

August 2022

SAFETYZONE MAGAZINE

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of Vacuum Processes
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SAFETYZONE MAGAZINE

Vol. 22 Issue 8

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SDP

Southern Digital
Publishing

Safety Zone Magazine™ is published ten times a year on a monthly basis by Southern Digital Publishing, Inc. *Safety Zone Magazine™* is distributed free to qualified subscribers. Non-qualified subscription rates are \$57.00 per year in the U.S. and Canada and \$84.00 per year for foreign subscribers (surface mail). U.S. Postage paid at Birmingham, Alabama and additional mailing offices.

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Klein Tools® Launches New Stand-up Zipper Bags for Storing Tools and Small Parts on Jobsite

Klein Tools (www.kleintools.com), for professionals since 1857, introduces new Stand-up Zipper Bags, in a 2-Pack with 7-Inch and 14-Inch sizes, both designed to handle tough jobsite conditions and stand up so tools and small parts can be easily accessed when working.

Stand-up Zipper Bags, 7-Inch and 14-Inch, 2-Pack (Cat. No. 55559)

- Perfect for storing pliers, wrenches, screwdrivers, drill bits and other small tools and parts
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- Durable zippers with string pull make opening and closing the bags easier, even with gloves on

"Trade professionals have to carry a variety of small tools and parts as part of their daily jobsite activities," says Scott Rabe, senior product manager at Klein Tools. "Klein Tools' new Stand-up Zipper Bags are designed to carry all of these small items, and are made of heavy-duty ballistic weave material, with reinforced bottoms to help prevent sharp tools and parts from wearing through. The bottoms are also gusseted to allow them to stand up, giving easy access to tools. On top of all that, the bags come together in a 2-pack, with 7-Inch and 14-Inch sizes, so you have options to choose what works best for your job."

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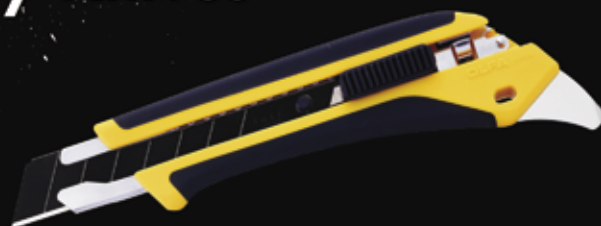


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IMA Dresden's Digitized Testing System Takes Flight

IMA Materialforschung und Anwendungstechnik GmbH (IMA), has boosted its test capabilities with an all-digital measurement and control chain that automates fuselage shell testing.

The testing and certification body supports manufacturers and the supply industry with test benches for realistic component testing. Using real-time control, the controller of the test bench servo-hydraulics must take the measured data into consideration when applying the load.

For the fuselage shell test, IMA Dresden commissioned a test bench that has been developed from scratch. The design of the servo-hydraulic test bench is a proprietary development borne out of extensive in-house experience, as Gerd Striegler, Head of Measurement Technology at IMA Dresden, explains: "The modified design makes the test bench more flexible for different tests, component dimensions and test standards." What's more, several types of stress can be exerted simultaneously and tested in a realistic manner.

The new test bench uses approximately 30 hydraulic actuators with suitable force transducers, so that it can simulate motion-related tensile, compressive and shear stresses. The reactions to these are measured by 500 strain gauges via a QuantumX data acquisition system, supplied by Hottinger Brüel & Kjær (HBK), which records the strain gauge signals in various bridge configurations and digitally conditioning them for further processing.

With the QuantumX data acquisition system from HBK, the open and closed-loop control system required for this task receives digital signals in high quality directly via EtherCAT.

