

# ICC-ES Evaluation Report

ESR-4531

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This report also contains:

[- CA Supplement](#)

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<p><b>DIVISION: 07 00 00— THERMAL AND MOISTURE PROTECTION</b></p> <p><b>Section: 07 72 26— Ridge Vents</b></p> <p><b>Section: 07 72 27— Eave Vents</b></p>	<p><b>REPORT HOLDER: SRS DISTRIBUTION INC.</b></p>	<p><b>EVALUATION SUBJECT:</b></p> <p><b>TOPSHIELD LO- OMNIROLL® TSLOR- 30, TOPSHIELD LO- OMNIRIDGE® TSLOR9- 4 AND TOPSHIELD DECK-AIR® TSDA-4</b></p>	
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## 1.0 EVALUATION SCOPE

### Compliance with the following codes:

- 2018, 2015, 2012, and 2009 [International Building Code® \(IBC\)](#)
- 2018, 2015, 2012, and 2009 [International Residential Code® \(IRC\)](#)
- 2013 *Abu Dhabi International Building Code (ADIBC)*<sup>†</sup>

<sup>†</sup>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:

- Net free ventilation area
- Weather resistance
- Wind uplift resistance
- Fire classification

## 2.0 USES

The TopShield Lo-OmniRoll® TSLOR-30 and TopShield Lo-OmniRidge® TSLOR9-4 ridge exhaust vents are used in conjunction with intake vents to provide natural ventilation of enclosed attic and rafter spaces in accordance with 2018 IBC 1202.2 and 1202.2.2 [2015, 2012 and 2009 IBC Section 1203.2] and IRC Section R806. TopShield Lo-OmniRoll® TSLOR-30 is for use beneath asphalt ridge cap shingles and TopShield Lo-OmniRidge® TSLOR9-4 is for use beneath asphalt ridge cap shingles and flat concrete or clay roof tile.

The TopShield Deck-Air® TSDA-4 is a dual-purpose vent that functions as an intake or exhaust vent used in conjunction with attic vents to provide natural ventilation of enclosed attic and rafter spaces beneath asphalt shingles in accordance with 2018 IBC Section 1202.2 and 1202.2.2 [2015, 2012 and 2009 IBC Section 1203.2] and IRC Section R806.

## 3.0 DESCRIPTION

### 3.1 TopShield Lo-OmniRoll® TSLOR-30:

The TopShield Lo-OmniRoll® TSLOR-30 ridge vent is a three-dimensional panel with internal baffles, an external baffle, and louvers that form an air-flow pathway for attic ventilation (see [Figure 1](#)). The vents are manufactured in 30-foot (9.1 m) rolls and are 14½ inches (368 mm) wide. The net free ventilation area (NFVA) is 11.0 square inches per lineal foot (23 284 mm<sup>2</sup>/m).

### 3.2 TopShield Lo-OmniRidge® TSLOR9-4:

The Top Shield Lo-OmniRidge® TSLOR9-4 ridge vent is a three-dimensional panel with internal baffles, an external baffle, and louvers that form an air-flow pathway for attic ventilation (see [Figure 2](#)). The vents are 48 inches (1219 mm) long by 11<sup>3</sup>/<sub>8</sub> inches (289 mm) wide. The NFVA is 11.0 square inches per lineal foot (23 284 mm<sup>2</sup>/mm).

### 3.3 TopShield Deck-Air® TSDA4:

The TopShield Deck-Air® TSDA4 intake/exhaust vent is a three-dimensional panel with internal baffles, a partial external baffle, louvers and an internal mesh that forms an air-flow pathway for attic ventilation (see [Figure 3](#)). The vents are 48 inches (1219 mm) long by 13<sup>1</sup>/<sub>4</sub> inches (336 mm) wide. The NFVA is 9.0 square inches per lineal foot (19 050 mm<sup>2</sup>/m).

### 3.4 Material:

The vents are made from polypropylene classified as a CC2 plastic under IBC Section 2606.4.

## 4.0 DESIGN AND INSTALLATION

### 4.1 Design:

The required ventilation area must be determined and sufficient ventilating panels must be installed to provide ventilation in accordance with 2018 IBC Section 1202.2 and Section 1202.2.2 [2015, 2012 and 2009 IBC Section 1203.2] or IRC Section R806, as applicable. Each vent is marked with the NFVA it provides when installed in accordance with this report.

