

# Curtain Fire Dampers

Blades outside airstream with 100% free area



FD 150 CH

**CIVIL  
DEFENCE  
APPROVED**

## Compliance

- UL 555 classified.
- BS 476 certified.
- Constructed and tested as per UL 555 and BS 476: Part 20: 1987.

## Advantages

- Fire resistance: 1.5h (UL 555).
- Fire resistance: 2h (BS 476).
- Suitable for static systems.
- 100% free area with no pressure loss.
- Maintenance: easy removal of the fusible link.

## APPLICATION

- For vertical installation in walls or partitions with fire resistance rating of less than 3 hours.
- Suitable for use in static systems, no pressure loss.

## DESCRIPTION

- Normally open and close automatically upon detection of heat.
- Protects integrity of a fire barrier & limits spread of fire.
- Maintains the fire resistance rating where penetrated by HVAC ductwork.

## CONSTRUCTION

### Single section

- Casing made from 18 ga. (1.2 mm) galvanized steel.
- Interlocking type blades made from 22 ga. (0.8 mm) galvanized steel.
- UL listed fusible link which operates at 74°C (165°F).
- Stainless steel closure springs.
- Sleeve made from 16 ga. (1.5 mm) galvanized steel can be factory installed (recommended) or field supplied (as per installation instructions).
- Minimum size: 100 x 100 mm ; opening dimensions.
- Maximum size: 914 x 914 mm ; overall dimensions.

## INSTALLATION

- Vertical installation.
- In walls or partitions.

## RANGE

Description	Code
FD 150 CH – Single – G.I. casing & blades	
*FD 151 CH – Single – G.I. casing & SS (grade 304) blades	
*FD 152 CH – Single – G.I. SS (grade 304) casing & blades	

## AVAILABLE OPTIONS

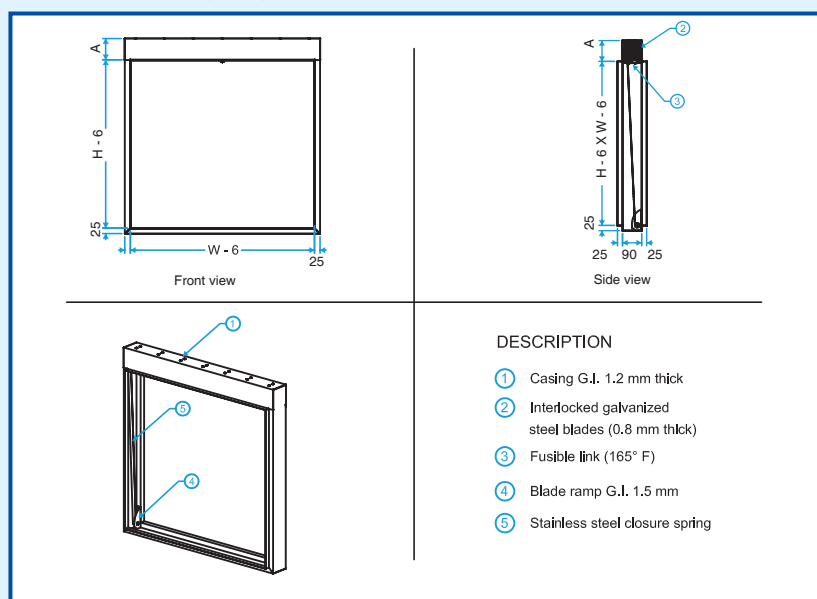
Description	Code
G.I. sleeve	S
HEVAC installation frame	*V

