

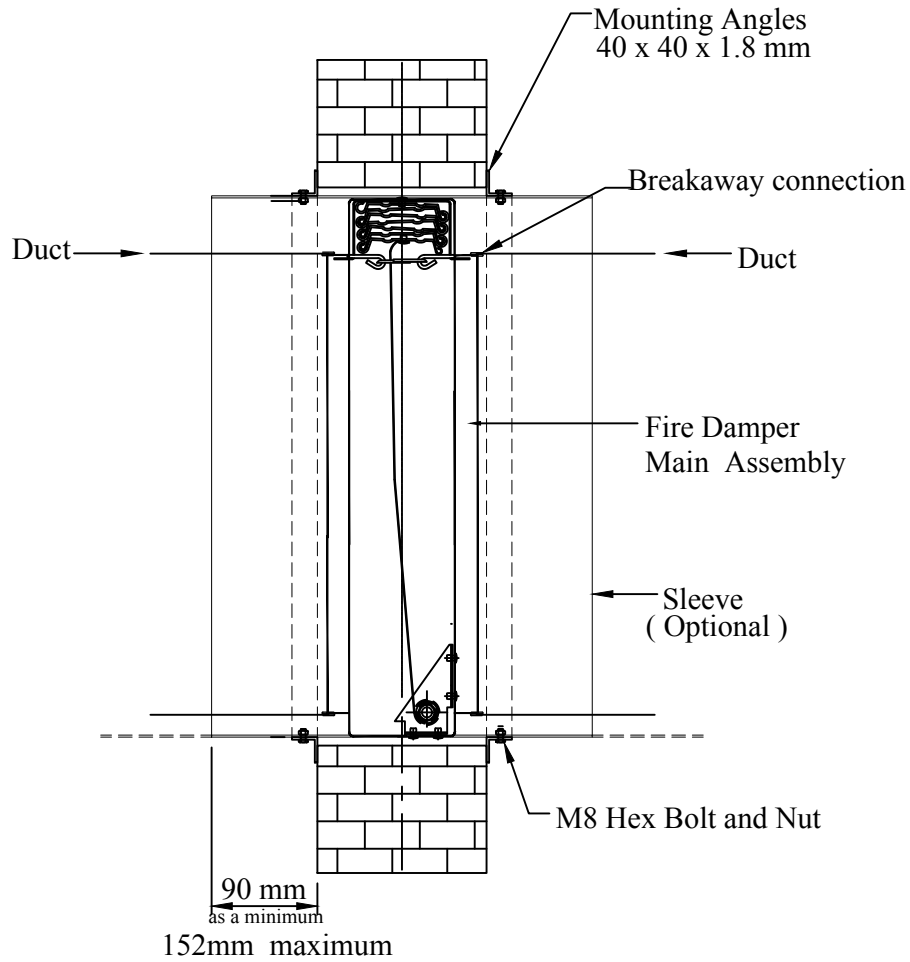


# ALPHA DUCTS

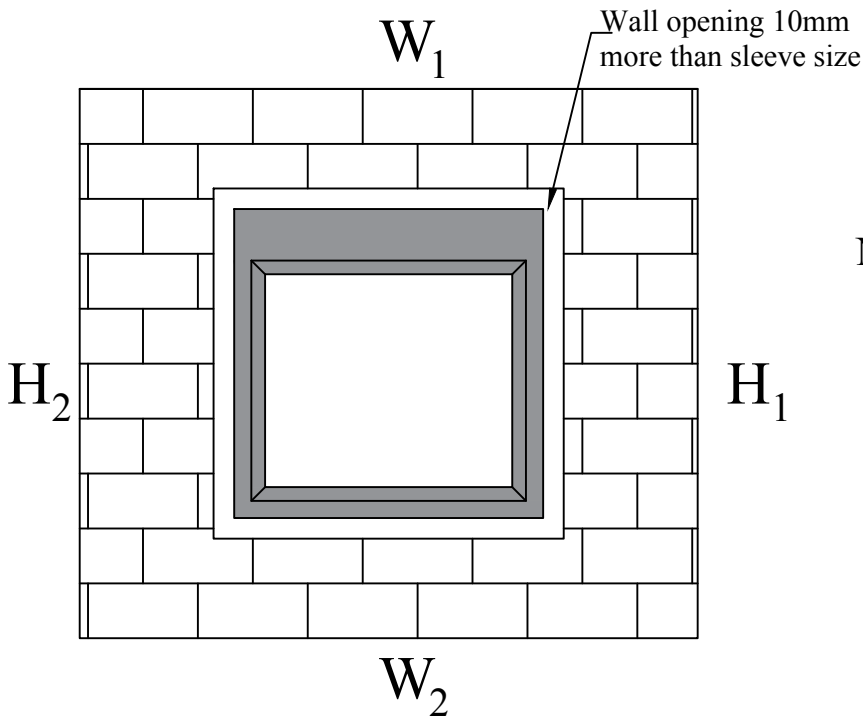
## FIRE DAMPER FOR DYNAMIC CATALOGUE & INSTALLATION GUIDELINES

