

FEBRUARY 2019

SAFETYZONE MAGAZINE

Pallet Flow Rack Can Be Warehouse Manager's Best Friend

Complying with the
EPA's Hazardous
Waste Generator
Improvements
Final Rule





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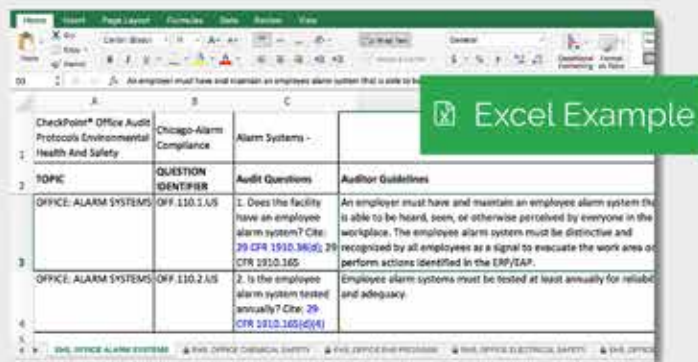
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OFFICE ALARM SYSTEMS	OFF.110.2.US	2. Is the employee alarm system tested annually? Cite: 29 CFR 1910.165(d)(4)	Employee alarm systems must be tested at least annually for reliability and adequacy.

G. AUDIT QUESTIONS

Date: _____
Facility: _____
Auditor: _____

Question ID	Audit Questions	Auditor Guidance And Notes-Audit Questions	Y E S	N O	N A	Comments
ERGONOMICS OFF.140.1.US	1. Are workstations configured so that employees can achieve ergonomically correct working postures?	Workstations should be configured to prevent common ergonomic problems. The computer keyboard and mouse should be within easy reach and at a comfortable height (elbow high), the keyboard and monitor should be aligned, and the screen should be at or slightly below eye level. There knee c under				
OFF.140.2.US	2. Are chairs used at workstations adjustable and in good condition?	Chairs so that employees can work in a comfortable seated position, with good body support. Chair height should allow feet to rest flat on the ground with thighs parallel to the				

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Pallet Flow Rack Can Be Warehouse Manager's Best Friend



When properly designed to meet the specific inventory and storage requirements, pallet flow racks maximize storage space and improve shipping logistics

Any warehouse or distribution center with limited floor space that needs high density storage or automatic rotation of inventory on a first-in, first-out (FIFO) basis can benefit by implementing pallet flow storage racks.

However, achieving the full performance capabilities of this type of rack system requires careful planning and implementation. When this is done properly, pallet flow systems can be the warehouse manager's best friend; without it, the system may underperform expectations.

Simply defined, this type of racking system is designed so that when the pallet in front is removed by a forklift, the pallets behind gently "flow" forward to replace it. Inclined tracks, rollers, and brakes – with an assist from gravity – are used to accomplish this task.

New inventory is then loaded at the back end of the rack, facilitating FIFO product rotation, which is particularly valuable for items with expiration dates.

In this type of "dynamic" racking approach, goods can be stored 3, 10, even 20 pallets deep and on multiple levels. This eliminates the need for wide aisles between every row of traditional "static" rack required for forklift access and maneuverability.

By storing more palletized goods in less space, facility managers can dramatically increase the amount of inventory in a specific warehouse footprint or, on the flip side, reduce the amount of space required for new warehouse construction.

"Compared to traditional fixed racking, a high

density pallet flow system can essentially cut the required square footage for a warehouse in half," says Ryan Wachsmuth, Dynamic Storage Sales Manager at Steel King Industries (www.steelking.com), a designer and manufacturer of warehouse material handling, storage and safety products with a national dealer network. "The savings can be significant in terms of reduced property and building costs."

There are substantial logistical benefits to using a dynamic rack system as well.

Pallet flow rack can drastically reduce the labor required to pick pallets, because a forklift is only needed for initial loading of the pallets as well as final unloading. With static racks, forklifts must travel further down aisles and often must spend time rearranging inventory to access the correct items.

When a large number of pallets with a single product SKU are routinely loaded into trucks, locating the pallet flow rack near the loading dock can also minimize the distance that forklifts travel to as little as 20 feet each way, which speeds material handling.

Even pallets with varied SKUs that are being shipped to the same location can be located near each other to further speed truck loading.

Designing to Meet Specific Requirements

Although the concept of a pallet flow rack may seem straightforward, installing a system that optimally meets a specific warehouse's requirements takes some planning and collaboration with the vendor.



