

APPLICATION

Model DFD-M350 is approved for use in walls, floors and partitions with fire resistance ratings of 3 hours or more. This model carries a 3 hour UL fire damper label. UL 555 classifies dynamic rated fire dampers for use in HVAC systems that are operational in the event of fire.

CONSTRUCTION

Galvanized steel (in gauges required by UL listing R-13317)

INSTALLATION

All fire damper installations require the use of sleeves, angles and methods described in Greenheck Fire Damper Installation Instructions #452763, included with every damper shipment. Sleeves can be field fabricated or factory furnished as a complete damper/sleeve assembly. See Factory Sleeve Option below for details.

Model DFD-M350 meets the requirements for fire dampers established by:

National Fire Protection Association
(NFPA Standards 80, 90A & 101)

Underwriters Laboratories Standard 555 (Listing #R-13317)

BOCA National Building Codes

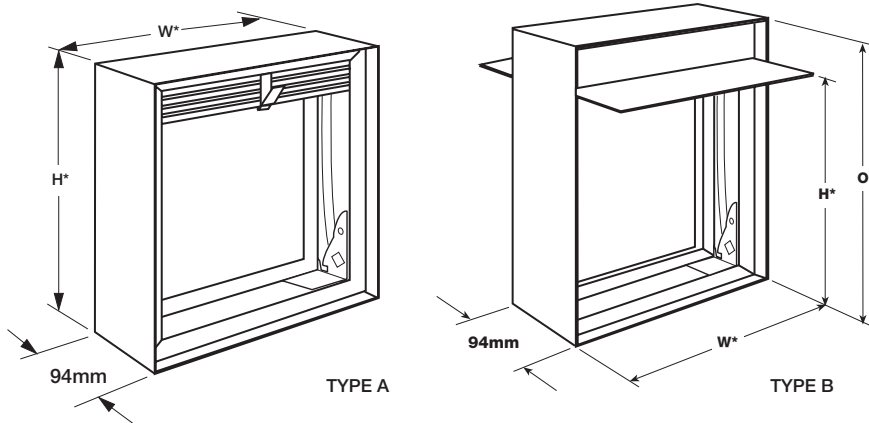
ICBO Uniform Building Codes (UBC Standard 43-7)

SBCCI Standard Building Codes

New York City (MEA listing #260-91-M)

California State Fire Marshall

(Listing #3225-981:102 for use in walls)



Features:

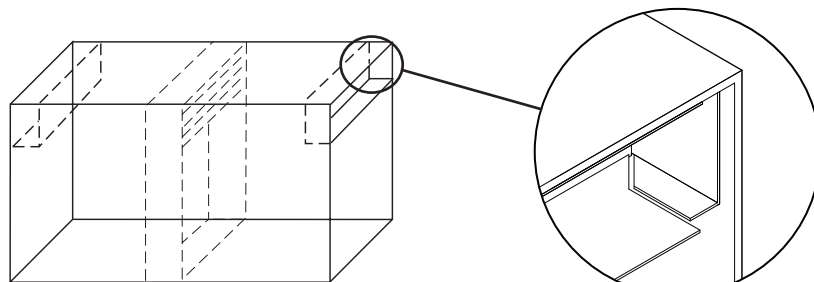
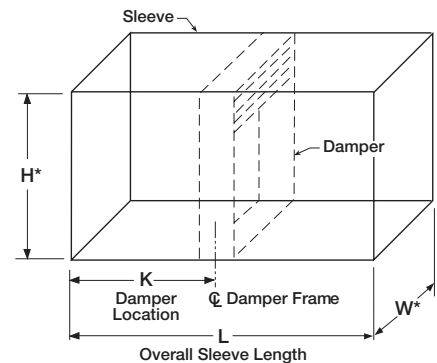
- Stainless steel closure springs
- Fusible links (74°C standard, 100°C available)
- Vertical mount only.

* These dimensions are furnished approximately 6mm undersize

FACTORY SLEEVE OPTION

DFD-350 Fire Dampers are available in factory furnished sleeves. Sleeves are galvanized steel and are available in 1.0mm - 1.5mm thicknesses and lengths up to 914mm.

