

# HONEYWELL CONSTRUCTION SAFETY SOLUTIONS

Head to-toe protection for workers when and where they need it most.



**Honeywell**

# YOU'RE NOT JUST HELPING TO PROTECT A WORKER. YOU'RE HELPING TO PROTECT A LIFE.

Construction workers face major risks on the job. At Honeywell, helping to protect workers is in our DNA. For decades, we've created comprehensive safety solutions designed to help protect the lives of 500 million workers every day. As environments change and new worker needs emerge, Honeywell's relentless drive to innovate for a safer future has never been stronger. In this future, safety solutions adapt to changing needs and environments. They increase productivity and efficiency, instead of getting in the way. And above all, they don't stop working until the last worker safely clocks out.

From acquiring the most well-known safety companies in the industry to pivoting the business to help support the pandemic and everything in between, Honeywell is driven to develop and design innovative construction safety solutions that help protect all workers when and where they need it the most.

## WHY PERSONAL PROTECTIVE EQUIPMENT MATTERS

There's a true cost to working in the construction industry, which is the most dangerous industry in the UK. With 40 deaths in 2019/20, the construction sector suffered the greatest number of work-related deaths of any sector in the UK. It was also the only sector that saw an increase in the number of deaths over the previous year's figure (up from a record low of 30 in 2018/19)

Additionally, Construction is taking 3rd place in the top industries with the highest total injury costs in the UK (£0.66 billion). \*\*

# £1.7M

Average cost of fatal injury

# £8,8K

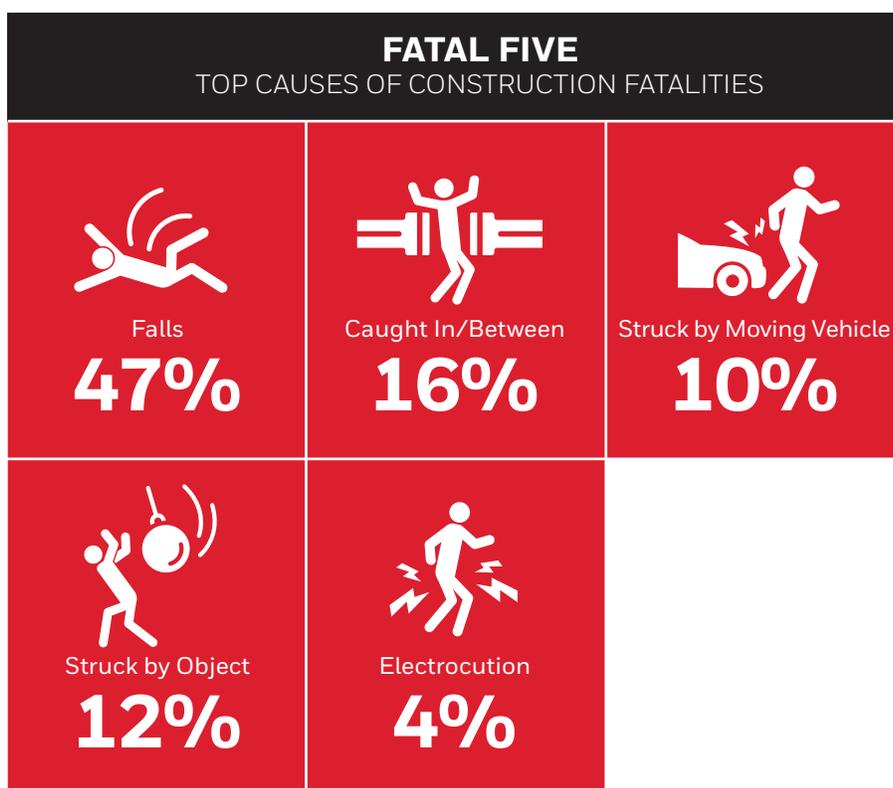
Average cost of non-fatal injury

# 17.1%

Of all fatalities in the UK is in Construction industry

# 81,000

work-related ill health cases (new or long-standing) in Construction in the UK, where 57% were musculoskeletal disorders



\*\*HSE Costs to Britain Model/ <http://www.hse.gov.uk/statistics>  
Construction statistics in Great Britain, 2020, HSE

\*Source: RIDDOR, 2015/16-2019/20. Accident kinds are shown for the top five RIDDOR, 2019/20 causes of fatal injuries.

# CONSTRUCTION HAZARDS AND SOLUTIONS

Worksite dangers are everywhere. Take steps to protect your people with the right PPE.



