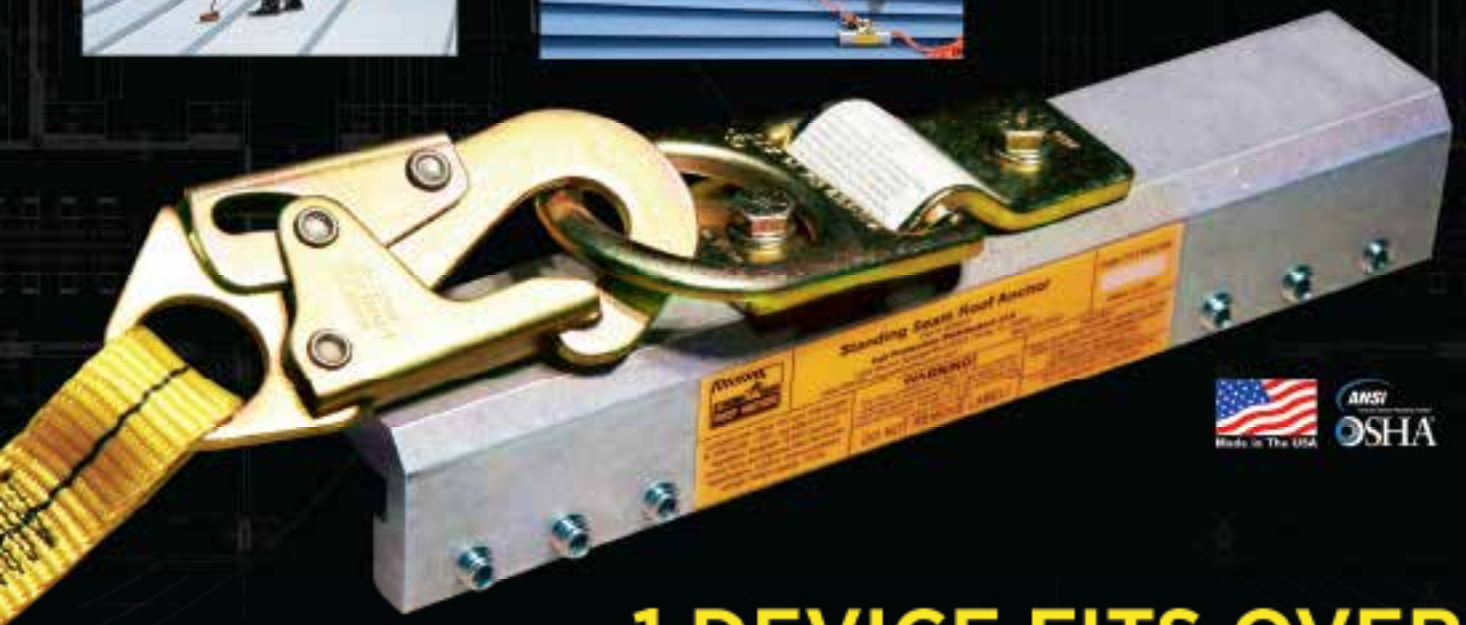
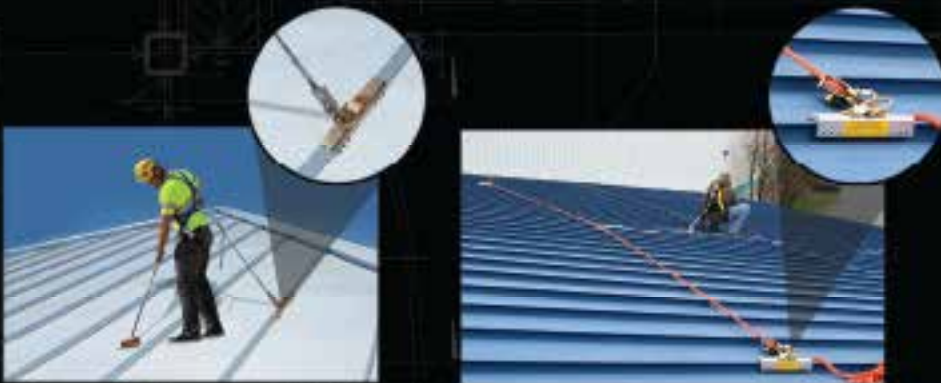


