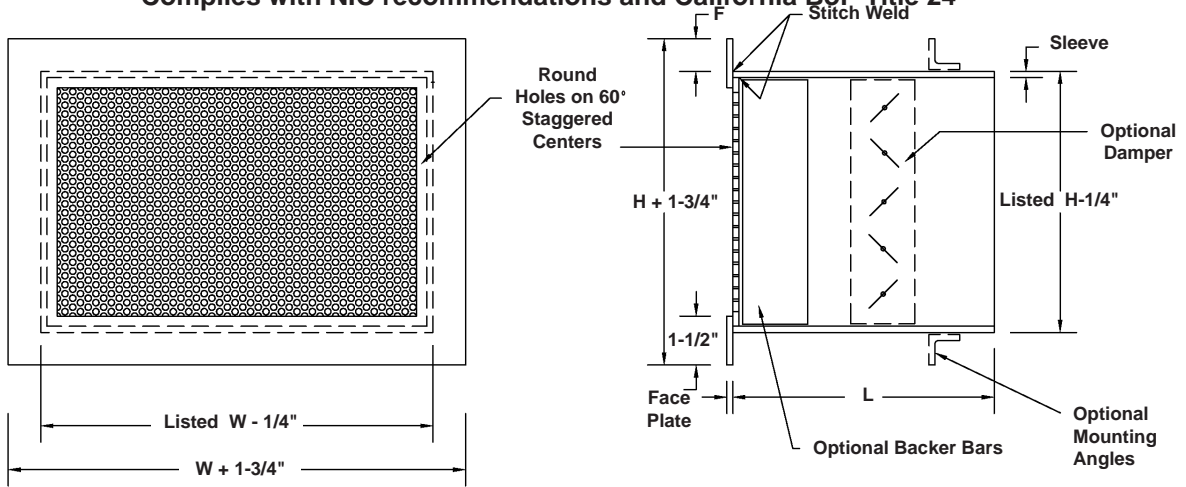


SEG-9SP2 SECURITY GRILLE — SUPPLY OR RETURN

Complies with NIC recommendations and California BoP Title 24



STANDARD CONSTRUCTION

Flange: 10 ga. steel stitch welded to sleeve. 1" face flange.
Face: .120" thick steel stitch welded to sleeve. 1/8" diameter holes on 3/16" staggered centers.
Sleeve: 10 ga. steel with continuously welded or formed seams.
Finish: Two part polyurethane inside and out. White.

REQUIRED CONSTRUCTION:

- Flange Material:** 10 ga. steel (Std.)
 3/16" steel
 12 ga. steel
 Other _____
- Face:** .120" thick with 1/8" dia. holes on 3/16" centers. (Std.)
 Other _____
- Flange "F":** 1" (Std.)
 Other _____
- Sleeve Material:** 10 ga. steel (Std.)
 3/16" steel
 12 ga. steel
 Other _____
- Finish:** White (Std.)
 Other _____
- Other Material:** **SEG-9SP2A** all aluminum construction (Consult factory for material thickness)
 SEG-9SP2SS all stainless steel construction (Consult factory for material thickness)

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 screws. Other screw length _____

ACCESSORIES:

- 16F.** Face operated opposed blade damper tack welded into sleeve. Requires 3/16" dia. hole for access to acuator. Dampers adjusted using flat bladed screwdriver.
- 16R.** Rear operated opposed blade damper tack welded into sleeve. Dampers are adjusted using flat bladed screwdriver.
- 21.** 2" x 1/4" A-36 mild steel vertical backer bars 6" o.c.
- Other:** _____

