

NOVEMBER 2018

SAFETYZONE MAGAZINE

Proper Inspection of
Self-Retracting
Lifelines

Hidden
Emergency
Lighting Preserves Building
Aesthetics While Meeting Code

PIRANHA SAFETY XRail is the *first of its kind, programmable guardrail system* that creates a safety barrier that is functional as well as being extremely safe to use.

FLUSH MOUNT

The XRail system can lower into a pocket on the floor eliminating tripping hazards, storage issues as well as allowing for workers and equipment to be easily moved in and out of the work space.



ADJUSTABLE HEIGHT

The XRail can raise to any height up to 42" per OSHA standards. Fully customizable, automatic and programmable features make this system a part of Piranha Safety's intelligent safety solutions



Patented

USA 9,745,762

Canada 2,889,091

APPLICATIONS

- Aerospace
- Industrial
- Maritime
- Roofing
- Loading docks
- Pharmaceutical
- Tooling manufacturers
- Elevator maintenance



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PIRANHA LITES are approved for use by major OEM's of mobile work platforms



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Piranha Tool Caddy



The Piranha Safety Tool Caddy is a highly flexible, mobile and rugged tool storage and management system made of rust free heavy duty ABS plastic. The tool management system can mount to virtually any solid surface using the patented Piranha Lox surface mount.

