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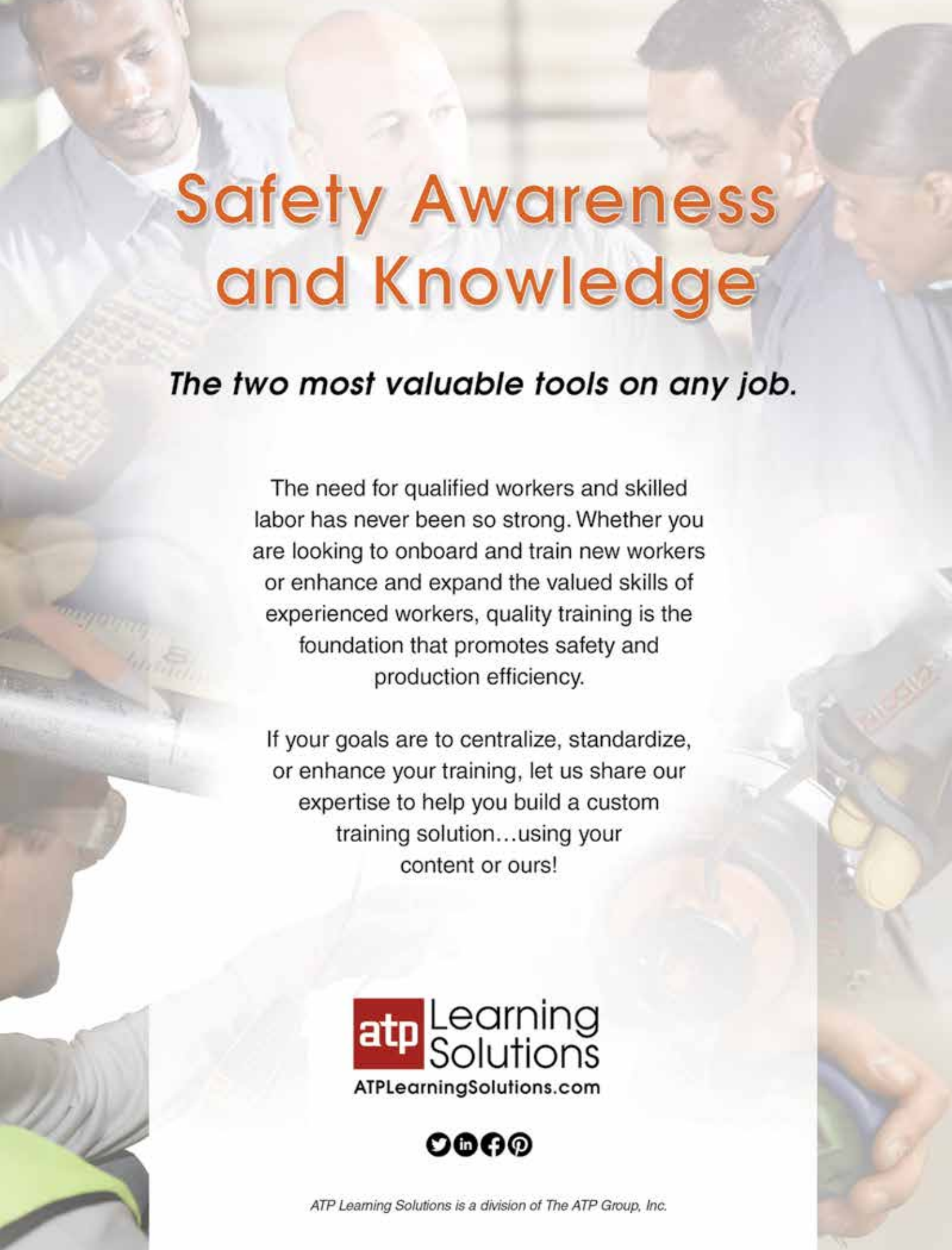
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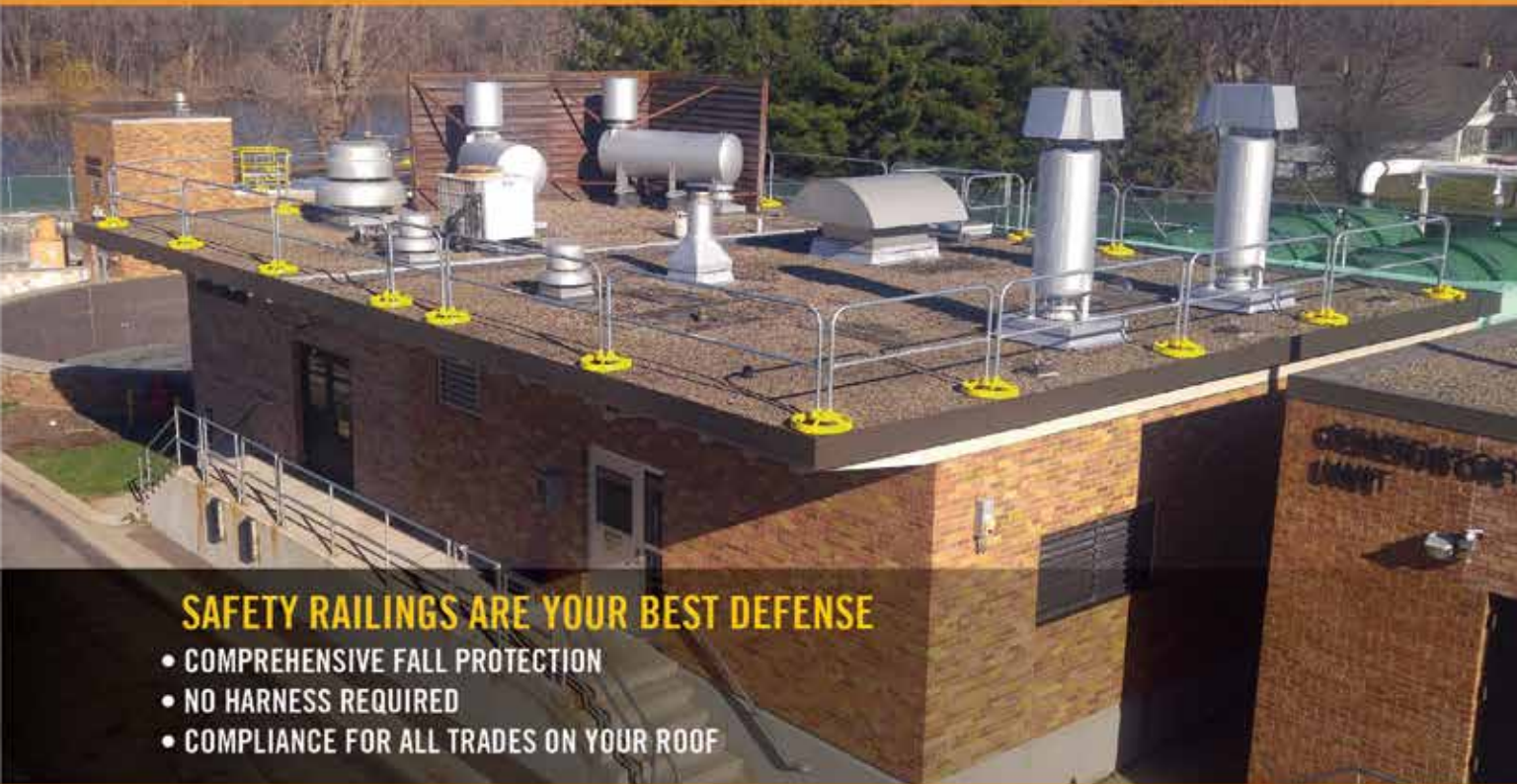


