

INSTALLATION INSTRUCTION SUPPLEMENT

Refer to:
 'Installation Instructions for FD, DFD, SSFD, & KFD Models'
 (Part #452763)
 or
 'Installation Instructions for FSD-XXX, DFD-XXX, SSFSD-XXX &
 CFSD-XXX Series Fire & Combination Fire Smoke Dampers' (Part
 #461336)
 or
 'Installation Instructions for FD & DFD 150X Series Curtain Fire
 Dampers' (Part #453946) for additional details.

FD & DFD Series

1½ Hour Fire Dampers and

FSD Series

1½ Hour Combination Fire Smoke
 Dampers-Horizontal Mount

These instructions apply to 1½ hour rated combination fire smoke dampers and curtain fire dampers mounted horizontally in concrete floors. Specific requirements in these instruction are mandatory. These instructions meet the requirements of UL 555. Installation shall comply with the requirements of NFPA 90A (Standard for the Installation of Air Conditioning and Ventilating Systems) and UL Classification R13317.

**"UL CLASSIFIED
 (see complete marking on product)"**
**"UL CLASSIFIED to Canadian safety standards
 (see complete marking on product)"**
 Standards UL 555 & 555S
 Classifications Filed at UL under Listing #R13317

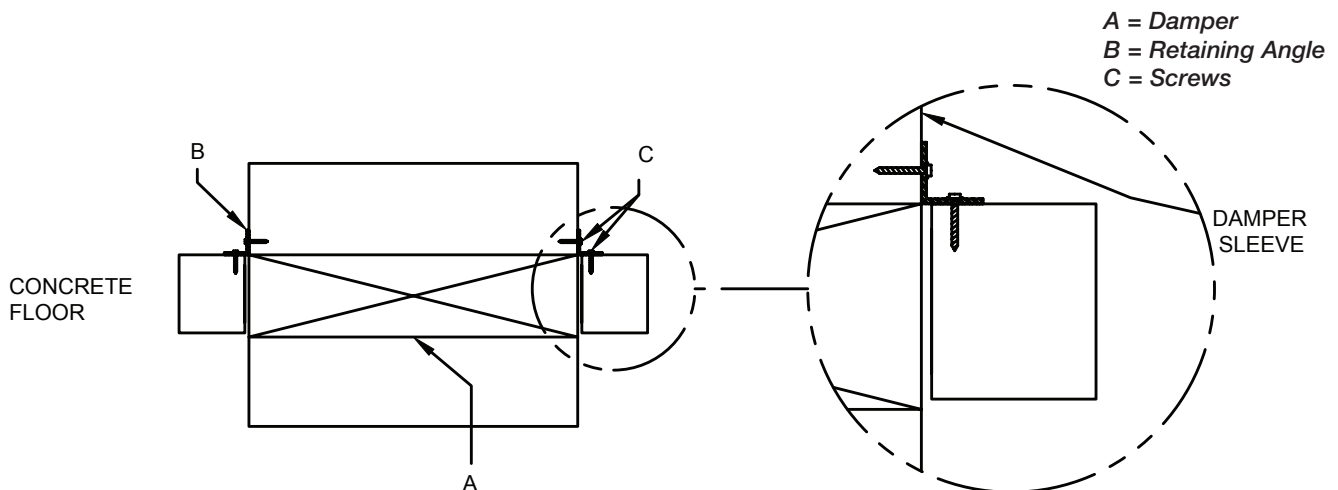
Dampers up to a maximum size of 144 in. W x 96 in. H (3658mm x 2438mm) may be installed as illustrated below.



Fire damper and sleeve assemblies 144 in. W x 96 in. H (3658mm x 2438mm) and smaller only require retaining angles on top of the concrete floor. Retaining angles must be installed on top of the floor and attached to the sleeve and the floor.

Retaining angles must be attached to the sleeve.

- Retaining angles must be a minimum of 16 gauge (1.5mm) steel and have a minimum of 1½ in. x 1½ in. (38mm x 38mm) legs.
- Retaining angles must be attached to the sleeve using one of the methods shown below:
 - tack or spot welds
 - #10 sheet metal screws or 1/4 in. nuts and bolts
- Retaining angles must be attached to the concrete floor using the method shown below:
 - Steel anchors or self tapping concrete screws penetrating concrete floor a minimum of 1¼ in. (32mm)
- A minimum of two connections per side with a maximum spacing of 6 in. (152mm) on center
- Retaining angles must overlap the floor a minimum of 1 in. (25mm)



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