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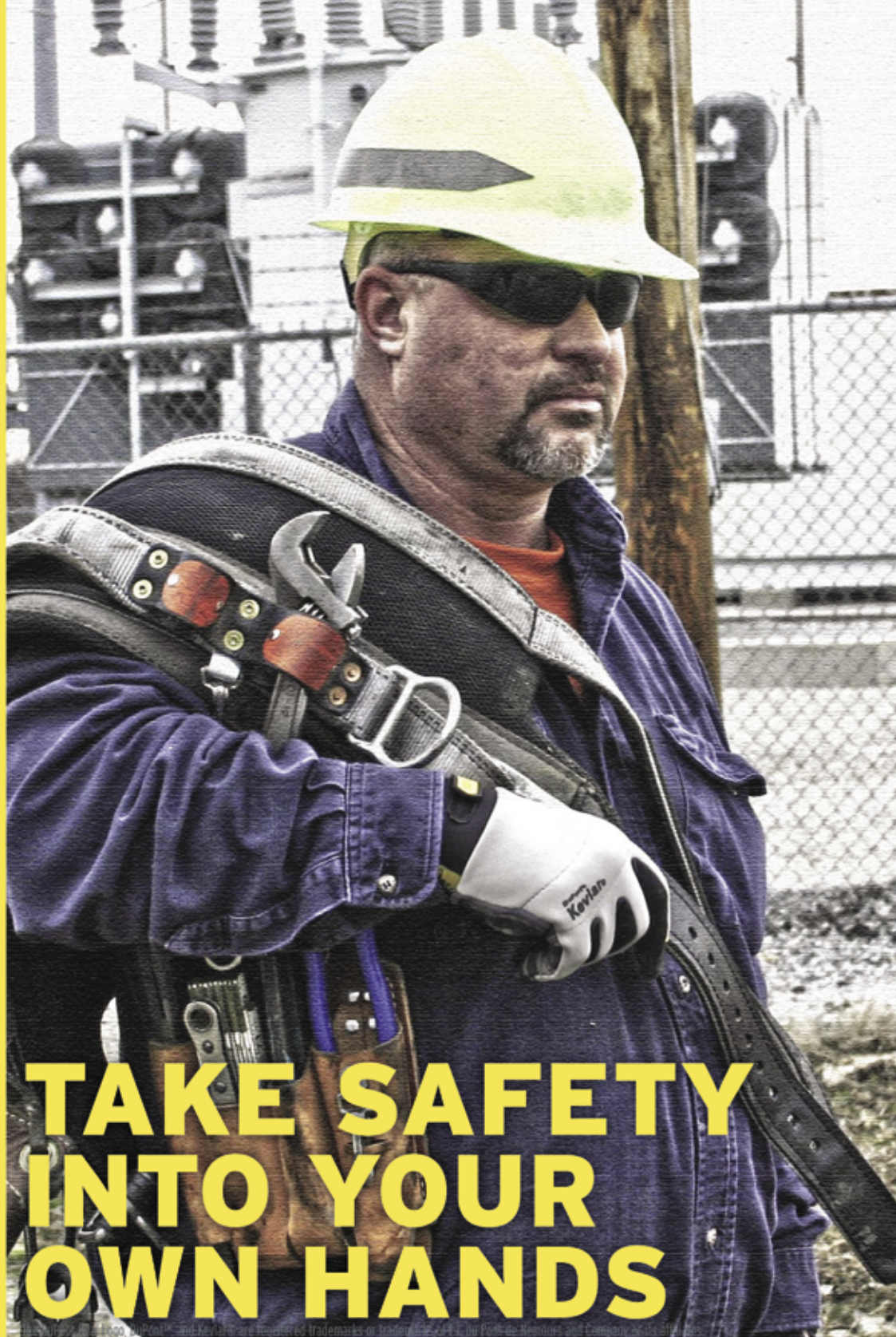
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|       |                                                                      |
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| PG 12 | The Next Generation of Vibration Testing                             |
| PG 14 | Why Mitigate?                                                        |
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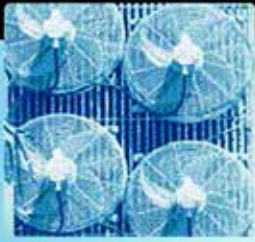
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Vol. 21 Issue 10