### 4.2 Installation:

Installation of the TopShield Lo-OmniRoll® TSLOR-30 and TopShield Lo-OmniRidge® TSLOR9-4 ridge vents and TopShield Deck-Air® TSDA4 intake/exhaust vent must comply with this report, the manufacturer's published installation instructions, and the applicable code. For the TopShield Deck-Air® TSDA4 intake/exhaust vent, there must be nothing within the attic rafter spaces that blocks the free flow of air between the intake vents and the exhaust or ridge vents.

**4.2.1 Installation of Ridge Vents:** TopShield Lo-OmniRoll® TSLOR-30 and TopShield Lo-OmniRidge® TSLOR9-4 ridge vents are used where the minimum roof slope is 3:12 (25 percent) and the maximum roof slope is 16:12 (133 percent).

Where there is a ridge board, the TopShield Lo-OmniRoll® TSLOR-30 and TopShield Lo-OmniRidge® TSLOR9-4 ridge vents are applied over a vent opening measuring at least 2<sup>3</sup>/<sub>4</sub> inches (69.9 mm) and not more than 3<sup>1</sup>/<sub>4</sub> inches (82.6 mm) in width. Where there is no ridge board, the TopShield Lo-OmniRoll® TSLOR-30 and TopShield Lo-OmniRidge® TSLOR9-4 ridge vents are applied over a vent opening measuring at least 1<sup>1</sup>/<sub>4</sub> inches (31.8 mm) and not more than 1<sup>3</sup>/<sub>4</sub> inches (44.5 mm) wide that is centered on the apex of the ridge.

The last 6 inches (152 mm) of sheathing, inside the exterior wall line at each end of the ridge, must be left uncut. The ridge vent must overlap the roof shingles and be positioned to extend at least 6 inches (152 mm) past the end of the vent opening. The ridge vents are centered over the vent opening and fastened to the roof deck with No. 11 gage, corrosion-resistant roofing nails. The TopShield Lo-OmniRidge® TSLOR9-4 ridge vent must be installed using minimum 1<sup>3</sup>/<sub>4</sub>-inch-long (44.5 mm) nails. The ridge vent must be secured at marked locations on both sides of the ridge vent. The ridge vent must be joined by butting the ends together with no gaps between sections. When installation is performed in cold weather, a gap of <sup>1</sup>/<sub>8</sub> inch (3.18 mm) between sections is recommended for thermal expansion. The ridge vent must be completely covered by the ridge cap shingles. Ridge cap shingles must be nailed in place with No. 11 gage, corrosion-resistant roofing nails with <sup>3</sup>/<sub>8</sub>-inch-diameter (9.5 mm) heads, penetrating <sup>3</sup>/<sub>4</sub>-inch (19.1 mm) into or through the sheathing, whichever is less.

The TSLOR9-4 ridge vent may be used on flat clay or concrete roof tile but felt paper must be used on top of the TSLOR9-4 prior to installing the cap tiles.

### 4.3 Installation TopShield Deck-Air® TSDA-4:

The TopShield Deck-Air® TSDA-4 vent is used where the minimum roof slope is 3:12 (25 percent) and the maximum roof slope is 16:12 (133 percent).

The TopShield Deck-Air® TSDA-4 intake/exhaust vent is applied over a 1-inch-wide (25.4 mm) vent opening located 6 to 7 inches (152 to 178 mm) above the front edge of the drip edge or above the shingle exposure line. For a straight termination, the end of the vent opening should be at least 6 inches (152 mm) from the inside of the exterior wall. For a tapered termination, the end of the vent opening should be at least 18 inches (457 mm) from the inside of the exterior walls, hips, valleys or any structure that penetrates the roof. For a straight termination, the TopShield Deck-Air® TSDA-4 must extend at least 6 inches (152 mm) beyond the vent opening. For installation along the eave, the drip edge and underlayment must be installed first, and then the TopShield Deck-Air® TSDA-4 intake/exhaust vent is aligned with the front edge of the drip edge and so as to overlap the drip edge and underlayment. For installation up from the eave above the attic floor insulation and in the upper portion of the roof, the TopShield Deck-Air® TSDA-4 should be aligned with the shingle exposure line. The TopShield Deck-Air® TSDA-4 is placed over the vent opening and fastened to the roof deck at the pre-marked nail locations with No. 11 gage, corrosion-resistant roofing nails. The TopShield Deck-Air® TSDA-4 is secured using minimum 2<sup>1</sup>/<sub>2</sub>-inch-long (64 mm) nails. Consecutive vents are installed with a gap of 1/8 inch (3.18 mm) between sections to allow for thermal expansion. Underlayment is installed over the vent in such a manner as to ensure that the bottom edge is aligned with the shingle stop tabs on top of the TopShield Deck Air® TSDA-4. The starter and first course of shingles are installed in such a manner as to ensure that the bottom edges are aligned with the shingle stop tabs on top of the TopShield Deck-Air® TSDA-4 intake/exhaust vent. The starter and first course of shingles should be installed with minimum 2<sup>1</sup>/<sub>2</sub>-inch-long (64 mm) nails. The ventilation louvers on top of the TopShield Deck-Air® TSDA-4 intake/exhaust vent must not be covered.

