Fire Damper
Installation Guide for Halton Exe Fold Circular (EFC)

CE

Fire resistance classes **EI 120 (v_e i↔o) S** and **EI 60 (v_e h_o i↔o) S**
CE certificate of Constancy of Performance No: 1391-CPR-2018/0205
Declaration of Performance No: 10028-EFC-2019/01/01
Tested according to fire test standard 1366-2

Contents

1 Introduction

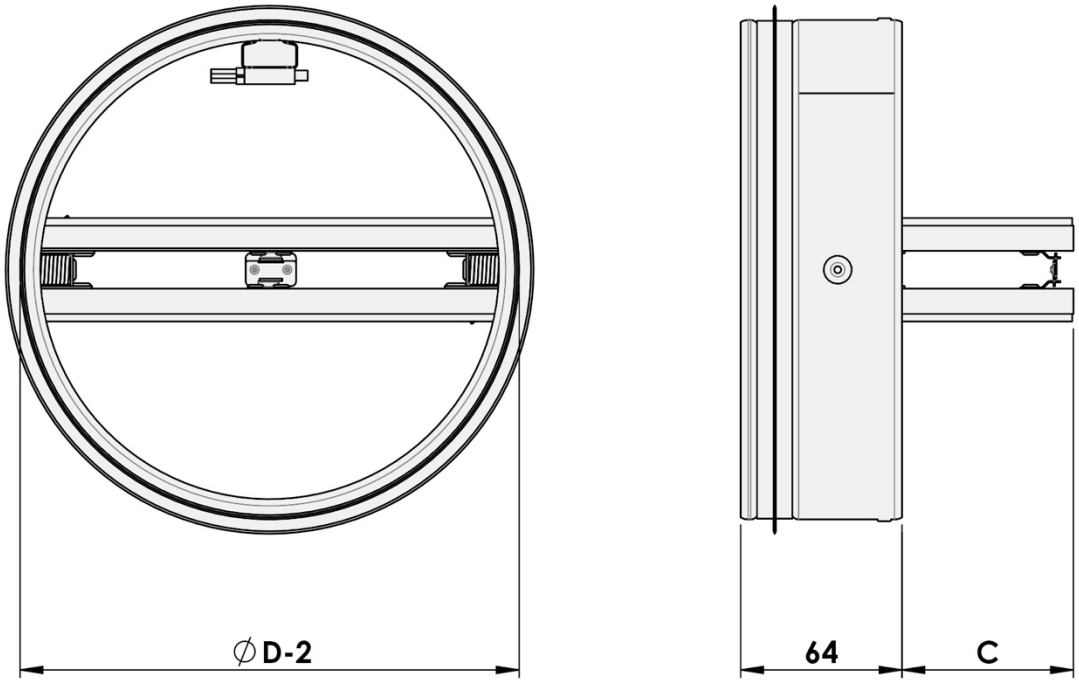
1.1 About this document

This guide provides guidelines for installing the fire damper.