**1 HAZARDOUS NOISE**  
Operating loud construction equipment requires earplugs or earmuffs to help protect against hearing loss.

**2 HAND INJURY**  
Safety gloves help protect hands from sharp objects, heavy machines, chemical & thermal hazards.



**3 EXTREME HEAT**  
Help protect workers from heat hazards with light-colored hard hats, anti-fog eyewear, lightweight gloves and harnesses.



**4 WORKING AT HEIGHTS**  
Falls from heights result in 47% of construction worker fatalities. Lives are at risk if harnesses and other fall protection equipment aren't worn correctly.



**7 SILICA DUST**  
Sanding and grinding may release crystalline silica dust, a serious respiratory hazard. Appropriate masks are critical.



**6 WELDING SPARKS & FLASH**  
Sparks can burn hands and arms. Welding flash can severely harm eyesight. Help keep workers safe with face shields and gloves.



**5 DROPPED OBJECTS**  
If objects are dropped from height, fatality risk is about 12% on the ground. Safety nets, barriers, tool lanyards and hard hats help protect workers below.

# HONEYWELL CONSTRUCTION PPE

At Honeywell, we have a comprehensive set of PPE solutions specifically designed with the exact hazards of a construction site in mind.



Fall Protection



Respiratory Protection



Head Protection



Eye Protection



Hand Protection



Hearing Protection



Foot Protection



## FALLS ARE THE #1 CAUSE OF FATALITIES IN THE INDUSTRY

### FALL PROTECTION

47% of fatalities in the construction industry are a result of falls.

Collective fall protection equipment, (CPE) including barriers and netting, is widely recommended as a safety measure on sites where workers will be operating at height. Honeywell Combisafe has solutions available for most construction sub-sector solutions including safety nets and barriers which are effective, adaptable and simple to install.

The new **Steel mesh lightweight barrier** is flexible and offers a safety system for almost every challenging construction environment. Lightweight, easy to lift and move, it helps to decrease muscular injuries and reduce fatigue on a job site, taking care of the long-term effect on the workers' health.

Alongside CPE, Personal fall protection equipment, such as self-retracting lifelines (SRLs), provide an additional source of safety, allow users to operate 'hands-free', or are in use where collective protection has not yet been deployed or it is unsuitable.

At Honeywell, we have a comprehensive set of PPE solutions specifically designed with the exact hazards of a construction site in mind. Our leading edge Self-Retracting Lifelines, including the **Honeywell Miller® TurboLite Edge**, are highly durable and can withstand sharp edges, helping to keep workers safer in the event of a fall.

The **Honeywell Miller® Falcon™ Edge Self-Retracting Lifelines** are designed for performance in edge applications. **Falcon™ Edge** SRLs offer versatility, reliability, and maximum safety, also in harsh weather conditions. They provide protection for all working at height situations – horizontal, vertical, mounted overhead, anchored at foot level and work near edges. SRLs are available in 6.2, 9, 15 and 18 meters working lengths and are durably designed with corrosion resistant internal components.

Safety innovation in fall protection means creating lighter, more breathable, and more ergonomic PPE. Out of all work-related ill health cases in Construction - 57% were cases of musculoskeletal disorder (new or long-standing). This is why after a breadth of research surrounding overexertion, heat and musculoskeletal disorders Honeywell developed the new **Honeywell Miller® H500** series of safety harnesses.

Its new, patented shoulder and back padding design minimizes muscular fatigue, meaning that workers at height can do their jobs without risking overexertion and exhaustion that could lead to serious injuries. It also incorporates webbing in the fabric, which flexes with movement and body contours around the legs and shoulders, so that workers can use the harness all shift long without discomfort. An **Arc Flash H500 harness** was designed to self-extinguish quickly and prevent melting or dripping in the event of an arc flash.

The **Honeywell Miller® H100** series meets the most common fall protection needs while maintaining a focus on value and safety. It's a cost-effective harness that is lightweight, comfortable, and supports up to 140kg. An excellent value at its price point.



