

Agrichemical Warehousing Standard Association
WAREHOUSING STANDARDS BULLETIN

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VENTILATION
(Protocol B19)

Building ventilation must be provided to control vapours and odour in the certified storage area. And to ensure good ventilation of storage areas. Advice should be obtained from the appropriate provincial Ministries.

Does this mean mechanical ventilation is required and, if so, what are the specifications?

Yes, mechanical ventilation is required regardless of the size of the warehouse.

Mechanical ventilation must be provided to control vapours and odour in the certified warehouse area, as well as in the flammable and combustible liquid storage areas.

Sample calculation: $\frac{\text{Length} \times \text{width} \times \text{height}}{30} = \text{minimum CFM requirement}$

Example: Warehouse is 20 feet in length, 10 feet wide and 8 feet high. Calculation is:

$$\frac{20 \times 10 \times 8}{30} = 53.33 \text{ cfm fan}$$

This means that you need a fan with a minimum of 53.33 cfm's to achieve a minimum of 2 air exchanges per hour.

Technical information for the fan must be on file to indicate cfm's. The ventilation must be turned on when the storage area is occupied. One method to ensure use is to have the light switch and ventilation system on the same switch.

Heat recovery ventilation is permitted. Documentation evidencing 2 air exchanges per hour is required.