

# Glass Enclosure for Healthcare Worker Protection

Protecting our critical front-line healthcare workers during a pandemic



Healthcare workers at the front-line of defense in the fight against COVID-19 are at elevated risk for infection as they test and treat patients.



Nearly 1 in 5 medical professionals have been infected by COVID-19 in the U.S.<sup>1</sup>

## AGGREGATING FACTORS

- Critical shortage of Personal Protective Equipment (PPE)
- Temporary tents and repurposed, non-clinical spaces create difficult-to-control environments to triage or treat patients
- Staff and volunteers serving in front-line roles to fill workforce shortages may lack proper training

# 31%

Of Physicians and 26% of Registered Nurses in the U.S. are 55 or older<sup>2</sup>

# 48%

U.S. healthcare facilities surveyed lack enough masks to use in caring for patients with COVID-19<sup>3</sup>

## NEW HEALTHCARE WORKER PROTECTION ENCLOSURE

The **Glass Enclosure for Healthcare Worker Protection** is a positive pressure enclosure designed to provide a **physical barrier** between healthcare workers and the public as they conduct patient screening and COVID-19 testing. It is designed to help mitigate pathogen exposure, reduce the need for limited PPE and provide alternatives for patient capacity planning.



## HOW IT HELPS



Provides a physical protective barrier between workers and patients during screening and testing, expediting process



Reduces the need for PPE for the healthcare worker mitigating critical shortages



Reduces risk to healthcare workers from airborne bodily fluids from sneezing, coughing and talking

Sources  
 1. Centers for Disease Control and Prevention, Morbidity and Mortality Weekly Report, April 17, 2020  
 2. The U.S. Health Workforce Chartbook; September 2018  
 3. Association for Professionals in Infection Control and Epidemiology National Survey; March 27 2020  
 4. U.S. Bureau of Labor Statistics

# FEATURES & SAFETY

- Utilizes the same tight joinery used on Oldcastle BuildingEnvelope® window and wall products to minimize airflow
- Employs an integrated venting mechanism using positive pressure in the interior to mitigate airflow from the outside to the inside
- HEPA and other filtration options exceeding N95 capabilities available upon request
- Glazing designed for durability in case of impact or breakage
- Glass can be coated with a hydrophobic compound that is easy to clean
- Two-way no draft communication with exterior gloved arms to conduct patient assessments without physical contact
- Constructed as a turnkey unitized solution, incorporating storing and protecting of medical gear that would come in contact with the patient
- Configured individually or in multiple units, depending on logistics and healthcare needs
- Designed and manufactured in the U.S.A.

## CONSERVING & PROTECTING

The Glass Enclosure for Healthcare Worker Protection is designed to conserve the use of limited PPE resources while increasing protection of vulnerable front-line healthcare workers. By protecting healthcare workers behind a physical barrier, they limit the need to change PPE between patients, as outlined by conventional CDC protocols, and they minimize risk to themselves and patients if they are following CDC contingency or crisis protocols and reusing PPE between patients.

**80%+**  
PPE KITS

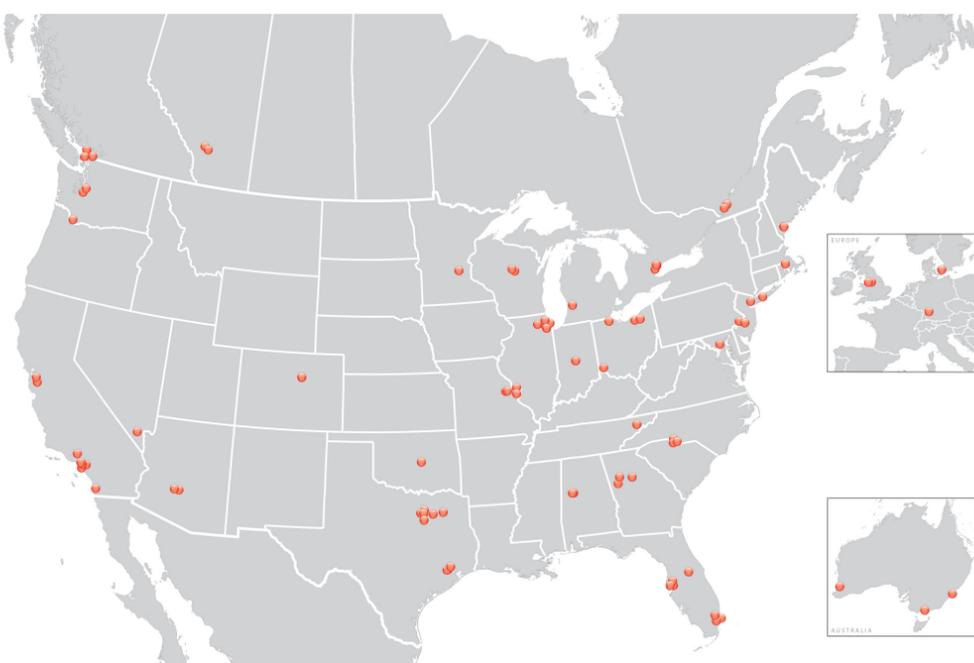
Over 80% reduction in PPE needs as compared to CDC conventional PPE guidance.

**740K**  
INFECTED

Over 700,000 healthcare workers could be infected in the U.S. if infection rates follow those of Italy or Spain.<sup>4</sup>

## OLDCASTLE BUILDINGENVELOPE®

Oldcastle BuildingEnvelope (OBE) is a leading global supplier of architectural glass, metal and hardware headquartered in Dallas, TX. The OBE network of manufacturing facilities produces products within 500 miles of all major US metropolitan locations, aiding in rapid deployment.



**80+**

Manufacturing and distribution locations across the U.S. & Canada

**6500+**

Global employees, primarily in the U.S.

## WHAT'S NEXT

Your help is needed to quickly deploy this product

**1** Support the product and provide your intent to implement.

**2** Support healthcare worker feedback to meet local needs.

Contact Oldcastle BuildingEnvelope® at 866-OLDCASTLE (653-2278) for more information. Emergency Use Authorization requested from the FDA in an effort to rapidly deploy the product.

This is a patent-pending proprietary product of Oldcastle BuildingEnvelope.

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