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# FABTECH 2021 Makes In-Person Return to Chicago with Successful Event

*Highlights included leading-edge technologies, compelling education sessions, and an expansive show floor driving the future of the industry*

As the first large-scale B2B and manufacturing trade show to be held at Chicago's McCormick Place since the onset of the COVID-19 pandemic, FABTECH 2021 brought two years' worth of groundbreaking innovations, inspiring keynote presentations, and solution-based education sessions to the global metal fabrication community. From September 13-16, North America's largest metal forming, fabricating, welding and finishing event welcomed over 24,000 attendees from across the United States with long-awaited opportunities to experience product evaluation, in-person networking, education, and collaborative discussions on key topics impacting the industry today.

"FABTECH 2021 was a great show," said Michael Bell, director of sales, Pemamek LLC. "The show exceeded our expectations by far and our company closed several large deals during the week. We met with the right buyers. The people who came to FABTECH were here to learn and to buy. We already have our booth for next year!"

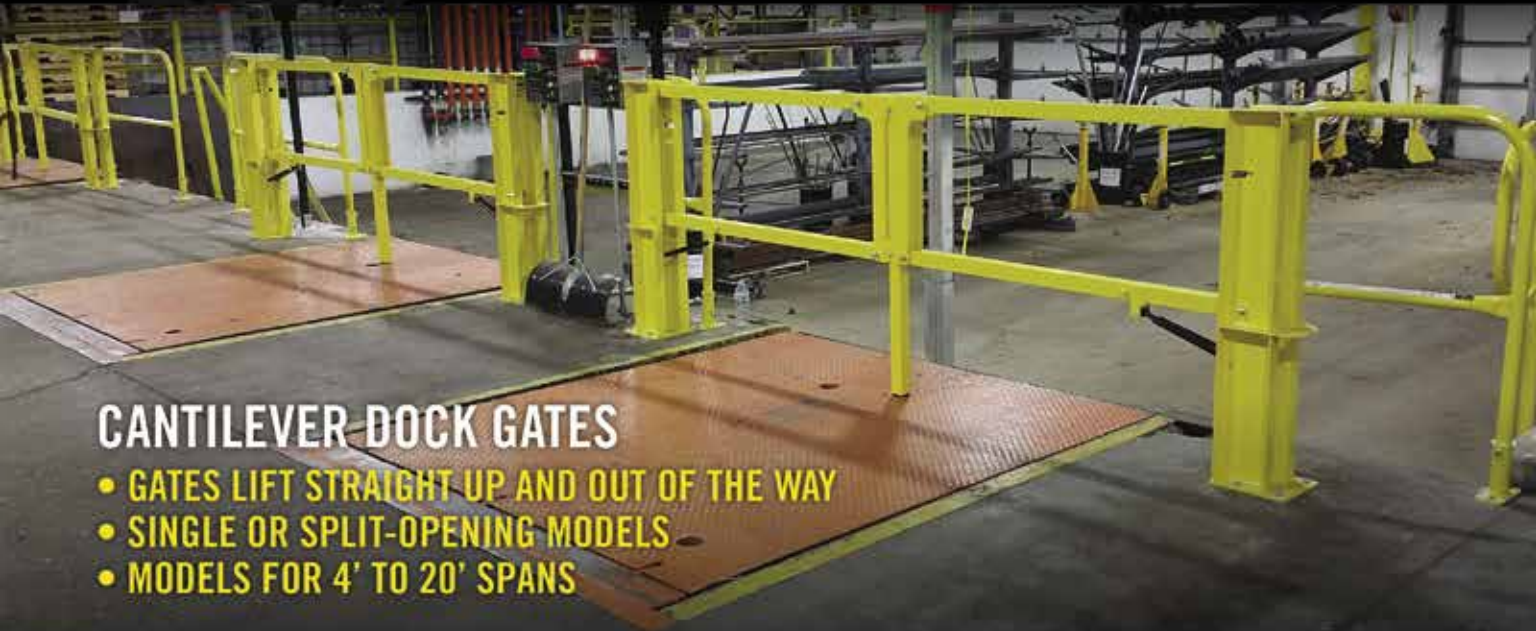
"We have been exhibiting in FABTECH for years," said Adam Bowden, president, Jet-Set Hydraulic Spray Systems. "Year after year, they have all been good, but this year the show has changed the trajectory of my business. We had an amazing experience at FABTECH 2021."

