

# CARNES COMPANY FIRE, SMOKE & CEILING RADIATION DAMPERS

## QUICK REFERENCE CHART

**FIRE DAMPERS** - Type A, B and C, Static and Dynamic, UL 555 and ULC S112 Listed, State of California Fire Marshall Listed

Damper Model	Blade Type	Classification	Damper Sleeve	Min/Max Size	Additional Options/Accessories
EAAA (static)	Curtain Blade	Type A-1-1/2 or 3 hrs.	Integral Sleeve	Min. V or H - 6" x 6" Max. V 1.5 hr.- 96" x 96" Max. H 1.5 hr.- 80"w x 40"h Max. V or H 3 hr.- 80"w x 40"h	V or H mounting, retaining angles, 212° fusible link (165° std.)
EABA (static)	Curtain Blade	Type A-1-1/2 or 3 hrs.	Optional	Min. V or H- 4" x 4" Max. V 1.5 hr.- 100" x 100" Max. H 1.5 hr. - 120"w x 40"h or 96"w x 48"h Max. V or H 3 hr.- 80"w x 40"h	V or H mounting, retaining angles, 212° fusible link, damper sleeve
EACA (static)	Curtain Blade - Slimline	Type A-1-1/2 or 3 hrs.	Optional	Min. V or H- 4" x 4" Max. V 1.5 hr.- 100" x 100" Max. H 1.5 hr. - 120"w x 40"h or 96"w x 48"h Max. V or H 3 hr.- 80"w x 40"h	V or H mounting, retaining angles, 212° fusible link, damper sleeve
EADA (static)	Curtain Blade - Ultra Slimline	Type A-1-1/2 or 3 hrs.	Optional	Min. V -4"w x 4"h Max. V - 40"w x 40"h	V mounting, retaining angles, 212° fusible link, damper sleeve
EAEA (static)	Curtain Blade - Sidewall Grille Mt.	Type A-1-1/2 or 3 hrs.	Integral Sleeve	Min. V w/rect. or rd. trans.- 4" x 4" Max. V w/rect. trans.- 48"w x 36"h or 36"w x 48"h Max. V w/round trans. - 46"	V mounting, retaining angles, 212° fusible link, rect. or round trans.
Eafa (static)	Curtain Blade - Floor/Ceiling Grille Mt.	Type A-1-1/2 or 3 hrs.	Integral Sleeve	Min. H w/rect. trans.- 6" x 6" Max. H w/rect. trans.- 48"w x 36"h or 36"w x 48"h Min.. H w/round trans. - 4" Max. H w/round trans. - 46"	H mounting, retaining angles, 212° fusible link, rect. or round trans.
EAGA (static)	Curtain Blade - Outside Wall/ Partition Mt.	Type A-1-1/2 hrs.	Sleeve w/ thermal bl.	Min. V or H- 6"w x 6"h Max. V or H- 42"w x 48"h	V or H mounting, retaining angles, 212° fusible link
EARA (static)	Single Blade - True Round	Type A-1-1/2 hrs.	Integral Sleeve	Min. 8" diameter Max. 24" diameter	V or H mounting, (retaining plates std.), extended sleeve, 212° fusible link, hand quad., elec. or pneum. actuator, micro switch package
EAHA (static)	Single Crimped 3V Bl.	Type A-1-1/2 hrs.	Integral Sleeve	Min. 8" x 8" Max. 16" x 16"	V or H mounting, retaining angles, 212° fusible link
Eaia (static)	Multi Blade-Crimped 3V	Type A-1-1/2 or 3 hrs.	Optional	Min. V or H- 6"w x 6"h Max. V 1.5 hr.- 108"w x 96"h Max. H 1.5 hr.- 72"w x 48"h Max. V or H 3 hr.- 72"w x 48"h	V or H mounting, retaining angles, 212° fusible link, hand quad., elec./pneum. actuator, micro switch, round transition, out of wall constr., damper sleeve
Eaja (static)	Multi Blade-Airfoil	Type A-1-1/2 or 3 hrs.	Optional	Min. V or H- 8"w x 8"h Max. V 1.5 hr.- 108"w x 96"h Max. H 1.5 hr.- 36"w x 48"h Max. V 3 hr.- 72"w x 48"h Max. H 3 hr.- 36"w x 48"h	V or H mounting, retaining angles, 212° fusible link, hand quad., elec./pneum. actuator, micro switch, round transition, out of wall constr., damper sleeve
Eaka (static)	Curtain Blade-Medium Pressure	Type A-1-1/2 or 3 hrs.	Caulked & Sealed	Min. V or H- 4"w x 3"h Max. V 1.5 hr. rect. or oval- 118"w x 114"h Max. H 1.5 hr. rect. or oval- 118"w x 35"h Max. V or H 3 hr. rect. or oval- 75"w x 35"h Max. V 3 hr. round- 54" Max. H 3 hr. round- 35"	V or H mounting, retaining angles, 212° fusible link, rectangular, oval or round transitions
Eala (static)	Curtain Blade-High Pressure	Type A-1-1/2 or 3 hrs.	Fully Welded	Min. V or H- 4"w x 3"h (4" diam. rd.) Max. V or H rect. or oval- 48" x 48" Max. V round trans.- 42" diam. Max. H round trans.- 35" diam.	V or H mounting, retaining angles, 212° fusible link, rectangular, oval or round transitions