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For more information, visit www.kleintools.com/new-products or search for #NewKleins on social media.

About Klein Tools

Since 1857 Klein Tools, a family-owned and operated company, has been designing, developing and manufacturing premium-quality, professional-grade hand tools. The majority of Klein tools are manufactured in plants throughout the United States and are the No. 1 choice among professional electricians and other tradespeople. For more information, visit www.kleintools.com.

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Reopening Strategies Drive Need for Safe Refilling Solutions for Sanitizers and Disinfectants

As demand for disinfectant and hand sanitizer surges, properly engineered refilling stations with pumps capable of safely transferring flammable materials should be utilized

As major segments of the economy attempt to formulate and implement effective re-opening strategies that meet State guidelines, many are forced to make critical decisions regarding mandating masks, enforcing social distancing and improving cleaning and disinfecting procedures.

Although individual strategies for hotels, gyms, restaurants, bars, retailers, casinos, entertainment venues and corporate offices may differ, re-opening guidelines usually have common, overlapping elements. Temperature checks for patrons and/or employees and better air filtration are good examples. But at the heart of seemingly every list is a dramatic increase in the frequency and thoroughness in cleaning common area surfaces, along with providing a readily available supply of hand sanitizer for employees and patrons.

Given the accelerated cleaning efforts, many businesses are opting to procure disinfectants and hand sanitizer in bulk. However, distributing such products from 275-gallon totes, barrels, drums and even single gallon sized bottles requires transferring or “down packing” to smaller containers or dispensers.

It also means that workers responsible for transferring such products – most of which are identified as potentially flammable or combustible substances – must do so at a dramatically higher rate and frequency. This could lead to a corresponding spike in the number of spills, worker injuries, catastrophic fires and even explosions that occur.