Applications

Boom Lifts	Factories
Scissor Lifts	Construction
Facilities	Shops

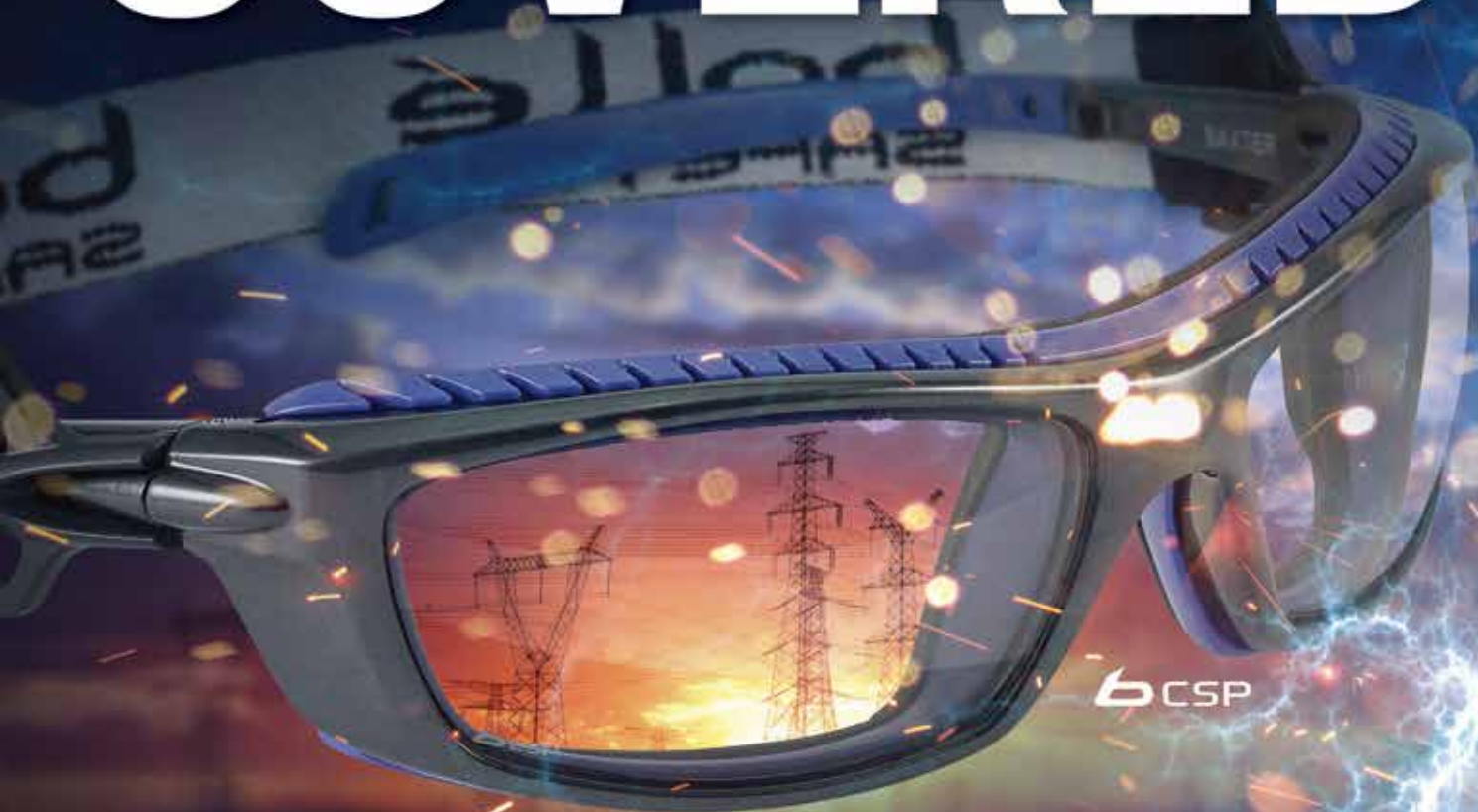


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TOPIC	QUESTION IDENTIFIER	Audit Questions	Auditor Guidelines
OFFICE: ALARM SYSTEMS	OFF-130.1.US	1. Does the facility have an employee alarm system? Cite: 29 CFR 1910.335(c) 29 CFR 1910.135	As employer must have and maintain an employee alarm system that is able to be heard, seen, or otherwise perceived by everyone in the workplace. The employee alarm system must be distinctive and recognized by all employees as a signal to evacuate the work area or perform actions identified in the EPP/SAP.
OFFICE: ALARM SYSTEMS	OFF-130.2.US	2. Is the employee alarm system tested annually? Cite: 29 CFR 1910.135(d)(4)	Employee alarm systems must be tested at least annually for reliability and adequacy.

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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 have been no test.				
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				

HTML Example

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is molded one piece seamless of chemical resistant fiberglass and is equipped with a pull rod activated shower and push handle eye/face wash for immediately drenching of personnel that have been exposed to hazardous chemicals. Shower is equipped with frosted front strip curtains, interior grab bars, raised deck grating, and bottom or rear drain outlet. Compliant with A.N.S.I. and O.S.H.A. requirements.

www.EmergencyShowerBooths.com •



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Patented
USA 9,745,762
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CORPORATE PROFILE

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Expert Witness

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Guard-Safe Guarding

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.

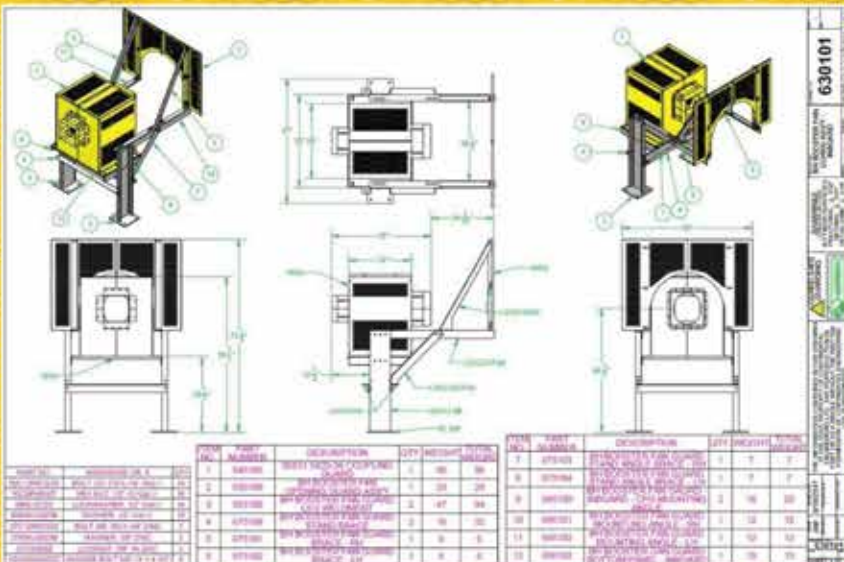


Designing your Guards

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.