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Damper Model	Blade Type	Classification	Damper Sleeve	Min/Max Size	Additional Options/Accessories
EHAA (dynamic)	Curtain Blade	Type A-1-1/2 or 3 hrs.	Integral Sleeve	Min. V or H - 6" x 6" Max. V- 72"w x 36"h or 36"w x 72"h Max. H- 36"w x 36"h	V or H mounting, retaining angles, 212° fusible link (165° std.)
EHBA (dynamic)	Curtain Blade	Type A-1-1/2 or 3 hrs.	Optional	Min. V or H - 6" x 6" Max. V- 72"w x 36"h or 36"w x 72"h Max. H- 36"w x 36"h	V or H mounting, retaining angles, 212° fusible link, damper sleeve
EHCA (dynamic)	Curtain Blade - Slimline	Type A-1-1/2 or 3 hrs.	Optional	Min. V or H - 6" x 6" Max. V- 72"w x 36"h Max. H- 36"w x 36"h	V or H mounting, retaining angles, 212° fusible link, damper sleeve
EHEA (dynamic)	Curtain Blade - Sidewall Grille Mt.	Type A-1-1/2 or 3 hrs.	Integral Sleeve	Min. V w/rect. trans.- 6" x 6" Max. V w/rect. trans.- 72"w x 36"h Min. V w/ round trans.- 4" Max. V w/round trans. - 34"	V mounting, retaining angles, 212° fusible link, rect. or round trans.
EHFA (dynamic)	Curtain Blade - Floor/Ceiling Grille Mt.	Type A-1-1/2 or 3 hrs.	Integral Sleeve	Min. H w/rect. trans.- 6" x 6" Max. H w/rect. trans.- 36"w x 36"h Min. H w/round trans. - 4" Max. H w/round trans. - 34"	H mounting, retaining angles, 212° fusible link, rect. or round trans.
EHGA (dynamic)	Curtain Blade - Outside Wall/ Partition Mt.	Type A-1-1/2 hrs.	Sleeve w/ thermal bl.	Min. V or H- 6"w x 6"h Max. V- 42"w x 36"h Max. H- 36"w x 36"h	V or H mounting, retaining angles, 212° fusible link
EHRA (dynamic)	Single Blade - True Round	Type A-1-1/2 hrs.	Integral Sleeve	Min. 8" diameter Max. 24" diameter	V or H mounting, (retaining plates std.), extended sleeve, 212° fusible link, hand quad., elec. or pneum. actuator, micro switch package
EHIA (dynamic)	Multi Blade- Crimped 3V	Type A-1-1/2 or 3 hrs.	Optional	Min. V or H- 6"w x 6"h Max. V 1.5 hr.- 108"w x 96"h Max. H 1.5 hr.- 72"w x 48"h Max. V or H 3 hr.- 72"w x 48"h	V or H mounting, retaining angles, 212° fusible link, hand quad., elec./pneum. actuator, micro switch, round transition, out of wall constr., damper sleeve
EHJA (dynamic)	Multi Blade- Airfoil	Type A-1-1/2 or 3 hrs.	Optional	Min. V or H- 8"w x 8"h Max. V 1.5 hr.- 108"w x 96"h Max. H 1.5 hr.- 36"w x 48"h Max. V 3 hr.- 72"w x 48"h Max. H 3 hr.- 36"w x 48"h	V or H mounting, retaining angles, 212° fusible link, hand quad., elec./pneum. actuator, micro switch, round transition, out of wall constr., damper sleeve
EBAA (static)	Curtain Blade	Type B-1-1/2 or 3 hrs.	Integral Sleeve	Min. V or H- 6"w x 4"h Max. V 1.5 hr.- 96"w x 91"h Max. H 1.5 hr.- 80"w x 36"h Max. V or H 3 hr.- 80"w x 36"h	V or H mounting, retaining angles, 212° fusible link
EBBA (static)	Curtain Blade	Type B-1-1/2 or 3 hrs.	Optional	Min. V or H- 4"w x 3"h Max. V 1.5 hr.- 120"w x 115"h Max. H 1.5 hr.- 120"w x 36"h or 96"w x 43"h Max. V or H 3 hr.- 80"w x 36"h	V or H mounting, retaining angles, 212° fusible link, damper sleeve
EBCA (static)	Curtain Blade- Slimline	Type B-1-1/2 or 3 hrs.	Optional	Min. V or H- 4"w x 3"h Max. V 1.5 hr.- 120"w x 115"h Max. H 1.5 hr.- 120"w x 36"h Max. V or H 3 hr.- 80"w x 36"h	V or H mounting, retaining angles, 212° fusible link, damper sleeve
EKAA (dynamic)	Curtain Blade	Type B-1-1/2 or 3 hrs.	Integral Sleeve	Min. V or H- 6"w x 4"h Max. V- 72"w x 32"h Max. H- 36"w x 32"h	V or H mounting, retaining angles, 212° fusible link
EKBA (dynamic)	Curtain Blade	Type B-1-1/2 or 3 hrs.	Optional	Min. V or H- 6"w x 4"h Max. V- 72"w x 32"h Max. H- 36"w x 32"h	V or H mounting, retaining angles, 212° fusible link, damper sleeve
EKCA (dynamic)	Curtain Blade- Slimline	Type B-1-1/2 or 3 hrs.	Optional	Min. V or H- 6"w x 4"h Max. V- 72"w x 32"h Max. H- 36"w x 32"h	V or H mounting, retaining angles, 212° fusible link, damper sleeve