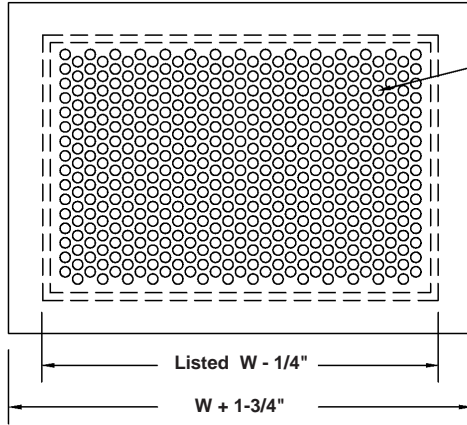
Qty.	Listed Size		Sleeve O.D.		Masonry Opening		Sleeve Length L	Wall / Ceiling Thickness	Accessories	Mounting Option	Tag
	W	H	W	H	W	H					

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

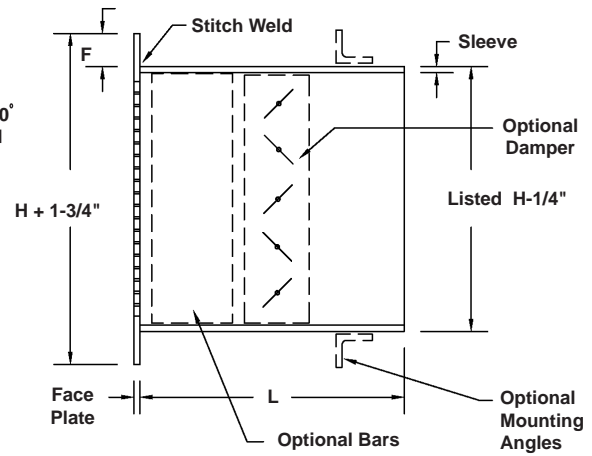
Project			Location		
Architect / Engineer			KEES INCORPORATED 400 S. Industrial Dr. • P.O. Box L Elkhart Lake, WI 53020 Phone: (920) 876-3391 Fax: (920) 876-3065 Website: www.kees.com		
Contractor		Dwg. No. SEG-9SP2w 05/21/08			
Representative		Date			

SEG-9SP3 SECURITY GRILLE – SUPPLY OR RETURN

Complies with NIC recommendations and California BoP Title 24



Round Holes on 60° Staggered Centers



STANDARD CONSTRUCTION

Face: 3/16" thick steel stitch welded to sleeve. 1" face flange.
Hole Pattern: 3/16" diameter holes on 9/32" staggered centers.
Sleeve: 3/16" steel with continuously welded or formed seams.
Finish: Two part polyurethane inside and out. White.

REQUIRED CONSTRUCTION:

Face Material: 3/16" steel (Std.)
 10 ga. steel
 12 ga. steel
 Other _____

Hole Pattern: 3/16" dia. holes on 9/32" centers (Std.)
 Other _____

Flange "F": 1" (Std.)
 Other _____

Sleeve Material: 3/16" steel (Std.)
 10 ga. steel
 12 ga. steel
 14 ga. steel
 Other _____

Finish: White (Std.)
 Other _____

For sizes over 18" x 18" see Drawing No. SEG-9SP3

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 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 adjusted using flat bladed screwdriver.
- 16R.** Rear operated opposed blade damper tack welded into sleeve. Dampers are adjusted using flat bladed screwdriver.
- 21.** 2" x 1/4" A-36 mild steel vertical backer bars 6" o.c.. Welded to sleeve tight to face.
- Other:** _____

