Durban, KwaZulu-Natal South Africa  
[www.kingspanpanels.co.za](http://www.kingspanpanels.co.za)

Kingspan Insulated Panels Pty Ltd.  
St Marys, New South Wales Australia  
[www.kingspanpanels.com.au](http://www.kingspanpanels.com.au)

Kingspan Limited  
Flintshire, United Kingdom  
[www.kingspan.com](http://www.kingspan.com)

Kingspan North America  
Caledon, ON Canada  
[www.kingspanpanels.com](http://www.kingspanpanels.com)

KPS Global  
Fort Worth, TX United States  
[www.kpsglobal.com](http://www.kpsglobal.com)

LTI Contracting  
Phoenix, AZ United States  
[www.lticontracting.com](http://www.lticontracting.com)

Max Faith Engineers  
Delhi, India  
[www.maxfaithengineers.in](http://www.maxfaithengineers.in)

McVeigh Projects Ltd.  
Stalybridge, Cheshire, United Kingdom  
[www.mcveighprojects.com](http://www.mcveighprojects.com)

Meadowwood Enterprises, LLC  
Ballground, GA United States  
[www.me-thermal.com](http://www.me-thermal.com)

Mecalfab Ltd.  
Port of Spain, Trinidad And Tobago  
[www.mecalfab.com](http://www.mecalfab.com)

Metecno Chile  
Santiago, Chile  
[www.metecno.cl](http://www.metecno.cl)

Metecno Colombia  
Bogota, Colombia  
[www.metecnocolombia.com](http://www.metecnocolombia.com)

Metl-Fab, Inc.  
Omaha, NE United States  
[www.metl-fab.com](http://www.metl-fab.com)

Metl-Span  
Lewisville, TX United States  
[www.metlspan.com](http://www.metlspan.com)

Midwest Materials Company  
Joplin, MO United States  
[www.midwestmaterials.com](http://www.midwestmaterials.com)

Panel Tech  
Omaha, NE United States  
[www.paneltechmidwest.com](http://www.paneltechmidwest.com)

Perley-Halladay Associates Inc.  
West Chester, PA United States  
[www.perleyhalladay.com](http://www.perleyhalladay.com)

Primus Builders, Inc.  
Woodstock, GA United States  
[www.primusbuilders.com](http://www.primusbuilders.com)

R.A.Sneddon Ltd.  
Scotland, United Kingdom  
[www.rasneddon.com](http://www.rasneddon.com)

R-cold, Inc.  
Perris, CA United States  
[www.r-cold.com](http://www.r-cold.com)

Retracom Contracting  
Brown Plains, Queensland Australia  
[www.retracom.com.au](http://www.retracom.com.au)

RINAC India Limited  
Bangalore, India  
[www.rinac.com](http://www.rinac.com)

S & S Refrigeration Company  
Jersey City, NJ United States  
[www.ssrefrig.com](http://www.ssrefrig.com)

Sealand Building Group Inc.  
Bedford, NS Canada  
[www.sealandgroup.ca](http://www.sealandgroup.ca)

Senneca Holdings  
Cincinnati, OH United States  
[www.senneca.com](http://www.senneca.com)

Southern Thermal Solutions Inc.  
Mt. Crawford, VA United States

Stancold plc  
Bristol, BST United Kingdom  
[www.stancold.co.uk](http://www.stancold.co.uk)

TECNOPOL  
Monterrey, Nuevo Leon Mexico  
[www.tecnopol.mx](http://www.tecnopol.mx)

Thermal Construction Specialists  
Saint Paul, MN United States  
[www.tcsold.com](http://www.tcsold.com)

Thermal-Loc Panels  
Perris, CA United States  
[www.thermal-loc.com](http://www.thermal-loc.com)

Tracy Cold Storage Construction, Inc.  
Point Lookout, NY United States  
[www.tracycoldstorage.com](http://www.tracycoldstorage.com)

TrueCore  
Laurens, SC United States  
[www.truecorepanels.com](http://www.truecorepanels.com)

Warrior Roofing Inc.  
LeMars, IA United States

Zeppelin Mobile Systems India Ltd.  
Noida-201305, U.P., India  
[www.zeppelinindia.com](http://www.zeppelinindia.com)

#### Labeling

Beyond Print Inc.  
Omaha, NE United States  
[www.beyondprintomaha.com](http://www.beyondprintomaha.com)

## Legal or Insurance Services

### AB Phillips

Moorabbin, Victoria Australia  
[www.abphillips.com.au](http://www.abphillips.com.au)

**Delcossa Corretora De Seguros Ltda.**  
Sao Paulo, São Paulo Brazil

**Horvath & Weaver PC**  
Chicago, IL United States  
[www.horvathlaw.org](http://www.horvathlaw.org)

**Interbrok Corretores Inter Seguros Ltda.**  
São Paulo, São Paulo Brazil  
[www.interbrok.com.br](http://www.interbrok.com.br)

**Jackson Lewis P.C.**  
Reston, VA United States  
[www.jacksonlewis.com](http://www.jacksonlewis.com)

**Latus**  
Ascot Vale, Victoria Australia  
[www.latus.com.au](http://www.latus.com.au)

**LHL Attorneys**  
Illovo, Sandton, South Africa  
[www.lhlaw.co.za](http://www.lhlaw.co.za)

**Lockton Companies, LLC**  
Kansas City, MO United States  
[www.lockton.com](http://www.lockton.com)

**MetLife Food & Agribusiness Finance**  
Overland Park, KS United States  
[www.metlife.com/ag](http://www.metlife.com/ag)

**Scopelitis, Garvin, Light, Hanson & Feary**  
Indianapolis, IN United States  
[www.scopelitis.com](http://www.scopelitis.com)

