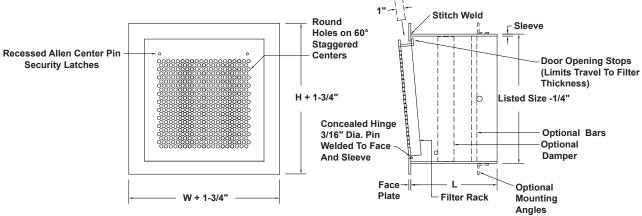
SEG-9HFG8 HINGED SECURITY FILTER GRILLE 2" (3" for 2" filters) **Torx Security Center Pin Cam Latch Continuous Concealed Hinge** on "H" Dimension Duct W -1/4" Stitch Weld Optional Expanded Metal -**Backer** 0 0 12 ga. Steel Frame and sleeve Duct H + 1-3/4" Duct H - 1/4" Filter Sizes (Exact O.D.): Cardboard frame = Duct Size -1" Unframed media = Duct Size -1" = Duct size -1-1/2" Rigid frame 12 ga. Perforated Steel 0 Door Duct W + 1-3/4" **Optional Countersunk Screw Holes** STANDARD CONSTRUCTION: **MOUNTING OPTIONS:** ☐ Screw holes in side of frame 10" o.c. to allow attachment to Frame: 12 ga. steel with radiused corners. framing behind door. (Std) Door: 12 ga. steel with radiused corners. Countersunk screw holes in face 10" o.c. with #10 x 1-1/2" long Hinge: Continuous concealed hinge welded to door and frame. Torx security screws. Opens 90 degrees. Hinge is on H dimesnion. None Latches: Torx security center pin cam latches. One latch per door Other on sizes up to 6" x 6". Larger sizes will have additional latches. Sleeve: 12 ga. steel with filter stop. Filters: Finish: Two part polyurethane inside and out. White. ☐ Furnished by others (Std) Furnished by KEES (one set) REQUIRED CONSTRUCTION: ☐ No filters (filter stop deleted) Perforations: Filter depth "F": ☐ 5/16" dia. holes on 7/16" staggered centers.(Std.) Maximum one piece size 30" x 30" □ 1" (Std.) 2" ☐ 3/16" dia. holes on 9/32" staggered centers. Suicide deterrent. □ Other Meets NIC recommendations and Calif. Title 24 Maximum one piece size 24" x 24" Filter Type: Latches: □ Fiberglass throwaway ☐ Pinned allen head security cam latches. (Std) Aluminum mesh washable ☐ Key operated cylinder cam latches. П Other Other Options: □ White (Std.) ☐ Expanded screen for use with non framed media. □ Other Other Filter Size (Exact O.D.) Filter Number of **Duct Size/Rough Opening** Sleeve O.D. = Duct Size -1/4" Qty. Other Options Tag Latches w w н To maintain KEES' policy of continuous product improvement, we reserve the right to change prices, specifications, ratings or dimensions without notice or obligation. **Project** Location Architect/ **KEES INCORPORATED Engineer** Elkhart Lake, WI 53020 SEG-9HFG8w Contractor Phone: (920) 876-3391 Dwg. No. 04/05/2017 Fax: (920) 876-3065 Website: www.kees.com **Date** Representative

SEG-9HFG3 SECURITY FILTER GRILLE — SUPPLY OR RETURN



STANDARD CONSTRUCTION:

Face: 3/16" thick steel stitch welded to sleeve. 1" face flange. Concealed hinges at bottom with 3/16" dia. pins, recessed Allen center pin security latches, track for 1" thick filter, and door stop to limit opening to filter thickness.

Hole Pattern: 5/16" diameter holes on 7/16" staggered centers.

Sleeve: 3/16" steel with continuously welded seams. **Finish:** Two part polyurethane inside and out. White.

Maximum Size: 24" x 24"

REQUIRED	CONS	RUC	HON:
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Face Material: ☐ 3/16" steel (Std.)

☐ Other ____(consult factory for availability)

Hole Pattern: ☐ 5/16" dia. holes on 7/16" centers (Std.)

☐ 1/4" dia. holes on 3/8" centers

Other _____consult factory for availability)

Flange"F": ☐ 1" (Std.) ☐ Other __

Sleeve Material: □ 3/16" steel (Std.)

☐ Other ____(consult factory for availability)

Filters (1" thick): □ By Others

□ Fiberglass Disposable Type, by KEES□ Aluminum Cleanable Type, by KEES

□ Other _

Exact filter o.d. = Listed W -2.25" x Listed H - 2.75" When provided by KEES, filters ship loose for field installation. Initial set only.

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Finish: ☐ White (Std.)

□ Other ____

MOUNTING OPTIONS:

- □ 11A. Two loose pieces of 1" x 1" x 3/16" mill finish steel angle loose for field welding. Length equal to longest side of grille. Other angle size
- □ 11B. Rear angle frame of 1" x 1" x 3/16" mill finish steel completely assembled for field welding. Other angle size
- □ 12A. Rear angle frame for bolting to sleeve. 1" x 1" x 3/16" steel with bolt holes 8" o.c. for 1/4" dia. bolts. No holes in sleeve. No bolts, nuts or washers. Other angle size
- ☐ 12B. Same as 12A with the addition of bolt holes in sleeve. (Advise wall or ceiling thickness). Other angle size
- □ 23. Masonry anchors: 1/2" x 3" anchors 16" o.c., one per side minimum, welded to sleeve exterior. Other size or spacing
- □ 24. Countersunk screw holes in face 10" o.c. with #10-24 x 2" long Torx security machine screws for 1-1/2" maximum ceiling thickness. 1" x 1" x 1/8" steel angle frame with matching holes and foldover nuts Requires 1-1/2" flange.
- 25. Countersunk screw holes in face 10" o.c. with #10 x 1-1/2" long Torx security sheet metal screws. Other screw length

ACCESSORIES:

- ☐ **16F.** Face operated opposed blade damper tack welded into sleeve. Dampers are adjustable using flat bladed screwdriver with filter removed.
- ☐ **16R**. Rear operated opposed blade damper tack welded into sleeve. Dampers are adjustable using flat bladed screwdriver.
- 19. 1/2" dia. A-36 steel bars 6" o.c., both ways (on sizes over 6" x 6") welded to sleeve and at intersections.