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ECAA (static)	Curtain Blade	Type C-1-1/2 or 3 hrs.	Integral Sleeve	Min. V or H- 4"w x 3"h (rec.), 3" (rd.) Max. V rect./oval trans.- 47"w x 43"h Max. H rect./oval trans.- 39"w x 35"h Max. V round trans.- 43" Max. H round trans.- 35"	V or H mounting, retaining angles, 212° fusible link, rectangular, oval or round transitions
ECBA (static)	Curtain Blade	Type C-1-1/2 or 3 hrs.	Optional	Min. V or H 1.5 hr.- 3"w x 3"h (rect./oval), 3" (round) Max. V rec./oval trans. 1.5 hr.- 119"w x 114"h Max. H rec./oval trans. 1.5 hr.- 119"w x 35"h or 95"w x 42"h Min. V or H 3 hr.- 4"w x 4"h (rect./oval), 4" (round) Max. V or H 3 hr.- 79"w x 35"h (rect./oval), 36" (round)	V or H mounting, retaining angles, 212° fusible link, rectangular, oval or round transitions, damper sleeve
EJAA (dynamic)	Curtain Blade	Type C-1-1/2 or 3 hrs.	Integral Sleeve	Min. V or H- 5"w x 3"h (rec.), 4" (rd.) Max. V rect./oval trans.- 71"w x 32"h or 32"w x 71"h Max. H rect./oval trans.- 35"w x 32"h Max. V round trans.- 31" Max. V round low profile trans.- 33" Max. H round trans.- 20" Max. H round low profile trans.- 22"	V or H mounting, retaining angles, 212° fusible link, rectangular, oval or round transitions
EJBA (dynamic)	Curtain Blade	Type C-1-1/2 or 3 hrs.	Optional	Min. V or H- 5"w x 3"h (rec.), 3" (rd.) Max. V rect./oval trans.- 71"w x 32"h Max. H rect./oval trans.- 35"w x 32"h Max. V or H round trans.- 32" Max. V or H rd. low profile trans.- 34"	V or H mounting, retaining angles, 212° fusible link, rectangular, oval or round transitions