## Lighting

**Couch Perry & Wilkes LLP**  
Birmingham, United Kingdom  
[www.cppw.com](http://www.cppw.com)

**Dalkia Energy Solutions, LLC**  
Beverly, MA United States  
[www.groomenergy.com](http://www.groomenergy.com)

**Gould Group**  
Westerville, OH United States  
[www.gouldgrp.com](http://www.gouldgrp.com)

**Holden Installations Ltd.**  
Cork, Ireland  
[www.holden.ie](http://www.holden.ie)

**KPS Global**  
Fort Worth, TX United States  
[www.kpsglobal.com](http://www.kpsglobal.com)

**MT Cold Storage Solutions Ltd**  
Leigh Sinton, WOR United Kingdom

**PowerSecure**  
Wake Forest, NC United States  
[www.powersecure.com](http://www.powersecure.com)

## Maintenance or Repair Services

**Ahern Fire Protection a division of J. F. Ahern Co.**  
Fond du Lac, WI United States  
[www.jfahern.com](http://www.jfahern.com)

**ALTA Refrigeration, Inc.**  
Peachtree City, GA United States  
[www.cold4u.com](http://www.cold4u.com)

**Anis Ahmed & Brothers**  
Karachi, Pakistan  
[www.aabros.com.pk](http://www.aabros.com.pk)

**Black Hawk Roof of Nebraska Inc.**  
Omaha, NE United States  
[www.blackhawkroofne.com](http://www.blackhawkroofne.com)

**Cold Clad Ltd.**  
Gloucestershire, United Kingdom  
[www.coldclad.com](http://www.coldclad.com)

**Controlled Environments Construction Inc.**  
Tustin, CA United States  
[www.controlledenvironments.com](http://www.controlledenvironments.com)

**Darren Edwards Construction & Maintenance LTD (DECM UK)**  
Buckden, St Neots, CAM United Kingdom  
[www.decmuk.com](http://www.decmuk.com)

**GPL Construction (UK) Ltd.**  
Norfolk, United Kingdom  
[www.gplconstruction.co.uk](http://www.gplconstruction.co.uk)

**Griffco Design/Build, Inc.**  
Kennesaw, GA United States  
[www.griffcodesignbuild.com](http://www.griffcodesignbuild.com)

**H.A. Davie Ltd.**  
Tyne & Wear, United Kingdom  
[www.hadavie.co.uk](http://www.hadavie.co.uk)

**Hansen-Rice, Inc.**  
Nampa, ID United States  
[www.hansen-rice.com](http://www.hansen-rice.com)

**HIL Installations Ltd.**  
Merseyside, United Kingdom  
[www.hil-installations.com](http://www.hil-installations.com)

**Holden Installations Ltd.**  
Cork, Ireland  
[www.holden.ie](http://www.holden.ie)

**ISD Solutions**  
Gloucester Gloucestershire, United Kingdom  
[www.isd-solutions.co.uk](http://www.isd-solutions.co.uk)

**JAX Refrigeration**  
Jacksonville Beach, FL United States  
[www.jaxrefrigeration.com](http://www.jaxrefrigeration.com)

**KPS Global**  
Fort Worth, TX United States  
[www.kpsglobal.com](http://www.kpsglobal.com)

**M&M Carnot Refrigeration Inc.**  
Federsburg, MD United States  
[www.mmrefrigeration.com](http://www.mmrefrigeration.com)

**Mac Rak Inc.**  
Lockport, IL United States  
[www.macrak.com](http://www.macrak.com)

**O'Connor Construction Group**  
Poolville, TX United States  
[www.ocgbuild.com](http://www.ocgbuild.com)

**Proform Thermal Systems, Inc.**  
North Branch, MN United States  
[www.proformthermal.com](http://www.proformthermal.com)

**Refrigeracion Linca SA de CV**  
Mexico, Mexico  
[www.refrigeracionlinca.com](http://www.refrigeracionlinca.com)

**Republic Refrigeration, Inc.**  
Monroe, NC United States  
[www.republicrefrigeration.com](http://www.republicrefrigeration.com)

**Stellar**  
Jacksonville, FL United States  
[www.stellar.net](http://www.stellar.net)

**Tracy Cold Storage Construction, Inc.**  
Point Lookout, NY United States  
[www.tracycoldstorage.com](http://www.tracycoldstorage.com)

## Material Handling Equipment

**Adapt-A-Lift Rentals & Sales (Vic)**  
Springvale, Victoria Australia  
[www.adapt-a-lift.com.au](http://www.adapt-a-lift.com.au)

**Advance Storage Products**  
Huntington Beach, CA United States  
[www.advancestorage.com](http://www.advancestorage.com)

**ALBA MFG, Inc.**  
Fairfield, OH United States  
[www.albamfg.com](http://www.albamfg.com)

**ANCRA Systems**  
Bingham Farms, MI United States  
[www.ancra.nl](http://www.ancra.nl)

**AutoMak Assembly, Inc.**  
Crown Point, IN United States  
[www.cladboyusa.com](http://www.cladboyusa.com)

**Cascade Australia Pty Ltd.**  
Rocklea, Queensland Australia  
[www.cascorp.com](http://www.cascorp.com)

**Cherry's Industrial Equipment Corp.**  
Roselle, IL United States  
[www.cherrysind.com](http://www.cherrysind.com)

**Crown Equipment Pty Ltd. (NSW)**  
Smithfield, New South Wales Australia  
[www.crown.com](http://www.crown.com)

**Dematic Corp.**  
Grand Rapids, MI United States  
[www.dematic.us](http://www.dematic.us)

**Dematic Pty Ltd.**  
Belrose, New South Wales Australia

**Frazier Industrial Company**  
Long Valley, NJ United States  
[www.frazier.com](http://www.frazier.com)

**Hyster-Yale Group**  
Milperra, New South Wales Australia

**KEITH Manufacturing Co**  
Madras, OR United States  
[www.keithwalkingfloor.com](http://www.keithwalkingfloor.com)

**Körber Supply Chain Automation GmbH**  
Leingarten, Germany  
[www.koerber-supplychain.com](http://www.koerber-supplychain.com)