“Many people think you can take pallet flow rack off the shelf and ship it out the door,” says Wachsmuth. “But, it must be designed to accommodate your specific requirements: pallet types, pallet weights, forklift capacity, facility layout and any other restrictions.”

According to Wachsmuth, some racking distributors are willing to supply a price quote without fully understanding the requirements of the application.

“Not every vendor asks questions to find out what the user needs,” says Wachsmuth.

The process ideally begins by understanding the facility’s dimensions, obstructions, types of

inventory and forklifts, as well as truck loading and shipping requirements.

“It is vital to build the flow rack to take advantage of your warehouse’s full height, width, depth, and floor plan,” says Wachsmuth. “Obstructions like low ceilings or the location of sprinklers, building columns, doors, lights, and vents must be built around.”

It is also important to consider the brand, lift height, and weight capacity of the forklifts used at the facility. In general, a forklift’s lift and push/pull capabilities diminish the higher it raises a pallet.

“A forklift can cost as much as \$100,000,” says Wachsmuth. “So you want to be sure your new

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pallet flow racks work with the ones you have, or you could have to acquire new forklifts.”

In terms of tailoring a pallet flow system to an application, it is necessary to plan for efficient flow storage, loading/unloading, and transport.

“Forklift travel distance can be minimized with proper pallet flow planning,” says Wachsmuth. “You don’t have to travel hundreds of feet to pick a pallet. If you install it the pallet flow rack in the ideal location, you may only have to travel twenty feet to pick a pallet. When you return, the next pallet is waiting. This minimizes labor as well as



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speeds loading and unloading.”

Similar planning should be applied to storage depth. Just because the system can be designed 20 pallets deep, doesn’t mean it should be. Instead, it should be designed and grouped to simplify loading/unloading, as well as optimal product rotation.

Even some aspects that might seem like smaller details, such as the type of pallet, are important because they affect how pallets “flow” in the system.

“There are too many types of pallets with different dimensions today and it could affect the type, and cost, of the pallet flow rack required,” says Wachsmuth.

“So, it’s not enough to design on the assumption that a standard 40” or 48” pallet will be used. If the actual pallet has different dimensions, it could increase costs significantly.”

With all the aspects that must be considered to get the best results from your flow rack, Wachsmuth adds that it can be helpful to work with a vendor that provides one point of contact for planning, coordination, answering questions, troubleshooting, and resolving any issues. This is far simpler than interacting with a separate pallet flow manufacturer, rack manufacturer, as well as dealer and installer.

“Given sufficient planning and coordination, pallet flow rack can be one of the most space efficient and cost effective forms of material handling for warehouses and distributors,” concludes Wachsmuth.

For more information, contact Ryan Wachsmuth at Steel King, 2700 Chamber St., Stevens Point, WI 54481; call 800-826-0203; email: rwachsmuth@steelking.com or visit the website www.steelking.com.

