



Dampers & Louvers

CRIMP BLADE COMBINATION FIRE/SMOKE DAMPER SUGGESTED SPECIFICATIONS

Furnish and install at all locations as shown on plans Combination Fire/Smoke Dampers. The blade shall consist of single skin, galvanized steel, triple crimped of 16-gauge thickness, on 6" maximum centers. Frame is to be a minimum of 16-gauge galvanized steel. Roll formed into a structural hat shape channel. Frame seal shall consist of a flexible, compression type stainless steel. Blades seals shall consist of composite silicone rubber capable of withstanding 450 degrees F. Bearings shall be Bronze material oil impregnated at time of manufacturing. The Dampers and actuator (specify electric/pneumatic) shall be rated to an elevated temperature of 250 ° or 350 ° F. In addition, the damper must be factory supplied with an actuator and sleeve to comply with the requirements of NFPA 90, NFPA 92A, UL555, UL555S and manufacturer's installation instructions.

These dampers shall be constructed and tested in compliance with UL Standard 555 and 555S, current editions. Leakage and airflow testing procedures are to be in accordance with AMCA Standard 500, current edition, in which the damper will have proven to open and close under specified static pressure and dynamic airflow conditions with a minimum of 4 inches static pressure at 2000 fpm. The pressure drop shall not be greater than **.25 inches water gauge at 2500 fpm** when tested by an independent laboratory. Each damper shall bear an individual approved UL label identifying its classification as a **Dynamic** rated fire damper (Static rated dampers are not acceptable), and shall further be classified by UL as a Leakage Rated Damper for use in Smoke Control Systems. Each Damper shall have a 1-1/2 or 3 hour fire protection rating, a 165 ° or 212 ° F (specify one) UL listed fusible link or thermal disc as required, a leakage class rating of (specify class 1 or 2), and shall bear a label referring to the manufacturer's installation instructions. The damper's literature and labeling shall include performance data, which exceeds the maximum static pressure and volumetric airflow of the system for the maximum size damper required.

Operators shall be electric type operating on 24vac or 120vac, 60 hz or pneumatic type operating on 20 psi instrument air pressure (specify one) and shall be spring return such that the damper will close upon power interruption. All wiring or piping material required to interconnect the damper actuator with detection and/or alarm or other systems shall be furnished by other trades and connections as detailed elsewhere in specification. Dampers shall be **Leader Dampers and Louvers Model 501** (1-1/2 hour, class 1), **Model 502** (1-1/2 hour, class 2), **Model 551** (3 hour, class 1), **Model 552** (3 hour, class 2) or pre-approved equal.

4/1/09

Mailing Address: P.O. Box 40913 Nashville, TN 37204 Phone 615-256-3500
Business Address: 2509 Cruzen St. Nashville, TN 37211 Fax 615-242-3806
www.leaderindustries.com