**Körber Supply Chain, NA**  
Minneapolis, MN United States  
[www.koerber-supplychain.com](http://www.koerber-supplychain.com)

**Linde Material Handling**  
Huntingwood, New South Wales Australia  
[www.lindemh.com.au](http://www.lindemh.com.au)

**Loscam Limited**  
Box Hill, Victoria Australia

**LTW Intralogistics, Inc.**  
Emigsville, PA United States  
[www.LTWUSA.com](http://www.LTWUSA.com)

**Mac Rak Inc.**  
Lockport, IL United States  
[www.macrak.com](http://www.macrak.com)

**NORDOCK Inc.**  
Westerville, OH United States  
[www.nordockinc.com](http://www.nordockinc.com)

**NTP Forklifts**  
Huntingwood, New South Wales Australia  
[www.ntpforklifts.com.au](http://www.ntpforklifts.com.au)

**Rack Builders Inc.**  
Schaumburg, IL United States  
[www.rackbuildersinc.com](http://www.rackbuildersinc.com)

**Safetech Tieman Solutions 'STS'**  
Somerton, Victoria Australia  
[www.tieman.com.au](http://www.tieman.com.au)

**SSI Schaefer**  
Charlotte, NC United States  
[www.ssi-schaefer.us](http://www.ssi-schaefer.us)

**SSI Schaefer**  
Giebelstadt, Germany  
[www.ssi-schaefer.com](http://www.ssi-schaefer.com)

**Steel King Industries Inc.**  
Stevens Point, WI United States  
[www.steelking.com](http://www.steelking.com)

**Stoecklin Logistics, Inc.**  
Roswell, GA United States  
[www.stoecklin.com](http://www.stoecklin.com)

**Stow International NV**  
Spiere-Helkijn, Belgium  
[www.stow-group.com/en](http://www.stow-group.com/en)

**Swisslog**  
Newport News, VA United States  
[www.swisslog.com](http://www.swisslog.com)

**Swisslog Australia PTY Ltd.**  
Sydney Olympic Park, New South Wales Australia  
[www.swisslog.com](http://www.swisslog.com)

**TGW Systems, Inc.**  
Grand Rapids, MI United States  
[www.tgw-group.com](http://www.tgw-group.com)

**The Raymond Corporation**  
Greene, NY United States  
[www.raymondcorp.com](http://www.raymondcorp.com)

**Toyota Material Handling Australia**  
Moorebank, New South Wales Australia  
[www.toyotamaterialhandling.com.au](http://www.toyotamaterialhandling.com.au)

**Twinlode Automation**  
South Bend, IN United States  
[www.twinlodeautomation.com](http://www.twinlodeautomation.com)

**Viastore Systems, Inc.**  
Grand Rapids, MI United States  
[www.us.viastore.com](http://www.us.viastore.com)

**Wood's Powr-Grip Co., Inc.**  
Laurel, MT United States  
[www.wpg.com](http://www.wpg.com)

#### Other Products and Services

**ABAD Exports Private Limited**  
Kerala, India

**Albany Entrematic**  
Mundelein, IL United States  
[www.albanydoors.us](http://www.albanydoors.us)

**Apex**  
Visakhapatnam, India

**Cherry's Industrial Equipment Corp.**  
Roselle, IL United States  
[www.cherrysind.com](http://www.cherrysind.com)

**CipherLab Australia Pty Ltd.**  
Kings Park, Sydney New South Wales Australia  
[www.cipherlab.com.au](http://www.cipherlab.com.au)

**Danbee Investigations**  
Midland Park, NJ United States  
[www.danbeeinvestigations.com](http://www.danbeeinvestigations.com)

**Gamma Graphics Services (GGS)**  
Colorado Springs, CO United States  
[www.inspectpipe.com](http://www.inspectpipe.com)

**GMH Infrastructure Private Limited**  
New Delhi, Delhi India  
[www.gmhdomain.com](http://www.gmhdomain.com)

**Impelpro SCM Solutions Pvt. Ltd.**  
Thane, Maharashtra, India  
[www.impelpro.in](http://www.impelpro.in)

**M/S Svarn Telecom Ltd**  
Faridabad, Haryana, India  
[www.svsn.com](http://www.svsn.com)

**M/S Yamuna Industries Ltd.**  
Greater Noida, Uttar Pradesh India  
[www.coolmagic.in](http://www.coolmagic.in)

**Polyguard Products**  
Ennis, TX United States  
[www.polyguardproducts.com](http://www.polyguardproducts.com)

**Singhal Industries Pvt. Ltd.**  
Gandhinagar, Gujarat India  
[www.singhalgroup.in](http://www.singhalgroup.in)

**Tanner Industries Inc.**  
Southampton, PA United States  
[www.tannerind.com](http://www.tannerind.com)

**Valfilm Indústria de Embalagens**  
São Paulo, Brazil  
[www.valgroup.com.br/valfilm](http://www.valgroup.com.br/valfilm)

**Viking Cold Solutions, Inc.**  
Houston, TX United States  
[www.vikingcold.com](http://www.vikingcold.com)

#### Pallets

**Automha Americas Automation Corp**  
Oakville, ON Canada  
[www.automha.com](http://www.automha.com)

**CHEP Australia**  
North Ryde, New South Wales Australia  
[www.chep.com](http://www.chep.com)

**Cherry's Industrial Equipment Corp.**  
Roselle, IL United States  
[www.cherrysind.com](http://www.cherrysind.com)

**SSI Schaefer**  
Giebelstadt, Germany  
[www.ssi-schaefer.com](http://www.ssi-schaefer.com)

**Steel King Industries Inc.**  
Stevens Point, WI United States  
[www.steelking.com](http://www.steelking.com)

#### Racking

**Advance Storage Products**  
Huntington Beach, CA United States  
[www.advancestorage.com](http://www.advancestorage.com)

