Marathon Vent Specification

Marathon Manufacturers a wide variety of roof vents in many sizes and materials. The one piece spun aluminum vents are specifically designed for use in a low slope application of 3 – 4 inch rise per foot or less. Unlike other vents in the industry the one piece vent provides no chance of water infiltrating the roofing system because of its seamless design.

Our typical one way aluminum vent permits trapped air and/or moisture in the roof system to escape thereby relieving any air pressure build-up that may lead to a roof failure or leak.

Depending on the quantity and the positioning, which would be recommended by the roof membrane manufacturer, these vents can help create a vacuum within the sealed roof system. This effect may contribute a positive downward force to aid in maintaining the security of the roof system in high wind conditions.

It should be understood that the principle function of roof vents is to achieve pressure equalization within the roof system and therefore the integrity of the roof system to remain waterproof.

VENTING AREAS & CAPACITIES OF MARATHON ROOF VENTS

Vent Description	Venting Volume (C.F.M.)	Venting Area (SQ. INS)	Vent Holes (QTY/SIZE)	Vent Base (DIA./INS)	Opening Area (SQ. INS)
Aluminum Insulvent	2.8	1.57	8 ½”	4.12	13.4
Small Capacity (SC)	9.2	5.11	26 ½”	3	7.1
Medium Capacity (MC) & EH	42.3	23.5	30 1”	6.5	33.2
Large Capacity (LC)	56.5	31.42	40 1”	8.5	56.8
Extra Large Capacity(XLC)	84.8	47.14	60 1”	12.5	122.8
EX-Flow & M-105	1.5	0.79	1 1”	5.2	21.2
Pre-Vent	22.6	12.57	1 6/4*	10	78.6

6” Slotted opening equivalent to 4” full opening

The capacity of a roof vent insulation vent varies with the pressure across or upon it and with the intake and exhaust areas of the vents, In addition temperatures, insulation resistance and the pressure of a vapor barrier may influence venting capacity. For instance, the aluminum Insulvent One-Way vent operating in a pressure difference equivalent to a 1” water column measure of pressure (the equivalent of 1/28 of P.S.I. – pound per square inch) will exhaust 120 CFH – cubic feet per hour or 2 CFM – cubit feet per minute. The same Aluminum Insulvent operating within a 2” water column measure of pressure will exhaust 170 CFH or 2.8 CFM. A typically balanced industrial building is roughly equivalent to two inches of pressure.

Note: Area of circle is pi x radius squared