## ACCESSORIES

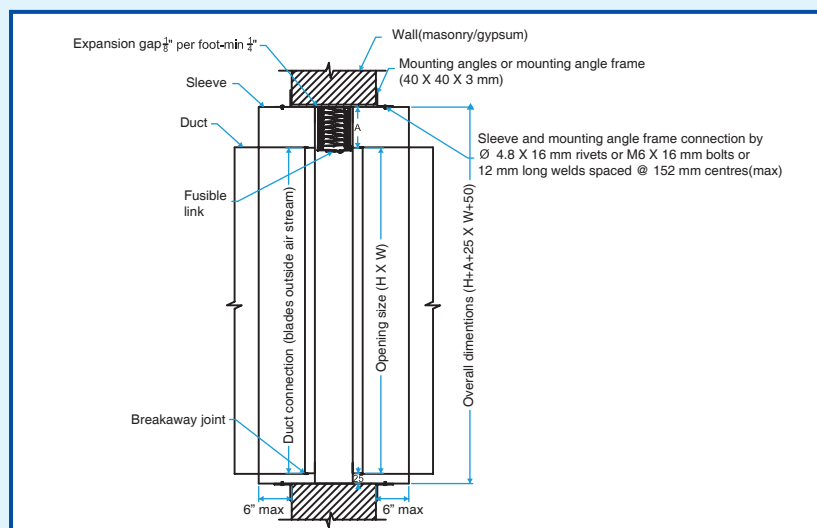
Description	Code
Retaining angles frame – 40 x 40 x 3 mm	F
Retaining angles lose – 40 x 40 x 3 mm	R
Micro-switch	M
Duct extensions, 50 mm longer than sleeve on each side	D
Access doors (see page 46)	

\*Not available for UL classified or BS 476 certified dampers.

## DIMENSIONS (mm)



## INSTALLATION DETAILS



## AVAILABLE SIZES (mm)

W	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
H	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	800
A	30	35	40	45	50	55	60	65	70	70	75	80	85	90	95	95
n° blades	4	5	5	6	7	8	9	10	11	11	12	13	14	15	16	16

- Any combination of W x H. For other sizes, please consult us.
- A and n° blades are associated with height H of damper.

# Curtain Fire Dampers

Blades outside airstream with 100% free area



FD 150 CH

**CIVIL  
DEFENCE  
APPROVED**

## Compliance

- UL 555 classified.
- BS 476 certified.
- Constructed and tested as per UL 555 and BS 476: Part 20: 1987.

## Advantages

- Fire resistance: 1.5h (UL 555).
- Fire resistance: 2h (BS 476).
- Suitable for static systems.
- 100% free area with no pressure loss.
- Maintenance: easy removal of the fusible link.

## CONSTRUCTION

### Multiple section

- For dampers exceeding the limitation of single section dimensions, they will be manufactured in multiple sections for assembly in factory.
- Multiple sections will be created by joining 2 or 4 single sections together by welding. The joints shall then be covered by 18 ga. (1.2 mm) metal strips running horizontally and vertically.
- Maximum size: 1828 x 1828 mm ; overall dimensions

### Possible arrangements

- 2 single sections (in width) x 1 single section (in height).
- 1 single section (in width) x 2 single sections (in height).
- 2 single sections (in width) x 2 single sections (in height).

## INSTALLATION

- Vertical installation.
- In walls or partitions.

## RANGE

Description	Code
FD 150CH – Multi – G.I. casing & blades	
*FD 151CH – Multi – G.I. casing & SS (grade 304) blades	
*FD 152CH – Multi – G.I. SS (grade 304) casing & blades	

## AVAILABLE OPTIONS

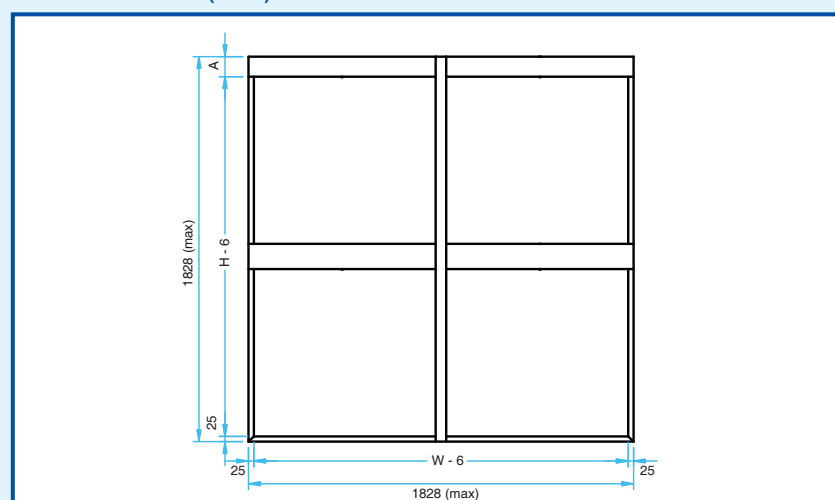
Description	Code
G.I. sleeve	S
HEVAC installation frame	*V

