# WAREHOUSE VENTILATION CALCULATIONS

PROJECT MY PROJECT NAME
BUILDING MY BUILDING NAME
DATE June 18, 2015
by MY NAME HERE

### **INPUT**

#### **BUILDING**

FLOOR AREA	500,000	SQ. FT
BLDG HEIGHT	40	FT.

PRODUCT VOLUME (assumed warehouse volume occupied by product)

FORKLIFTS 0 (number of <u>propane</u> forklifts operating)

### **VENTILATION**

AIR CHANGES	3	PER HOUR
% POSITIVE	5%	(percent positive pressure)
CODE CFM/SF	0.05	(0.05 CFM/SF for IMC & FL; 0.06 CFM/SF for CA & ASHRAE 62)
		Note: LEED EQ Pre 1 requires ASHRAE 62 rate 0.06 CFM/SF

## **CALCULATIONS**

### **EXHAUST FANS**

( 500,000 x 40 ) x 50% x 3

500,000 CFM EXHAUST FAN TOTAL

#### **SUPPLY FANS**

105% x 500,000

= 525,000 CFM SUPPLY FAN TOTAL

## MINIMUM (WINTER) VENTILATION REQUIREMENTS

500,000 SQ. FT. x 0.05 CFM/SQ. FT

= 25,000 CFM MIN VENTILATION REQ'D

Copyright © Mike Ballew