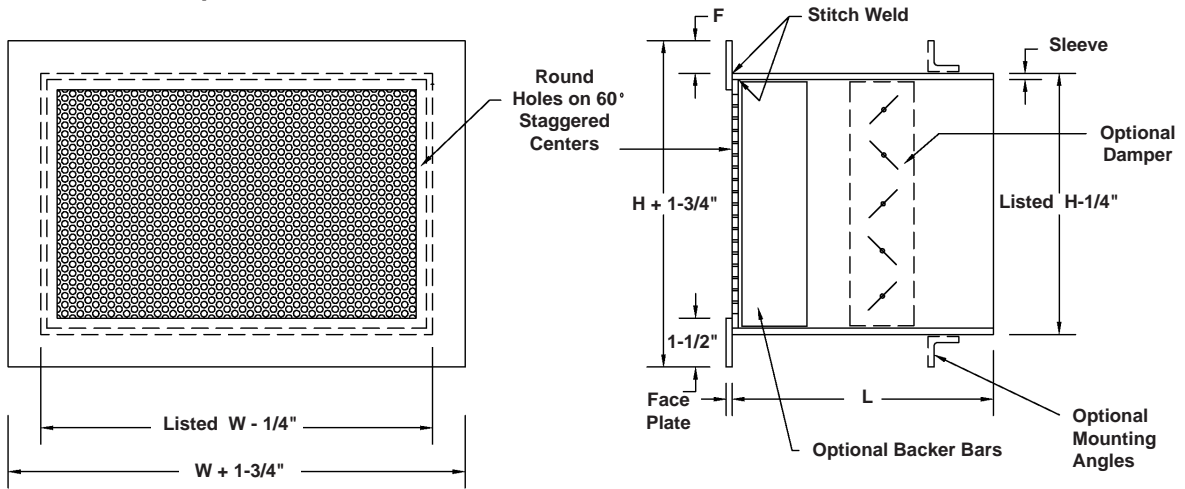
Qty.	Listed Size		Sleeve O.D.		Masonry Opening		Sleeve Length L	Wall / Ceiling Thickness	Accessories	Mounting Option	Tag
	W	H	W	H	W	H					

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				<p>KEES INCORPORATED 400 S. Industrial Dr. • P.O. Box L Elkhart Lake, WI 53020 Phone: (920) 876-3391 Fax: (920) 876-3065 Website: www.kees.com</p>			
Contractor		Dwg. No.	SEG-9SP31w 05/21/08				
Representative		Date					

SEG-9SP3 SECURITY GRILLE – SUPPLY OR RETURN

Complies with NIC recommendations and California BoP Title 24



STANDARD CONSTRUCTION

Flange: 3/16" steel stitch welded to sleeve. 1" face flange.
Face: 3/16 thick steel stitch welded to sleeve. 3/16" diameter holes on 9/32" staggered centers.
Sleeve: 3/16" steel with continuously welded or formed seams.
Finish: Two part polyurethane inside and out. White.

REQUIRED CONSTRUCTION:

- Flange Material:** 3/16" steel (Std.)
 10 ga. steel
 12 ga. steel
 Other _____
- Face:** .187" thick with 3/16" dia. holes on 9/32" centers. (Std.)
 Other _____
- Flange "F":** 1" (Std.)
 Other _____
- Sleeve Material:** 3/16" steel (Std.)
 10 ga. steel
 12 ga. steel
 Other _____
- Finish:** White (Std.)
 Other _____
- Other Material:** **SEG-9SP3A** all aluminum
 (Consult factory for material thickness)
 SEG-9SP3SS all stainless steel
 (Consult factory for material thickness)

Sizes 18" x 18" and under may be constructed with a one piece face. See drawing No. SEG-9SP31

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 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 screws. Other screw length _____

ACCESSORIES:

- 16F.** Face operated opposed blade damper tack welded into sleeve. Dampers are adjusted using flat bladed screwdriver.
- 16R.** Rear operated opposed blade damper tack welded into sleeve. Dampers are adjusted using flat bladed screwdriver.
- 21.** 2" x 1/4" A-36 mild steel vertical backer bars 6" o.c.. Welded to sleeve tight to face.
- Other:** _____

Qty.	Listed Size		Sleeve O.D.		Masonry Opening		Sleeve Length L	Wall / Ceiling Thickness	Accessories	Mounting Option	Tag
	W	H	W	H	W	H					

