

## **2007 NFPA 80**

19.4\* Periodic Inspection and Testing.

19.4.1 Each damper shall be tested and inspected 1 year after installation.

19.4.1.1 The test and inspection frequency shall then be every 4 years, except in hospitals, where the frequency shall be every 6 years.

19.4.2 All tests shall be completed in a safe manner by personnel wearing personal protective equipment.

19.4.3 Full unobstructed access to the fire or combination fire/smoke damper shall be verified and corrected as required.

19.4.4 If the damper is equipped with a fusible link, the link shall be removed for testing to ensure full closure and lock-inplace if so equipped.

19.4.5 The operational test of the damper shall verify that there is no damper interference due to rusted, bent, misaligned, or damaged frame or blades, or defective hinges or other moving parts.

19.4.6 The damper frame shall not be penetrated by any foreign objects that would affect fire damper operations.

19.4.7 The damper shall not be blocked from closure in any way.

19.4.8 The fusible link shall be reinstalled after testing is complete.

19.4.8.1 If the link is damaged or painted, it shall be replaced with a link of the same size, temperature, and load rating.

19.4.9 All inspections and testing shall be documented indicating the location of the fire damper or combination fire/ smoke damper, date of inspection, name of inspector, and deficiencies discovered.

19.4.9.1 The documentation shall have a space to indicate when and how the deficiencies were corrected.

19.4.10 All documentation shall be maintained and made available for review by the AHJ.

## 19.5 Maintenance.

19.5.1 Reports of changes in airflow or noise from the duct system shall be investigated to verify that they are not related to damper operation.

19.5.2\* All exposed moving parts of the damper shall be dry lubricated as required by the manufacturer.

19.5.3 If the damper is not operable, repairs shall begin without delay.

19.5.4 Following any repairs, the damper shall be tested for operation in accordance with Section 19.4.

19.5.5 All maintenance shall be documented in accordance with 19.4.9 and 19.4.10.

## **2007 NFPA 105:**

### 6.5 Periodic Inspection and Testing.

6.5.1 Smoke dampers for dedicated and non-dedicated smoke control systems shall be inspected and tested in accordance with NFPA 92A, Standard for Smoke-Control Systems Utilizing Barriers and Pressure Differences.

6.5.2 Each damper shall be tested and inspected one year after installation. The test and inspection frequency shall then be every 4 years, except in hospitals, where the frequency shall be every 6 years.

6.5.3 Care shall be exercised that all tests are completed in a safe manner wearing the appropriate personal protective equipment.

6.5.4 Full unobstructed access to the damper shall be verified and corrected as required.

6.5.5 The damper shall be actuated and cycled as part of the associated smoke detector testing in accordance with NFPA72, National Fire Alarm Code. Where a fusible link is installed on a combination fire/smoke damper, the fusible link shall be removed for testing the damper for full closure simulating a fire condition per the requirements and frequencies of 19.5.4 of NFPA 80, Standard for Fire Doors and Other Opening Protectives.

The text of 6.5.2 and 6.5.5 has been revised by a tentative interim amendment (TIA). See page 1.

6.5.6 The test shall be conducted with normal HVAC airflow.

6.5.7 The operation of the damper shall verify that there is no damper interference due to rust or bent, misaligned, or damaged frame or blades, or defective hinges or other moving parts.

6.5.8 The damper frame shall not be penetrated by any foreign objects that would affect proper fire damper operations.

6.5.9 The damper shall be verified to not be blocked from closure in any way

6.5.10 The fusible link shall be reinstalled after testing is complete. If the link is damaged or painted, it shall be replaced with a link of the same size, temperature rating, and load rating.

6.5.11 All inspections and testing shall be documented indicating the location of the damper, date of inspection, name of inspector, and deficiencies discovered. The documentation shall have a space to indicate when and how the deficiencies were corrected.

6.5.12 All documentation shall be maintained by the property owner and available for review by the authority having jurisdiction.

## 6.6 Maintenance.

6.6.1 Any reports of abrupt changes in airflow or noise from the duct system shall be investigated to verify that it is not related to damper operation.

6.6.2\* All exposed moving parts of the damper shall be dry lubricated as required by the manufacturer.

6.6.3 If the damper is not operable, repairs shall begin as soon as possible.

6.6.4 Following any repairs, the damper shall be tested for proper operation in accordance with Section 6.5.

6.6.5 Smoke damper actuation shall be initiated at a time interval recommended by the actuator manufacturer.

6.6.6 All maintenance shall be documented and records shall be retained in accordance with 6.5.10 and 6.5.11.