

“360 Wall Vent” Data Sheet

Part Specifications

Parts: External Vent Body with mounting flange; 14. 1/8” x 9.5” x 4 1/8”

Internal Port with exhaust screen, water proofing and attachment flange. 7” x 7” x 5 3/4”

Composite: ABS **Color:** Black **Port Bug screen:** mesh 18 x 16, aperture .0445” x .0515”

Attachment: A good exterior caulking must be used on the port to wall seal; the vent body should also be sealed. Do not use tapered screws; flat head with a washer or rivets depending on the wall material. Note, the vent construction is a light gauge plastic; a tapered fastener could split the mounting flange. **See Drawings.**

Installation: Determine the location of vent; see “Vent Location” below.

The vent body can be placed vertically or horizontally depending on the application and available space. The square port must always be mounted in the up position so that the interior port opening is facing up, outside louvers down. If it’s a vertical install do not secure the sides of the port, only in the center of the top and bottom flange (fasteners on the sides will interfere with the placement of the vent body) the vent body will secure the sides of the port. For a horizontal install secure the port with one fastener on each side. The vent body must fit properly on top of the port to fit into the side indents located on the vent body flange surface. Use two fasteners on the top flange approximately 6” apart to ensure a secured water seal for the top of the port. The wall mounting surface should be vertical within a couple degrees to ensure reliable water protection.

Cut out requirement: 5 1/4” x 5 1/4”. **Flange width 1”**

Note: The vent protrudes 4 1/8” off the exterior mounting surface and protrudes 5” on the inside. Watch for door opening clearances and interior obstructions. The vent will prevent a container door from opening to its side wall latching point.

Air flow Specifications

Minimum threshold: less than 1/2” mph of external air movement

Operational incoming wind angles: All

High Pressure Block (preventing blow-in): 99%

Draw rate (exhaust volume): 4 cu ft / min / for every 1 mph with wind direction 90 degrees to the tunnel.
3 cu ft / min / for every 1 mph with wind direction parallel to the tunnel.

Vent Mounting Location

If possible choose the most exposed wall to the wind. In most cases higher the better. The vent was designed around objects (container door latches) in close proximity of the exhaust ports, but further distance away the better. Even thermals rising above a paved driveway or wall subjected to the sun creates a good draw. Neighbouring buildings and large obstacles create turbulence and gusts, these areas are also good for driving the exhaust. If the location consists of a row of buildings or containers this often creates a wind tunnel effect, with a more consistent low turbulent horizontal wind. In this case a vertical install would provide maximum draw.

For shipping container applications please see “8 Steps to Dry” and “360 Wall Vent Container Guidelines”

Important Note: This vent performs as stated. It will inhibit wind generated high pressure, simultaneously creating a low pressure close to as stated. We cannot guarantee a condensation free enclosure or a fume free environment with the use of this vent, due to the numerous variables such as; enclosure size, location, exposure to wind, intake, and the actual physical characteristics of the application.