**Automha Americas Automation Corp**  
Oakville, ON Canada  
[www.automha.com](http://www.automha.com)

**Barpro Storage SA (Pty) Ltd.**  
Cape Town, Western Cape South Africa  
[www.barprostorage.co.za](http://www.barprostorage.co.za)

**Bertolini Sistemas De Armazenagem**  
Bairro Vila Nova, Rio Grande do Sul Brazil

**Better Storage Systems**  
Darra, Queensland Australia  
[www.betterstorage.com.au](http://www.betterstorage.com.au)

**FLEXSPACE**  
Charleston, SC United States  
[www.flexspace360.com](http://www.flexspace360.com)

**Frazier Industrial Company**  
Long Valley, NJ United States  
[www.frazier.com](http://www.frazier.com)

**Jungheinrich South Africa (Pty) Ltd.**  
Pomona AH, Kempton Park, South Africa  
[www.jungheinrich.co.za](http://www.jungheinrich.co.za)

**KPS Global**  
Fort Worth, TX United States  
[www.kpsglobal.com](http://www.kpsglobal.com)

**Mac Rak Inc.**  
Lockport, IL United States  
[www.macrak.com](http://www.macrak.com)

**Rabobank**  
Utrecht, Netherlands  
[www.far.rabobank.com](http://www.far.rabobank.com)

**Rack Builders Inc.**  
Schaumburg, IL United States  
[www.rackbuildersinc.com](http://www.rackbuildersinc.com)

**SSI Schaefer**  
Charlotte, NC United States  
[www.ssi-schaefer.us](http://www.ssi-schaefer.us)

**SSI Schaefer**  
Giebelstadt, Germany  
[www.ssi-schaefer.com](http://www.ssi-schaefer.com)

**Steel King Industries Inc.**  
Stevens Point, WI United States  
[www.steelking.com](http://www.steelking.com)

**Stoecklin Logistics, Inc.**  
Roswell, GA United States  
[www.stoecklin.com](http://www.stoecklin.com)

**Storax Racking Systems**  
Bromsgrove, United Kingdom  
[www.storaxsystems.com](http://www.storaxsystems.com)

**Stow International NV**  
Spiere-Helkijn, Belgium  
[www.stow-group.com/en](http://www.stow-group.com/en)

**Stow US Inc.**  
Naperville, IL United States  
[www.stow-group.com](http://www.stow-group.com)

**Viastore Systems, Inc.**  
Grand Rapids, MI United States  
[www.us.viastore.com](http://www.us.viastore.com)

#### Real Estate Services

**CBRE, Inc.**  
Los Angeles, CA United States  
[www.cbre.com/ffg](http://www.cbre.com/ffg)

**Cold Summit Development**  
Sun Valley, ID United States  
[www.coldsummit.com](http://www.coldsummit.com)

**Colliers International, Inc. - Bakersfield**  
Bakersfield, CA United States  
[www.colliers.com/bakersfield](http://www.colliers.com/bakersfield)

**Cushman & Wakefield of GA, Inc.**  
Atlanta, GA United States  
[www.cushwake.com](http://www.cushwake.com)

**Food Properties Group, Inc.**  
La Canada, CA United States  
[www.foodpropertiesgroup.com](http://www.foodpropertiesgroup.com)

**Fremont Realty Capital**  
San Francisco, CA United States  
[www.fremontgroup.com](http://www.fremontgroup.com)

**JG Petrucci Company**  
Asbury, NJ United States  
[www.jgpetrucci.com](http://www.jgpetrucci.com)

**Karis Cold Storage**  
Schaumburg, IL United States  
[www.kariscold.com](http://www.kariscold.com)

**KBH Group**  
North Fremantle, Western Australia Australia

**Lee & Associates**  
Rosemont, IL United States  
[www.lee-associates.com](http://www.lee-associates.com)

**Mortenson**  
Golden Valley, MN United States  
[www.mortenson.com](http://www.mortenson.com)

**NAI FrontPoint Partners**  
Luxembourg City, L Luxembourg  
[www.naifpp.com](http://www.naifpp.com)

**Ray White Commercial (QLD)**  
Brisbane, Queensland Australia  
[www.raywhite.com](http://www.raywhite.com)

**Ryan Companies US, Inc.**  
Minneapolis, MN United States  
[www.ryancompanies.com](http://www.ryancompanies.com)

**Stanker & Galetto Inc.**  
Vineland, NJ United States  
[www.stankergaletto.com](http://www.stankergaletto.com)

**SDAN - Societe de Developpement Axe Nord**  
Paris, France  
[www.axe-nord.com](http://www.axe-nord.com)

**Transwestern**  
Chicago, IL United States  
[www.Transwestern.com](http://www.Transwestern.com)

**Williams Industrial Group of Marcus & Millichap**  
San Diego, CA United States  
[www.marcusmillichap.com](http://www.marcusmillichap.com)

#### Reefer Trucks, Trailers or Containers

**Commercial Engineers & Body Builders Co. Ltd.**  
Jabalpur, India  
[www.cebbco.com](http://www.cebbco.com)

**Grupo Frio Integral**  
Santo Domingo, Dominican Republic  
[www.gfriointegral.com](http://www.gfriointegral.com)

**HLM India Pvt Ltd.**  
Chakan, Pune, India

**Thermo King do Brasil Ltda.**  
Barueri, São Paulo Brazil  
[www.thermoking.com.br/latin-america/br/pt.html](http://www.thermoking.com.br/latin-america/br/pt.html)

