ICC EVALUATION SERVICE®

ICC-ES Evaluation Report

ESR-2876

Reissued February 2023

This report is subject to renewal February 2025.

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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 72 29—Roof Exhaust Vents

REPORT HOLDER:

VENTILATION MAXIMUM LTD.

EVALUATION SUBJECT:

ROOF VENTILATOR #301

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2009 and 2006 *International Building Code*® (IBC)
- 2009 and 2006 *International Residential Code*® (IRC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)†

†The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Ventilation of attic spaces
- Weather resistance
- Wind uplift resistance
- Fire classification

2.0 USES

The Roof Ventilator #301 is used to provide attic ventilation in accordance with IBC Section 1203.2 or IRC Section R806 when installed in conjunction with roof coverings of composite asphalt shingles.

3.0 DESCRIPTION

The Roof Ventilator #301 is a square-shaped duct with the top closed off and openings around the perimeter near the top (see Figure 1). It is constructed from steel conforming to ASTM A653 with a minimum yield strength of 33,000 psi (228 MPa) and an A40 zinc-iron alloy coating. The perimeter openings are protected with louvers, a rain/snow deflector and a galvanized steel screen with openings sized $^1/_4$ inch by $^1/_4$ inch (6.4 by 6.4 mm). See Table 1 for the models and sizes and corresponding dimensions, materials and net free ventilation area (NFVA).

The Roof Ventilator #301 is provided with a powder coat finish and is available in various colors.

4.0 DESIGN AND INSTALLATION

4.1 General:

The roof slope must be between 3:12 (25 percent slope) and 15:12 (125 percent slope). The openings in the roof deck must be sized in accordance with Table 1.

The Roof Ventilator #301 must be placed in a bed of roof cement and fastened to the deck using 2-inch-long (50 mm) galvanized #10-11 Phillips head screws. Fasteners must be placed through the base unit flange at 4 inches (100 mm) on center and 1 inch (25 mm) from the edge.

4.2 Wind Resistance:

Installation is limited to areas subject to a maximum basic wind speed (3-second gust) of 100 miles per hour (160 km/h) on structures with a maximum mean roof height of 40 feet (12.2 m), in Exposure B, C and D areas.

5.0 CONDITIONS OF USE

The Roof Ventilator #301 described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 The manufacturer's published installation instructions and this report must be strictly adhered to, and a copy of the instructions must be available at all times on the jobsite during installation. If there are any conflicts between the manufacturer's published installation instructions and this report, this report governs.

5.2 The Roof Ventilator #301 may be installed on roofs with nonclassified or fire- classified roof coverings.

5.3 Installation is limited to use with composite asphalt shingle roofs.

6.0 EVIDENCE SUBMITTED

6.1 Data in accordance with the ICC-ES Acceptance Criteria for Attic Vents (AC132), dated February 2010.

6.2 Report of weathering performance: 2000 hours of accelerated weathering in accordance with ASTM G154.

7.0 IDENTIFICATION

7.1 Packaging information must include the manufacturer's name (Ventilation Maximum Ltd.) and address, the model (Roof Ventilator #301), the size and the ICC-ES evaluation report number (ESR-2876).

Each Roof Ventilator #301 must bear a label with the company name (Ventilation Maximum Ltd.), the product name (Roof Ventilator #301), the net free ventilation area, and the ICC-ES evaluation report number (ESR-2876).

7.2 The report holder's contact information is the following:

VENTILATION MAXIMUM LTD.
9229 PIERRE BONNE
MONTREAL, QUEBEC H1E 7J6
CANADA
(514) 648-8011
www.ventilation-maximum.com

TABLE 1—ROOF VENTILATOR #301

MODEL	DIMENSION (in)				NET FREE VENTILATION AREA (in^2)	NUMBER OF DEFLECTORS	STEEL GAGE
	A	B	C	D			
301-12	12	19.5	10.5	9	144	4	24 & 26
301-14	14	21.5	10.5	14	196	4	24 & 26
301-16	16	23.5	13.0	14	256	5	24 & 26
301-18	18	25.5	13.0	14	324	5	24
301-20	20	27.5	15.5	14	400	6	22 & 24
301-22	22	29.5	15.5	14	484	6	22 & 24
301-24	24	31.5	18	14	576	7	22 & 24

For **SI:** 1 inch = 25.4 mm.