#### 4.4 Fire Classified Roof Coverings:

The TopShield Lo-OmniRoll® TSLOR-30 and TopShield Lo-OmniRidge® TSLOR9-4 ridge vents and TopShield Deck-Air® TSDA-4 intake/exhaust vent are limited to installation with nonclassified roof coverings unless the following conditions are met:

- The vents must not be installed where roofs are required to have a fire-resistance rating unless the building is equipped throughout with an automatic sprinkler system in accordance with IBC Section 903.3.1.1.
- The maximum area of a continuous ridge vent is 100 square feet (9.29 m<sup>2</sup>) and the aggregate area of the vents and any light-transmitting roof panels must not exceed 25 percent of the floor area served.
- Individual vents must be separated from each other and any light-transmitting roof panels by a distance of not less than 4 feet (1.22 m) measured in the horizontal plane, unless the building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 of the IBC.
- The vents must not be installed within 6 feet (1830 mm) of any exterior wall required by Section 705.8 of the IBC to have protected wall openings.

#### 4.5 Wind Resistance:

Under the 2018 IBC, the TopShield Lo-OmniRoll® TSLOR-30, TopShield Lo-OmniRidge® TSLOR9-4 and TopShield Deck-Air® TSDA-4 roofing vents, installed as described in Section 4.2, are permitted to be installed in areas having a maximum basic design wind speed, V, of 130 mph (209 km/h) on structures having a mean roof height of 40 feet (12.2 m) or less in Exposure D areas.

Under the 2018 IRC, 2015 IBC, 2015 IRC, and 2012 IBC, the TopShield Lo-OmniRoll® TSLOR-30, TopShield Lo-OmniRidge® TSLOR9-4 and TopShield Deck-Air® TSDA-4 roofing vents, installed as described in Section 4.2, are permitted to be installed in areas having an ultimate design wind speed of 130 mph (209 km/hr) on structures having a mean roof height of 40 feet (12.2 m) or less in Exposure D areas.

Under the 2012 IRC, 2009 IBC and 2009 IRC, the TopShield Lo-OmniRoll® TSLOR-30, TopShield Lo-OmniRidge® TSLOR9-4 and TopShield Deck-Air® TSDA-4 roofing vents, installed as described in Section 4.2, are permitted to be installed in areas having a maximum basic wind speed of 100 mph (161 km/h), on structures having a mean roof height of 40 feet (12.2 m) or less in Exposure D areas.

## 5.0 CONDITIONS OF USE:

The TopShield Lo-OmniRoll® TSLOR-30 and TopShield Lo-OmniRidge® TSLOR9-4 ridge vents and TopShield Deck-Air® TSDA-4 intake/exhaust vent described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The ridge vent intake/exhaust vent must be installed in accordance with this report and the report holder's published installation instructions. The report holder's published installation instructions must be available on the jobsite at all times during construction. In the event of conflict between the report holder's published instructions and this report, this report governs.
- 5.2 The SRS Distribution Inc. roofing vents are limited to installation on roofs having a minimum slope of 3:12 (25 percent).
- 5.3 The TopShield Lo-OmniRoll® TSLOR-30 and TopShield Lo-OmniRidge® TSLOR9-4 ridge vents and TopShield Deck-Air® TSDA-4 intake/exhaust vent are limited to installation with nonclassified roof coverings unless installed in accordance with Section 4.4.
- 5.4 Use of the TopShield Lo-OmniRoll® TSLOR-30 and TopShield Lo-OmniRidge® TSLOR9-4 ridge vents and TopShield Deck-Air® TSDA-4 intake/exhaust vent is not permitted in Groups H, I-2 and I-3 occupancies.
- 5.5 Where roof diaphragm continuity is affected by the installation of the TopShield Lo-OmniRoll® TSLOR-30 and TopShield Lo-OmniRidge® TSLOR9-4 ridge vents and TopShield Deck-Air® TSDA-4 intake/exhaust vent, roof diaphragm nailing requirements must be addressed in accordance with the applicable code, and the vent installation must be approved by the code official.

