

# FAHRENHEIT™ SERIES SMOKE VENTS (RVF, RVFV) INSTALLATION AND MAINTENANCE GUIDE | 14I-410

## GENERAL:

Fahrenheit series smoke vents are designed for years of reliable use. These instructions are intended to be a general guideline, so please follow local roofing practices for the best weather-tight installations into the various roofing systems typical in your area.

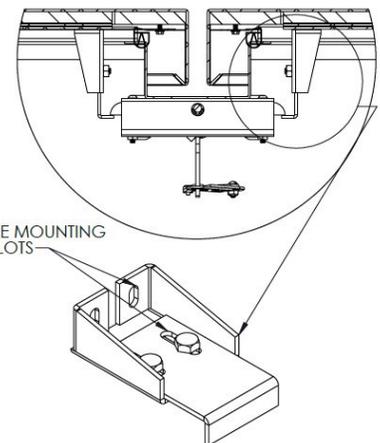
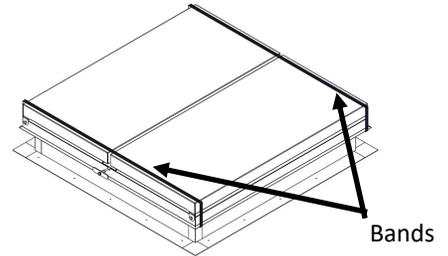
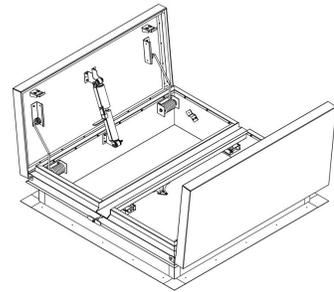
**NOTES:** This product is designed for installation on a flat roof.

Improper selection, installation or use can cause personal injury or property damage. It is solely the responsibility of the user, through their analysis to select products suitable for their specific application requirements, ensure they are properly maintained and limit their use to its intended purpose.

**CAUTION: COVER IS SPRING LOADED.** Vents ship with the doors banded and secured shut. **DO NOT REMOVE THE BANDS UNTIL AFTER INSTALLING** and securing to the roof deck. (see step 7 below.)

## INSTALLATION:

1. Installation of UL793 Listed smoke vents shall be in accordance with NFPA 204, Standard for Smoke and Heat Venting.
2. Prepare opening through roof deck of width and length as specified by details on submittal drawing. The roof opening size is equal to the smoke vent size, which is measured inside curb to inside curb. A smoke vent that measures 48" width (hinge to latch) x 96" length (hinge side), will have a roof rough opening of 48" x 96".
3. Opening must be positioned so as to not impair structural integrity of roof. Supporting structure must withstand lateral and thermal stresses as well as load pressures.
4. Check that the frame rests flat on plane and is not twisted or uneven. Shim if required, to ensure proper operation.
5. Secure the curb flange to steel angle or other framed opening in the roof using fasteners (by others) through the 0.19" mounting holes provided in the base flange. Recommended fasteners are #10 screws, when securing to a wood frame. For larger bolts, drill larger mounting holes through the metal flange.
6. Complete the roofing installation in accordance with local building codes and accepted roofing industry practices.
7. Remove steel safety bands from door sides. **CAUTION, doors are spring loaded and may pop open**, if latches moved during shipping.
8. Open the smoke vent, by first depressing red pull handle in (this resets the latch), then quickly pulling the handle out in a jerking motion to release the slam latches. See OPERATION section for more details.
9. Check slam latches to be sure they are engaged under the latch catch strikes, while in the closed position.
10. If necessary, adjust the catch strike for each door to ensure full latch engagement when the door is closed by loosening the bolts, relocating the assembly mounting bracket side-to-side, or up-and-down, and then fully tighten.
11. Vents and their means of actuation, shall be inspected visually after installation, per NFPA 204.



**DUR-RED PRODUCTS**



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### OPERATION:

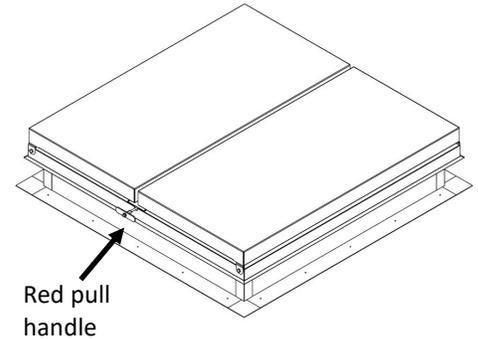
Dur-Red smoke vents provide automatic release of heat, smoke and gases in the event of a fire. The smoke vent opening force is by torsion springs specifically designed for this purpose. The smoke vent is also equipped with shock absorbers (one per door leaf) to help control the speed of opening. Once opened, the doors lock in the open position with a hold open feature, which must be disengaged prior to closing manually from the rooftop.

### How to Open Smoke Vents:

1. Press the external red pull handle inwards, which will reset the latch.
2. Quickly pull the red handle outwards in a forceful manner to release the slam latches, which will open both doors.

Methods of operation;

1. Manually with external pull handle on the outside of the smoke vent.  
Optional: Inside of the smoke vent with 1/16" aircraft cable for rigging down to floor level, by others.
2. Thermally via replaceable fusible link that melts at a standard temperature of 165°F.  
Optional: specified temperature between 160°F-520°F
3. Optional: Electrical and thermal opening via McCabe electro/thermal resettable link. Available in low voltage or high voltage (24VDC/110VAC) and different temperatures.



### How to Close Smoke Vents:

1. Disengage the locking hold open feature next to the shock absorber by grasping the red grip handle and push forward, while simultaneously closing the door. It may require two people to manually push down on each end of the door, making sure the slam latches engage the catch on each end of the door.
2. Close the second door the same way.

### INSPECTION & MAINTENANCE:

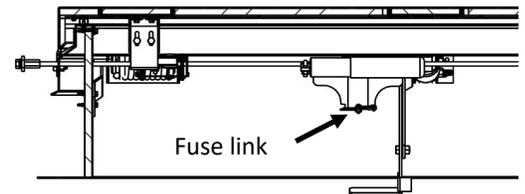
1. A written inspection schedule and procedure for inspection and maintenance shall be developed with notations of the date and time of inspections and of discrepancies found, which shall be corrected immediately.
2. Vents shall be inspected and subjected to an operational test annually. Inspect the latch catch strikes to ensure full latch engagement. Also inspect special mechanisms such as gas cylinders, springs, thermal and electrical links, if applicable.
3. Any debris that could impair the operation of the vent shall be promptly removed without causing damage to the vent. Periodically clean latches and strikes of old grease and dirt and reapply new grease as needed. Painted metal surfaces can be cleaned with a mild soap and water solution.
4. For domed covers, clean with a mild soap and water solution, when necessary. Do not use abrasive cleaners or cleaning cloths. Fine scratches may be minimized/removed by using an automobile cleaner/polish. Test a small section first to verify results.

### REPLACEMENT PARTS:

DR-KIT-LINK-165 165°F fusible link

### How to replace fusible links:

1. With the vent doors open, press the external red pull handle inwards to compress the fuse link device. Must maintain pressure during replacement, so two people recommended.
2. With the fuse link device compressed, replace fusible link
3. Release pressure on external red pull handle and close doors.



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