Three exhibit halls hosted close to 1,000 exhibitors (including 93 new exhibitors) demonstrating over 400 new products and highlighting emerging trends and technologies. As the first event in two years for many industry professionals, energy was high, and sales activity was robust on the busy exhibit floor throughout each day. Featured technology-focused pavilions at FABTECH included the 3D/Additive Manufacturing Pavilion, one of the fastest-growing technologies of the 21st century, and the Robotics & Industrial Automation Pavilion that introduced new technologies to fill workforce gaps and increase productivity and profitability.

"FABTECH is grateful for the support of all the participating exhibitors, speakers and attendees who joined us in Chicago," said Mark Hoper, FMA senior vice president media & expositions, FABTECH. "We would like to thank them along with all our partners, vendors and the City of Chicago who supported this endeavor throughout a challenging 18 months leading up to this important industry event."

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FABTECH featured a motivating lineup of special events, including keynote presentations, FABx Tech Talks and Leadership Exchange discussions. During the packed keynote presentations, industry luminaries discussed key learning moments and philosophies that led them to notable successes like landing a rover on Mars, creating boundary-pushing motorized builds and establishing a successful workforce development formula. Speakers included Adam Steltzner, leader and chief engineer of the NASA Mars 2020 Perseverance Rover Mission, David Ankin, CEO of ToyMakerz, Inc., and Adam Genei, owner of Mobsteel and Detroit Steel Wheel Co.

The Leadership Exchange and State of the Industry panels featured groups of subject matter experts who discussed the next phase of advanced manufacturing, the importance of mobile robot and standard robot interoperability, tactics for cultivating the next generation of manufacturing talent and how to navigate 2022 with the industry's constant state of transformation. During the FABx Tech Talks, visionary manufacturers shared details about how they are integrating technologies like automation, AI and data analytics into all aspects of their operations—from the production floor to the supply chain.

FABTECH's education offerings for attendees included more than 150 conference sessions and workshops led by industry thought leaders and subject matter experts. The sessions spanned 14 technology tracks with sessions focused on automation, smart manufacturing, welding, cutting, lasers, workforce development, business management strategies and more. On-demand content from the conference is now available to purchase for those who were unable to attend.

"FABTECH is family. It's about connection and community just as much as it's about education and technology! The welding and fabrication industry is like no other—we are a very close family," commented Barbie

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During FABTECH, the American Welding Society hosted judges from Netflix's new series, Metal Shop Masters. Making its Netflix series premiere on September 10, 2021, just days before FABTECH 2021, Metal Shop Masters features a group of metal artists who will torch, cut and weld epic creations from hardened steel in a competition to win a \$50,000 prize and the Metal Shop Master title. Attendees enjoyed hearing from judges Stephanie Hoffman and David Madero at FABTECH's Careers in Welding Trailer as they discussed what it was like to be on the show and meet talented competitors.

"With everything that the industry has been through over the last year and a half, it was great to bring everyone together to do business, learn, and connect in person," said John Catalano, SME senior director US events and strategic partnerships, FABTECH. "Nothing compares to being able to make those face-to-face connections and see the newest advancements and products in action. FABTECH 2021 was a success, and we hope everyone who joined us gained new business and insights into current and future manufacturing trends."

Exclusively focused on advancing the metal forming, fabricating, welding and finishing industries around the world, FABTECH offers an unmatched trade show experience. FABTECH 2022 is set to take place in November 8-10 in Atlanta, Georgia, with registration expected to open in the spring of 2022. For more information, visit [fabtechexpo.com](http://fabtechexpo.com) or follow the event on Facebook, Twitter, LinkedIn, and Instagram. •