The full case study is available on HBK's website: www.hbm.com/en/10675/case-study-ima-dresden/ •

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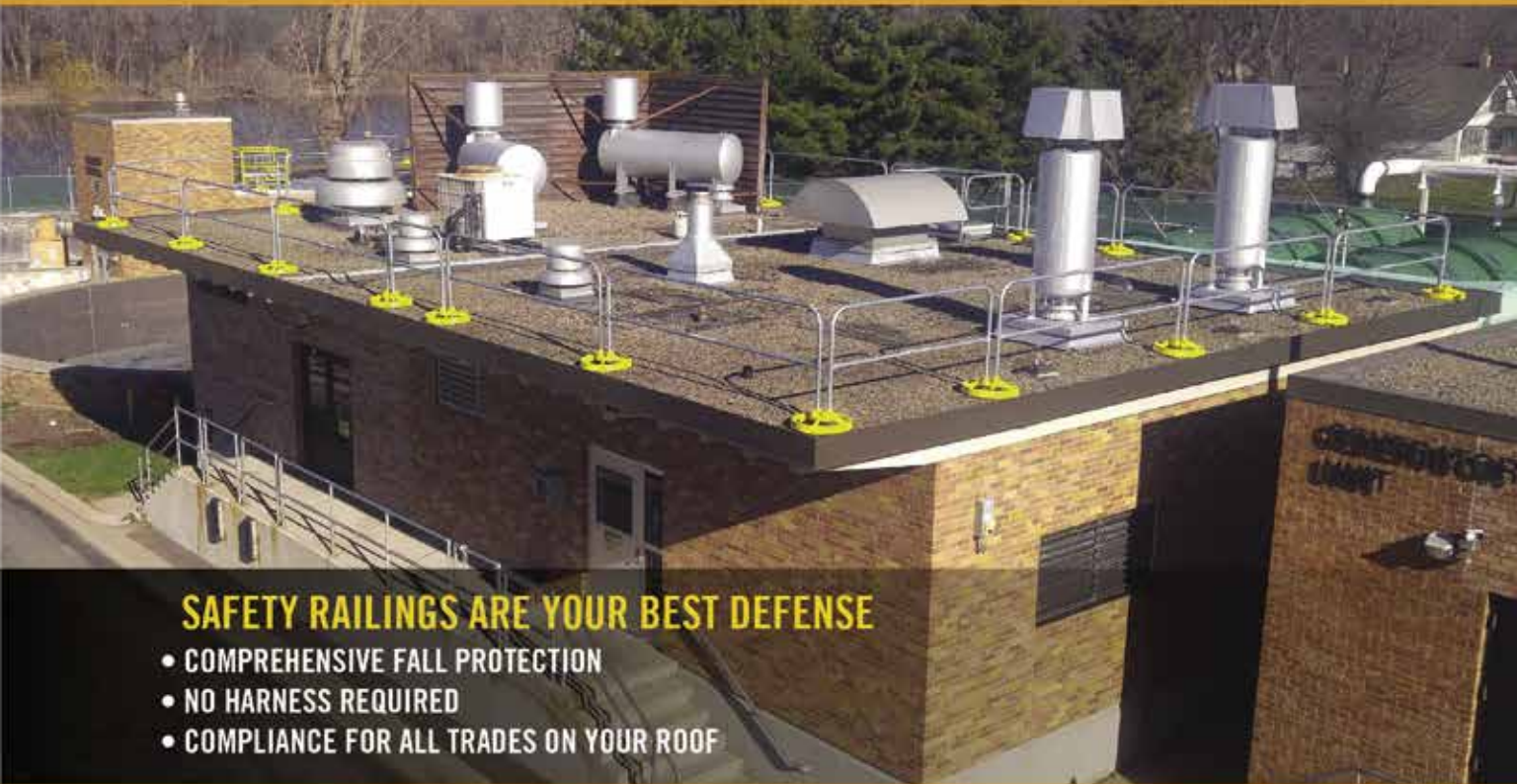
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Monitoring and Control of Vacuum Processes Made Easy



In process engineering, the exact observance of pressures in vacuum-assisted processes is an important parameter for ensuring optimum efficiency and the best possible product quality. VACTEST vacuum measurement equipment from Busch is designed to combine the latest advances in vacuum measurement technology with exceptional manufacturing quality – providing an innovative and comprehensive portfolio of active vacuum gauges and controllers. This makes it possible to match the right measurement technology to each and every process.

