

FD & FSD Opening Clearance

Installation Instruction Supplement

(D)IBD, (D)FD and FSD

UL555 and UL555S 1 1/2 Hour Rated



APPLICATION

Fire damper and combination fire smoke damper opening clearance for damper installation. The details below describes how to calculate the opening size in wall or floors for curtain fire dmpers, multi-blade fire dampers and combination fire smoke

DAMPER MODELS

Dynamic Curtain Fire Dampers

DIBD2, DIBD2G, DIBD2SS, DIBD2SSG, DIBD20, DIBD20G, DIBD40, DIBD60, DIBDT and DIBDTG

Static Curtain Fire Dampers

IBD2, IBD2G, IBD2SS, IBD2SSG, IBD20, IBD20G, IBD40, IBD60, IBDT and IBDTG

Dynamic Multi-Blade Fire Dampers

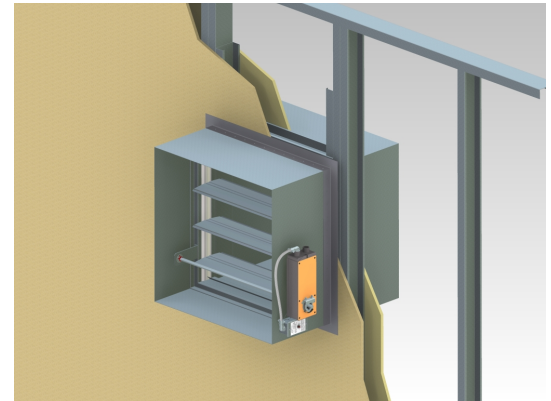
DFD-LP, DFD35, DFD35G, DFD35SS, DFD60, DFD60G

Static Multi-Blade Fire Dampers

FD35, FD35G, FD35SS, FD60 and FD60G

Combination Fire Smoke Damper

FSD60LP, FSD60, FSD60G, FSD60M, FSD60V, FSD60-XP, FSD36LP, FSD36, FSD36G, FSD36SS, FSD60LP-2, FSD60-2, FSD37LP, FSD37, FSD37SS, FSD35, FSD35G AND FSD35SS



UL CLASSIFIED

UL555 Listing R5531, UL555S Listing R5531



SEE COMPLETE
MARKING
ON PRODUCT

OPENING CLEARANCE

The opening in the wall or floor shall be larger than the damper sleeve assembly to permit installation or expansion. For two angle installations the opening shall be a minimum of 1/8" per foot (3 per 305) larger than the overall size of the damper/sleeve assembly. The maximum opening size shall not exceed 1/8" per foot (3 per 305) plus 2" (51), nor shall the opening be less than 1/4" (6) larger than the damper/sleeve assembly. For one angle installations, the opening shall be a minimum of 1/4" (6) to a maximum of 1" (25) larger than the overall size of the damper/sleeve assembly. The opening may be as much as 2" (51) larger than the damper/sleeve assembly if a 16 gauge (1.6) mounting angle is utilized

NOTES

1. The opening clearance is calculated by width and height. The opening minimum width is 1/4" larger than the damper width and the minimum height is 1/4" larger than the height of the damper/sleeve assembly. The standard maximum opening size is 1" wider and 1" taller than the damper/sleeve assembly width and/or height. The maximum opening size can be expanded to 2" wider and 2" taller than the damper/sleeve assembly width and/or height as long as the Single-sided mounting angle is 16 gauge steel or heavier. See example below.

Example 1: Angle 1 Side

12" x 12" damper (Actual Size)

Minimum opening size 12 1/4" x 12 1/4"

Maximum opening size 13" x 13" (single-sided 20 gauge mounting angle)

Optional Maximum size 14" x 14" (single-sided 16 gauge mounting angle)

Example 2: Angle 2 Side (Maximum Opening)

48" x 48" damper (Actual Size)

Minimum opening size 48 1/2" x 48 1/2"

Maximum opening size 50 1/2" x 50 1/2"

Notes:

- Dimensions shown in parentheses () indicate millimeters.

Opening Clearance is the space between the side and/or top of the damper and the wall framing