## ACCESSORIES

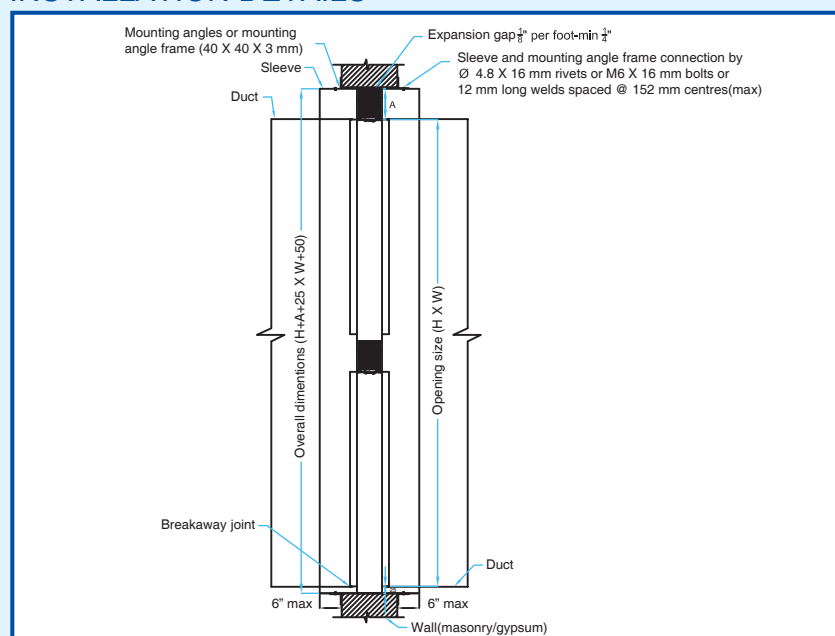
Description	Code
Retaining angles frame – 40 x 40 x 3 mm	F
Retaining angles lose – 40 x 40 x 3 mm	R
Micro-switch	M
Duct extensions, 50 mm longer than sleeve on each side	D
Access doors (see page 46)	

\*Not available for UL classified or BS 476 certified dampers.

## DIMENSIONS (mm)



## INSTALLATION DETAILS



## AVAILABLE SIZES (mm)

W	900	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750
H	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1700
A	60	60	65	65	70	70	75	75	75	80	80	85	85	85	90	90	95	95	95
n° blades	9	9	10	10	11	11	12	12	12	13	13	14	14	14	15	15	16	16	16

- Any combination of W x H. For other sizes, please consult us.
- A and n° blades are associated with height H of single section damper.

# Curtain Fire Dampers

Blades outside airstream with 100% free area



FD 150 CH-D

**CIVIL  
DEFENCE  
APPROVED**

## Compliance

- UL 555 classified.
- Constructed and tested as per latest edition of UL555 standard.

## Advantages

- Fire resistance: 1.5h.
- Suitable for static & dynamic systems.
- 100% free area with no pressure loss.
- Maintenance: easy removal of the fusible link.
- Dynamic rating : 2000 fpm at 4" w.g. pressure.

## APPLICATION

- For vertical installation in walls or partitions with fire resistance rating of less than 3 hours.
- Suitable for use in static & dynamic systems, no pressure loss.

## DESCRIPTION

- Normally open and close automatically upon detection of heat.
- Protects integrity of a fire barrier & limits spread of fire.
- Maintains the fire resistance rating where penetrated by HVAC ductwork.

## CONSTRUCTION

- Casing made from 18 ga. (1.2 mm) galvanized steel.
- Interlocking type blades made from 22 ga. (0.8 mm) galvanized steel.
- UL listed fusible link which operates at 74°C (165°F)
- Stainless steel closure springs.
- Sleeve made from 16 ga. (1.5 mm) galvanized steel can be factory installed (recommended) or field supplied (as per installation instructions).
- Minimum size: 100 x 100 mm ; opening dimensions.
- Maximum size: 914 x 914 mm ; overall dimensions.

