

# *VanAir™ Ventilated Door*



# COMFORT AND WELL-BEING FOR MODERN SPACES

## INDOOR AIR QUALITY

Good Indoor Air Quality is essential to a comfortable home and healthy living. Air circulation plays an important role in reducing air pollutants like CO<sup>2</sup> in our homes, which can lead to respiratory illnesses, poor sleep and breathing disorders.

## DOOR INNOVATION

Architects face the challenge of creating comfortable spaces supplied with fresh air and separated from external noise. The VanAir Ventilated Door uses an integrated channel running through the door to move air from either side enhancing both performance and style.



### AIRFLOW PATHWAY

Air flows in from one side, through the door core and out the opposing side.



### SOUND PRIVACY

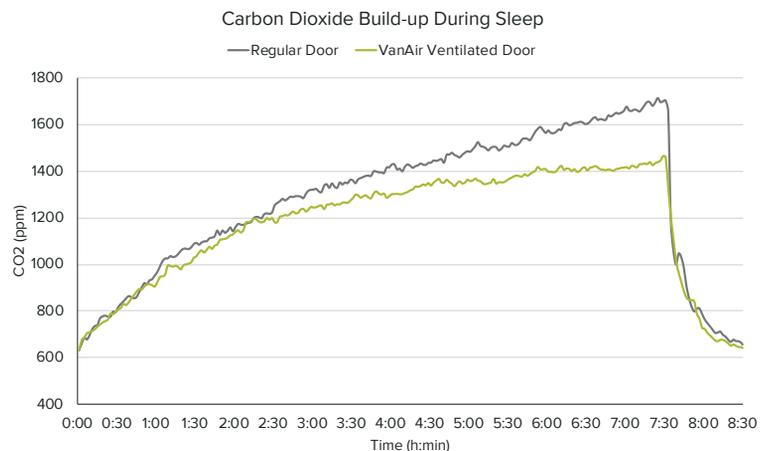
Lab-tested baffling and resonators are integrated into the door core to block high and low frequency sound.



## INDOOR POLLUTANTS AND CARBON DIOXIDE BUILD-UP

As humans, we breathe oxygen in the air and exhale CO<sup>2</sup> as a by-product. We spend most of our time indoors in our homes and at work. As a result, the CO<sup>2</sup> we produce can build up to an uncomfortable level if there is not adequate air circulation. CO<sup>2</sup> in excess can affect our respiratory health and lead to sleep and breathing disorders.

VanAir ventilated doors provide an airflow pathway to allow air circulation in bedrooms with or without mechanical systems. This helps to reduce the number of contaminants in the air and reduces the build-up of CO<sup>2</sup>. VanAir doors have been shown to reduce the CO<sup>2</sup> build-up of one occupant sleeping at night by 20% compared to a regular door with standard ventilation.



\*The concentration of CO<sup>2</sup> is measured in units of parts per million (ppm), as a ratio of the volume of CO<sup>2</sup> particles to the volume of air.



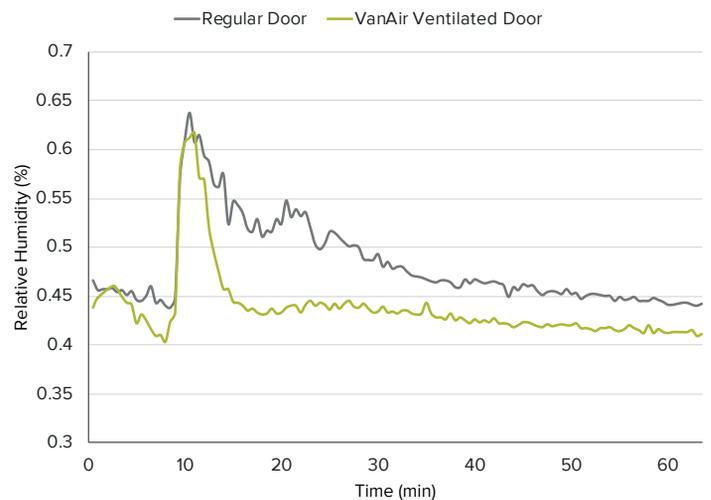
## RELATIVE HUMIDITY

Managing humidity in your home is important for the health of your family and the longevity of the living space.

Activities like showering and cooking release large amounts of water vapor into the air. Water vapor condenses into liquid droplets on surfaces around your home, especially on cold and out-of-sight corners. The build-up of water droplets creates the ideal conditions for mold, mildew and rot.

Installing a VanAir door in the bathroom provides additional make-up air to the room, allowing the exhaust fan to work more effectively. The VanAir door reduces humidity by up to 20% after a shower and returns to original levels immediately compared to a standard door.

Relative Humidity Build-up During a Shower



## BENEFITS

The VanAir Door by Lynden Door optimizes airflow and ventilation while delivering a modern aesthetic with privacy and sound control.

- Create comfortable living environments for you and your family by alleviating temperature, humidity and pressure build-up.
- Reduce carbon dioxide build-up for a healthier home.
- Keep laundry appliances, bathroom exhaust fans and mechanical equipment running efficiently.
- Improve ventilation without having to use unsightly vents and grilles.





## TECHNOLOGY

Holistically designed to improve heating, ventilation and air conditioning (HVAC) performance, the flush ventilation slots acoustically outperform baffled door/wall grilles. The VanAir Ventilated Door replaces the common practice of undercutting doors, overhead ducting and a cluttered aesthetic of surface-mounted after-market grilles.

## AIRFLOW PERFORMANCE\*

**80 IN<sup>2</sup> - 160 IN<sup>2</sup>**

## SOUND PRIVACY PERFORMANCE\*

UP TO **25STC**

\* Independently tested in accordance to ASTM standards. Please contact Lynden Door, Inc. for additional information and measurements.

## AVAILABILITY

VanAir Ventilated Doors by Lynden Door are offered in a variety of door surfaces, including custom veneers and laminates - contact your Lynden Door representative for more information.

- Designed to fit standard 1-3/4" and 1-3/8" door openings. Use in hinged, pocket, double and sliding door applications
- Available up to 4'0" in width and 10'0" in height
- Suitable for single, multi-family residential and commercial spaces, hotels, schools and healthcare facilities
- VanAir accepts all types of hardware, closers and sweeps

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