So, to safely handle the spike in demand and facilitate down packing, businesses have been increasingly installing properly engineered refill stations using groundable, sealed pumps systems that will allow employees to reliably and safely transfer from bulk containers to smaller containers.

EPA Eases Restrictions on Disinfectants

Coronaviruses like COVID-19 are enveloped viruses (a virus with an outer wrapping or envelope) they are one of the easiest types of viruses to kill with the appropriate disinfectant product. So, in the early stages of the pandemic, the U.S. Environmental

Protection Agency (EPA) acted quickly to release a list of disinfectants that could be utilized to combat SARS-CoV-2 (EPA's List N: Disinfectants for Use Against SARS-CoV-2.)

Shortly thereafter, the EPA made announcements that included temporarily allowing manufacturers of the List N disinfectants to obtain certain active ingredients from any source of suppliers without checking with the agency first. In addition, the EPA loosened the restrictions on refilling small containers from larger bulk containers.

However, the problem is that traditional practices of transferring liquid chemicals, including sanitizers and disinfectants on the EPA List N, suffer from a number of drawbacks. To start, common manual techniques, such as the tip-and-pour method, can cause spills and injuries to employees. Tipping heavy barrels or drums can lead to overpouring, but also toppling, so the probability of a spill is high.

The bar for safe transfer is even higher for many alcohol-based sanitizers and chemical-based disinfectants, which can pose issues of flammability or combustibility. In a flammable liquids fire, it is the vapors from the liquid that ignite, not the liquid. Fires and explosions are caused when the perfect combination of fuel and oxygen come in contact with heat or an ignition source. Based on their flash points, that being the lowest temperature at which liquids can form an ignitable mixture in air, flammable liquids are classified as either combustible or flammable.

Both combustible and flammable liquids can easily be ignited by a flame, hot surface, static electricity, or a spark generated by electricity or mechanical work.

Consequently, minimizing the dangers of handling flammable and combustible liquid chemicals,

including some sanitizers and disinfectants, requires proper training and equipment.

Safe Handling

Without proper ventilation, the handling of flammable substances has a good chance to create an explosive atmosphere. So, it is essential to work only in well-ventilated areas or have a local ventilation system that can sufficiently remove any flammable vapors to prevent an explosion risk.

Because two of the three primary elements for a fire or explosion usually exist in the atmosphere inside a vessel containing a flammable liquid (fuel and an oxidant, usually oxygen), it is also critical to eliminate external ignition sources when handling such liquids. Sources of ignition can include static discharge, open flames, frictional heat, radiant heat, lightning, smoking, cutting, welding, and electrical/mechanical sparks.

Static Electricity Grounding

When transferring flammable liquids from a large container (>4 L) to a smaller container, the flow of the liquid can create static electricity, which can result in a spark. Static electricity build-up is possible whether using a pump or simply pouring the liquid. If the bulk container and receiving vessel are both metal, it is important to bond the two by firmly attaching a metal bonding strap or wire to both containers as well as to ground, which can help to safely direct the static charge to ground.

When transferring Class 1, 2, or 3 flammable liquids with a flashpoint below 100°F (37.8°C), OSHA mandates that the containers must be grounded or bonded to prevent electrostatic discharge that could act as an ignition source. NFPA 30 Section 18.4.2.2 also requires a means to prevent static electricity during transfer/dispensing operations.

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with proper ventilation, it is absolutely critical to use regulatory compliant, engineered controls to safely transfer potentially flammable and combustible liquids, including bulk sanitizer and disinfectant. Most states and municipalities across the U.S. have adopted NFPA® 30 Flammable and Combustible Liquids Code and OSHA 29 CFR 1910.106, which address the handling, storage, and use of flammable liquids. With NFPA 30, material is classified as a Class 1 liquid (flammable) and Class 2 and 3 (combustible).

The codes account for safeguards to eliminate spills and leakage of Class 1, 2, and 3 liquids in the workplace. This begins with requirements surrounding the integrity of the container, but also extends to the pumps used to safely dispense flammable and combustible liquids.

In most workplaces, supervisors and facility managers have recommended rotary and hand suction pumps to transfer flammable liquids for decades. However, they are increasingly turning to sealed pump systems designed for class 1 and 2 flammable liquids, which are a more effective engineering control tool for protecting employees and operations.

Conventional piston and rotary hand pumps have some inherent vulnerabilities. These pumps are open systems that require one of the bung holes to be open to the outside atmosphere. The pumps dispense liquids from the containers using suction, so it requires that a bung be open to allow air to enter the containers to replace the liquid removed. Without this opening, either the container will collapse or the liquid will stop coming out. For Isopropyl alcohol-based liquids, not only will such a system lead to the evaporation of the sanitizing material – the IPA – but the liquid will also absorb water from the air such that it will be more water than air, in short order.