Honeywell Miller® H500



Honeywell Miller® H100



Honeywell Miller® TurboLite SRL



Honeywell Miller® Falcon Edge SRL



Honeywell Combisafe Steel Mesh Barrier

\*Source: LFS, estimated annual average 2017/18-2019/20

## RESPIRATORY PROTECTION

Respirable crystalline silica can be found on almost all construction sites, particularly where workers are grinding, sawing and cutting materials like concrete, stone, brick, mortar and sand. Without the proper respiratory protection, workers may not see or feel the effects now, but could end up with serious health issues, as silicosis, later in life. In Britain, the workplace exposure limit for respirable silica dust is 0.1 mg/m<sup>3</sup>, averaged over 8 hours, which is equivalent to 100 micrograms per cubic metre (µg/m<sup>3</sup>)\* Employers must comply with The Control of Substances Hazardous to Health Regulations 2002 (COSHH) to carry a risk assessment, prevent or control exposures to RCS and provide workers with personal protective equipment, while the users need to make sure they are wearing the right type of respirator for the job to ensure it fits properly. Comfort plays a large part in respiratory protection compliance: if respirators aren't comfortable, there's a chance workers won't wear them (or wear them incorrectly).

Designed to fit most face sizes and shapes, Honeywell's high-quality disposable respirators provide excellent safety and outstanding comfort for the user. **Honeywell Comfort Series 5000 Single Use Premium Masks** offer improved individual fit of the nose-bridge, high performance exhalation valve for easier breathing during prolonged use, and double stapled elastic strap for repeated mask removals.

Honeywell **H910 flatfold N95 Disposable respirator** is designed to fit most faces comfortably, accommodating the user's facial movements. It's durably designed to last throughout the workday, and features a humidity and moisture resistant filter media that repels moisture for a longer lasting respirator.

For applications involving the risk of inhaling harmful particles, where wearing respiratory protection is not always comfortable, Honeywell has created air purifying respirators (APR) or face masks respirators, which provide exceptional design and comfort, perfect fit, compatibility with a wide range of personal protective equipment (PPE)

The **Honeywell North® HM500 Series Half Mask** is engineered as a lightweight, durable, soft half-mask with easy operation features. Available in non-drop-down and drop-down versions to ensure better comfort and convenience for extended wear. The drop-down option allows workers to remove the masks without taking off hard hats, earmuffs or eyewear. Fully compatible with the HM500, Honeywell N-Series Filters and Cartridges are quick and easy to attach and remain securely in place.



5000 Series 5311



H910 Flatfold



HM500

\*<https://www.hse.gov.uk/pubns/indg463.htm>

## HEAD PROTECTION

Construction sites pose major risks: exposure to dropped objects, impacts, and bumps to the head. Our hard hats and safety helmets provide best-in-class protection, comfort and reliability. With stylish, lightweight shell designs, suspension height adjustment and comfortable padding, workers won't just have to wear them – they'll want to.

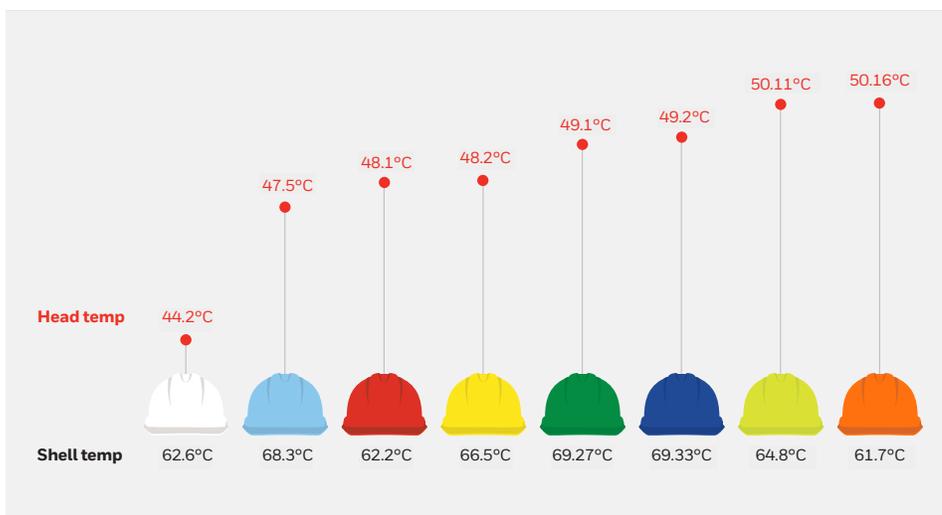
Full brim and low-profile designs provide increased field of vision and user mobility, while our safety helmets offer a snug fit and peace of mind for workers working at heights. Some styles even work well paired with our required PPE, featuring slots for cap-mounted earmuffs, face shields and other PPE accessories.