**Utility Trailer Manufacturing Co.**  
Scottsdale, AZ United States  
[www.utilitytrailer.com](http://www.utilitytrailer.com)

**Volvo Truck & Bus**  
Chullora, New South Wales Australia

#### Reefer Units

**AB Tehnic Profesional srl**  
Bucharest, Romania  
[www.abtehnic.ro](http://www.abtehnic.ro)

**Dawsongroup**  
Tongwell, MIK United Kingdom  
[www.dgglobal.org](http://www.dgglobal.org)

**Grupo Frio Integral**  
Santo Domingo, Dominican Republic  
[www.gfriointegral.com](http://www.gfriointegral.com)

#### Refrigeration Machinery

**AB Tehnic Profesional srl**  
Bucharest, Romania  
[www.abtehnic.ro](http://www.abtehnic.ro)

**Advanced Energy Control, Inc.**  
Randolph, WI United States  
[www.advancedenergycontrol.com](http://www.advancedenergycontrol.com)

**AIR Consulting Global Ltd.**  
Northern Ireland, United Kingdom  
[www.airconsulting.eu.com](http://www.airconsulting.eu.com)

**Aislamientos Constructivos, S.A. de C.V.**  
Monterrey, Nuevo Leon Mexico  
[www.grupoaislacon.com.mx](http://www.grupoaislacon.com.mx)

**ALTA Refrigeration, Inc.**  
Peachtree City, GA United States  
[www.cold4u.com](http://www.cold4u.com)

**Anis Ahmed & Brothers**  
Karachi, Pakistan  
[www.aabros.com.pk](http://www.aabros.com.pk)

**Baltimore Aircoil Company**  
Jessup, MD United States  
[www.baltimoreaircoil.com](http://www.baltimoreaircoil.com)

**BITZER U.S., Inc.**  
Flowery Branch, GA United States  
[www.bitzerus.com](http://www.bitzerus.com)

**Bridge Industrial Partners**  
Rosemont, IL United States  
[www.bridgedev.com](http://www.bridgedev.com)

**Carrier Air-Conditioning and Refrigeration Ltd.**  
Bangalore, Karnataka, India

**Carrier Commercial Refrigeration Europe**  
Culemborg, Netherlands  
[www.carrier.com/carrier/en/worldwide](http://www.carrier.com/carrier/en/worldwide)

**Cimco Refrigeration**  
Toronto, ON Canada  
[www.cimcorefrigeration.com](http://www.cimcorefrigeration.com)

**Colmac Coil Manufacturing Inc.**  
Colville, WA United States  
[www.colmaccoil.com](http://www.colmaccoil.com)

**CryoLogistics Refrigeration Technologies Ltd.**  
Victoria, BC Canada  
[www.cryologistics.ca](http://www.cryologistics.ca)

**Danfoss**  
Baltimore, MD United States  
[www.Danfoss.us](http://www.Danfoss.us)

**Dawsongroup**  
Tongwell, MIK United Kingdom  
[www.dgglobal.org](http://www.dgglobal.org)

**DD Cooling Ltd.**  
Preston, LAN United Kingdom  
[www.ddcooling.co.uk](http://www.ddcooling.co.uk)

**DGridEnergy, LLC**  
Potomac, MD United States  
[www.dgridenergy.com](http://www.dgridenergy.com)

**Evapco Inc.**  
Westminster, MD United States  
[www.evapco.com](http://www.evapco.com)

**Frascold USA**  
Jacksonville, FL United States

**Gartner Refrigeration Inc.**  
Minneapolis, MN United States  
[www.gartner-refrig.com](http://www.gartner-refrig.com)

**GEA Group Aktiengesellschaft**  
Düsseldorf, NW Germany  
[www.gea.com](http://www.gea.com)

**GEA Refrigeration Components Australia**  
Carrum Downs, Victoria Australia

**Gordon Brothers Industries Pty Ltd.**  
Victoria Park, Western Australia Australia

**Guntner U.S. LLC**  
Rolling Meadows, IL United States  
[www.guntnerus.com](http://www.guntnerus.com)

**H.A. Davie Ltd.**  
Tyne & Wear, United Kingdom  
[www.hadavie.co.uk](http://www.hadavie.co.uk)

**HB Products A/S**  
Hasselager, Denmark, Denmark  
[www.hbproducts.dk](http://www.hbproducts.dk)

**Heatcraft Refrigeration Products Div.**  
Stone Mountain, GA United States  
[www.heatcraftcpd.com](http://www.heatcraftcpd.com)

**Hill Phoenix**  
Conyers, GA United States  
[www.hillphoenix.com](http://www.hillphoenix.com)

**Innovative Refrigeration Systems, Inc.**  
Lyndhurst, VA United States  
[www.R717.net](http://www.R717.net)

**InspiraFarms**  
London, United Kingdom  
[www.inspirafarms.com](http://www.inspirafarms.com)

**InterCool USA LLC**  
Carrollton, TX United States  
[www.intercoolusa.com](http://www.intercoolusa.com)

**Klinge Corporation**  
York, PA United States  
[www.klingecorp.com](http://www.klingecorp.com)

**Logix Refrigeration Controls**  
Kirkland, WA United States  
[www.logix-controls.com](http://www.logix-controls.com)

**LUVATA**  
New Delhi, India  
[www.luvata.com](http://www.luvata.com)

**M&M Carnot Refrigeration Inc.**  
Federalsburg, MD United States  
[www.mmrefrigeration.com](http://www.mmrefrigeration.com)

**Mayekawa Australia**  
Matraville, New South Wales Australia  
[www.mayekawa.com.au](http://www.mayekawa.com.au)

**Mayekawa do Brasil e Equipamentos Industriais**  
São Paulo, Brazil  
[www.mayekawa.com.br](http://www.mayekawa.com.br)