### **COMBINATION FIRE/SMOKE DAMPERS - Class I and II, UL 555 and 555S listed, ULC S112 and S112.1 Listed, State of California Fire Marshall Listed**

Damper Model	Blade Type	Classification	Damper Sleeve	Min/Max Size	Additional Options/Accessories
EFMA	Crimped 3V Blade	Class I	Std.	Min. V or H- 8"w x 6"h Max. Single Section- 36"w x 48"h Max. V 1.5 hr.- 108"w x 96"h Max. H 1.5 hr.- 72"w x 96"h Max. V or H 3 hr.- 72"w x 48"h	V or H mounting, retaining angles, round or oval transitions, 3/4" face flange, pneumatic or electric actuators, smoke detector, micro switch, remote control box, STO/R, DTO/R
EFNA	Airfoil Blade	Class I	Std.	Min. V or H- 8"w x 6"h Max. Single Section- 36"w x 48"h Max. V 1.5 hr.- 108"w x 96"h Max. H 1.5 hr.- 36"w x 48"h Max. V 3 hr.- 72"w x 96"h Max. H 3 hr.- 36"w x 48"h	V or H mounting, retaining angles, round or oval transitions, 3/4" face flange, pneumatic or electric actuators, smoke detector, micro switch, remote control box, STO/R, DTO/R
EFOA	Single Blade, True Round	Class I	Std.	Min. 8" diameter Max. 24" diameter	V or H mounting, retaining angles, pneumatic or electric actuators, smoke detector, micro switch, remote control box, STO/R, DTO/R
EFPA	Crimped 3v Blade-Front Access Damper	Class I	Std. w/thermal blanket	Min. V or H- 14"w x 10"h Max. V or H- 42"w x 48"h	V or H mounting, retaining angles, round or oval transitions, pneumatic or electric actuators, smoke detector, micro switch, remote control box, STO/R, DTO/R