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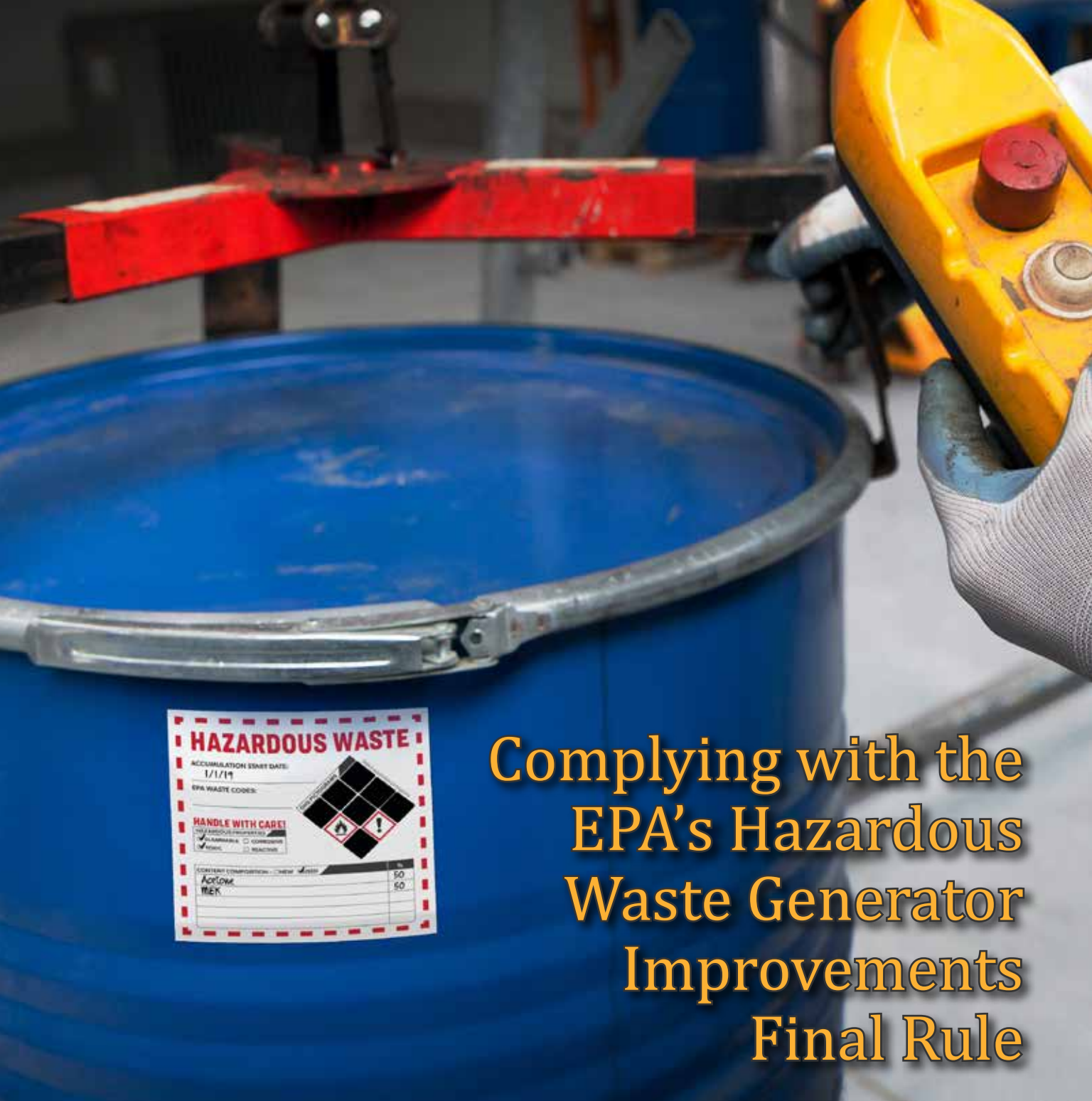


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Complying with the EPA's Hazardous Waste Generator Improvements Final Rule

Generators must indicate the hazards of hazardous contents, but have flexibility in doing so

To enhance safety and environmental protection, the EPA's Hazardous Waste Generator Improvements Final Rule, which became effective federally last year, requires identification including the words "Hazardous Waste," a description of the container's hazards, and the date the accumulation started on each container.

Previous Resource Conservation and Recovery Act (RCRA) program labeling regulations did not require



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waste generators to identify the hazards of waste accumulated in containers, tanks, drip pads and containment buildings. This resulted in a failure to communicate risks associated with wastes being accumulated or stored in different locations, which could put workers, waste handlers, emergency responders and visitors at serious risk.

To resolve this issue, the Final Rule stipulates that container and tank labels must now indicate the hazards of such containers' contents in numerous affected areas. These include areas for waste generator satellite or central accumulation; transfer facilities consolidating hazardous wastes from different generators; and generator container/tank storage areas at treatment, storage, and disposal facilities.

Fortunately, the Final Rule allows ample flexibility in how to comply with this new provision.

For drip pad and containment buildings, the generator can keep this information in logs or records near the accumulation unit.

Waste generators can indicate the hazards of the container's contents using any of several established methods such as DOT hazard communication, OSHA hazard statement or pictogram, NFPA chemical hazard label, or RCRA characteristic.

Examples of how to indicate the hazards include (but are not limited to):

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- The words of the applicable hazardous waste characteristic(s) (i.e., ignitable, corrosive, reactive, toxic);
- Hazard communication consistent with the DOT requirements at 49 CFR part 172 subpart E (labeling) or subpart F (placarding);
- A hazard statement or pictogram consistent with the OSHA Hazard Communication Standard at 29 CFR section 1910.1200
- A chemical hazard label consistent with the NFPA code 704.

According to the EPA, the Final Rule provides waste generators some economic and environmental benefits. For example, it provides flexibility to very small quantity generators (VSQGs) that generate 100

kilograms or less of hazardous waste per month to ship their waste to a large quantity generator (LQG) under the control of the same company.

