



---

Intensive care units and hospital facilities

# CONTAINMENT CUBE





Construction and maintenance activities in healthcare facilities can release potentially harmful particulates into the air, such as dust and dirt particles and sawdust. Fungal spores, including *Aspergillum* can attach to these particles and while harmless to most, inhaling these spores can lead to serious morbidity and mortality in immune suppressed populations.

Foreign particles can escape during minor maintenance and construction activities, such as running cable above a drop-ceiling grid or working in wall cavities.

Heavier, visible particles and debris, as well as smaller particles that agglomerate (clump together) will re-settle on floors and other surfaces.

However, containment also needs to consider the smaller, lighter particles – the ones we don't easily see with the naked eye ( $\leq 50$  microns). Those particles can remain suspended in the air for days, traveling through the facility on air currents. Studies have shown that invasive *Aspergillosis* among immune suppressed patients can have serious health consequences and mortality rates from this infection are high.

Due to their small size (2-3.5 microns), about 70% of *Aspergillus fumigatus* spores are able to penetrate into the trachea and primary bronchi.



## GUIDELINES FOR INFECTION CONTROL IN HEALTHCARE ENVIRONMENTS DURING CONSTRUCTION AND RENOVATION

There are a number of recommended protective measures for Australian hospitals, incorporated from leading international guidelines, to prevent the spread of infection during construction and renovation in healthcare facilities.

Of note are:

*Infection Control Principles for the Management of Construction, Renovation, Repairs and Maintenance within Health Care Facilities: A Manual for Reducing the Risk of Health Care Associated Infection by Dust and Water Borne Micro-organisms*

Loddon Mallee Region Infection Control Resource Centre 2003. (Revised 2005)

*Australasian Health Facility Guidelines (AHFG) Part D: Infection Prevention and Control, D-0900 Construction and Renovation*

Available from: <https://healthfacilityguidelines.com.au/>

*Guidelines for Environmental Infection Control in Health-Care Facilities (2003)*

Centers for Disease Control (CDC)

*APIC State-of-the-Art Report: The role of infection control during construction in health care facilities*

Association for Professionals in Infection Control and Epidemiology, Inc (APIC)

The aforementioned documents recommend taking a formal approach to risk management – it should be part of all construction, renovation and maintenance activities within a healthcare facility.

Some projects may require fabricating a containment barrier around a large work area but, other jobs can be handled effectively, and less expensively, by placing only the localised work area under containment. This method is especially advantageous when conducting scheduled or corrective maintenance across occupied locations.



## Product Features

# CONTAINMENT CUBE

When in operation, the space inside the cube is kept under negative-pressure making the Containment Cube an effective tool for the containment of particles. The attached HEPA filtration scrubber continuously pulls air through the space, preventing the release of particles outside.

The enclosure is made from a tough reinforced PVC material, the same used to make military tents for harsh outdoor environments, it's designed to be lightweight and resistant to tears.



**RELIABLE & DURABLE NON-BINDING COIL ZIPPERS**  
Heavy-duty, won't bind and catch like tooth zippers

**REINFORCED, ULTRASONICALLY WELDED SEAMS**  
Stronger & more reliable than sewn or heat-sealed seams

**OUTER WORK ORDER POUCH WITH CLEAR PVC COVER**  
Documents are protected, and readily visible

**AIR SCRUBBER AND HEPA VACUUM PORTS**  
Reinforced to prevent collapse under negative pressure

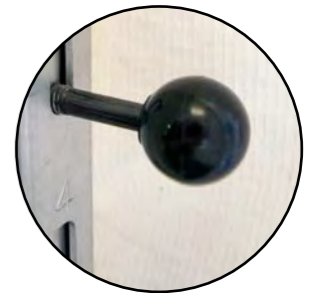
**CORROSION-RESISTANT ALUMINUM BOTTOM FRAME**  
Corner sleeves & locking pins for secure pole retention



**HEAVY-DUTY CASTERS WITH FOOT BRAKES**  
Excellent mobility, strength & stability



**ADJUSTABLE, SPRING-LOADED UPRIGHT POLES**  
Four numbered height settings are etched right into the pole



**LARGE ZIPPERED SIDE DOORS ON 3 SIDES**  
Easy exit or entry, & maximum user versatility

**EXTRA HEAVY-DUTY BLUE FLOOR FABRIC**  
Added strength and durability. Easy exit or entry, & maximum user versatility

## Tech Specs

# CONTAINMENT CUBE

### FAST, SIMPLE ASSEMBLY

One person can assemble the Containment Cube and have it ready to use in minutes. Colour-coded alignment dots clearly show how components fit together, and the blue floor makes it simple to orient the enclosure around the frame.

### EASY TO USE

The Containment Cube is easy to roll to the job site, fully assembled. It can be safely used while still mounted on the 180kg capacity cart (400lbs), with the caster foot brakes locked; or, the frame and enclosure can be removed from the cart and placed on the floor. The convenient and easy to use height-adjustment knob and the numbered slots etched into each pole ensure that each pole is set to the same height.

FEATURE	SPECS
Foot print dimension	77 x 153cm
Max. usable ceiling height:	
• with mobile cart	304.8cm
• without mobile cart	283.5cm
Min. usable ceiling height (on the cart)	213.5cm
Min. usable ceiling height (off the cart)	192cm
Total weight including mobile cart	42.2kg
Total weight excluding mobile cart	32.2kg
Mobile cart / frame material	Corrosion resistant aluminum
Casters (2 fixed, 2 swivel)	127mm heavy-duty with bearings
Caster locks	Yes, foot brakes
Cart load rating	180kg (400lbs)
Upright poles	Aluminum
Cart construction	Solid-rivet, aircraft construction
Zippered entry / exit door	Yes
Top frame material	Corrosion resistant aluminum
Large view windows	Yes, total of 4 (1 on each side)
Transparent info pocket	Yes
Portable air scrubber attachment port	Yes, fits 8", 10" and 12" inlet collars
HEPA vacuum port	Yes, fits up to 3" hose
Pass-through ventilation port	Yes

CONTACT AIR RESTORE NOW

**1300 780 474**

AIR RESTORE BRISBANE

32 DIVIDEND ST  
MANSFIELD, QLD 4122

