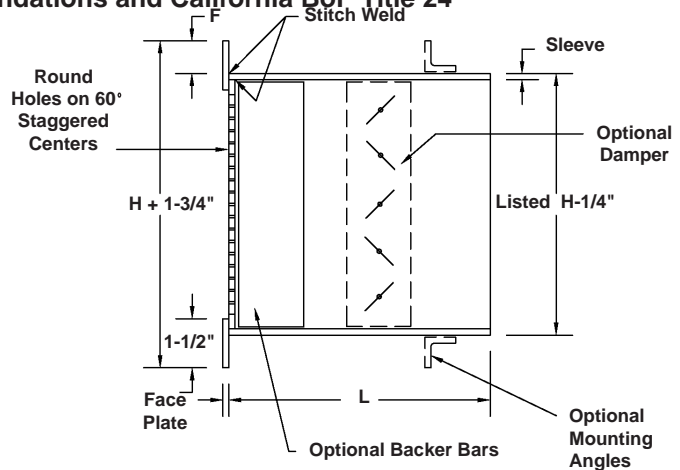
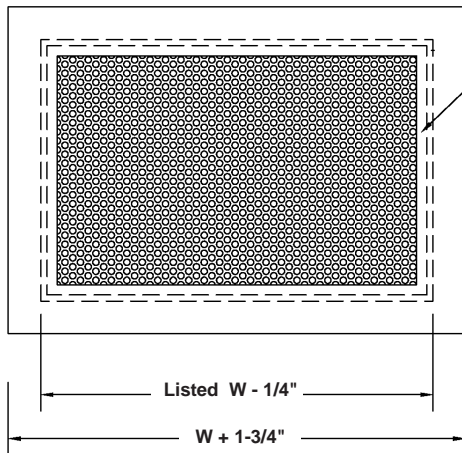


SEC-9RR2 SECURITY GRILLE — SUPPLY OR RETURN

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:** ☐ **SEC-9RR2A** all aluminum construction (Consult factory for material thickness)
☐ **SEC-9RR2SS** 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 actuator. 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					

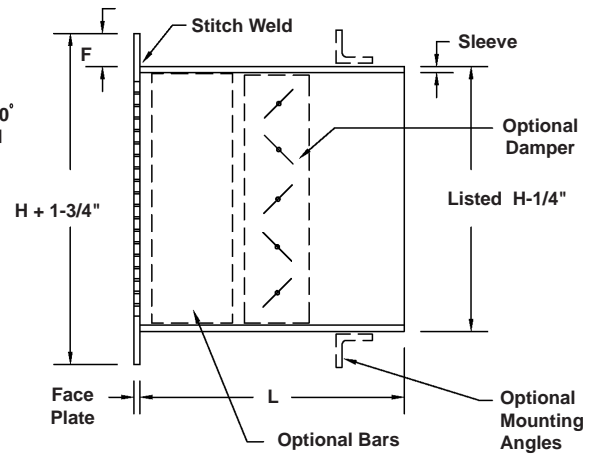
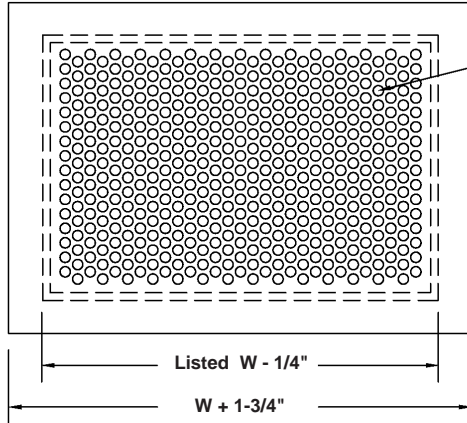
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Project		Location	
Architect / Engineer			
Contractor		Dwg. No.	SEC-9RR2w 05/21/08
Representative		Date	

AI MFG
3601 East 18th Street
Kansas City, MO 64127
PH: (816) 231-5522
Fax: (816) 231-8437