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Fire damper Fix to Wall  
CROSS-SECTION DETAIL



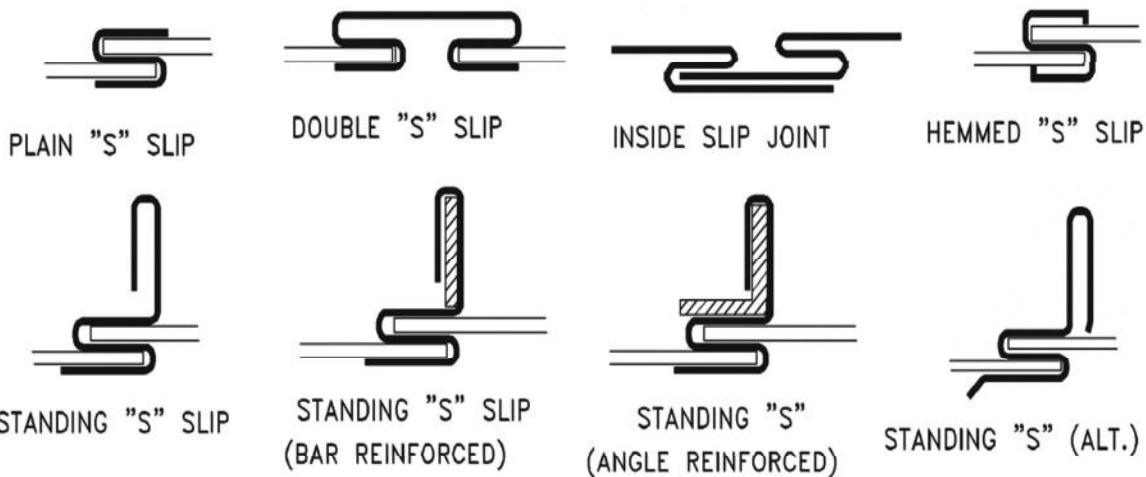
Fire Damper Clearance  
(Front View)

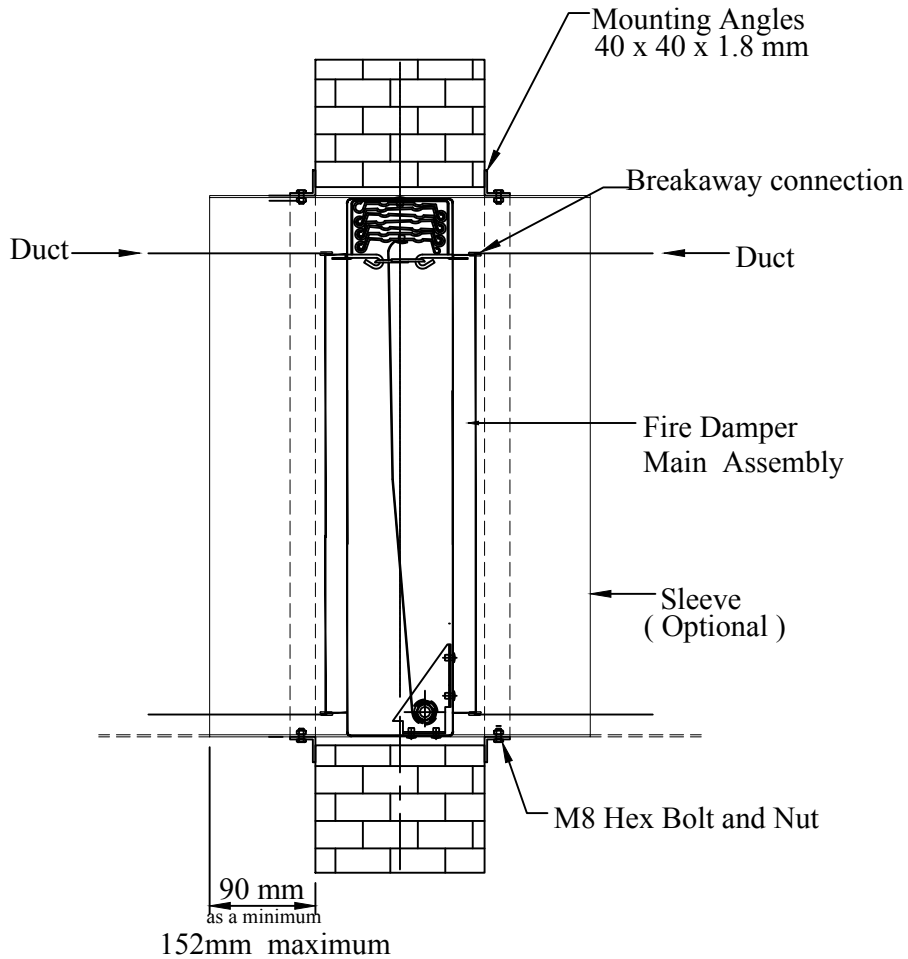
Notes:

1. All dimensions are in millimeter.
2. Unless otherwise specified all dimension tolerance to be +/- 5mm.

Notes:

1. The type of wall can be masonry 3hrs and gypsum wallboard 1 1/2 hrs.
2. The clearance required for the expansion of fire damper will be 10mm from all for side
3. Sleeve field assembly at site under contractor's scope. Sleeve must be 1.2mm thickness and min. length 380mm and max. 480mm.
4. Fire Damper frame must be fix on the center if the Fire Damper sleeve and must be use mig welding. 30mm max from side and max 70mm welding to welding and on all four sides. To fix the retaining angle with the sleeve by using 8mm nut & bolt, max 50mm from left and right & 100mm max. from net to other net.
5. Galvanized retaining angle size 40x40mm,thickness 1.8mm. Overlap 40mm to the wall opening on all sides of damper sleeve and not to be fastened at the corners.
6. The connecting ducts will be not continue and the breakway joint connections to be joint on the frame.Refer to breakway connection types below.
7. Airflow can be at opposite direction.





**MATERIAL SPECIFICATIONS:**

1. UL LISTED FIRE DAMPER CURTAIN TYPE 100 % FREE AREA VERTICAL & HORIZONTAL, 3HOURS
2. FRAME MADE FROM GALVANIZED THICKNESS 1.2, BLADE MADE FROM GALVANIZED THICKNESS 1.2, SLEEVE MADE FROM GALVANIZED THICKNESS 1.2
3. SLEEVE LENGTH MIN. 380, MAX. 480
4. SPRING STAINLESS STEEL
5. FUSIBLE LINK 165 FAHRENHEIT

## DESCRIPTION

## PRODUCT COVERED:

USC - Fire Dampers for Use in Static Systems, Model FD  
**USC - Fire Dampers for Use in Dynamic Systems, Model FDD**

## GENERAL:

Model FD dampers are of curtain blade type construction for vertical and horizontal installation for static applications.

The dampers are intended for use in heating, ventilating and air conditioning duct systems passing through fire resistive walls, partitions, and floors in accordance with the Standard for Installation of Air Conditioning and Ventilating Systems, NFPA 90A.

## TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Products designated USC have been investigated using requirements contained in UL 555.

## SIZE:

The following sizes are covered:

FIRE DAMPER FOR USE IN STATIC SYSTEMS  
TABLE 1

<u>Model</u>	<u>Installation</u>	Maximum Single section Size		Maximum Multiple Assembly Size	
		Width, in.	Height, in.	Width, mm. (In.)	Height, mm. (In.)
FD	V/H	36	36	-	-

FIRE DAMPER FOR USE IN DYNAMIC SYSTEMS  
TABLE 1a

<u>Model</u>	<u>Installation</u>	Maximum Single section Size		Maximum Multiple Assembly Size	
		Width, in.	Height, in.	Width, mm. (In.)	Height, mm. (In.)
FDD	V	36	36	-	-

**RATINGS:**

Fire resistance ratings of the damper are **rated up to** as covered in Table 2.

TABLE 2

Damper models	Fire Rating, Hrs
<b>FD, FDD</b>	3

Flow and pressure ratings of the dynamic rated damper models are as covered in Table 2a.

TABLE 2a

Damper model	Mounting Position	Temperature Response Device Model	Maximum Damper Size, In.	Flow Rating FPM	Static Pressure in. WC
<b>FDD</b>	<b>Vertical</b>	<b>165° F Fusible link</b>	<b>36 x 36</b>	<b>2000</b>	<b>4</b>

# CERTIFICATE OF COMPLIANCE

**Certificate Number** R39998  
**Report Reference** R39998-20200929  
**Date** 2020-November-30

**Issued to:** ALPHA DUCTS LLC  
Jebal Ali Industrial - Plot 599-347  
PO Box 336769  
Dubai AE

**This is to certify that representative samples of** DAMPERS FOR FIRE BARRIER AND SMOKE APPLICATIONS  
See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 555 Standard for Fire Dampers

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/about/locations/>




# CERTIFICATE OF COMPLIANCE

Certificate Number R39998  
Report Reference R39998-20200929  
Date 2020-November-30

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

USC – Fire Dampers for Use in Static Systems, Model FD  
USC – Fire Dampers for Use in Dynamic Systems, Model FDD



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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