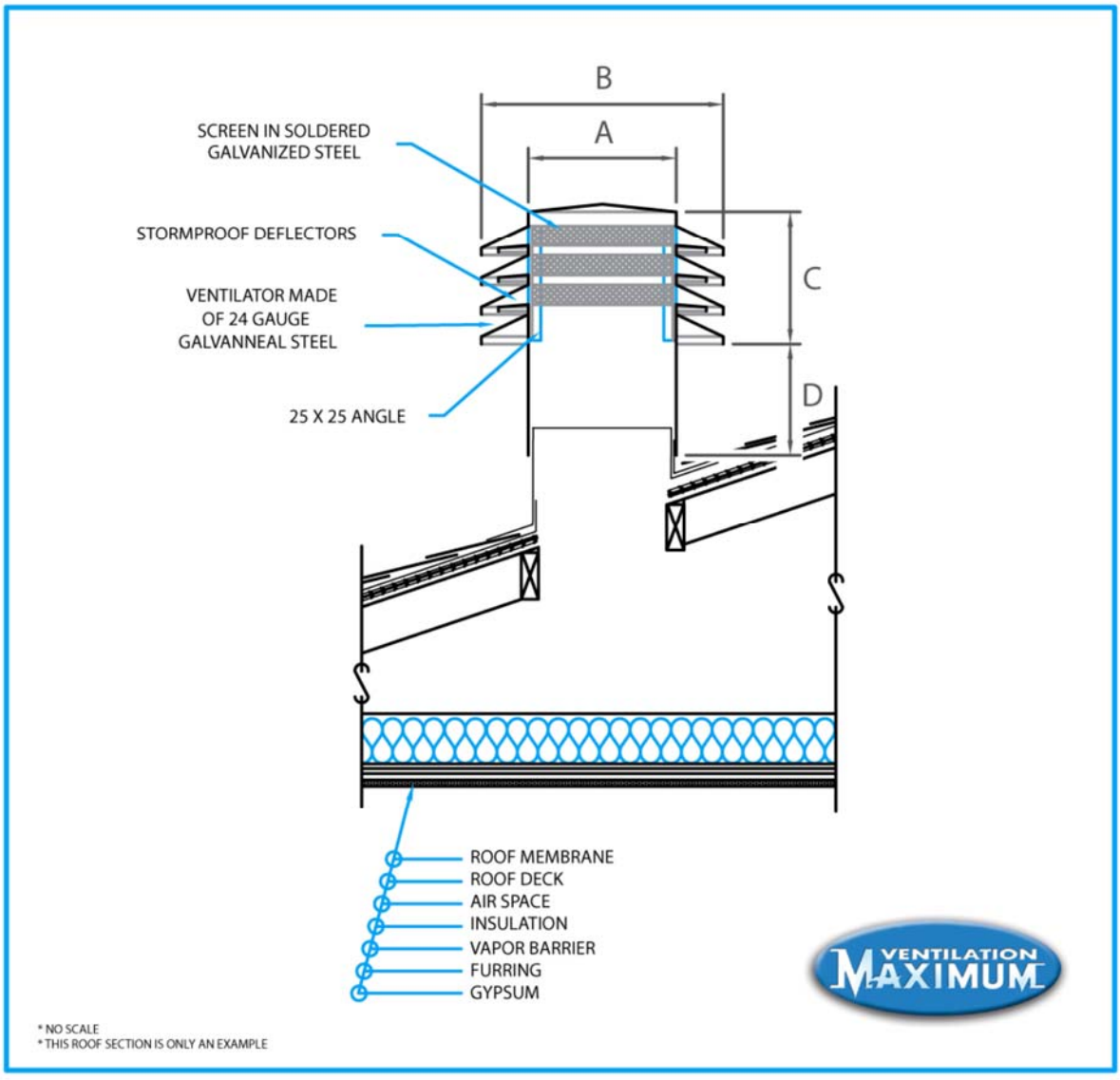

FIGURE 1—ROOF VENTILATOR #301