**Mayekawa U.S.A., Inc.**  
Lebanon, TN United States  
[www.mayekawausa.com](http://www.mayekawausa.com)

**Mollenberg-Betz, Inc.**  
Buffalo, NY United States  
[www.mollenbergbetz.com](http://www.mollenbergbetz.com)

**MT Cold Storage Solutions Ltd.**  
Leigh Sinton, WOR United Kingdom

**NXTCOLD LLC**  
Los Angeles, CA United States  
[www.nxtcold.com](http://www.nxtcold.com)

**Officine Mario Dorin SPA**  
Fiesole, Firenze, Italy  
[www.dorin.com/en](http://www.dorin.com/en)

**Parker Hannifin Corporation**  
Broadview, IL United States  
[www.parker.com/refspec](http://www.parker.com/refspec)

**Patton Refrigeration**  
New Delhi, India  
[www.pattonrefrigeration.co.in](http://www.pattonrefrigeration.co.in)

**PED Consultants Ltd.**  
Armagh, United Kingdom  
[www.pedconsult.com](http://www.pedconsult.com)

**Quest/Therma-stor**  
Madison, WI United States  
[www.thermastor.com](http://www.thermastor.com)

**Rebound Technologies Inc.**  
Commerce City, CO United States  
[www.rebound-tech.com](http://www.rebound-tech.com)

**Republic Refrigeration, Inc.**  
Monroe, NC United States  
[www.republicrefrigeration.com](http://www.republicrefrigeration.com)

**RINAC India Limited**  
Bangalore, India  
[www.rinac.com](http://www.rinac.com)

**Scantec Refrigeration Technologies Pty Ltd**  
Murarrie, Brisbane Queensland Australia  
[www.scantec.com.au](http://www.scantec.com.au)

**S & S Refrigeration Company**  
Jersey City, NJ United States  
[www.ssrefrig.com](http://www.ssrefrig.com)

**Sistemas de Refrigeracion Totales SA de CV**  
Estado de Mexico, México Mexico  
[www.srtmexico.com.mx](http://www.srtmexico.com.mx)

**SPX Cooling Technologies, Inc.**  
Overland Park, KS United States  
[www.spxcooling.com](http://www.spxcooling.com)

**Super Radiator Coils**  
Richmond, VA United States  
[www.superradiatorcoils.com](http://www.superradiatorcoils.com)

**Termosoluciones, S.A.**  
Guatemala City, Guatemala  
[www.termosoluciones.com](http://www.termosoluciones.com)

**Therm Tech Refrigeracao Industrial**  
Caxias do Sul Estado, RS Brazil

**Tippmann Construction**  
Fort Wayne, IN United States  
[www.tippmanngroup.com](http://www.tippmanngroup.com)

**Tippmann Engineering (QuickFreeze)**  
Fort Wayne, IN United States  
[www.QuickFreeze.com](http://www.QuickFreeze.com)

**Tippmann Innovation**  
Fort Wayne, IN United States  
[www.ticold.com](http://www.ticold.com)

**Tolsma Techniek Emmeloord B.V.**  
8304 AT Emmeloord, Netherlands  
[www.tolsmagrisnich.com](http://www.tolsmagrisnich.com)

**Tri Tech Refrigeration Australia Pty**  
Wetherill Park, New South Wales Australia  
[www.trichaustrialia.com.au](http://www.trichaustrialia.com.au)

**Vilter Manufacturing LLC**  
Cudahy, WI United States  
[www.vilter.com](http://www.vilter.com)

**Voltas Limited**  
Mumbai, India  
[www.voltas.com](http://www.voltas.com)

#### Refrigeration Engineering Services and Support

**Adept Consulting Engineers**  
Greensborough, Victoria Australia  
[www.adeptcsce.com](http://www.adeptcsce.com)

**Alliance Industrial Refrigeration Services, Inc.**  
Walnut, CA United States  
[www.therefrigerationalliance.com](http://www.therefrigerationalliance.com)

**ARMATHERM Thermal Bridging Solutions**  
Acushnet, MA United States  
[www.armatherm.com](http://www.armatherm.com)

**Bonar Engineering & Construction Company**  
Jacksonville, FL United States  
[www.bonareng.com](http://www.bonareng.com)

**Bridge Industrial Partners**  
Rosemont, IL United States  
[www.bridgedev.com](http://www.bridgedev.com)

**Carrier Commercial Refrigeration Europe**  
Culemborg, Netherlands  
[www.carrier.com/carrier/en/worldwide](http://www.carrier.com/carrier/en/worldwide)

**Climate Changers Technology Solutions Pvt Ltd**  
Bangalore, Karnataka India  
[www.climatechangersindia.com](http://www.climatechangersindia.com)

**Dalkia Energy Solutions, LLC**  
Beverly, MA United States  
[www.groomenergy.com](http://www.groomenergy.com)

**DGridEnergy, LLC**  
Potomac, MD United States  
[www.dgridenergy.com](http://www.dgridenergy.com)

**Innovative Refrigeration Systems, Inc.**  
Lyndhurst, VA United States  
[www.R717.net](http://www.R717.net)

**International Coil Limited**  
New Delhi, India  
[www.icl-tech.com](http://www.icl-tech.com)

**ISG**  
Mankato, MN United States  
[www.isginc.com](http://www.isginc.com)

**JAX Refrigeration**  
Jacksonville Beach, FL United States  
[www.jaxrefrigeration.com](http://www.jaxrefrigeration.com)

**M&M Carnot Refrigeration Inc.**  
Federsburg, MD United States  
[www.mmrefrigeration.com](http://www.mmrefrigeration.com)