"K" dimension specifies location of damper within the sleeve. Minimum is 102mm, maximum is "L" less 102mm, which allows for mounting angle installation and duct connection at each end of sleeve. If "K" dimension is not specified, it will be provided as one half of "L" dimension (damper centered in sleeve).



Type B with sleeve

Type B corner profile

When sealed option is selected, B transitions will need to be field sealed in the area where duct to sleeve connection is made.

DFD-M350 Types A&B

Three hour rated dampers are normally furnished in single section sizes only. Multi-section assembly is allowable with some limitations. Consult Greenheck for specific information.

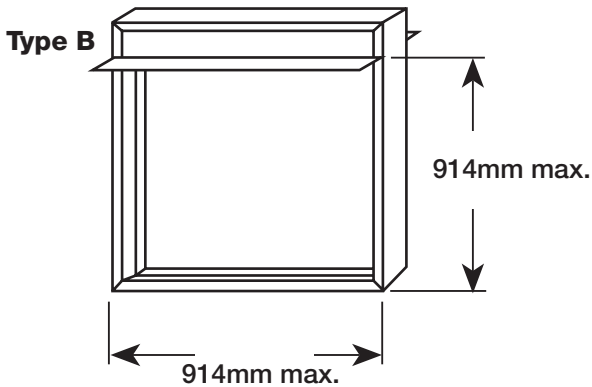
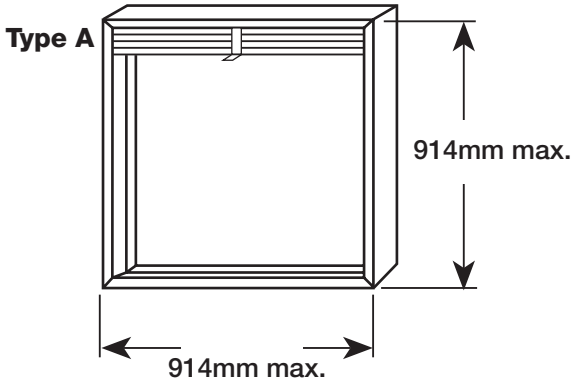
SIZE LIMITATIONS TYPE A

	Vertical or Horizontal
	Single Section
Minimum	102mm x 102mm
Maximum	914mm x 914mm

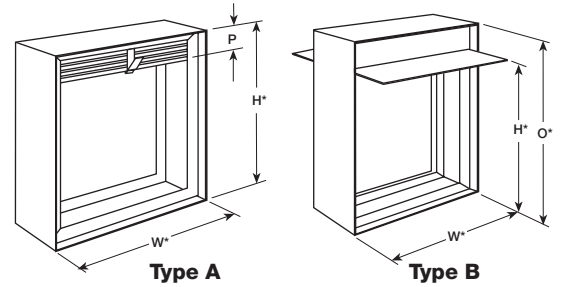
SIZE LIMITATIONS TYPE B

	Vertical or Horizontal
	Single Section
Minimum	102mm x 76mm
Maximum	914mm x 813mm

Maximum Single Section Dimensions



Overall Damper and Blade Stack Dimensions



H*	P	O*
76	-	124
102	20	152
124	20	178
152	23	203
178	28	229
203	30	254
229	33	279
254	33	305
279	36	330
305	41	356
330	43	381
356	46	406
381	46	457
406	51	483
432	53	508
457	56	533
483	58	559
508	61	584
533	66	610
559	66	660
584	69	686
610	74	711
635	79	737
660	81	762
686	81	787
711	84	813
737	86	838
762	91	864
787	94	889
813	94	914
838	99	-
864	99	-
889	104	-
914	107	-

* These dimensions are furnished approximately 6mm undersize. (Dimensions in mm)

DFD-M350 Type R

Sizing and Assembly Data

Dampers larger than maximum single section size are supplied as a factory assembly of two or more sections of equal size.

Transition is centered on damper frame (or frame assembly for multiple section dampers).

SIZE LIMITATIONS

	Vertical or Horizontal	Vertical Only
Minimum	76mm dia.	NA
Maximum	1168mm dia.	1829mm dia.

Type 'R' dampers over 1829mm dia. utilize reinforcement rods and a vertical mullion.