The Final Rule also addresses episodic generation of hazardous waste. This occurs when a non-routine event, such as a product recall, results in a smaller generator – a VSQG or small quantity generator (SQG) – generating an atypical amount of hazardous waste in one month, triggering more stringent generator regulations. Under the Final Rule, a generator can maintain its usual generator category during a non-routine event and avoid the increased requirements of a higher generator status.

The RCRA waste codes must be placed on the containers before shipping hazardous waste off site to a RCRA permitted treatment, storage and disposal

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facility, but do not need to be applied before that time.

An electronic system, such as a bar code system, is acceptable as long as the RCRA waste code(s) are tied to the specific container.

States not authorized for the RCRA program like Alaska and Iowa are currently required to comply. RCRA authorized states will be required to adopt the more stringent portions of this final rule by July 1, 2018. If a state law must be changed for adoption then the deadline is July 1, 2019.

Labeling Options for EPA Hazardous Waste Generator Compliance

While indicating the hazards of the container's contents in various permissible ways, hazardous waste

generator labels must also be very durable and remain attached to the container.

So when it comes to printing EPA Hazardous Waste Generator compliant labels, one of the easiest ways to become compliant is for companies to use their existing printers along with appropriate printing software.

For the many chemical manufacturers, distributors, and end users that are already complying with Globally Harmonized System" (GHS) labels for OSHA, this means using GHS labels along with software that utilizes new hazardous waste specific templates.

As an example, companies can use UltraDuty GHS Labels by Avery, a leading label brand in the industrial and office markets. Unlike typical labels, these GHS

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Five Easy Steps to Successful Machine Guarding!



Identify the Hazards

Not all hazards are created equal. Nor are the solutions for guarding them. Keep in mind the basic principle: Over, Under, Around or Through. If any body part is capable of reaching a moving component by those means, it must be guarded. The example to the left shows an exposed rotating shaft and a fan that present a hazard to employees.



Scanning & Measurements

Set up an appointment with Guard-Safe Guarding to visit your facility and review your goals and primary objectives regarding your hazards. GSG will perform their own safety assessment to assist you in this process. GSG will photograph and measure the application. Some applications may require Laser Scanning to capture interferences and assist us in the design stage. The shaft/fan hazard from above was scanned by GSG, as shown here.

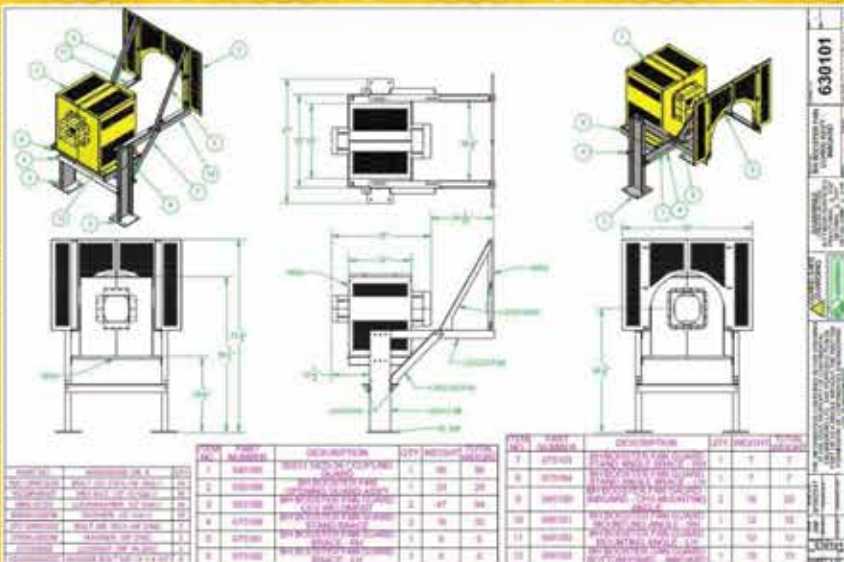


Designing your Guards

Upon processing the Laser Scan, GSG utilizes 3D CAD software to model the new guards and supporting structures. For simpler applications, the model is created based upon site measurements. A 3D CAD image is created and shared with our clients. The client is then able to visualize the final product, ask questions, and provide feedback regarding accessibility, or other concerns.

Engineering Drawings

Upon approval from the client of the initial concept model from above, GSG proceeds to create complete fabrication, arrangement and installation drawings. The drawings are once again submitted to the client for final approval prior to fabrication and shipment. O&M Manuals & drawings are provided for the client in electronic pdf format and paper format.