1.2 Document copyright and disclaimer

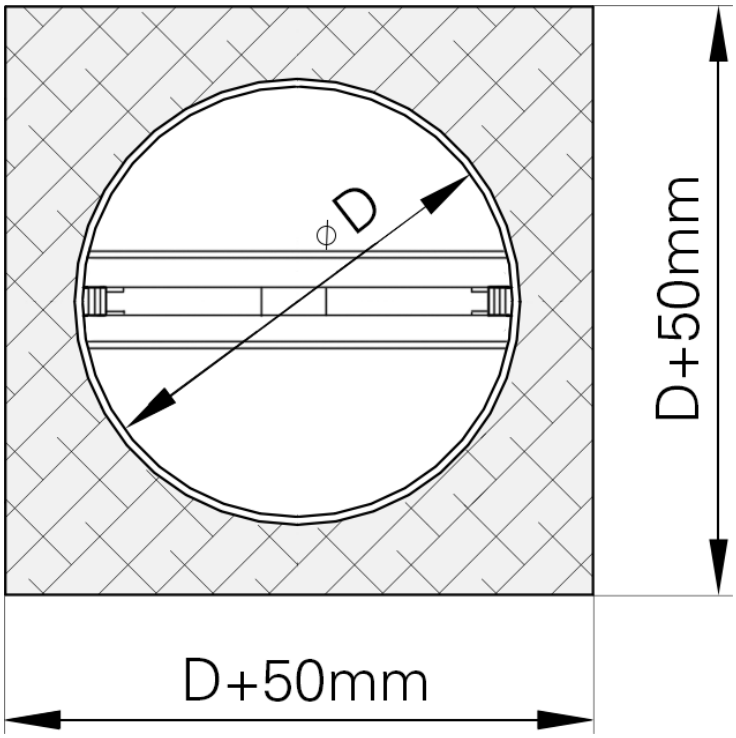
2 Dimensions

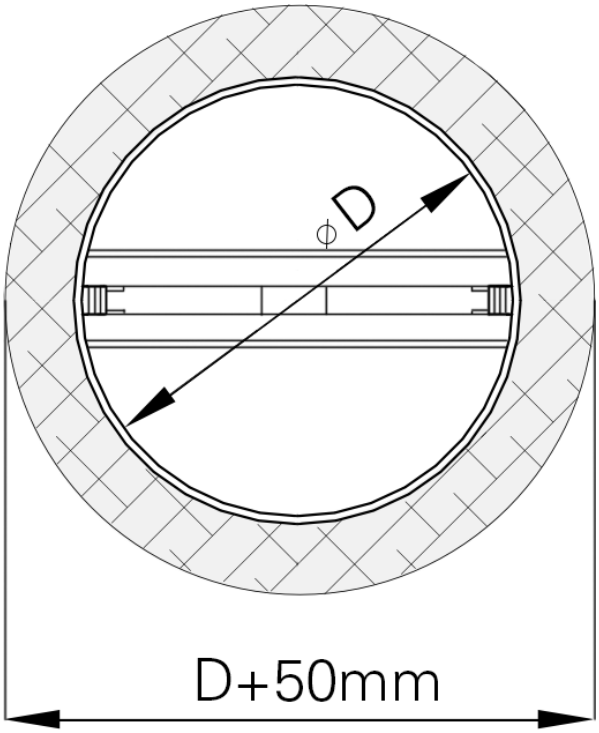
2.1 Damper dimensions (mm)



ø D	C
100	15.5
125	28.0
160	45.5
200	72.5

2.2 Size of installation opening





3 Installation

3.1 Main points before you start

1. Halton manufactures and supplies only the fire damper element of any installation method. All other components or materials mentioned in this guide must be supplied and fitted by the appropriate contractor as accepted best practice, regulation or guidelines for the country in which they are being installed.
2. Perform visual inspection of the condition of the damper before installation.
3. Operation of the damper does not depend on the direction of air circulation.
4. Spindle of the blade and the operating model can be installed in any position (360 °) in wall installation.
5. The blade must be set to open position before installation.
6. Remove safety covers from the locked spring (see picture in part 4, mounting instructions below) before mounting.
7. When limit switch is included, please pay attention to the need of connecting work that will be done after mounting of the fire damper.
8. Fill the gap between duct and construction with mortar or gypsum, e.g. HILTI, SIKLA, MÜPRO etc.

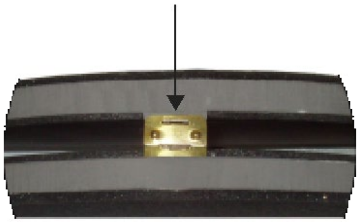
Note: The minimum recommended inspection period is every 6 months or according to the building code.

3.2 Mounting the fire damper

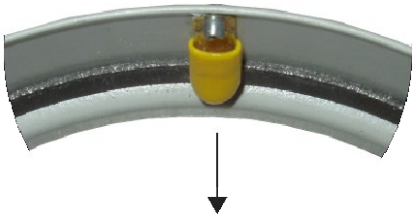
1. Make installation opening with minimum dimension stated in the drawing (see section 2.2.). Opening in the gypsum wall must be reinforced by standard steel frame. Gypsum wall must be built/constructed according to required fire resistance class. Please follow instructions of the gypsum wall fabricator/supplier.

