

HOW BUILDING OWNERS, TENANTS, AND DESIGNERS CAN WORK TOGETHER TO RETHINK THE OFFICE POST-COVID-19

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As businesses settle deeper into the work-from-home life, it becomes increasingly difficult to imagine what a return to the office will look like post-COVID. Normal day-to-day operations will be replaced by a demand to prioritize cleanliness and limit the spread of disease, but a clean building involves more than just a few conveniently-placed bottles of hand sanitizer; it demands a comprehensive understanding of how to use materials, technology, and design to safeguard high traffic spaces from becoming viral and bacterial hot spots.

In the return to work, businesses are tasked with transforming their spaces into cleaner environments that prioritize health. Though there are some steps building owners and tenants can take independently, collaboration between building owners, tenants, and designers will enable tenants and building owners to maximize the use of their existing spaces without compromising design, vision, and brand identity.

WHAT CAN BUILDING OWNERS DO?

Connect with architects and designers to make decisions that have long-lasting effects.



REEVALUATE YOUR AIR QUALITY

A recent study in the New England Journal of Medicine your HVAC system reduces the recirculation of air. In found that COVID-19 remained viable in aerosols order to improve the overall air quality of a building, practice regular maintenance on the HVAC system for at least three hours, which means it can spread more easily with poor ventilation and air circulation. by routinely changing filters, and consider upgrading Considering most Americans spend up to 90% of their filters to the highest quality compatible with the filter time indoors—and most of that time working in an rack. If possible, keep systems running 24 hours a office environment—investment in healthy air quality day to increase overall air circulation and maintain proper humidity levels to prevent the growth of will go a long way to ensure a healthy environment. contaminants. For high-traffic spaces in the building, Depending on pollution levels, increasing outdoor consider portable room air cleaners with HEPA filters, or UVGI purification systems, particularly in high-risk air ventilation is the first way to dilute contaminants in the building. Opening outdoor air dampers in spaces such as lobbies or waiting rooms.



INSTALL TOUCHLESS SOLUTIONS

The number of surfaces a person needs to touch to voice-activated elevators, no-touch filtered water get from a building's door to their desk are important dispensing, and occupancy sensors for light switches. considerations in the wake of the coronavirus. Though most smaller commercial buildings cannot become When considering more substantial retrofits, working solutions include installing touch-free apparatuses in common areas, such as no-touch trash receptacles, layout that minimizes barriers, such as those used in reception check-in through personal smartphones, airports and other transportation hubs. A designer digital temporary badges, no-touch hand-sanitizer will help account for proper spacing in circulation and soap dispensers, and hands-free foot pulls on spaces, particularly around high-traffic locations like security desks, to help move people through the space restroom doors. The next level up would be integrating motion-and-voice activated technology, such as using floor, ceiling, or architectural details rather than automatic doors and door openers, auto-flush toilets, physical barriers that require additional cleaning.

contactless overnight, some immediate low-budget together with your designer will enhance the preparedness of your building. Consider a doorless



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INTEGRATE HEALTHY MATERIALS

design for being sleek and easy to clean, studies have shown that COVID-19 and similar viruses live longer on stainless steel and plastic than other surfaces. exposed material edges that are susceptible. Owners can invest in replacing door hardware with

Though steel is common in commercial and industrial and be wary of design elements like wall reveals and ledges in locations that are more at risk for trapping bacteria. Consider material transitions and avoiding

copper or brass alternatives, which have been proven Clean design should not mean sterile design. Consult to deactivate bacteria and viruses due to inherent with your architect or designer about options for antimicrobial properties. Choose materials that are antimicrobial paints and surface coatings that are easy to clean and can handle harsh chemicals, such as appropriate for your space. Depending on the acidic cleaners or strong alkali cleaning agents. Limit application, the use of faux-look materials can achieve the use of horizontal surfaces (where not needed), a desired aesthetic without sacrificing cleanability.



