



**HAYWARD**<sup>®</sup>  
SO YOU CAN BUILD

## Construction Site COVID Ventilation Strategy of 6 Air Changes Per Hour

The goal is to make the inside air like the outside. One way to achieve this is to bring air in with a fan on one side of the construction site and pull it out on the opposite side.

This ventilation method always uses 2 or more consumer box fans on the **LOW** setting. The fans are always in pairs, airflow **IN** and **OUT**.

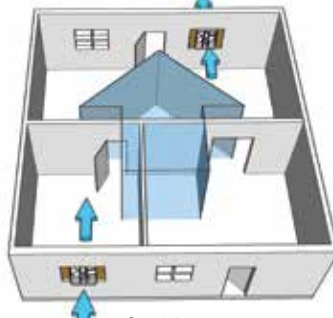
**How many pairs of fans do I need?** 2 box fans can ventilate 6 Air Changes Per Hour for a volume of 10,000ft<sup>3</sup> or an area of 10,00ft<sup>2</sup> with 10ft ceilings. The average box fan airflow on the **LOW** setting is approximately 1000cfm (cubic feet per minute)

**Determine the volume or square footage of the area and add pairs of fans as needed, more ventilation is better than less.**

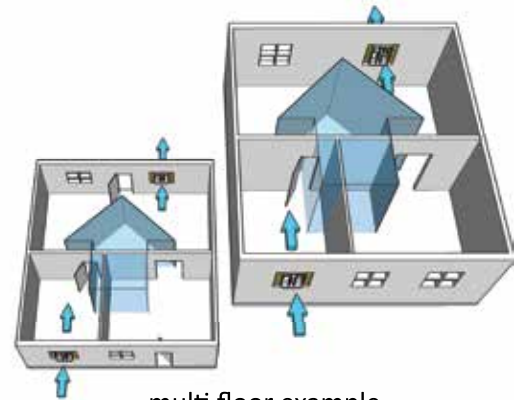
### **Where should I put the fans?**

The fans are installed in the windows, one blowing IN and one on the opposite side blowing OUT. Follow the size recommendations above and for multiple floors, there should be one pair per floor. Make sure the fans are blowing in the same direction as any outside wind airflow.

1 fan blowing OUT



1 fan blowing IN  
1 floor example



multi floor example

**How do I install the fans?** Make sure the fans are secured and the power cords are not a trip hazard. Seal the gaps on the sides or top with tape, cardboard, ram board, or similar materials.

**When should I begin to ventilate?** As soon as the construction site is "closed in," exterior walls and roof is installed, or in the drywall phase.

**What about the other rooms?** All the interior doors must be open. Weather and conditions permitting all the other windows and doors should be open to provide additional natural airflow.



box fan blowing OUT

Scan this QR Code to access COVID resources including videos, and this document. More info at [haywardlumber.com/covid-19](http://haywardlumber.com/covid-19)



*Staying Safer During COVID-19*

## Hayward Score Recommendations for the Construction Industry

Want to keep your workers as safe as possible on jobsites?  
Have these items on hand.

### COVER THE BASICS:

- Masks
- Hand Sanitizer and Hand Washing Stations
- Safety Glasses

### INCREASE VENTILATION TO 6 ACH AND REDUCE STAGNANT AIR WITH WINDOW FANS:

- Pair of Box Fans (1 supply; 1 exhaust) per 10,000 ft<sup>3</sup>\*
  - Plywood, masonite, cardboard, or similar material
  - Tape
  - Grounded Extension Cords
- ➡ *If outdoor air is poor, attach MERV 13 filter to supply fan*

### ADD FILTRATION IF NEEDED:

*1 fan per 2-3 people in an occupied space*

For  
Dust

- Box Fan + 4" MERV 11+ Filter Attached

For  
COVID

- Box Fan + 4" MERV 13 or 16 Filter Attached

For  
Smoke

- Box Fan + 4" MERV 13 + Charcoal Filter Attached

### IMPROVE DUST MANAGEMENT:

- HEPA filtered vacuum cleaner  
or
- Extension hose(s) for standard jobsite vacuum to exhaust outdoors  
(*away from open windows*)

\*assumes 1000 CFM rating per fan