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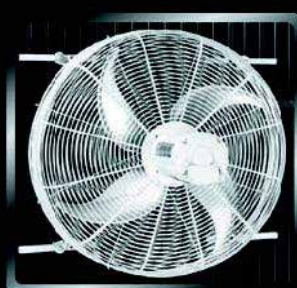
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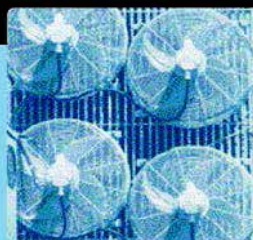
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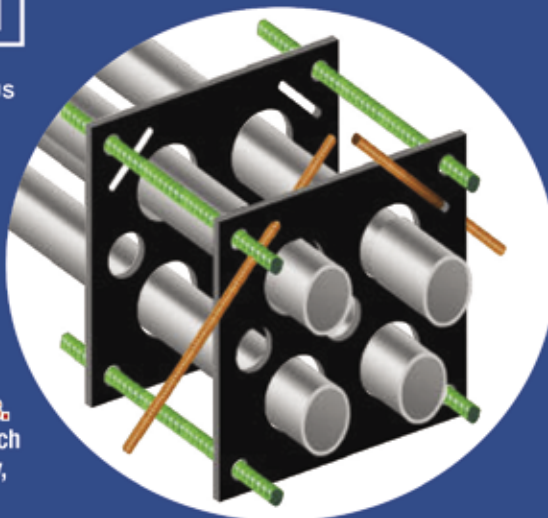
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# The Next Generation of Vibration Testing

Test and measurement expert HBK has launched a new LDS shaker system that provides efficiency far beyond just saving time - the LDS V8750 shaker + XPAK shaker system.

With today's increasingly complex and advanced vibration testing, such as environmental stress screening with a slip table and climatic chamber, manufacturers and engineers need a lot from their vibration testing solutions.

Lack of energy saving and power balancing features, recalibration of armature position, vibration profile limitations as well as growing their own testing capabilities are just a few of the challenges, limiting the testing efficiency.

HBK's LDS V8750 shaker + XPAK shaker system has been specifically designed to meet the demanding specifications for shock testing in standard configurations. The medium-force, air-cooled shaker system reduces overall costs while ensuring a reliable and futureproof system. The Inductive Centring System enables accurate guiding of the built-in armature with minimal maintenance and uninterrupted operation.

Uninterrupted operation is also guaranteed through the new remote services to aid predictive maintenance and fault detection. This can be achieved by the user or with assistance from HBK's service team. Additionally, the COOL and QUIET modes of the XPAK amplifier enable the user to reduce the acoustic noise and energy consumption, while simultaneously lowering the cost of ownership and reducing carbon footprint.

More information about HBK's V8750 is available on the company's website: <https://bksv.com/instruments/vibration-testing-equipment/lvs-shakers/medium-force-shakers/lvs-v8750>

Learn more about the features in this interview from HBK: <https://bksv.com/knowledge/blog/vibration/v8750-next-generation-vibration-testing> •

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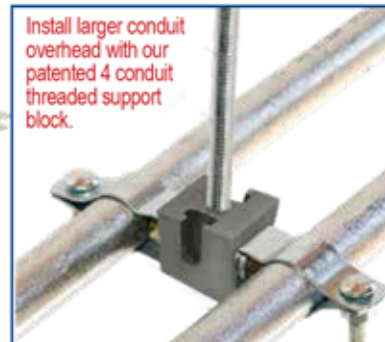
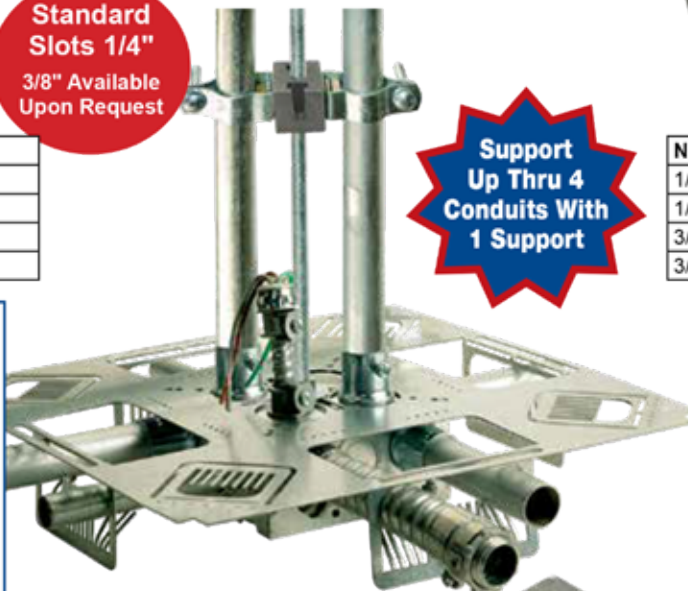
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**IP19-20**

# Why Mitigate?

---

*Pat Bentley*

*Paul Davis Restoration of Greater Birmingham*

What is mitigation?