INCORPORATE UV LIGHT

means to inactivate a wide range of bacteria. Building owners can incorporate the use of UV light in a variety of ways, from installing UVGI (ultraviolet germicidal irradiation) lights into HVAC duct-work to periodically research is still being conducted regarding the safety performing a UV "light wash" over office equipment of UV-C lighting on human skin, UV light washes when the office is not in use. Incorporating UV light should always be conducted after hours or when the

The use of UVC lighting has been proven effective as a conference spaces, where specially-placed lights can disinfect a room in one hour. If permanent in-room solutions are not viable, owners can consider portable UV equipment units that move from room to room. As

should be considered strategically for areas such as office is not in use. hotel lobbies, elevator lobbies, waiting spaces, and

WHAT CAN TENANTS DO?

While maintaining a good working relationship with building management to ensure healthy indoor environmental systems, tenants can also set an example for a workplace that prioritizes health.



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EXPAND YOUR CLEANING PROTOCOL

OSHA has issued new guidelines for preparing workplaces for COVID-19, and it is clear that maintaining a clean working environment is key to fighting the spread of infection. In addition to routinely cleaning and disinfecting regular-use surfaces like desks, kitchen counters, and phones, tenants should expand their cleaning routines to include other regular-use with no cleaning service, develop a rotating cleaning

machines, coffeemakers, elevator buttons. Keeping the supply closet fully stocked with EPA-approved cleansers, antibacterial wipes, tissues, hand soap and sanitizer, and kitchen sponges (the latter which should be replaced weekly) so that employees have cleaning supplies at their disposal. For smaller businesses

surfaces that may get less attention, like refrigerator schedule and hold employees accountable for their and drawer handles, dishwasher pulls, printer and copy responsibilities.



RETHINK THE OFFICE SPACE

enhance collaboration and productivity, they also can suggest opportunities to rearrange the office, for create the potential for shared germs. Consider example, to allow guests to walk through the office installing glass dividers between workstations, without crossing into employee work spaces, or allows which are easy to clean, while also allowing for light employees to meet and collaborate with guests in and visibility. If possible, arrange the office so that specially designated zones. desks maintain the minimum six-feet of physical distancing. Spread out microwaves, refrigerators, and work surfaces in break rooms so that employees are discouraged from congregating their food prep in one corner. If possible, install a dishwasher (or second dishwasher) to eliminate communal sponges that collect bacteria.

Though open-plan offices have been thought to sacrificing a company's culture or aesthetic. A designer

Tenants can also talk to an architect or designer about transitioning from an open-plan office to modular workstations, integrating distancing without



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MAKE WORKING REMOTELY AN OPTION-FOR GOOD

Now that many businesses have been forced to decreasing occupancy costs and reducing their carbon develop a work-from-home strategy in addition to footprint. For every person working remotely half the more flexible sick leave policies recommended by time, a typical employer can save about \$11,000/year per employee, and employees can themselves save the CDC, this option will be available to many more between \$2,500 and \$4,000 annually. workers long term. According to Global Workplace Analytics, an estimated 25-30% of the workforce will be working at home on a multiple-days-a-week basis Prioritizing health and wellness in office design and by the end of 2021. culture will offer tenants other financial returns as well. The National Institute for Occupational Safety Alternating remote work shifts among employees and Health (NIOSH) stated that in 2018, 17 million will dramatically decrease office density on a day-toworkdays were lost to the flu. That equates to day basis, allowing employees to maintain physical approximately \$7 billion in sick pay and \$10.4 billion in distancing without dramatically shifting office design direct costs for hospitalizations and outpatient doctor or demanding additional square footage. In the visits. Allowing—and encouraging—employees to work from home during their recovery time will boost long term, splitting office and home shifts may even enable businesses to shrink their space requirements, productivity and prevent the spread of sickness.

MOVING FORWARD

It's important to remember that the return to office life will be a complex transition. It's essential that business and building owners think about how to retrofit current and future office spaces to better protect employees from harmful pathogens. Collaboration among building owners, tenants, and designers will allow for both a strategic immediate response and a long-term preventative approach, ensuring the ultimate safety and health of occupants for both existing commercial buildings and buildings still in design and construction. Together this strengthened trifecta will help businesses get back on their feet and prepare themselves for the unpredictable post-COVID landscape.

