FIRE DAMPER F-R60

This fire damper has guaranteed tightness

Handbook download

21 CE 1396

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1396-CPR-0196
EN 15650:2010
Circular fire dampers
F-R60

Nominal activation conditions/sensitivity
- Sensing element load bearing capacity - **Pass**
- Sensing element response temperature - **Pass**

Closure during test at correct time and in allowable time
- Closure time and in allowable time - **Pass**

Operational reliability
- Manual mechanism = 50 cycles - **Pass**
- Actuator mechanism = 10 200 cycles: 0° to 90° - **Pass** 10 000 cycles: 45° to 60° - **Pass**

Fire resistance

Resistivity depending on installation method and situation
- Integrity **E**
- EI60(v_e–h_o–i↔o)S
- Insulation **I**
- Smoke leakage **S**
- Mechanical stability (under E)
- Maintenance of the cross section (under E)

Durability of response delay
- Sensing element response temperature and load bearing capacity - **Pass**

Durability of operational reliability
- Open and closing cycle - **Pass**

A fire damper is used in ventilation ducts and serves to separate fire compartments in case of fire for avoiding the spread of fire between adjacent fire compartments. The type of fire damper, class of the fire resistance and production date are given on the label affixed to the fire damper.

EVERY FIRE DAMPER MUST BE INSTALLED IN ACCORDANCE WITH THE HANDBOOK!

The Handbook Is Available on the Webpage

https://**design.systemair.com**/Global/en-GB/catalogue/F_R60/documents

and Includes:

- Permitted installation methods with detailed descriptions
- Fire resistance classes
- Types and parameters of activating mechanisms
- Electrical connections of activating mechanisms
- Operation manual
- Functionality check
- Inspection instructions

OPERATING JOURNAL

Placement, Building Object	
Room No.	
Position No.	
Damper Type	
Activation Type	
Nominal Size	
Serial No.	

Recommended Course of Action and Inspection Log as per EN 15 650:

1. Damper identification
2. Date of inspection
3. Inspecting electric connection of the activation mechanism (where applicable)
4. Inspecting damper for cleanliness and possible need for cleaning (where needed)
5. Inspecting blade and sealing condition, possible correction and logging (where needed)
6. Inspecting proper fire damper closure
7. Inspecting damper functionality – opening and closing using the control system, physical examination of the damper's behavior, possible correction and logging (where needed)
8. Inspecting end switches' functionality in the open and closed position, possible correction and logging (where needed)
9. Inspect whether the damper is fulfilling its role as part of the regulation system (where needed)
10. Inspect whether the damper remains in its standard operating position.
11. The damper is usually part of a system. In that case the whole system needs to be checked as described in its operation and requirements published by the builder of the system.

Activation of the Damper		
Mark the Applied Installation Method with a Cross:		
WET installation	Installation in a SOFT crossing	Installation with HILTI foam

Periodic Damper Inspections – at Least Once Every 12 Months		
Date	Description of defects found and the date of inspection after the defects are eliminated	Inspection technician's signature

WARRANTY CONDITIONS

For warranty conditions contact Your local Systemair representative.

Before you can install the fire damper, it's functionality must be tested as per chapter "Fire Damper Functionality Check".

DO NOT INSTALL NON-FUNCTIONING FIRE DAMPERS!

Changes of fire damper functionality, caused by transport or installation, aren't reclaimable after installation (deformations, damages, mechanical damage of the sealing material, foreign objects which can constrain the blade movement, wrong handling of the activation mechanism etc.).

Before you can connect the fire damper into the ductwork, the fire damper functionality must be checked again (according to chapter "Fire Damper Functionality Check").