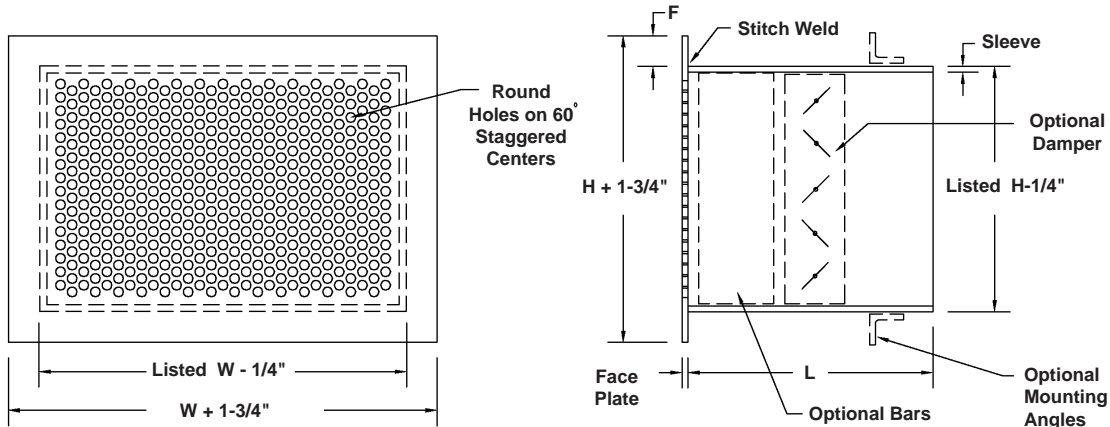
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Project		Location	
Architect / Engineer			
Contractor	Dwg. No.	SEG-9SP3w 05/21/08	
Representative	Date		

KEES INCORPORATED
 400 S. Industrial Dr. • P.O. Box L
 Elkhart Lake, WI 53020
 Phone: (920) 876-3391
 Fax: (920) 876-3065
 Website: www.kees.com

SEG-9SP5 STEEL SECURITY GRILLE — SUPPLY OR RETURN

Complies with NIC recommendations and California BoP Title 24



STANDARD CONSTRUCTION

Flange: 12 ga. steel stitch welded to sleeve. 1" face flange.
Hole Pattern: .5/32" diameter holes on 7/32" staggered centers.
Sleeve: 12 ga. steel with continuously welded or formed seams.
Finish: Two part polyurethane inside and out. White.

REQUIRED CONSTRUCTION:

- Flange Material:** 12 ga. steel (Std.)
 10 ga. steel (Limited Sizes)
 3/16" steel (1-12 ga. and 1- 14 ga. face plates spot welded together)
 Other _____
- Hole Pattern:** 5/32" dia. holes on 7/32" centers. (Std.)
 Other _____
- Flange "F":** 1" (Std.)
 Other _____
- Sleeve Material:** 12 ga. steel (Std.)
 10 ga. steel
 3/16" steel
 Other _____
- Finish:** White (Std.)
 Other _____
- Other Material:** **SEG-9SP5A** all aluminum (Consult factory for material thickness and size limitations)
 SEG-9SP5SS all stainless steel (Consult factory for material thickness (Consult factory for material thickness and size limitations))

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 screws. Other screw length _____

ACCESSORIES:

- 16F.** Face operated opposed blade damper tack welded into sleeve. Requires 3/16" dia. hole for access to acutator. Dampers adjusted using flat bladed screwdriver.
- 16R.** Rear operated opposed blade damper tack welded into sleeve. Dampers are adjusted using flat bladed screwdriver.
- 21.** 2" x 1/4" A-36 mild steel vertical backer bars 6" o.c.
- Other:** _____

Qty.	Listed Size		Sleeve O.D.		Masonry Opening		Sleeve Length L	Wall / Ceiling Thickness	Accessories	Mounting Option	Tag
	W	H	W	H	W	H					

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				KEES INCORPORATED 400 S. Industrial Dr. • P.O. Box L Elkhart Lake, WI 53020 Phone: (920) 876-3391 Fax: (920) 876-3065 Website: www.kees.com						
Contractor			Dwg. No.					SEG9SP5w 05/21/08		
Representative			Date							