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<b>Damper Model</b>	<b>Blade Type</b>	<b>Classification</b>	<b>Damper Sleeve</b>	<b>Min/Max Size</b>	<b>Additional Options/Accessories</b>
EFQA	Crimped 3V Blade, Out of Wall/Floor Mtg.	Class I	Std. w/thermal blanket	Min. V or H- 14"w x 10"h Max. V or H- 42"w x 48"h Max. Single Panel Size- 36"w x 48"h	V or H mounting, retaining angles, round or oval transitions, pneumatic or electric actuators, smoke detector, micro switch, remote control box, STO/R, DTO/R
EFSA	Airfoil Blade, Out of Wall/Floor Mtg.	Class I	Std. w/thermal blanket	Min. V or H- 14"w x 10"h Max. V or H- 42"w x 48"h Max. Single Panel Size- 36"w x 48"h	V or H mounting, retaining angles, round or oval transitions, pneumatic or electric actuators, smoke detector, micro switch, remote control box, STO/R, DTO/R
EFTA	Airfoil Blade, Front Access Damper (face flange for grille mtg.)	Class I	Std. w/thermal blanket	Min. V or H- 14"w x 10"h Max. V or H- 42"w x 48"h Max. Single Panel Size- 36"w x 48"h	V or H mounting, retaining angles, round or oval transitions, pneumatic or electric actuators, smoke detector, micro switch, remote control box, STO/R, DTO/R
EFVA	Crimped 3V Blade, Corridor Damper	Class I	Std.	Min. V or H- 8"w x 6"h Max. V or H- 24"w x 24"h	V or H mounting, retaining angles, round or oval transitions, 3/4" face flange, pneumatic or electric actuators, smoke detector, micro switch, remote control box, STO/R, DTO/R
EGMA	Crimped 3V Blade	Class II	Std.	Min. V or H- 6"w x 6"h Max. Single Section- 36"w x 48"h Max. V 1.5 hr.- 108"w x 96"h Max. H 1.5 hr.- 72"w x 96"h Max. V or H 3 hr.- 72"w x 48"h	V or H mounting, retaining angles, round or oval transitions, 3/4" face flange, pneumatic or electric actuators, smoke detector, micro switch, remote control box, STO/R, DTO/R
EGNA	Airfoil Blade	Class II	Std.	Min. V or H- 8"w x 8"h Max. Single Section- 36"w x 48"h Max. V 1.5 hr.- 108"w x 96"h Max. H 1.5 hr.- 36"w x 48"h Max. V 3 hr.- 72"w x 96"h Max. H 3 hr.- 36"w x 48"h	V or H mounting, retaining angles, round or oval transitions, 3/4" face flange, pneumatic or electric actuators, smoke detector, micro switch, remote control box, STO/R, DTO/R
EGOA	Single Blade, True Round	Class II	Std.	Min. 8" diameter Max. 24" diameter	V or H mounting, retaining angles, pneumatic or electric actuators, smoke detector, micro switch, remote control box, STO/R, DTO/R
EGPA	Crimped 3v Blade-Front Access Damper	Class II	Std. w/thermal blanket	Min. V or H- 14"w x 10"h Max. V or H- 42"w x 48"h	V or H mounting, retaining angles, round or oval transitions, pneumatic or electric actuators, smoke detector, micro switch, remote control box, STO/R, DTO/R
EGQA	Crimped 3V Blade, Out of Wall/Floor Mtg.	Class II	Std. w/thermal blanket	Min. V or H- 14"w x 10"h Max. V or H- 42"w x 48"h Max. Single Panel Size- 36"w x 48"h	V or H mounting, retaining angles, round or oval transitions, pneumatic or electric actuators, smoke detector, micro switch, remote control box, STO/R, DTO/R
EGSA	Airfoil Blade, Out of Wall/Floor Mtg.	Class II	Std. w/thermal blanket	Min. V or H- 14"w x 10"h Max. V or H- 42"w x 48"h Max. Single Panel Size- 36"w x 48"h	V or H mounting, retaining angles, round or oval transitions, pneumatic or electric actuators, smoke detector, micro switch, remote control box, STO/R, DTO/R
EGTA	Airfoil Blade, Front Access Damper (face flange for grille mtg.)	Class II	Std. w/thermal blanket	Min. V or H- 14"w x 10"h Max. V or H- 42"w x 48"h Max. Single Panel Size- 36"w x 48"h	V or H mounting, retaining angles, round or oval transitions, pneumatic or electric actuators, smoke detector, micro switch, remote control box, STO/R, DTO/R

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Damper Model	Blade Type	Classification	Damper Sleeve	Min/Max Size	Additional Options/Accessories
EGVA	Crimped 3V Blade, Corridor Damper	Class II	Std.	Min. V or H- 8"w x 6"h Max. V or H- 24"w x 24"h	V or H mounting, retaining angles, round or oval transitions, 3/4" face flange, pneumatic or electric actuators, smoke detector, micro switch, remote control box, STO/R, DTO/R

### **SMOKE DAMPERS - Class I and II, Low Leakage, UL 555S and ULC S112.1 Listed**

Damper Model	Blade Type	Classification	Damper Sleeve	Min/Max Size	Additional Options/Accessories
ESWA	Crimped 3V Blade	Class I	Optional	Min. V or H- 8"w x 6"h Max. Single Section- 36"w x 48"h Max. Multi Panel Ass'y- 144"w x 96"h	V or H mounting, retaining angles, round or oval transitions, pneumatic or electric actuators, smoke detector, micro switch, remote control box, sleeve
ESYA	Airfoil Blade	Class I	Optional	Min. V or H- 8"w x 6"h Max. Single Section- 36"w x 48"h Max. Multi Panel Ass'y- 144"w x 96"h	V or H mounting, retaining angles, round or oval transitions, pneumatic or electric actuators, smoke detector, micro switch, remote control box, sleeve
ESZA	Single Blade- True Round	Class I	Optional	Min. 8" diameter Max. 24" diameter	V or H mounting, retaining angles, round or oval transitions, pneumatic or electric actuators, smoke detector, micro switch, remote control box, sleeve
ETWA	Crimped 3V Blade	Class II	Optional	Min. V or H- 8"w x 6"h Max. Single Section- 36"w x 48"h Max. Multi Panel Ass'y- 144"w x 96"h	V or H mounting, retaining angles, round or oval transitions, pneumatic or electric actuators, smoke detector, micro switch, remote control box, sleeve
ETYA	Airfoil Blade	Class II	Optional	Min. V or H- 8"w x 6"h Max. Single Section- 36"w x 48"h Max. Multi Panel Ass'y- 144"w x 96"h	V or H mounting, retaining angles, round or oval transitions, pneumatic or electric actuators, smoke detector, micro switch, remote control box, sleeve
ETZA	Single Blade- True Round	Class II	Optional	Min. 8" diameter Max. 24" diameter	V or H mounting, retaining angles, round or oval transitions, pneumatic or electric actuators, smoke detector, micro switch, remote control box, sleeve