□ Other: _____

Qty.	Listed	d Size	Sleev (Listed S	e O.D. ize -1/4")	Masonr (= Lis	y Opening ted Size)	Sleeve Length	Wall / Ceiling Thickness	Wall / Ceiling	Vall / Ceiling Thickness Accessories	Mounting Option	Tag
	W	Н	W	Н	W	Н	L			Option		

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Project	Location
Architect / Engineer	,
Contractor	Dwg. No. SEG-9HFG3w 04/10/17
Representative	Date

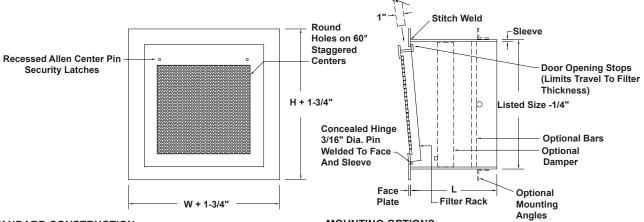


KEES INCORPORATED

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SEG-9HFG3SP SECURITY FILTER GRILLE — SUPPLY OR RETURN

Complies with NIC reccomendations and California BoP title 24.



STANDARD CONSTRUCTION:

Flange: 3/16" thick steel stitch welded to sleeve. 1" outer flange. Door Face: 3/16" steel frame with 3/16" steel sheet perforated with 3/16" diameter holes on 9/32" staggered centers stitch welded to back of frame. Concealed hinges at bottom with 3/16" dia. pins, recessed Allen center pin security latches, track for 1" thick filter, and door stop to limit opening to filter thickness.

Sleeve: 3/16" steel with continuously welded seams. Finish: Two part polyurethane inside and out. White.

□ White (Std.)

Other .

Initial set only.

Finish:

Maximum Size:	24"	' x 24"					
REQUIRED CO Face Material:		TRUCTION: 3/16" steel (Std.) Other(consult factory for availability)					
Door Face:		3/16" steel frame with 3/16" perf. having 3/16" dia. holes on 9/32" staggered centers (Std.) 3/16" steel frame with 11 ga. perf. having 1/8" dia. holes on 3/16" staggered centers					
Flange"F":		1" (Std.) Other					
Sleeve Material		3/16" steel (Std.) Other(consult factory for availability)					
Filters (1" thick): ☐ By Others ☐ Fiberglass Disposable Type, by KEES ☐ Aluminum Cleanable Type, by KEES ☐ Other							
Exact filter o.d. = Listed W -2.25" x Listed H - 2.75" When provided by KEES, filters ship loose for field installation.							

MOUNTING OPTIONS:

- 11A. Two loose pieces of 1" x 1" x 3/16" mill finish steel angle loose for field welding. Length equal to longest side of grille. Other angle size
- 11B. Rear angle frame of 1" x 1" x 3/16" mill finish steel completely assembled for field welding. Other angle size
- **12A.** Rear angle frame for bolting to sleeve. 1" \times 1" \times 3/16" steel with bolt holes 8" o.c. for 1/4" dia. bolts. No holes in sleeve. No bolts, nuts or washers. Other angle size
- 12B. Same as 12A with the addition of bolt holes in sleeve. (Advise wall or ceiling thickness). Other angle size
- 23. Masonry anchors: 1/2" x 3" anchors 16" o.c., one per side minimum, welded to sleeve exterior. Other size or spacing
- 24. Countersunk screw holes in face 10" o.c. with #10-24 x 2" long Torx security machine screws for 1-1/2" maximum ceiling thickness.

 1" x 1" x 1/8" steel angle frame with matching holes and foldover nuts Requires 1-1/2" flange.
- 25. Countersunk screw holes in face 10" o.c. with #10 x 1-1/2" long Torx security sheet metal screws. Other screw length

ACCESSORIES:

- 16F. Face operated opposed blade damper tack welded into sleeve. Dampers are adjustable using flat bladed screwdriver with filter removed. (Requires on 3/16" dia. holes when 1/8" hole pattern used)
- 16R. Rear operated opposed blade damper tack welded into sleeve. Dampers are adjustable using flat bladed screwdriver.
- 19. 1/2" dia. A-36 steel bars 6" o.c., both ways (on sizes over 6" x 6") welded to sleeve and at intersections.
- Other:

Qty.	Listed	d Size	Sleev (Listed S	e O.D. size -1/4")	Masonr (=List	yOpening ed Size)	Sleeve Length	Wall / Ceiling	Accessories	Vall / Ceiling Thickness Accessories	Mounting Option	Mounting	Tag
	W	Н	W	Н	W	Н	L	Inickness		Ориоп			

To maintain KEES' policy of continuous product improvement, we reserve the right to change prices, specifications, ratings or dimensions without notice or obligation.

Project					Location
Architect / Engineer					
Contractor			Dwg. I	No.	SEG-9HFG3SPw 04/10/17
Representative			Date		



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