Mitigation is the action of reducing the severity, seriousness, or painfulness of something.

Mitigation and restoration companies offers various types of mitigation services. Water damage mitigation, fire damage mitigation, mold mitigation and emergency services. Most of these services are geared to stopping the damage and/or reducing the cost of replacement of valuable contents, cost of repairs and preventing future issues such as mold.

This article will address one area of mitigation that many face on a daily basis. Home water damages. Approximately 14,000 people each day in the United States experience a water damage emergency in their home or business. These water emergencies usually occur from appliance supply lines such as ice maker, dish washer, washing machine, and condensation line to the air conditioner. Other type water losses include washing machine discharge, dish washer discharge stopped up toilet and sewage back-up. Other water damages can occur as result of storms causing roof damage, tree falling during storm or rising flood water.

According to the Institute of Inspection Cleaning and Restoration Certification (IICRC) water losses fall into three categories. Each category has guidelines to reduce the current and future damage, protect the home owner and business owner from dangerous bacteria and restore the property back to its pre-loss condition.

As mentioned in the previous paragraph water losses fall into three categories but they also fall into four classes. These classes are where the water is located, floor, how many walls, and was ceiling involved. So basically, category is where the water came from and class is where the water is located.

For the purpose of this article, we will address the categories of water and how each one is handled to protect the structure affected and the home or business owner.

Imagine coming home from work and finding water all over your kitchen floor, into your living room and amazingly in a bedroom adjacent to the living room. You inspect what has happened and as a homeowner you understand the water going through the opening from the kitchen to the living room but it went through a wall to get into the bed room. Many homeowners and business owners will dry water with towels, use a shop-vacuum to get as much as they can. They look and don't see any water and think its dry. Six months later they see microbial growth usually mold growing on that wall the water passed through. They fail to stop and think, how did that water go through the wall and into that other room. The fail to realize they were unable to dry the area inside the wall.

The water source in this scenario was not mentioned but it could have been from a supply line to the wash-

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ing machine, discharge from the dishwasher or a sewage back up from the city sewage system. All three of these scenarios should be handled in different ways.

A category one loss is a clean water loss general from a supply line. This water is basically drinking water, that poses no health risk to the homeowner or business owner. The fact that this is clean water doesn't mean it doesn't have to be removed and dried in a timely manner. Removing the water and drying in a timely manner protects the structure and in many cases flooring and walls can be saved reducing the cost of repair. To properly locate the water between walls a Psychrometer is used to determine the moisture level. This shows that areas of the wall must be opened for drying and what flooring should be removed to properly dry the subfloor.