### **CEILING RADIATION DAMPERS - 1-4 Hour Rated, UL 555C and ULC S112.21 Listed**

Damper Model	Blade Type	Classification	Damper Sleeve	Min/Max Size	Additional Options/Accessories
EDAA	Butterfly Blade- Round to Round	1-4 Hour	None	Min. 5" diameter Max. 18" diameter	Adjustable volume controller, 1/8" or 1-1/4" thermal blanket, extended frame
EDBA	Butterfly Blade- Rectangle to Round	1-4 Hour	None	Min. 5" diameter Max. 18" diameter	Adjustable volume controller, 1/8" or 1-1/4" thermal blanket, extended frame
EDCA	Butterfly Blade- Square/Rect. To Rect.	1-4 Hour	None	Min. 4" w x 6" h Max. 22" w x 22" h	Adjustable volume controller, 1/8", 1/2" or 1-1/4" thermal blanket, ext. frame
EDDA (wood/gypsum ceilings)	Butterfly Bade- Square/Rect. To Rect.	1 Hour	None	Min. 4" w x 6" h Max. 16" w x 12" h	Adjustable volume controller, mtg. angles, round inlet (4", 5" or 6"), oval inlet (6", 8" or 10")

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### CEILING RADIATION DAMPERS - 1-4 Hour Rated, UL 555C and ULC S112.21 Listed

<b>Damper Model</b>	<b>Blade Type</b>	<b>Classification</b>	<b>Damper Sleeve</b>	<b>Min/Max Size</b>	<b>Additional Options/Accessories</b>
EDEA (low profile)	Fabric Type Blade-Square/Rect. To Rect.	1-4 Hour	None	Min. 4"w x 4"h Max. 24"w x 24"h	Insulated blade (std.)
EDFA (low profile w/ B transition)	Fabric Type Blade-Square/Rectangular	1-4 Hour	None	Min. 4"w x 4"h Max. 24"w x 22"h	Insulated bl. w/B channel transition (std.)
EDGA (low profile w/ thermal bl.)	Fabric Type Blade-Square/Rectangular	1-4 Hour	None	Min. 4"w x 4"h Max. 24"w x 24"h	Insulated bl. w/ thermal blanket (std.)
EDHA (low profile w/ one rd. trans.)	Fabric Type Blade-Square/Rectangular	1-4 Hour	None	Min. 6"w x 6"h (4" diam. trans.) Max. 24"w x 24"h (22" diam. trans.)	Insulated bl. w/ one round trans. (std.), 1/8" or 1-1/4" thermal blanket
EDJA (low profile w/ two rd. trans.)	Fabric Type Blade-Square/Rectangular	1-4 Hour	None	Min. 6"w x 6"h (4" diam. trans.) Max. 24"w x 24"h (22" diam. trans.)	Insulated bl. w/ two round trans. (std.), 1/8" or 1-1/4" thermal blanket
EDKA (slimline)	Fabric Type Blade-Square/Rectangular	1-4 Hour	None	Min. 4"w x 4"h Max. 24"w x 24"h	Insulated Blade (std.)
EDLA (slimline w/ thermal blanket)	Fabric Type Blade-Square/Rectangular	1-4 Hour	None	Min. 4"w x 4"h Max. 24"w x 24"h	Insulated bl. w/thermal blanket (std.)
EDMA (hinged door style)	Hinged Door Style Bl.-Square/Rectangular	1-4 Hour	None	Min. 12"w x 12"h Max. 24"w x 24"h	Hinged door style blade w/non-asbestos insulation (std.)