Robust construction, reliability and measurement accuracy are key features of these devices, making them the ideal choice to monitor and control your vacuum process, whether it is in industry or research. These state-of-the-art technologies allow a wide measurement range from 1600 to $5 \cdot 10^{-10}$ millibar covering all vacuum levels with accuracy. All sensors comply with international standards and regulations such as CE and RoHS.

A number of different sensor technologies in the VACTEST series cover the entire range between rough vacuum and ultra-high vacuum. They can basically be divided into two main categories: direct and indirect pressure measurement. The direct measurement principle is independent of the process gas and is based on the pressure that the molecule flow exerts on a membrane. This method is mainly used for rough and medium vacuum processes. At a higher vacuum level, indirect measurement principles are used, based on special properties of the process gas, such as thermal conductivity or ionization probability. Unlike the direct measurement method, these principles depend on the type of process gas. For this reason, a specific correction factor must be applied for each process gas – except for air and nitrogen.

A number of factors must be taken into account when selecting the correct sensor. In addition to the process and ambient conditions, the pressure range, required accuracy and gas composition play a key role in achieving optimum mea

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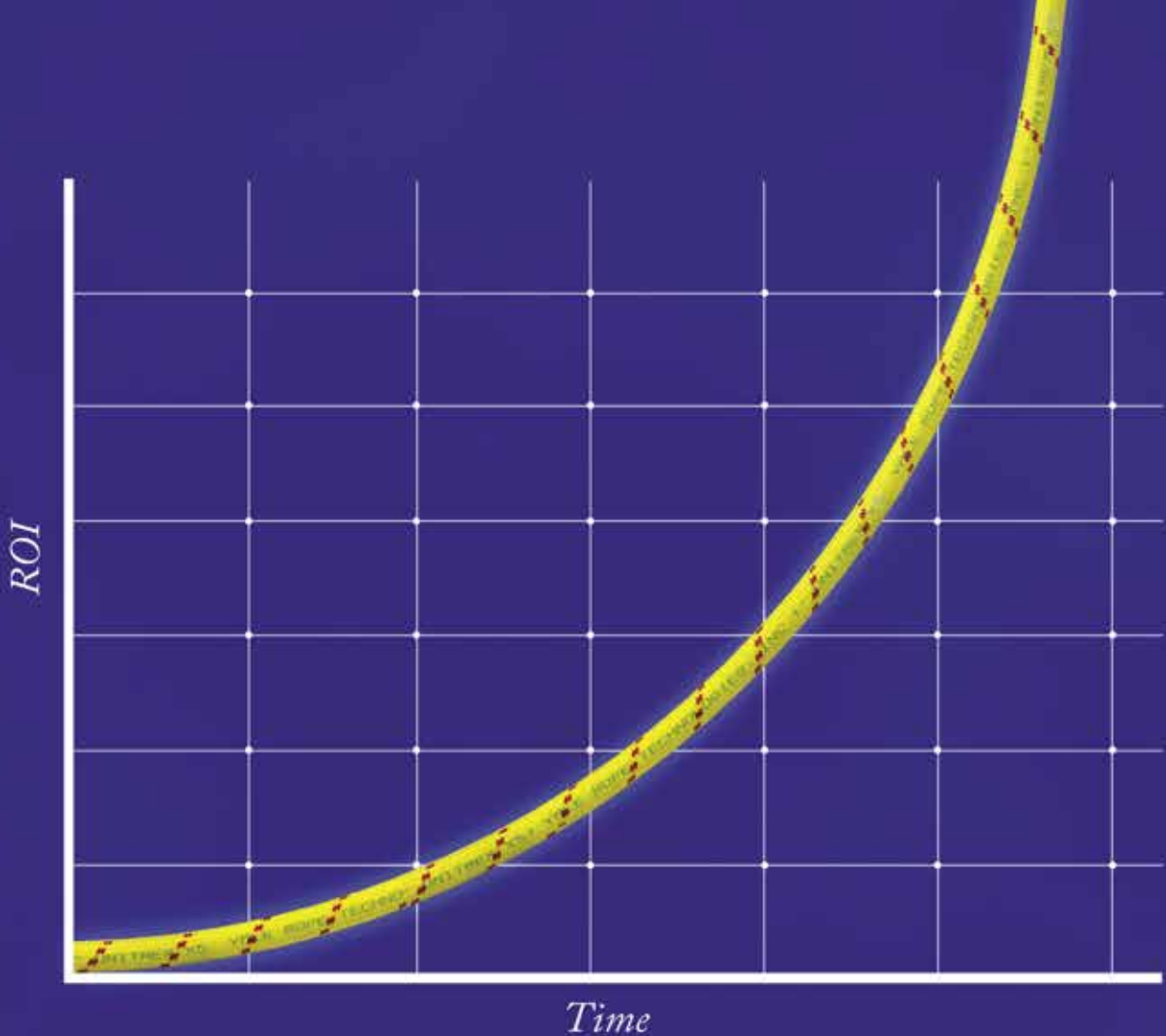
VACTEST digital transmitters are high-end gauges coming with a full range of options as standard. Their intelligent micro-controller architecture allows an optimum sensor control, as well as many setting options, making them the ideal solution for a variety of applications. VACTEST digital transmitters are based on Pirani sensor technology or on combinations of Pirani / cold cathode or Pirani / hot cathode technologies.