**M/S Svarn Telecom Ltd**  
Faridabad, Haryana, India  
[www.svarn.com](http://www.svarn.com)

**Mayekawa do Brasil e Equipamentos Industriais**  
São Paulo, Brazil  
[www.mayekawa.com.br](http://www.mayekawa.com.br)

**Mayekawa U.S.A., Inc.**  
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**NXTCOLD LLC**  
Los Angeles, CA United States  
[www.nxtcold.com](http://www.nxtcold.com)

**Primus Builders, Inc.**  
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[www.primusbuilders.com](http://www.primusbuilders.com)

**Rebound Technologies Inc.**  
Commerce City, CO United States  
[www.rebound-tech.com](http://www.rebound-tech.com)

**Republic Refrigeration, Inc.**  
Monroe, NC United States  
[www.republicrefrigeration.com](http://www.republicrefrigeration.com)

**Scantec Refrigeration Technologies Pty Ltd**  
Murarie, Brisbane Queensland Australia  
[www.scantec.com.au](http://www.scantec.com.au)

**SPX Cooling Technologies, Inc.**  
Overland Park, KS United States  
[www.spxcooling.com](http://www.spxcooling.com)

**Termosoluciones, S.A.**  
Guatemala City, Guatemala  
[www.termosoluciones.com](http://www.termosoluciones.com)

**Therma**  
San Francisco, CA United States  
[www.hellotherma.com](http://www.hellotherma.com)

**Thermal Technologies, Inc.**  
Blythewood, SC United States  
[www.thermaltechnologies.com](http://www.thermaltechnologies.com)

**VaCom Technologies**  
La Verne, CA United States  
[www.vacomtech.com](http://www.vacomtech.com)

**Viking Cold Solutions, Inc.**  
Houston, TX United States  
[www.vikingcold.com](http://www.vikingcold.com)

#### Roofing and Roofing Products

**All Weather Insulated Panels**  
Vacaville, CA United States  
[www.awipanel.com](http://www.awipanel.com)

**Black Hawk Roof of Nebraska Inc**  
Omaha, NE United States  
[www.blackhawkroofne.com](http://www.blackhawkroofne.com)

**GAF**  
Dallas, TX United States  
[www.gaf.com](http://www.gaf.com)

**Green Span Profiles**  
Waller, TX United States  
[www.greenspanprofiles.com](http://www.greenspanprofiles.com)

**Group4 Reps**  
Cedar Falls, IA United States

**Heritage Hygienic Environments Ltd.**  
Wirral, United Kingdom  
[www.heritagehe.com](http://www.heritagehe.com)

**HIL Installations Ltd**  
Merseyside, United Kingdom  
[www.hil-installations.com](http://www.hil-installations.com)

**O'Connor Construction Group**  
Poolville, TX United States  
[www.ocgbuild.com](http://www.ocgbuild.com)

**Royalty Roofing**  
Seymour, IN United States  
[www.royaltyroofing.com](http://www.royaltyroofing.com)

**Sun Commercial Roofs**  
Dallas, TX United States  
[www.suncorooofs.com](http://www.suncorooofs.com)

**Thermal Construction Specialists**  
Saint Paul, MN United States  
[www.tscold.com](http://www.tscold.com)

**Warrior Roofing Inc.**  
LeMars, IA United States

#### Solar/Alternative Energy Solutions

**DGridEnergy, LLC**  
Potomac, MD United States  
[www.dgridenergy.com](http://www.dgridenergy.com)

**Elgin HDB Refrigeração Ltda.**  
São José dos Campos, SP Brazil  
[www.elgin.com.br](http://www.elgin.com.br)

**EP Hvac&R (Pty) Ltd t/a Energy Partners Refrigeration**  
Centurion, Gauteng South Africa  
[www.energypartners.co.za](http://www.energypartners.co.za)

**Flow Power**  
Sydney, New South Wales Australia  
[www.flowpower.com.au](http://www.flowpower.com.au)

**Gould Group**  
Westerville, OH United States  
[www.gouldgrp.com](http://www.gouldgrp.com)

**GridBeyond**  
Watford, United Kingdom  
[www.girdbeyond.com](http://www.girdbeyond.com)

**GridMarket**  
New York, NY United States  
[www.gridmarket.com](http://www.gridmarket.com)

**IGS Energy**  
Dublin, OH United States  
[www.igs.com](http://www.igs.com)

**Madison Energy Investments**  
New York, NY United States  
[www.madisonei.com](http://www.madisonei.com)

**Industrial**  
Raleigh, NC United States  
[www.ndustrial.io](http://www.ndustrial.io)

**PED Consultants Ltd.**  
Armagh, United Kingdom  
[www.pedconsult.com](http://www.pedconsult.com)

**Stanker & Galetto Inc.**  
Vineland, NJ United States  
[www.stankergaletto.com](http://www.stankergaletto.com)

**SunPeak**  
Madison, WI United States  
[www.sunpeakpower.com](http://www.sunpeakpower.com)

**Testo Do Brazil**  
Campinas, São Paulo Brazil

**Viking Cold Solutions, Inc**  
Houston, TX United States  
[www.vikingcold.com](http://www.vikingcold.com)

## Thermal Envelope Services

**FK Construction Limited**  
Altrincham, United Kingdom  
[www.fkgroup.co.uk](http://www.fkgroup.co.uk)

**FREEZ Construction**  
Frisco, TX, TX United States  
[www.freezconstruction.com](http://www.freezconstruction.com)

**JAX Refrigeration**  
Jacksonville Beach, FL United States  
[www.jaxrefrigeration.com](http://www.jaxrefrigeration.com)

**Puga Thermal Services**  
Marietta, GA United States  
[www.pugathermalservices.com](http://www.pugathermalservices.com)

