



**BREATHE.**



# THE ABCs OF VENTILATION

## **A** AMPLE AMOUNT

Building code and Owens Corning recommend 1 sq. ft. of NFVA for every 150 sq. ft. of attic space (1:150). See building code for exceptions allowing 1:300.

## **B** BALANCED

Equal amounts of air intake and exhaust. Acceptable limits allow up to 60% intake and as little as 40% exhaust.

## **C** CONTROL AIR FLOW

Properly air sealing and insulating an attic space can help prevent conditioned air from escaping into the attic, creating a more comfortable home.

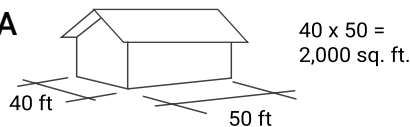
### Why Ventilate?

- Helps protect the life of the roof
- Regulate attic temperature
- Minimize moisture and prevent mold
- Building code requirement
- Helps prevent ice dams
- Promote energy efficiency
- Extended warranty requirement

### How Much Attic Ventilation is Needed?

Net Free Vent Area (NFVA) = The total amount of unobstructed area through which air can pass through a vent.

#### Manually Calculating NFVA



- 1 Measure your attic area
- 2 Calculate your required NFVA
- 3 Balance your NFVA for intake and exhaust
- 4 Convert from square feet to square inches

	1:150	1:300
	$2000 \div 150 = 13.33 \text{ sq. ft.}$	$2000 \div 300 = 6.67 \text{ sq. ft.}$
	$13.33 \div 2 = 6.67 \text{ sq. ft.}$	$6.67 \div 2 = 3.33 \text{ sq. ft.}$
	$6.67 \text{ sq. ft.} \times 144 = 960 \text{ sq. in.}$	$3.33 \text{ sq. ft.} \times 144 = 480 \text{ sq. in.}$

### Four Common Mistakes

#### Mixing exhaust vents

Never mix types of exhaust vents. If adding a new ridge vent during a re-roof, remove and close-up openings from existing roof vents.

#### Using roof louvers as intake ventilation

Roof louvers should only be used for exhaust ventilation.

#### Inadequate or clogged intake ventilation

Always check that soffits are clear of debris and that soffits make up at least 50% of the required ventilation.

#### Assuming adequate ventilation

Don't assume the existing ventilation is adequate. It is best practice to always re-calculate.

Check out our online or handheld vent calculator

**CALCULATE NOW**