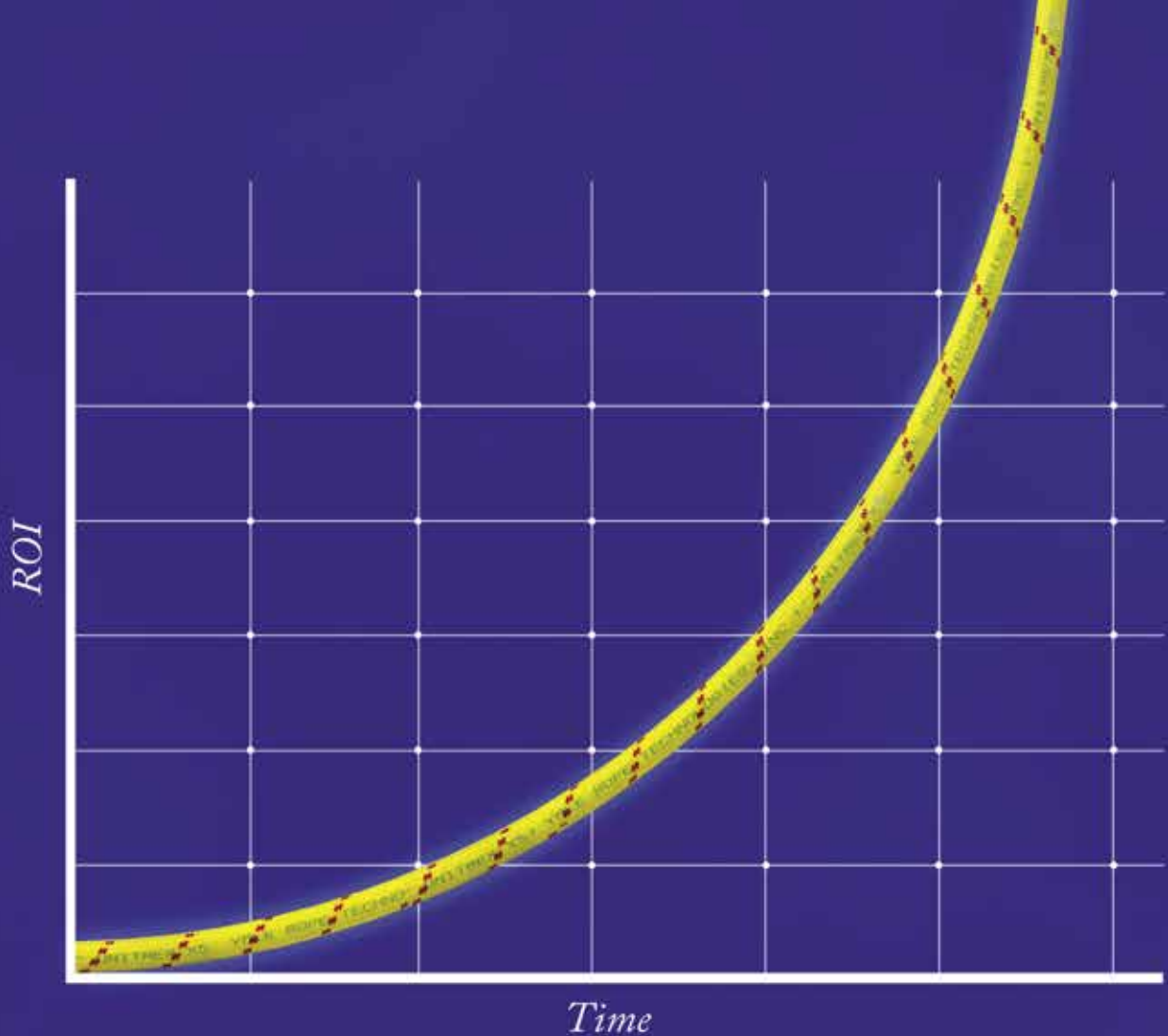
A clean water loss is an emergency situation that should be addressed in a timely manner. In twenty-four to forty-eight hours, clean water becomes contaminated and microbial growth can begin. This can cause a clean water loss to become a category two loss, which is grey water or considered lightly contaminated.

A category two water loss is a lightly contaminated water loss usually from a source that contains detergents and soils from the dishwasher or washing machine. A clean water loss is considered a category two loss if the water has sat for twenty-four to forty-eight hours and hasn't been addressed. A category two loss requires an anti-microbial spray to be applied, carpet padding removed and discarded.

A category two water loss must also be addressed in a timely manner. Failing to properly address a category two loss can result in the category two loss to be treated as a category three water loss because of microbial growth.

A category three water loss general comes from a septic system back up, sewage pipe back-up, or flood water.

A category three water loss requires the water technicians to wear protective suits including respirators to protect them from the bacteria present. Anti-microbi-



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al spray is applied upon arrival to reduce exposure to the technicians.

A category three water loss requires the disposal of all permeable items to be discarded. These items include, carpet, padding, affected clothe furniture, baseboards, sheet rock remove two feet above the water line affected insulation and discarding other items contaminated that is unable to be sanitized and made safe.

The most dangerous is the category three water losses is a sewage back-up. Keep in mind this sewage could be coming from other surrounding businesses and residence not just the house that was affected. This is why personal protective equipment must be worn.

Do not attempt to dry sewage with a fan. This will cause the bacteria to become airborne and affect other areas of the house or business. An air scrubber with a special filter is used to clean the air while commercial dehumidifiers are used to remove the

moisture.

Flood water which has entered your house or business is equal to sewage as far as water cleanup is concerned. Flood water can and usually is contaminated by animal feces, dead animals and even leaking sewers pipes. The same procedure used for a sewage back-up, is used for flood water that has entered your house. Any water that has hit the ground and traveled through yards, streets and other outside areas is considered flood water and must be treat in accordance to IICRC guidelines.

