

FIRE DAMPERS

This operation and maintenance instructions should not serve as a standard basis for all damper products and other manufacturers, but for Safeair-Dowco damper products.

All back-draft and fire dampers require routine maintenance procedures in order for dampers to operate as intended in any case in which fire and smoke may occur within the building. Periodic testing of all parts linked to the damper is essential to maintaining a working damper. Check that all actuators, blades, fans, etc. are functioning properly and that nothing is preventing blades or controls from operating. Be sure to check that nothing is blocking or hindering air way passage. According to NFPA 80, periodic testing of all years begin 1 year after installation date and followed every 4 years proceeding.

In any case where the damper is difficult to remove and/or impossible to test due to size and accessibility Safeair-Dowco recommends a complete examination for damper to be square and plumb and blade to have no obstructions. Check also that nothing hinders or prevents full operation of blades and airflow.

MAINTENANCE:

1. Check interior and exterior sides of dampers for any major defects or material disintegration, rust, wear, corrosion, or any signs of damage that may prevent proper functioning of damper.
 - a. In serious damage contact Safeair-Dowco <http://safeair-dowco.com/contact.php>
2. Make sure all items linked to damper are in good condition, such as closure spring and fusible links. If part is inoperable, repair or replace part.
3. Damper blades, Shafts, bearings, pivot points etc. should be cleaned and lubricated with a light spray oil. Any and all access should be removed.
 - a. *Use silicone based lubricant and not petroleum based lubricant.*
 - b. *Dampers with non-mettalic or carbon sleeve bearings do not require lubrication*
4. Blades should be visually checked through their complete cycle for defects, binding or misalignment. Check blades and see that they are fully closed when operated.
 - a. *Damper should be operated under normal airflow conditions.*
5. Move blade package back to its open position and replace the fusible link.
6. If in any case actuators, blades or linkage is not properly functioning, contact Safe-Air Dowco at our given inquiry page located above to be further assisted.

TESTING PROCEDURE:

1. With the fusible link intact, heat or remove the link with a temperate heat source. Allow blade package to drop.
 - a. **(Be sure to keep hands out of path of blades and blade package)**
2. After testing procedure check that all blades are completely closed.
 - a. *Damper should be operated under normal airflow conditions.*
3. Record date of testing procedure and label on a sheet.
4. Repeat testing procedure on a set periodic routine.