**Vapor Armour**  
Clackamas, OR United States  
[www.vaporarmour.com](http://www.vaporarmour.com)

## Tracking & Monitoring Equipment or Services

**Airspace Technologies Inc.**  
Carlsbad, CA United States  
[www.airspace.com](http://www.airspace.com)

**Controlant**  
Kopavogur, Iceland  
[www.controlant.com](http://www.controlant.com)

**CryoLogistics Refrigeration Technologies Ltd.**  
Victoria, BC Canada  
[www.cryologistics.ca](http://www.cryologistics.ca)

**Cryopak**  
Edison, NJ United States  
[www.cryopak.com](http://www.cryopak.com)

**Elitech Technology, Inc.**  
Milpitas, CA United States  
[www.elitechus.com](http://www.elitechus.com)

**Emerson Cargo Solutions**  
Boise, ID United States  
[www.paksense.com](http://www.paksense.com)

**Integron**  
Rochester, NY United States  
[www.integron.com](http://www.integron.com)

**Sensitech Inc.**  
Beverly, MA United States  
[www.sensitech.com](http://www.sensitech.com)

**SGS North America Inc.**  
Rutherford, NJ United States  
[www.sgs.com](http://www.sgs.com)

**Sunlight Batteries USA, Inc.**  
Greensboro, NC United States  
[www.systems-sunlight.com](http://www.systems-sunlight.com)

**Systems, LLC**  
Germantown, WI United States  
[www.docksystemsinc.com](http://www.docksystemsinc.com)

**Therma**  
San Francisco, CA United States  
[www.hellotherma.com](http://www.hellotherma.com)

**Tive**  
Bondi Junction, New South Wales Australia  
[www.tive.co](http://www.tive.co)

**Transparent Path spc**  
Seattle, WA United States  
[www.xparent.io](http://www.xparent.io)

## Valves or Refrigeration Equipment Parts

**BITZER U.S., Inc.**  
Flowery Branch, GA United States  
[www.bitzerus.com](http://www.bitzerus.com)

**Cimco Refrigeration**  
Toronto, ON Canada  
[www.cimcorefrigeration.com](http://www.cimcorefrigeration.com)

**Danfoss**  
Baltimore, MD United States  
[www.Danfoss.us](http://www.Danfoss.us)

**Evapco Inc.**  
Westminster, MD United States  
[www.evapco.com](http://www.evapco.com)

**HB Products A/S**  
Hasselager, Danmark, Denmark  
[www.hbproducts.dk](http://www.hbproducts.dk)

**Mollenberg-Betz, Inc.**  
Buffalo, NY United States  
[www.mollenbergbetz.com](http://www.mollenbergbetz.com)

**Parker Hannifin Corporation**  
Broadview, IL United States  
[www.parker.com/refspec](http://www.parker.com/refspec)

**Republic Refrigeration, Inc.**  
Monroe, NC United States  
[www.republicrefrigeration.com](http://www.republicrefrigeration.com)

**Saarthak Refrigeration**  
Delhi, India  
[www.coltfreeze.com](http://www.coltfreeze.com)

**Sant Industrial Control Pvt. Ltd.**  
New Delhi, India  
[www.sant.co.in](http://www.sant.co.in)

## WMS and TMS Products and Support

**Argent Productivity Optimization Solutions**  
La Habra, CA United States  
[www.argentconsulting.com](http://www.argentconsulting.com)

**Assist Assessoria De Sistemas**  
Campinas, São Paulo Brazil  
[www.assistsoftware.com.br](http://www.assistsoftware.com.br)

**Bayer Material Science Pvt. Ltd.**  
Greater Noida, India  
[www.bay-systems.com](http://www.bay-systems.com)

**Boltrics**  
Ede, GE Netherlands  
[www.boltrics.nl](http://www.boltrics.nl)

**Camelot 3PL Software**  
Charlotte, NC United States  
[www.3PLsoftware.com](http://www.3PLsoftware.com)

**Datex Corporation**  
Clearwater, FL United States  
[www.datexcorp.com](http://www.datexcorp.com)

**Dematic Corp.**  
Grand Rapids, MI United States  
[www.dematic.us](http://www.dematic.us)

**Integron**  
Rochester, NY United States  
[www.integron.com](http://www.integron.com)

**Kaup Australia**  
Narangba, Queensland Australia  
[www.kaup.com](http://www.kaup.com)

**Körber Supply Chain Automation GmbH**  
Leingarten, Germany  
[www.koerber-supplychain.com](http://www.koerber-supplychain.com)

**Körber Supply Chain, NA**  
Minneapolis, MN United States  
[www.koerber-supplychain.com](http://www.koerber-supplychain.com)

**Lisa Line Life Science Technologies Pvt., Ltd.**  
Mumbai, India  
[www.lisalinea.com](http://www.lisalinea.com)

**Mantis Informatics**  
Grand Haven, MI United States  
[www.mantis.group/index.html](http://www.mantis.group/index.html)

**Maves International Software Corp.**  
Richmond Hill, ON Canada  
[www.maves.com](http://www.maves.com)

**Microlistics Warehouse Management Systems**  
Schaumburg, IL United States  
[www.microlistics.com](http://www.microlistics.com)

**ndustrial**  
Raleigh, NC United States  
[www.ndustrial.io](http://www.ndustrial.io)

**Ramp Systems, Inc.**  
Philadelphia, PA United States  
[www.rampsystems.com](http://www.rampsystems.com)

**Royal 4 Systems, Inc.**  
Long Beach, CA United States  
[www.royal4.com](http://www.royal4.com)

**SSI Schaefer**  
Charlotte, NC United States  
[www.ssi-schaefer.us](http://www.ssi-schaefer.us)

**Stoeklin Logistics, Inc.**  
Roswell, GA United States  
[www.stoeklin.com](http://www.stoeklin.com)

**Viastore Systems, Inc.**  
Grand Rapids, MI United States  
[www.us.viastore.com](http://www.us.viastore.com)



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