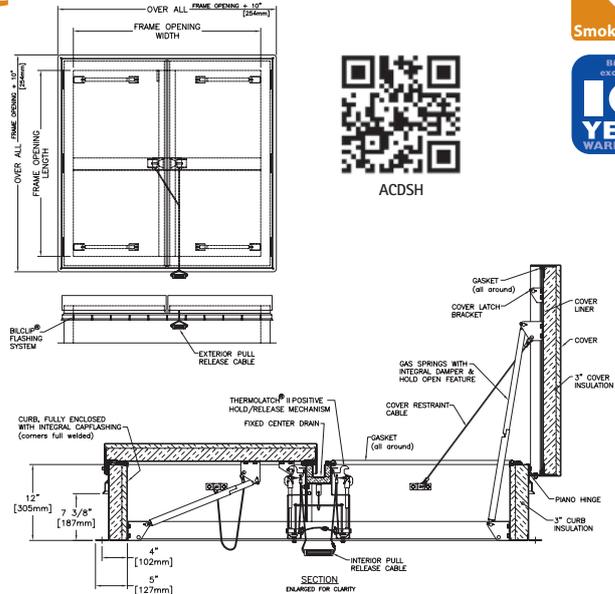
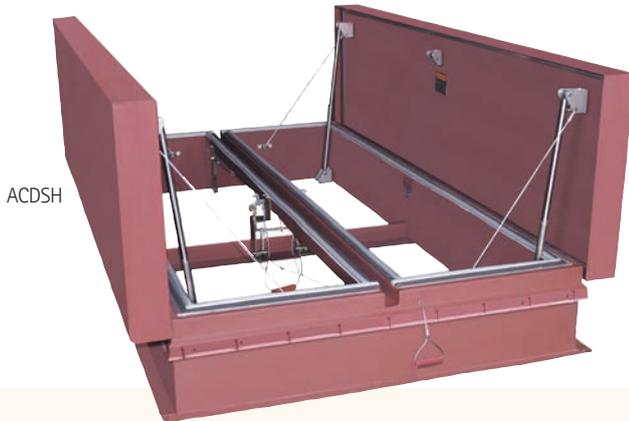


Smoke Vents – Acoustic

Type ACDSH – Double Leaf 90°

Mechanically operated smoke vents. Ideal for concert halls, theatres, casinos, sporting arenas and other applications.



ACDSH

SPECIFICATIONS

Furnish and install where indicated on plans metal fire vent Type ACDSH, size [insert: width ()] x length (). Length denotes hinge side. The roof fire vent shall be double leaf. The roof fire vent shall be pre-assembled from the manufacturer.

| | |
|-----------------------------------|--|
| Performance: | Vent(s) shall be UL listed. |
| Characteristics: | Covers shall be reinforced to support a minimum live load of 40 psf (195 kg/m ²) with a maximum deflection of 1/150th of the span or 90 psf (439 kg/m ²) wind uplift. Corrosion resistant gas springs shall open the vent covers simultaneously when latch is manually released or when heat breaks the UL listed fusible link. Opening shall be in a controlled manner to avoid damage to surrounding roof surfaces. Entire roof fire vent shall be weathertight with fully welded corner joints on cover and curb. Latch mechanisms shall hold the covers in the closed position without overstressing the fusible link and withstand 90 psf (439 kg/m ²) wind uplift forces acting on the cover. |
| Latch Operation: | When heat parts the UL listed fusible link, the latch shall release instantaneously, allowing vent covers to open. The latch shall be designed for easy resetting, after a fire or test, so that the covers cannot be latched closed unless the mechanism has been reset properly. Manufacturer shall provide instructions for resetting the latch with each unit. |
| Transmission Sound Rating: | Vent(s) shall carry STC-46 sound rating. |
| Covers: | 14 gauge (2mm) paint bond G-90 galvanized steel with a 5" (127mm) beaded flange with formed reinforcing members. |
| Gasket: | PVC gaskets shall be permanently adhered to the underside of the covers and on top of the curb. |

| | |
|----------------------------|---|
| Cover insulation: | Fiberglass of 3" (76mm) in thickness, fully covered and protected by a 14 gauge (2mm) paint bond G-90 galvanized steel liner. |
| Curb: | 12" (305mm) in height and of 14 gauge (2mm) paint bond G-90 galvanized with a fixed centre channel. Curb shall be formed with a 5" (127mm) flange with 7/16" (11mm) holes provided for securing to roof deck. Curb shall be equipped with integral metal capflashing of the same gauge and material as the curb and feature the Bil-Clip® flashing system, including stamped tabs, 6" (153mm) on centre, to be bent inward to hold single-ply roofing membrane securely in place. |
| Curb insulation: | 3" (76mm) fiberglass insulation, fully enclosed by a 14 gauge (2mm) paint bond G-90 galvanized steel liner. |
| Lifting Mechanisms: | Corrosion resistant gas springs open covers automatically against a 10 lb/ft ² (49Kg/m ²) snow/wind load. Gas springs shall have built in dampers to assure a controlled rate of opening and automatically lock the covers in the full open position. A release mechanism shall be provided to allow the covers to be closed. |
| Latch Mechanism: | Shall be the BILCO Thermolatch® II positive hold/release mechanism with a separate latching point for each cover controlled by a single UL listed 165°F (74°C) fusible link. Fusible link shall be curb mounted on a non-hinged end to allow the latching mechanism to be easily reset from the roof level. |
| Hardware: | Corrosion resistant gas springs and hot dip galvanized steel stop cables. All other hardware is zinc plated/chromate sealed. |
| Finish: | Factory finish shall be alkyd base red oxide primer. |
| Options: | See pages 40 and 41. |

STANDARD SIZES and WEIGHTS

| Type | Size – clear internal dimensions | Overall dimensions | Weight |
|-------------|----------------------------------|--------------------|---------|
| ACDSH4848 | 1220mm x 1220mm | 1398mm x 1398mm | 363 kg |
| ACDSH4872 | 1220mm x 1830mm (H) | 1398mm x 2008mm | 426 kg |
| ACDSH4890 | 1220mm x 2290mm (H) | 1398mm x 2468mm | 533 kg |
| ACDSH4896 | 1220mm x 2440mm (H) | 1398mm x 2618mm | 558 kg |
| ACDSH6060 | 1520mm x 1520mm | 1698mm x 1698mm | 528 kg |
| ACDSH6096 | 1520mm x 2440mm (H) | 1698mm x 2618mm | 701 kg |
| ACDSH66144* | 1680mm x 3660mm (H) | 1858mm x 3838mm | 1032 kg |
| ACDSH7272 | 1830mm x 1830mm | 2008mm x 2008mm | 685 kg |

(H) - Hinge Side

*This size has four covers.