2. Press the half blades (wings) together

3. Install the fusible link. It is attached as separate part



4. Take out safety covers from the locked spring. For each half blade (wing) separately, in total 2 pieces.



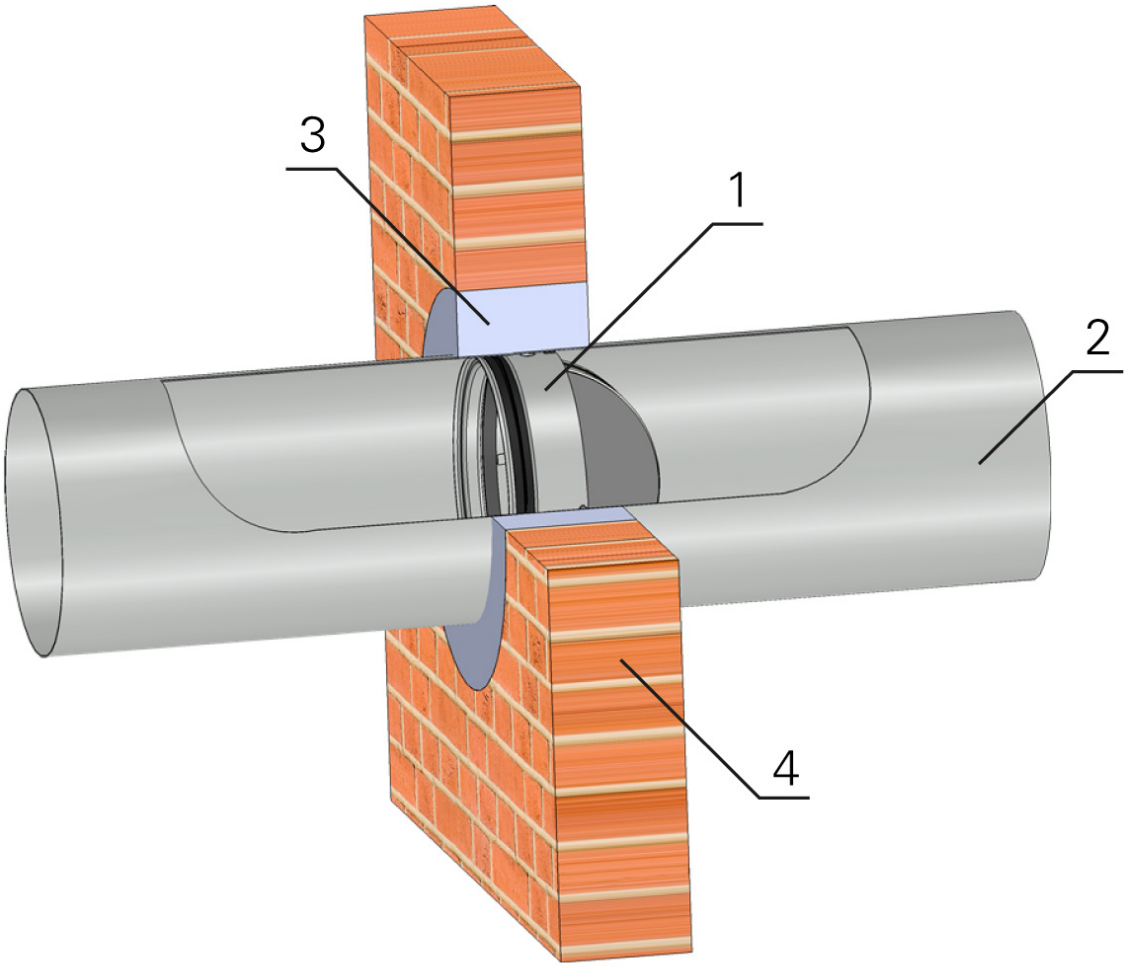
5. Install the circular spiral duct into wall opening in the way that it will be possible to insert the fire damper into the duct. The damper must be assembled inside the fire compartment wall construction.

6. Fill in the space between the wall and duct with gypsum or mortar.

7. Insert the damper into the duct

Note: Damper must be accessible for regular checks and maintenance.