Installation

Guard-Safe Guarding powder coats all guards Safety Yellow. GSG preassembles the parts prior to shipping to ensure proper fit and delivers the guards assembled as much as possible to save time at installation. All guards are carefully packaged and shipped in a wooden box. It is recommended that a GSG technician be present during the installation process. All guards must be mounted rigid and secure.



At Guard-Safe Guarding we know that you care about your employees. We understand that guarding your equipment is not a simple or glamorous proposition. Guard-Safe Guarding is well prepared to answer your guarding questions. Typical concerns we hear are from Safety Managers looking for guidance, Maintenance personnel wanting easy access & removal of protective barriers, and from operators wanting to work safely, yet unencumbered. We have heard and addressed all of your concerns with our innovative and time saving products.

Please visit our website at www.guardsafeguarding.com call **712-754-4838** or email sales@guardsafeguarding.com to learn more about our custom engineered guarding process and our standard offerings including: Coupling Guards, Barrier Guarding, Idler Guards, V-Belt Guards and much more!





Established in 1932 in Detroit, Michigan, by the grandfather of the company, Jesco Industries Inc. has grown to become one of the leading manufacturers of material handling equipment. We serve our customers very well by offering a wide variety of products which may be used from the processing department through the shipping department. A Woman Owned Small Business is WBE Certified.



current owner,
features of materi-
a wide variety
ugh to the ship-
ertified.

JESCOHUSKYDUMPERS® available in over 60 different sizes and maintain stock of standard sizes over 800 standard units of self dumping hoppers (2000#, 4000# and 6000# capacities). We offer several large volume self dumping hoppers in 6 cubic, 8 cubic and 10 cubic yard 6,000-10,000 capacity. Special applications deserve a specially designed unit. After many customers inquiring about a controlled dump or hydraulic unit, we decided to engineer and add several different hydraulic units to the product line.

JESCOHYDRATILT™ Dumpers which are available in 4000# capacity in .50, .75, 1, 1.5, and 2 cubic yard. The units are operator controlled with the hydraulic system of your forklift and used while seated on the lift. These new units are ideal when controlling the speed of discharging material is critical. The quick-disconnect lines are included on each of the units and a safety retaining chain. To fill out the line even more we have included ten different sizes of our Filter Press Hopper. Then along came the 90 degree Side Pivot Hopper and Low Profile Portable Hoppers with casters already installed.

Wire Mesh Partitions: 2"x1" rectangular mesh 10 gauge wire welded into an angle frame system is easy to use and easy to install. Ideal for around your automation enclosures, prevent your valuable tools from walking away from the tool crib, and quality control on non-conforming material, computer rooms, high security storage and so many more uses. JescoPalletGards® are wire containment backs for the pallet racks with stand-off clips (1.25, 4, 6 or 8 inch) design to fit most standard drilled pallet racks spaced two inch on center. Double hinge doors or double slide doors is an excellent way to secure high value products on the shelves.

1-1/2" Diamond mesh 10 gauge wire partition system are engineered for easy installation allowing unrestricted visibility and total air circulation. Inventory of standard height panels of 7, 8 or 10 high are available; but don't stop there because many industries require partitions to reach the trusses or building joists and that certainly can be accomplished. If you are installing partition on a raised platform (mezzanine) remember this requires zero or "no" sweep to keep everyone safe walking below. This is to prevent tools from dropping from the edge of the platform. (OSHA 1910.23(e)(4) Either partition system will work well but the more project information you are able to supply, the more knowledgeable we all become and it is truly amazing how that works!

The JESCOGARD® industrial guard rail 3-rib corrugation system will act as both a visual and physical barrier around your facility. The Economy Rail System is a 2-rib system and has been tested to withstand an impact of 10,000# traveling 4-mph. Should the need arise you can count on its strength without compromising quality at a price you can afford. Each system has available a self-closing single hinge gate with a sound dampening gasket on the gate.

Industrial shelf carts, platform trucks die storage racks and material handling trucks are built tough to move raw stock, cartons or finished materials in your plant for many years to come. Special carts are no issue just let us know what you need.

JESCOHUSKYDUMPERS®, wire partition systems, industrial guard rail systems, wire tenant storage lockers, industrial shelf carts, LP cylinder cabinets, machine guarding just to name a small portion of the products we offer to our customers. Our products are built to be the best in the industry and it is the reason customers keep coming back. Your satisfaction for a project well done is what really counts when the day comes to a close. We look forward for an opportunity to be able to assist your next industrial guarding or material handling requirements. Check out the full product line shown on the website at www.jescoOnline.com

"From the simplest to the complex, Jesco does it best!"

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