As a solution, the industry has developed sealed pump dispensing systems that enhances safety by eliminating spills and enables spill-free, environmentally safe

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transfer that prevent vapors from escaping the container.

These systems are made of groundable plastic and come complete with bonding and grounding wires. The spring actuation tap handle can be immediately closed to stop liquid flowing, preventing any spills. The design of this sealed pump system also prevents liquid vapors from exiting the container when the pump is unused. These characteristics significantly reduce the chance of an ignition event. The combination of all these features ensure the pump meets both NFPA30-2015.18.4.4 standards and NFPA 77.

According to Nancy Westcott, President of Goat-Throat Pumps, her company offers refill solutions for dispensing disinfection liquids and sanitizers. GoatThroat Pumps are manufactured exclusively by Westcott Distribution Inc in Connecticut and are sold worldwide.

In March, she says GoatThroat fulfilled orders for nearly 1000 systems from both manufacturers as well as large corporate entities interested in providing hand sanitizer for all employees at all locations.

"In two weeks, we received a tsunami of calls for our Isopropyl Alcohol specific pump, which is designed to handle flammable liquids," says Westcott. "Companies that just needed to use Hand Sanitizers in smaller capacities, like filling little bottles from large barrels, would call to order pumps with Spout Reducers."

The other source of inquiries were breweries switching over to manufacturing hand sanitizer and many

manufacturing facilities that use the pumps as refill stations for jugs and bags to dispense product at the point-of-use.

"We have one Prison Authority using our pumps with pneumatic adapters, reporting that they were repackaging 6,000 gallons a day of Hand Sanitizer with only 2 systems for use by the entire state prison population," says Westcott.

With the need for hand sanitizers and disinfectants expected to continue to rise given its central role in most successful reopening strategies, properly engineered refill stations will play a key role in allowing for the safe transfer of disinfectants and hand sanitizer from bulk containers.

For more info: call 866-639-4628 toll free; Phone 646-486-3636; E-mail info@goatthroat.com; Visit www.goatthroat.com; or write to Westcott Distribution, Inc. 60 Shell Avenue Milford, CT 06460. •



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Creform Kitting Cart, an Efficient Way to Organize, Kit and Transport Parts for Industrial Use

Creform Corporation, a manufacturer of unique products for material handling structures has designed and produced a kitting cart that is used in the assembly department of an industrial equipment manufacturer. The cart provides an efficient way to organize, kit and transport in-process materials for in-house assembly projects.

The Creform kitting cart features multiple methods of separating and storing components for transit between picking and the assembly department and is durable and suitable for manufacturing or warehouse use. The unit allows for material to be moved from one manufacturing station to another, as well as to move materials from the warehouse in a small batch or sequenced set of kitted parts.

The rear of the cart features hanging industrial fabric bags with compartments that help protect parts and make for easy load/unload. While the front of the cart features a full-width drawer with solid surface that can be used to hold containers or loose parts.

Below that drawer are two compartments that create a simple divided shelf to hold components, subassemblies or boxes. The design of the cart allows the drawer to be pulled out to improve the access to parts. Two top level horizontal surfaces of the cart provide another place to hold miscellaneous items or bins.

Constructed with Creform's 28 mm pipe in highly visible yellow and black metal joints, The cart features four, 4 in. diameter swivel casters with urethane wheels for easy positioning, stability and safe movement. Two of the casters feature brakes that can be engaged for secure positioning. The cart has overall dimensions of 34" W x 28" D x 48" T and is designed to hold up to 350 lb.

As with all Creform carts, higher capacity and custom cart sizes and configurations are possible with the Creform system of 28 mm, 32 mm and 42 mm plastic coat-



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ed steel pipes and metal joints. They can be configured for ESD (anti-static) applications.

Although the cart pictured is shown in yellow, a wide variety of pipe color options are available and upgrade hitches are available for AGV delivery. Accessories include hooks, label holders for shelf levels or even shelf positions, writing surface with clip boards to name a few. Creform carts are available as a kit, assembled structure or in component form for a complete DIY solution

The Creform System is used to create an array of material handling and efficiency enhancing devices and is a proven component in continuous improvement and Lean Manufacturing programs. The company partners with customers in developing and implementing these programs.

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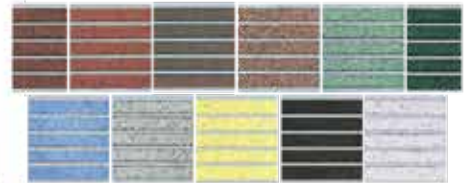


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