Looking back at the various types of water and how you mitigate the damages, you can see why mitigation is necessary in order to protect your investment but also to protect you from harmful microbials that could be the results of the water loss.

Keep in mind in most insurance policies, it has mitigation requirements in the event of a loss to reduce the damage and help reduce to cost of the loss. •



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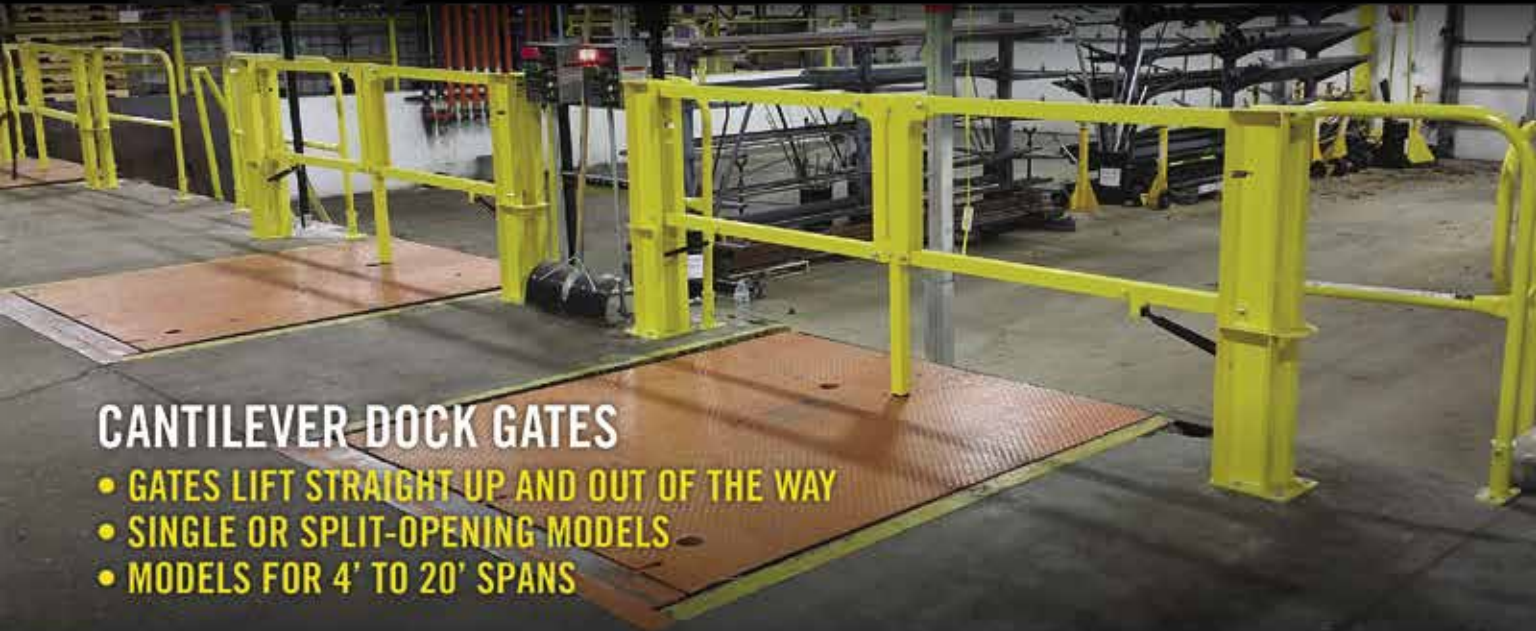
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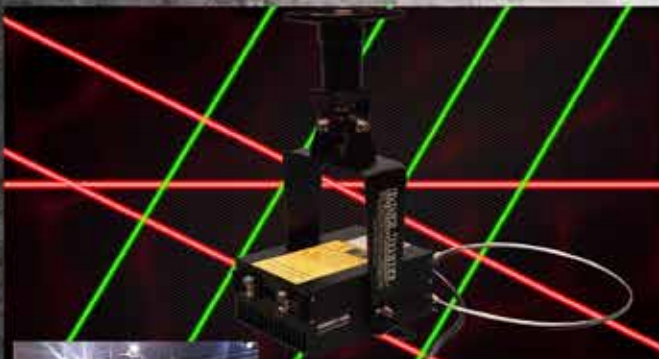


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