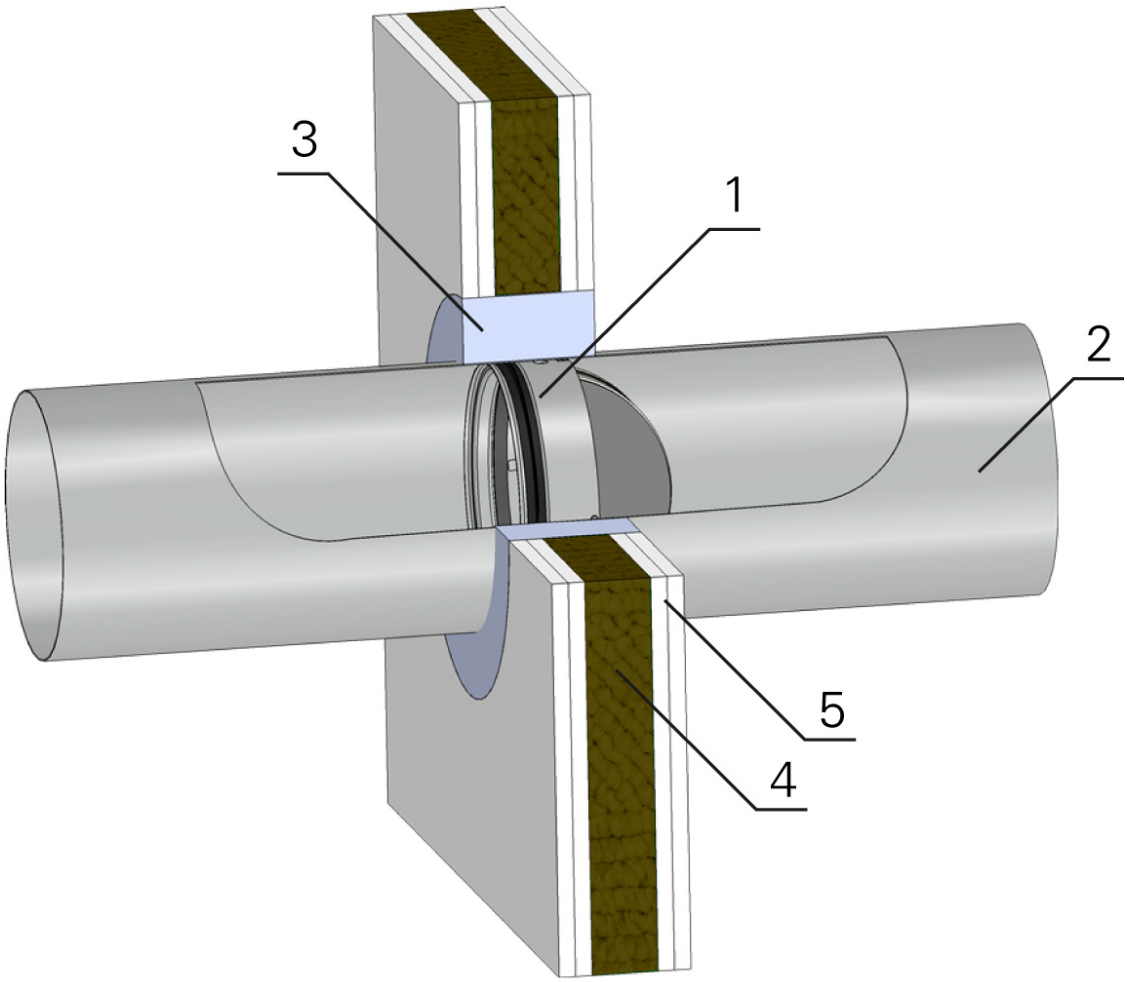
3.2.1 Solid wall construction (EI 120 S/EI 60 S)



Key:

1. Halton fire damper
2. Duct
3. Mortar or gypsum
4. Solid wall construction

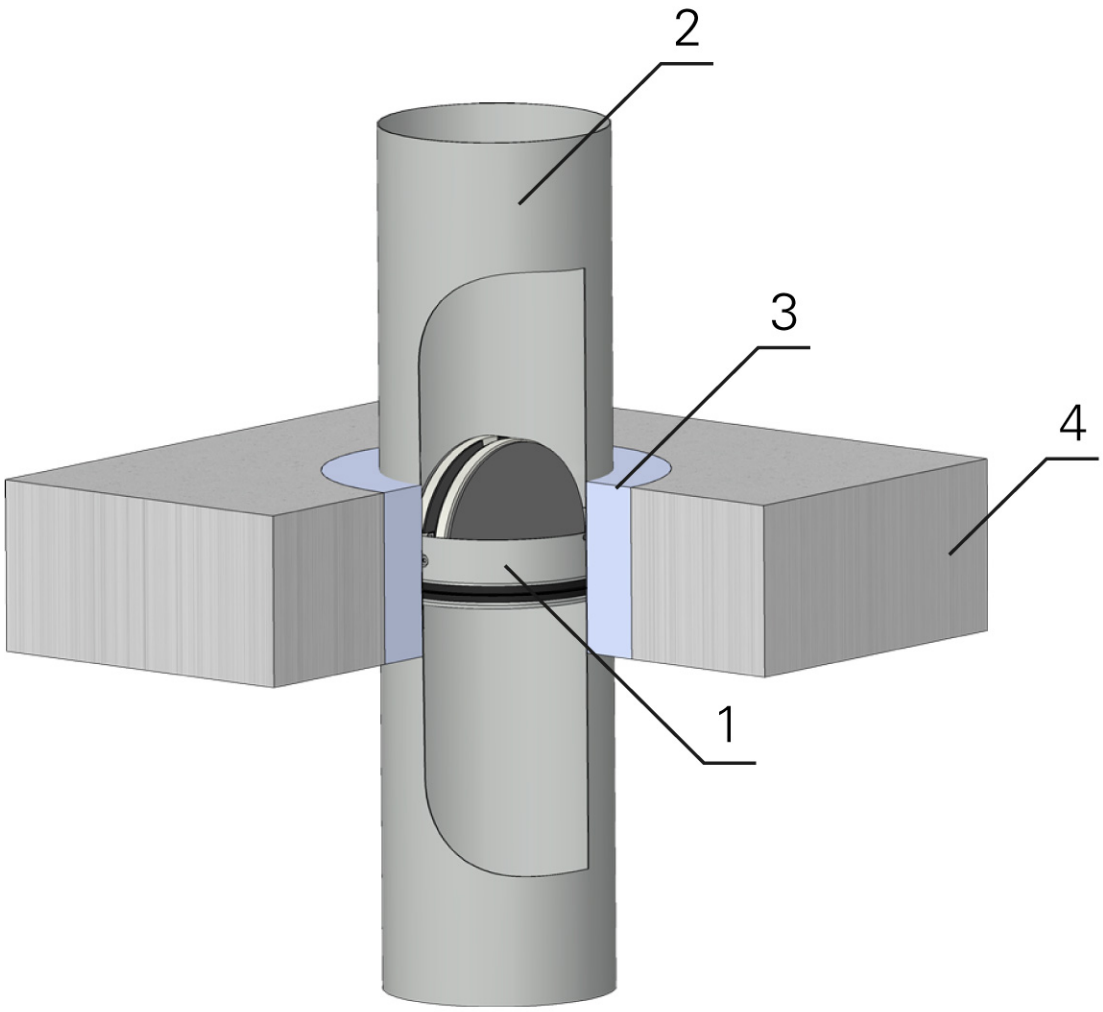
3.2.2 Lightweight wall construction (EI 120 S/EI 60 S)



Key:

1. Halton fire damper
2. Duct
3. Mortar or gypsum
4. Fire resistance insulation
5. Gypsum plate

3.2.3 Solid floor construction (EI 90 S/EI 60 S)

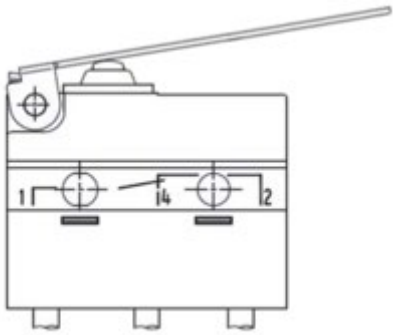


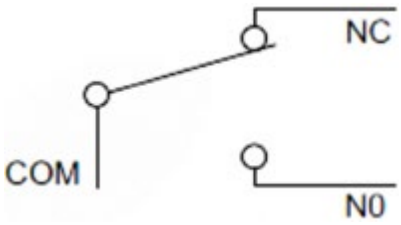
Key:

1. Halton fire damper
2. Duct
3. Mortar or gypsum
4. Solid floor construction

4 Key Technical data

4.1 Limit switch





1. (COM) – black wire
2. (NC) – grey wire
4. (NO) – blue wire

Limit switch		This limit switch is possible to connect in following two versions: **a)** **CUT-OFF** if the arm is moving **…** connect wire 1+2 **b)** **SWITCH-OFF** if the arm is moving **…** connect wire 1+4
Normal voltage, current	AC 230V / 5A	
Degree pf protection	IP 67	
Ambient temperature	-25°C … +120°C	