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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.

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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

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Proper Inspection of Self-Retracting Lifelines



Last month, I was training a group of workers in the concrete trade. I had an opportunity to visit with some of the men on the jobsite while we were waiting for the entire group to gather around the project trailer. I enjoy getting an opportunity to engage with the workers and find out how they conduct inspections of their products. You never know what great things you can find out and then share with other companies across the country.

This company has a great safety director who does a fantastic job of taking care of its workers. They had the harness inspection down pat. They knew how to put it on, how to inspect their lanyards and what to do when a product fails inspection. I was impressed to say the least.

If there was one area to be considered – a weakness – it was dealing with self-retracting lifelines. Most companies I visit and train have an inspection of self-retracting lifelines at only about 75%. As a result, I would like to make this month's article about getting to that number.

Step 1: Check the Labels and Fall Indicator

These need to be the first two things checked by any person performing inspection, whether it is the pre-use inspection or the competent person inspection. The reason these two items need to be the starting point for all inspections is simple: if the fall indicator is triggered, remove the item from service and stop all further inspections. In essence, you're done. The same applies for the labels; if the labels are wrong, don't meet the necessary requirements for your jobsite application or if they are incompatible and illegible, then you must immediately remove them from service and start on the next piece of equipment.

Depending on the SRL model, the swivel eye will elongate and expose a red area when subjected to fall arresting forces. Again, do not use the unit if the load impact indicator has been activated. Be sure the workers have been shown what to look for during their pre-use inspection.

Check the housing of the SRL and inspect the housing for loose fasteners. Make sure that none of the parts are cracked, distorted, bent, malfunctioning or damaged. Remember that a few scrapes or missing paint does not constitute taking out of service.

Step 2: Test the Lifeline Itself

Whether it is a nylon web or metal cable line, it needs to be tested for retraction and tension. Tension and retraction can be tested at the same time you are inspecting the braking mechanism. This can be done by executing strike tests on the SRL. Grasp the lifeline above the load indicator and apply a sharp steady pull downward, making sure to use enough force to engage the brakes. It's important to not grab the snap hook itself during a strike

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test as the forces exerted on the snap hook might trigger the impact indicator over time. There should not be any slippage of the lifeline while the brakes are engaged. Once tension is released, the brakes are designed to disengage and the unit will return to the retractable mode. If the brakes do not engage, remove from service. Always maintain a light tension on the lifeline as it retracts back into the housing. In addition to strike tests, the entire length of the line needs to be checked.

The lifeline should pull out freely and retract all the way back into the unit. Remove from service if the lifeline does not retract properly. Check the lifeline for signs of damage: cuts, burns, corrosion, kinks, frays or worn areas. Be sure to wear gloves when inspecting an entire line of cable as any frays can cause severe damage to bare hands. If you are inspecting a web line you should inspect the quality of sewing. Look for loose, broken or damaged stitching.

Check the snap hook to be sure that it operates freely, locks properly and that the swivel operates smoothly. Then, inspect the snap hook for any signs of damage to the keepers and any bent, cracked, or distorted components. Make sure that the snap hook is not rusted or damaged.

To keep self-retracting lifelines in the best shape they

should be kept clean, especially when exposed to rough trades like concrete and masonry. The good news is that the most basic care of equipment will prolong the life of the product. It will also contribute toward the performance of its function. Proper maintenance and storage after use are important. Simply wipe off the dirt, corrosives, and contaminants and the product should last. Make sure that concrete, mortar and other contaminants don't make their way back into the housing with the lifeline as they will sometimes dry and lock up the unit. If this is a web self-retracting lifeline, the solution is to remove any surface dirt with a sponge dampened in plain water. Storage areas should be clean, dry and free of exposure to fumes or corrosive elements. Problems occurs when SRLs are tossed in toolboxes caked with mortar.