## 6.0 EVIDENCE SUBMITTED

Data in accordance with the [ICC-ES Acceptance Criteria for Attic Vents \(AC132\)](#), dated February 2010 (editorially revised June 2019).

## 7.0 IDENTIFICATION

- 7.1 Labels on the packages of these vents bear the report holder's name, address, product name and the ICC-ES evaluation report number (ESR-4531). Each individual vent is identified with the manufacture's name or logo, the ICC-ES evaluation report number (ESR-4531), and the net free ventilation area.
- 7.2 The report holder's contact information is the following:

**SRS DISTRIBUTION INC.**  
**7440 SOUTH HIGHWAY 121**  
**MCKINNEY, TEXAS 75070**  
**(469) 421-0616**  
[www.srsdistribution.com](http://www.srsdistribution.com)

SRS DISTRIBUTION INC. RIDGE VENTS



FIGURE 1—TOPSHIELD LO-OMNIROLL® TSLOR-30



FIGURE 2— TOPSHIELD LO-OMNIRIDGE® TSLOR9-4

SRS DISTRIBUTION INC. INTAKE AND EXHAUST VENTS



FIGURE 3—TOPSHIELD DECK-AIR® TSDA-4

**DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION**  
**Section: 07 72 26—Ridge Vents**  
**Section: 07 72 27—Eave Vents**

**REPORT HOLDER:**

SRS DISTRIBUTION INC.

**EVALUATION SUBJECT:**

TOPSHIELD LO-OMNIROLL® TSLOR-30, TOPSHIELD LO-OMNIRIDGE® TSLOR9-4 AND TOPSHIELD DECK-AIR® TSDA-4

**1.0 REPORT PURPOSE AND SCOPE****Purpose:**

The purpose of this evaluation report supplement is to indicate that the TopShield Lo-OmniRoll® TSLOR-30 and TopShield Lo-OmniRidge® TSLOR9-4 ridge exhaust vents and TopShield Deck-Air® TSDA-4 dual-purpose intake or exhaust vent, described in ICC-ES evaluation report [ESR-4531](#), have also been evaluated for compliance with the codes noted below.

**Applicable code editions:**

- 2019 *California Building Code* (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) AKA: California Department of Health Care Access and Information (HCAI) and the Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

- 2019 *California Residential Code* (CRC)

**2.0 CONCLUSIONS****2.1 CBC:**

The TopShield Lo-OmniRoll® TSLOR-30 and TopShield Lo-OmniRidge® TSLOR9-4 ridge exhaust vents and TopShield Deck-Air® TSDA-4 dual-purpose intake or exhaust vent, described in Sections 2.0 through 7.0 of the evaluation report [ESR-4531](#), comply with 2019 CBC Sections 1202.2 and 1202.2.2 provided the design and installation are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapter 12, as applicable.

**2.1.1 OSHPD:**

The applicable OSHPD Sections of the CBC are beyond the scope of this supplement.

**2.1.2 DSA:**

The applicable DSA Sections of the CBC are beyond the scope of this supplement.

**2.2 CRC:**

The TopShield Lo-OmniRoll® TSLOR-30 and TopShield Lo-OmniRidge® TSLOR9-4 ridge exhaust vents and TopShield Deck-Air® TSDA-4 dual-purpose intake or exhaust vent, described in Sections 2.0 through 7.0 of the evaluation report [ESR-4531](#), comply with CRC Section R806, provided the design and installation are in accordance with the 2018 *International Residential Code*® (IRC) provisions noted in the evaluation report and the additional requirements of CRC Section R806, as applicable.

This supplement expires concurrently with the evaluation report, reissued April 2026.