Honeywell® North Short Brim Hard Hat



Honeywell® North Short Brim Hard Hat Vented



### DID YOU KNOW?

Lighter colored hard hats scientifically help keep workers cooler when working outdoors in the heat. Honeywell studies show that in a 32.2° C environment, the temperature surrounding a worker's head is lowest with hard hats that are white and highest with hard hats that are orange or high-visibility yellow.

Enhanced performance, all-day comfort, durability – **Honeywell North Short Brim Hard Hat** combines the heritages of the 2 world-recognized brands into a new cost-effective certified head protection solution, with vented and non-vented versions. Both are compatible with earmuffs for both hearing and head protection.

If the hard hat isn't well-balanced or moves and slips out of place, it can increase risks and reduce worker productivity. Therefore, Honeywell has designed this hard hat with a four-point ratchet suspension, a dual-locking mechanism and an optional four-point chin strap to customize your fit. Whether you work in extreme heat or cold environments, you'll benefit from the same reliable protection – the hard hat is resistant to temperatures from -30° C to +50° C

Made of high-density polyethylene (HDPE), to weights up to 410 g, **Honeywell North Short Brim Hard Hat** is the quality safety solution for all-day wear, protecting against impact and falling or flying objects.



## EYE PROTECTION

The most common eye injuries include impact, dust, chemicals, heat and optical radiation. Safety glasses can prevent about 90 percent of critical eye injuries. However, two major reasons for worker eye injuries include not wearing eye protection and wearing the wrong kind of eye protection for the job. And wearing ill-fitting safety eyewear can be just as dangerous as wearing none at all. Honeywell has a range of protective eyewear including safety glasses that are simple and affordable, designed for all types of basic construction work and coming in various sizes. Our comprehensive line of eye protection includes industrial strength safety eyewear, safety goggles, face shields, welding goggles and welding shields. Our products deliver the highest levels of protection with anti-fog and anti-scratch coating, comfort, fit, durability, and style.

With **Honeywell A800** eyewear, affordably priced, users benefit from the sporty, wrap-around style with extra Flex built-in temples for increased tension control. While **Honeywell SVP 400 Series Safety Glasses** dual-material temple tips, plus anti-fog and anti-scratch hard coatings, help keep part-time and full-time workers safe all day. Designed with the worker in mind, the unique technology of **AVATAR Protective Eyewear** allows for eight points of adjustability in this customizable, stylish eyewear. The **HydroShield®** coating offers anti-fog and scratch-resistance.



Honeywell® A800



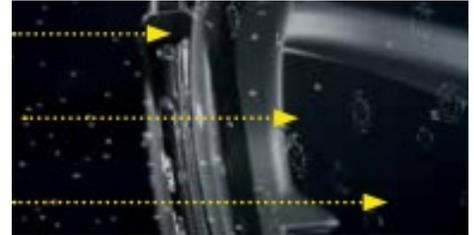
Honeywell® SVP 400 Series



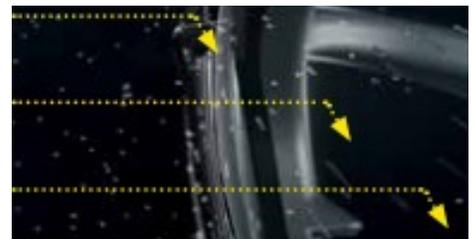
Avatar



**HydroShield Anti-Fog Coating** - is permanently bonded to the lens, featuring dual-action properties that keep lenses clear up to 20X longer than the current coating.



**Hydrophobic Action** - Moisture is absorbed by the lens



**Hydrophobic Action** - Water droplets from and are repelled to the sides of the lens

## HAND PROTECTION

Working with sharp objects and heavy machinery, plus consistently repetitive motion, exposes workers' hands to serious potential injury. Our industrial safety gloves are designed to help keep workers safe and efficient when handling all types of surfaces and components in various environments. If you're seeking an economical choice, our **WorkEasy** gloves are just what you're looking for. They offer good quality mechanical and cut resistance, dexterity, and comfort at an excellent price.