You will find that with a little common sense and an eagerness to clean and maintain your equipment, it will hold up well against even the toughest trade.

Regardless of what industry you are in, if you take these simple steps when inspecting your self-retracting lifelines you can depend on them 100% of the time. If you need additional guidance on the subject or have any questions, we have helpful training videos available or you can reach out to us directly for help.

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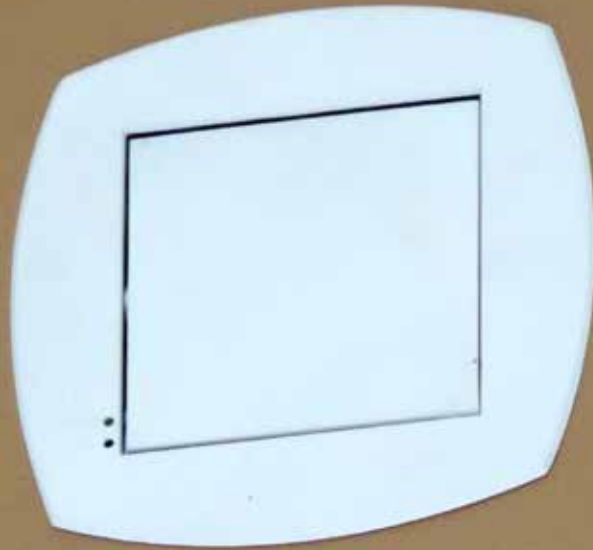


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Hidden Emergency Lighting Preserves Building Aesthetics While Meeting Code

*Designs that stay out of sight until needed provide more attractive options
for new builds, retrofits, and historic properties*

While emergency lighting is critical to life safety and must function to code, no one wants to see the devices ruin the aesthetics of a building's interiors. So industry professionals are increasingly keeping the lights hidden or camouflaged until needed to ensure it artfully blends in with its surroundings.

"From the standpoint of interior architectural aesthetics, traditional wall or ceiling-mounted emergency lighting systems can be sort of an eyesore that establishments with a more refined look want to eliminate because it can take away from the architectural experience," says John Decker, IALD of Lighting Design Studio, a multi-disciplinary firm. The company has completed lighting projects for a variety of commercial spaces including resort hotels, spas, casinos, restaurants, retail and office spaces.

Now an innovative option, fixtures completely hidden behind closed door panels on walls or ceilings, is helping to meet emergency lighting code. Only in the case of emergency or power outage do the doors open and the emergency lights emerge to ensure sufficient light along the path of egress, as mandated by the NFPA and International Building Code (IBC). For even greater discretion, the panels can be painted, wallpapered over, and placed in locations out of the line of sight to make them completely inconspicuous.

Enhancing Aesthetics and Ensuring Safety

Design professionals often meticulously plan the aesthetics of various building elements including style, form, and materials in a wide range of structures. This can involve upscale hotels, resorts, restaurants, retail centers, office buildings, and concert halls as well as historic courthouses, museums, city halls, state and federal buildings.

A challenge, however, occurs when urgent project timelines lead to unfortunate compromises in building aesthetics, often in the

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area of emergency lighting, at the last minute.

“When building owners and end users pay for architectural services, they may have a wonderful structure with everything considered in the space – until the end of the project when ill-considered, utilitarian, even ugly, emergency lighting is installed to provide light for emergency egress,” says Decker.

“In nicer hospitality, entertainment, office, and service settings with refined interiors –like hotels, resorts, restaurants, spas, casinos, museums, historic districts, and themed amusement parks – foreign looking emergency lighting fixtures mounted to the walls or ceiling can look really out of place,” he adds.

While there are many emergency lighting approaches available that will sufficiently provide one foot candle of illumination along the path of egress as specified by the NFPA, these options typically begin with deciding on the type of power source that will be used in the event of a power outage.

Often, existing architectural lights are incorporated if possible, powered by centralized inverters or generators. However, when that is not sufficient, dedicated battery powered emergency lights may be required, but these can be obtrusive and unattractive.