SEC-9RR3 SECURITY GRILLE — SUPPLY OR RETURN

Complies with NIC recommendations and California BoP Title 24



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 _____

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:** _____

**For sizes over 18" x 18" see
Drawing No. SEC-9RR3**

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

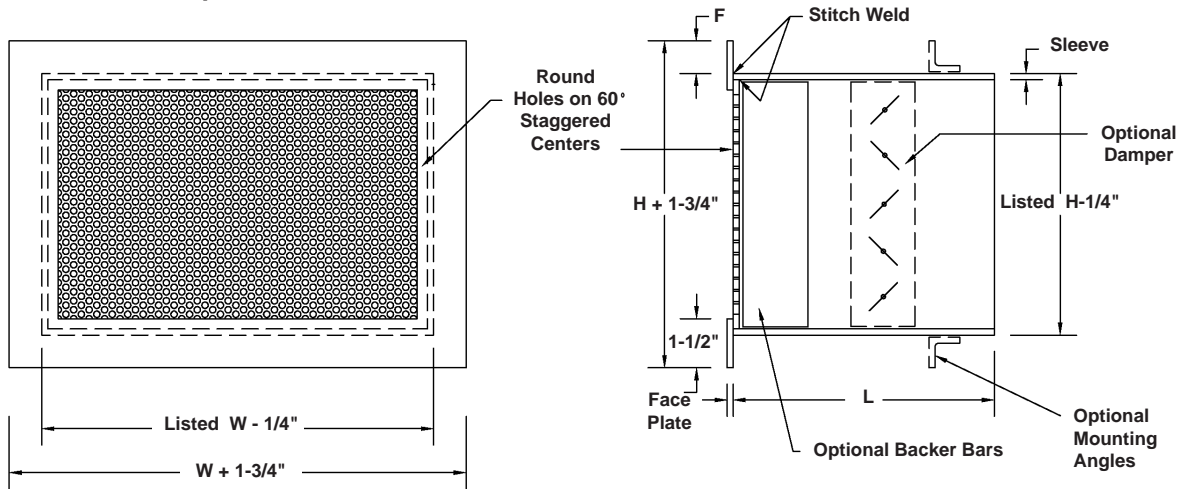
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Project				Location	<div><div>3601 East 18th Street Kansas City, MO 64127 PH: (816) 231-5522 Fax: (816) 231-8437</div></div>		
Architect / Engineer							
Contractor		Dwg. No.	SEC-9RR31w 05/21/08				
Representative		Date					

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SEC-9RR3 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:** ☐ **SEC-9RR3A** all aluminum
(Consult factory for material thickness)
☐ **SEC-9RR3SS** 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. SEC-9RR31

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					

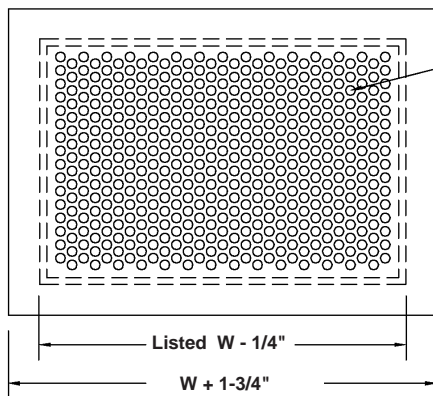
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Dwg. No. SEC-9RR3w 05/21/08		Date	
Representative		Tag	

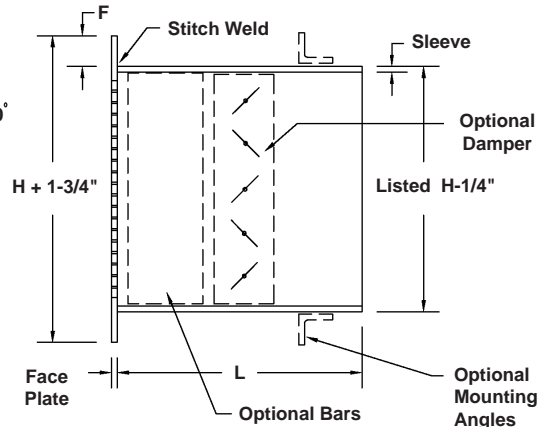
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SEC-9RR5 STEEL SECURITY GRILLE — SUPPLY OR RETURN

Complies with NIC recommendations and California BoP Title 24



Round
Holes on 60°
Staggered
Centers



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: ☐ SEC-9RR5A all aluminum (Consult factory for material thickness and size limitations)
☐ SEC-9RR5SS 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 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					

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