Honeywell also offers a wide range of safety gloves that are cut-resistant and lightweight, providing top-of-the-line hand protection. For example, **Rig Dog™ Knitted and Dipped** high impact gloves provide ultimate cut resistance in 3 styles: Grip Plus, Water Protection and Cold Protection. The seamless machine knit allows better dexterity to handle small parts and are comfortable to wear during long shifts in tough environments. Cut-resistance, comfort and dexterity can also be found in Honeywell **CoreShield™** gloves. They're available in all levels of cut-resistance, from lowest (A/A1) to highest (F/A9). Thanks to **CoreShield™ engineered yarn** and **CoreShield™ high performance coating**, these gloves are very light, breathable, and comfortable, while also providing superior grip. For high chemical protection, **Flextril Nitrile Chemical** gloves are an excellent choice for reliable cut-resistance, great wet and dry grip, enhanced dexterity, and improved comfort.



WorkEasy



Rig Dog™ Knit Grip Plus



CoreShield™

## HEARING PROTECTION

Construction environments use loud machinery and tools to get the job done. While hazardous noise may not cause adverse effects immediately, exposure to it adds up cumulatively over time. Long-term hearing can be impacted by not having the right fitting ear protection. From innovative electronic earmuffs to connected earmuffs, our hearing protection solutions are designed to fit and seal to the worker's ear perfectly. For example, the **Verishield™ 100 Series** passive earmuffs comfortably fit a wide range of head sizes, have wide cup openings to accommodate larger ears or hearing aids, feature a lightweight cushioned headband and memory foam ear cushions for greater comfort. Our earplugs, like the **Howard Leight MAX®** and **Howard Leight TrustFit®**, expertly cancel noise and manage sound in acoustically challenging environments. The **MAX® disposable earplug** is the world's most popular polyurethane foam earplug. The enhanced contoured shape is easy to insert and resists backing out of the ear canal. The **TrustFit® Pod reusable push-in earplugs** are designed with an ergonomic stem and dimpled foam tip so they're easy to fully insert and remove. They're available in corded or non-corded styles.



Verishield™ 100



Howard Leight MAX®



Howard Leight TrustFit™

Source: [www.hse.gov.uk](http://www.hse.gov.uk)

Source: Industrial Injuries Disablement Benefit (IIDB)

Source: [www.ec.europa.eu](http://www.ec.europa.eu)

## NOISE EXPOSURE RATES & EFFECTS

# 4<sup>TH</sup>

highest safety risk in construction industry is NOISE

# 17K

Estimated number of workers with work-related hearing problems, 2017/18 to 2019/20

# 95

New cases of occupational deafness in 2019

# 1,125

New cases of occupational deafness from 2010 to 2019

# 35%

Estimated percentage of construction workers in the EU with substantial hearing loss





## FOOTWEAR PROTECTION

Out of all the non-fatal injuries in the Construction sector in the UK, slips, trips or falls on the same level take the first place (26%)\*. These can be an effect of wearing an inappropriate footwear on site. Slips, trips and falls are one of the most common accidents resulting in injuries and fatalities. Working at height makes the consequences of a fall much more severe, and it is vital that safety shoes provide as much protection as possible. The ideal safety shoe for scaffolders is light and has excellent grip. Water resistance is also important for outdoor work so that safety shoes do not become waterlogged and heavy.

Employees wear safety footwear for long hours, and they may also walk long distances each day. These factors combine to put employees at risk of musculoskeletal damage unless the selected safety footwear provides sufficient support and cushioning to prevent long term damage.

The **Honeywell Otter range** provides superior protection and an easy, natural flexing motion. In addition to great slip, anti-puncture and antistatic resistance, Honeywell Otter has incorporated technological inventions for improved comfort and fit. The uniquely designed, soft heel inserts provide excellent shock absorption, reducing fatigue and relieving the stress on workers joints, whether they work indoors or outdoors, or in rough work conditions. The patented FlexFit lacing system respects individual foot anatomy and needs for movement while securing ankle stability and a strong tide. The patented Otter MFUS metatarsal bandages ensure a personalized fit and foot support while maintaining flexibility. The orthopedic insoles further enhance comfort, providing more cushioning and reducing foot fatigue, helping prevent workers long term health.



*Otter Breather Mid*



*Otter Guard Mid*



*Otter Guard Ice*

\*Source: LFS, estimated annual average 2017/18-2019/20.



# LET HONEYWELL BE YOUR GUIDE

With the multitude of hazards present on a construction site, knowing how and where to find solutions can be daunting. Let Honeywell be your guide to helping create a safer working environment. With our legacy as an expert in the field of safety and our continued innovation in safety product solutions, you can rely on Honeywell's trustworthy products to give you peace of mind, while helping provide workers the safety they need.

**Because at the end of the day, you're  
not just helping to protect a worker.  
You're helping to protect a life.**

#### **For more information**

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