## INSTALLATION

- Vertical installation.
- In walls or partitions.

## RANGE

Description	Code
FD 150 CH-D - Single - G.I. casing & blades	
*FD 151 CH-D - Single - G.I. casing & SS (grade 304) blades	
*FD 152 CH-D - Single - G.I. SS (grade 304) casing & blades	

## AVAILABLE OPTIONS

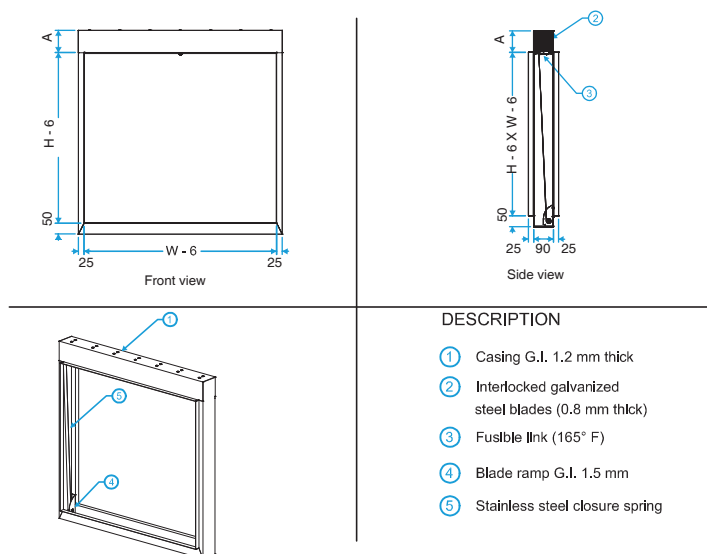
Description	Code
G.I. sleeve	S
HEVAC installation frame	*V

## ACCESSORIES

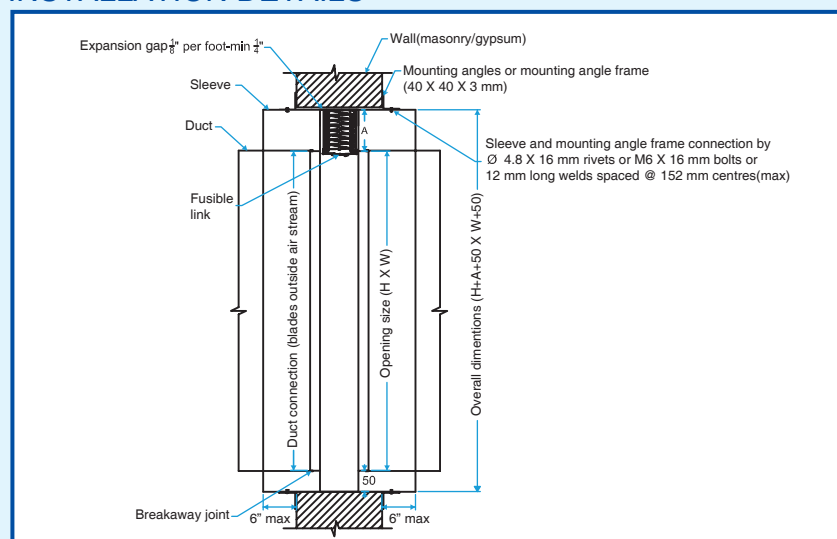
Description	Code
Retaining angles frame - 40 x 40 x 3 mm	F
Retaining angles lose - 40 x 40 x 3 mm	R
Micro-switch	M
Duct extensions, 50 mm longer than sleeve on each side	D
Access doors (see page 46)	

\* Not available for UL Classified dampers

## DIMENSIONS (mm)



## INSTALLATION DETAILS



## AVAILABLE SIZES (mm)

W	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
H	100	150	200	250	300	350	400	450	500	550	600	650	700	750	750	750
A	30	35	45	50	55	60	60	65	70	75	80	85	90	95	95	95
n° blades	4	5	6	7	8	9	9	10	11	12	13	14	15	16	16	16

- Any combination of W x H. For other sizes, please consult us.
- A and n° blades are associated with height H of damper.