“If the engineer proposes to put ugly, ‘bug-eye’ emergency lights in a beautiful interior space, we try to find aesthetic solutions that still meet the code requirement of providing enough egress lighting for emergency situations – while maintaining the beauty of that space,” says Decker, who is a trained architect.

“Bug-eye” is the colorful term used to describe typical emergency lighting that surface mounts on the wall with a battery box under two lamps that resemble a bug’s eyes.

Decker says there are superior methods for hiding, or concealing, emergency lighting.

The first method is to utilize a backup battery hidden in the housing of a lighting fixture, such as a recessed downlight or suspended linear luminaire. In the event of a power failure, the battery will then supply emergency lighting for a designated amount of time as determined by code.

However, Decker points out another alternative. He points to Isolite, a manufacturer of specification-grade emergency lighting products. The company offers the Genie, along with a more compact version called the Mini Genie, that remain fully recessed behind two flat panel doors installed in the ceiling or

walls until needed.

“With the Genie and Mini Genie, you have a concealed look architecturally, but under normal loss of power the battery kicks in, the doors open, and the lamps pop out to light the way,” says Decker.

“The recessed solution lends itself to maintaining the integrity of the architectural interior space, so it works functionally and aesthetically,” he adds.

While having emergency lights emerge from door panels when needed keeps them out of the way, lighting professionals like Decker also value the ability to camouflage them as well.

With both of the units, the flat panel doors lay flush with the trim and mounting surface, and exterior trim can be painted or wall-papered to match any color or decor so as to blend in with the architecture.

Because these emergency lights are fully self-contained and can be recessed into walls or ceilings, they are virtually invisible during normal lighting conditions, and thus eliminate unsightly, surface mounted emergency lights and battery packs.

“When the Isolite products are fully recessed and the panels are painted or wallpapered to match their surroundings, you really cannot see them unless you are specifically looking,” says Decker.

According to Decker, the design and engineering team utilized this approach for emergency lighting in the themed, Camp Jurassic caves at Universal’s Islands of Adventure in Orlando.

“We used a Genie product, and it was painted out so you really couldn’t see it unless you were looking for it,” he says. “It maintained the integrity of the aesthetics.”

While this approach can enhance the aesthetics of new builds and retrofits, it is particularly helpful in preserving the “look and feel” of historic buildings, which still must accommodate life safety and security needs, as well as update building systems appropriately.

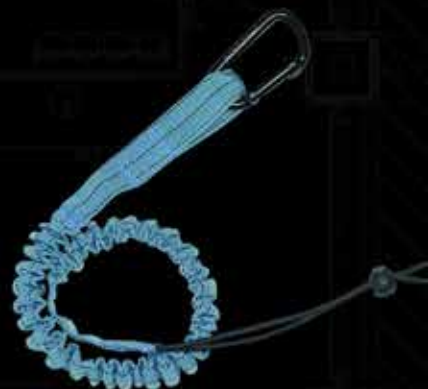
Such implementation strikes a balance between retaining original building features and accommodating new technologies and equipment.

In fact, the Mini, which can wall mount with a total depth of 3.5”, is also well suited for shallow plenum applications, the narrow

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space between the structural ceiling and drop-down ceiling used for HVAC air circulation.

The company also offers recessed LED emergency lighting mounted 18" above the floor. The product directs light to the floor to more effectively illuminate the path of egress than traditional ceiling or wall mounted emergency lights.

"Lighting the path of egress from a lower vantage point makes sense in situations where there is a fire because all the smoke rises and [if it were higher] it could block some of the light," says Decker.

With such new tools to make emergency lighting less conspicuous, building design professionals can now preserve elegant, architectural quality aesthetics while meeting emergency lighting and life safety codes.

"Wherever aesthetics are valued, concealing emergency lighting should be an option," concludes Decker.

For more information, contact Isolite at 31 Waterloo Avenue, Berwyn, PA 19312; call 800-888-5483; or visit them on the web at www.isolite.com •

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