VACTEST analog transmitters feature a compact, rugged and functional design. Thanks to their excellent measurement accuracy and stability, these transmitters are ideal for centralized monitoring and control systems.

VACTEST mobile gauges are the perfect hand-held solution for quality assurance with vacuum processes and maintenance. These battery-operated gauges offer various functions, such as a USB interface for data export and display, as well as a data logger. They can even be used under vacuum. For example, these gauges can be sealed in vacuum packaging to measure the pressure within the packaging.

VACTEST active sensor controllers, which are compact control units designed for the simultaneous operation of several vacuum gauges, round off the product series. Used either as a table-top device or rack-mounted, they allow intuitive menu navigation and ensure full control of each transmitter. Parameters, such as gas type correction factor, pressure units, setpoints and other beneficial functions are easily adjustable.

In addition to the measuring devices, the VACTEST Viewer is also available. It is a free Bluetooth monitoring application for mobile devices with an Android operating system. It can be used to display the pressure values of up to 16 connected sensors. The tool was designed for Bluetooth data exchange between software and sensors and is ideally suited for maintenance and calibration purposes. Visual and sound alarms can be preset for maximum and minimum pressure values. •



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New Hybrid Pliers from Klein Tools® Combine Multiple Functions into One Tool



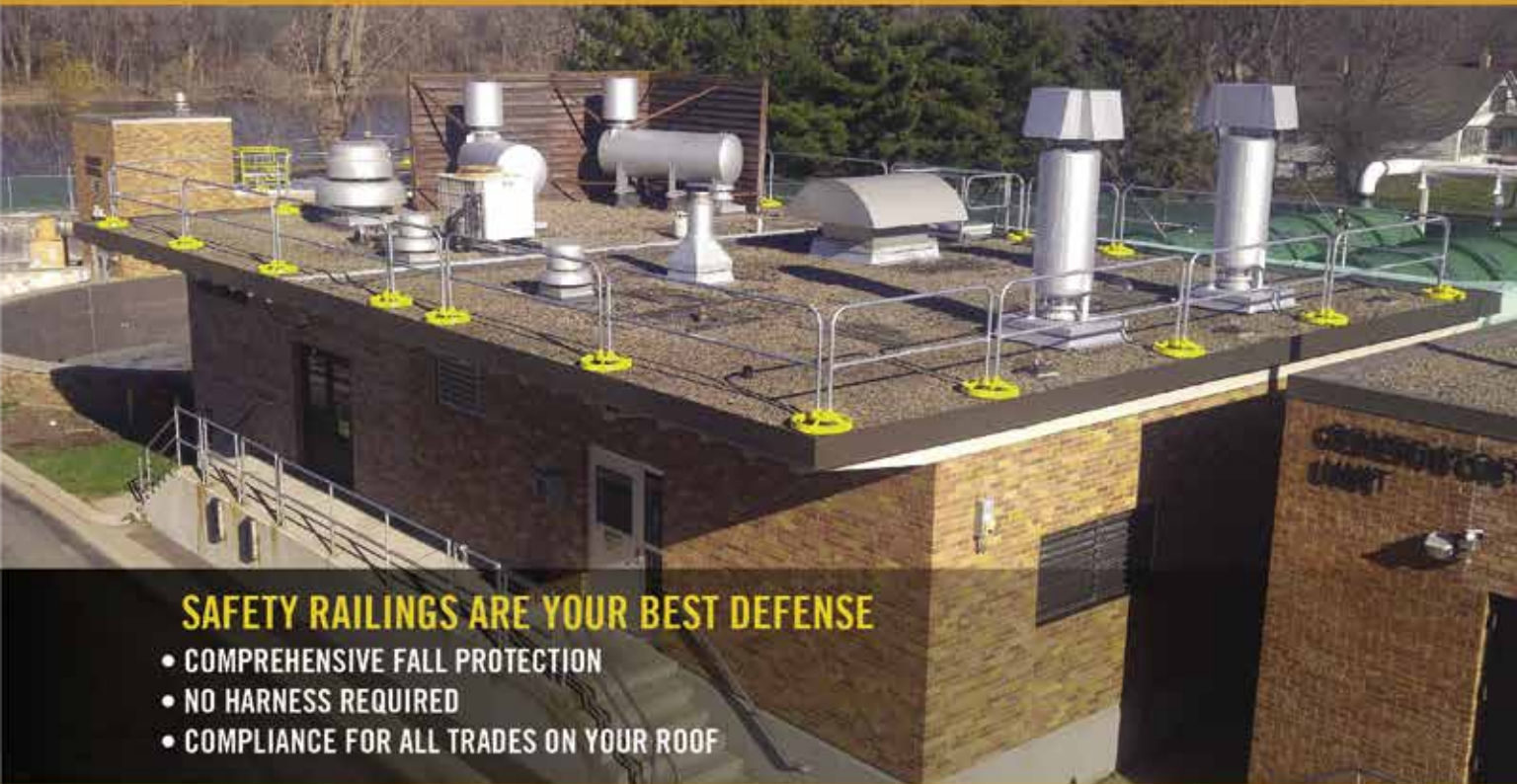
Klein Tools (www.kleintools.com), for professionals since 1857, introduces the new Hybrid Pliers with Crimper, Fish Tape Puller and Wire Stripper, a must-have for your tool bag that allows you to strip, cut, twist, shear, crimp and pull fish tape with one tool.

Hybrid Pliers with Crimper, Fish Tape Puller and Wire Stripper (Cat. No. J2159CRTP)

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“Trade professionals are always looking to get the most value for their money, and that means purchasing tools that can be used for multiple tasks on a jobsite,” says Daniel Pearson, senior product manager at Klein Tools. “Klein’s new Hybrid Pliers with Crimper, Fish Tape Puller and Wire Stripper allow profession-

als to have one tool that serves multiple functions, not only saving space in tools bags but also reducing time needed to switch in between tools. These new pliers pair perfectly with Klein Tools’ Fish Tapes to make wire pulling quick and easy.”

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

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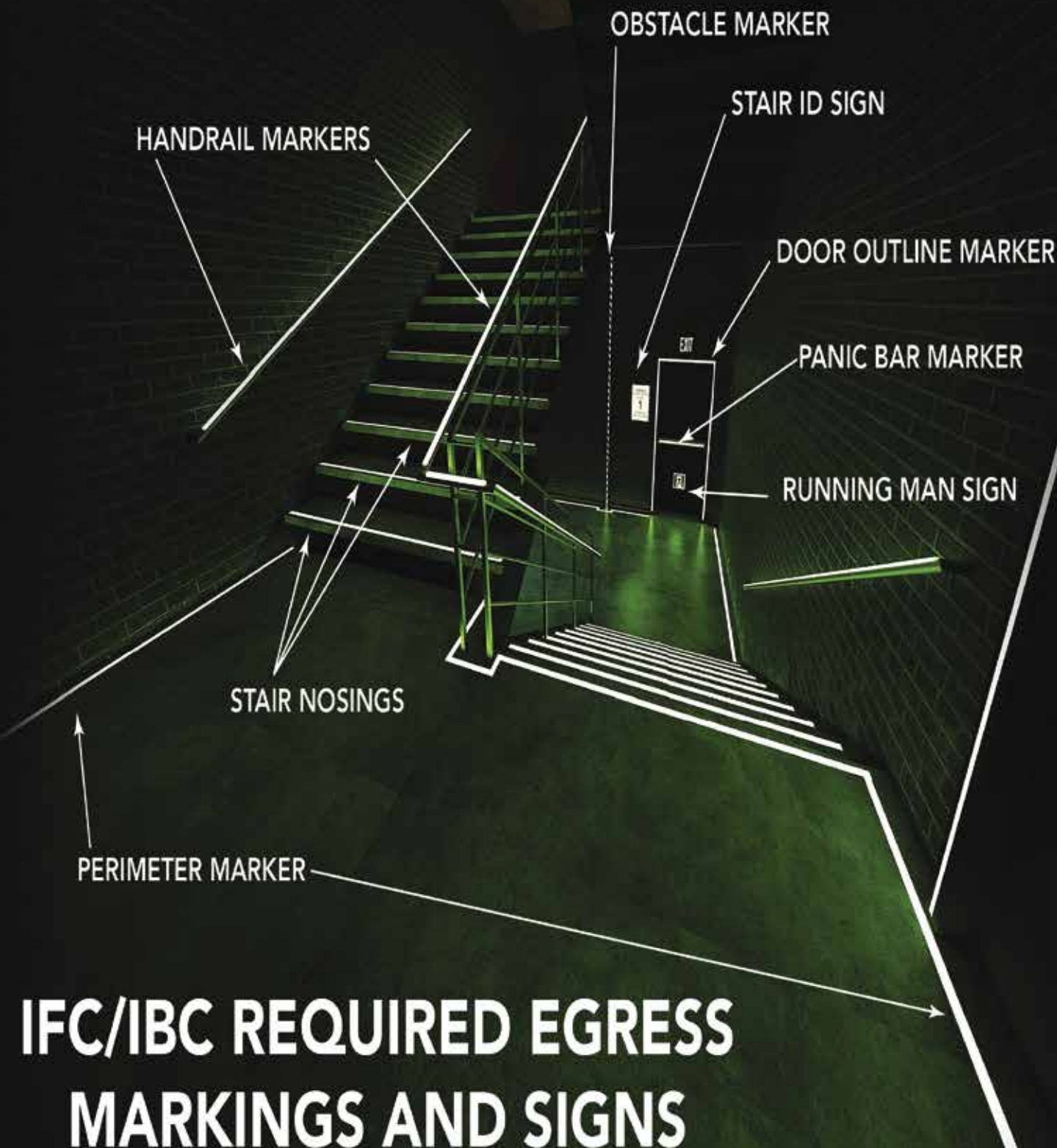
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