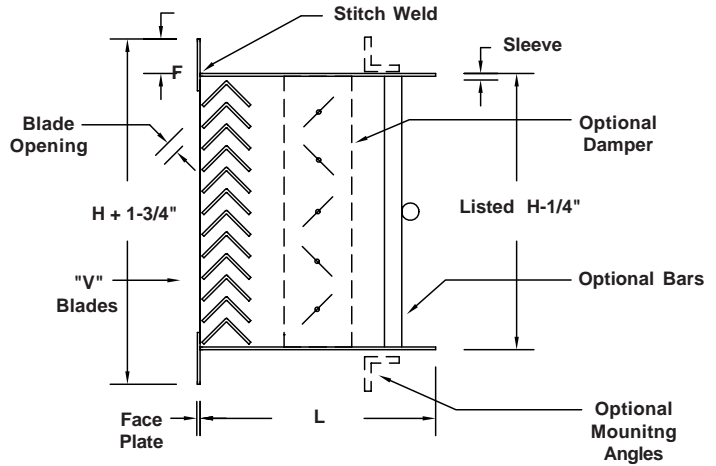
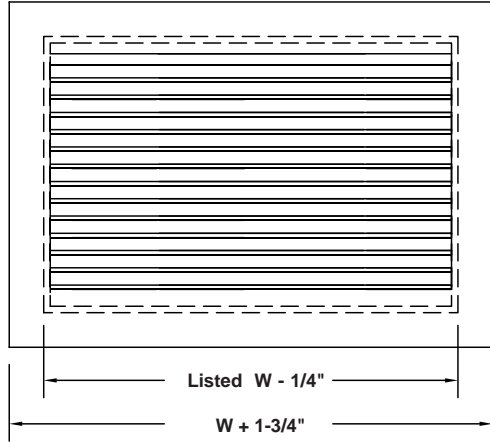


# SEG-13 SECURITY GRILLE



**STANDARD CONSTRUCTION**

**Face:** 12 ga. steel stitch welded to sleeve. 1" face flange.  
**Blades:** 12 ga. steel "V" blades with 1/2" openings. Blades are welded to sleeve.  
**Sleeve:** 12 ga. steel with continuously welded or formed seams.  
**Finish:** Two part polyurethane inside and out. White.

**REQUIRED CONSTRUCTION:**

- Face Material:**  12 ga. steel (Std.)  
 Other \_\_\_\_\_
- Blade Material:**  12 ga. steel (Std.)  
 Other \_\_\_\_\_
- Blade Opening:**  1/2" (Std.)  
 1/8"  
 Other \_\_\_\_\_
- Flange "F":**  1" (Std.)  
 Other \_\_\_\_\_
- Sleeve Material:**  12 ga. steel (Std.)  
 Other \_\_\_\_\_
- Finish:**  White (Std.)  
 Other \_\_\_\_\_
- Other Material:**  SEG-13A all aluminum construction.  
 SEG-13SS all stainless steel construction

**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.** Rear angle frame for bolting to sleeve. 1" x 1" x 3/16" steel with bolt holes in sleeve and frame 8" o.c. for 1/4" dia. bolts. No bolts, nuts or washers. (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:**

- 16R.** Rear operated opposed blade damper tack welded into sleeve.
- 19.** 1/2" dia. A-36 mild steel security bars 6" o.c. both ways, welded to sleeve and at intersections.
- Other:** \_\_\_\_\_

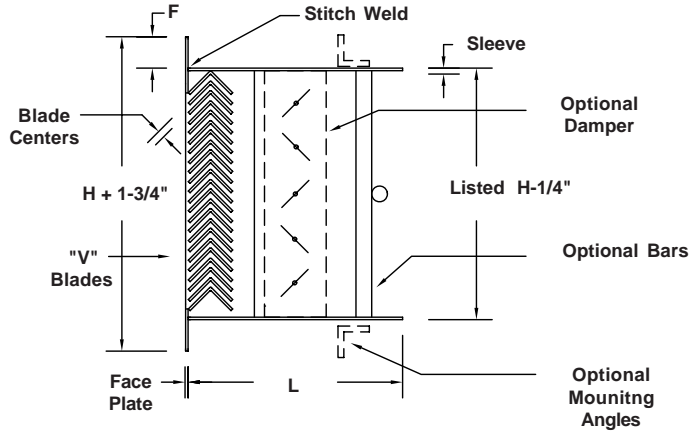
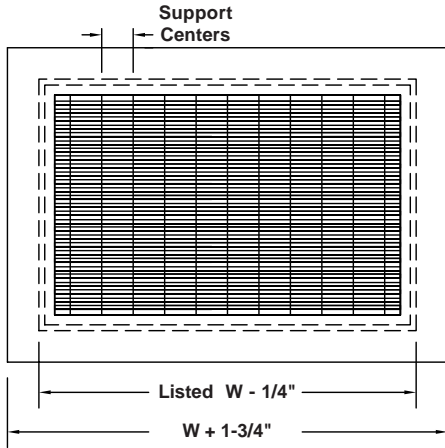
Qty.	Listed Size		Sleeve O.D.		Masonry Opening		Sleeve Length L	Wall Thickness	Accessories	Mounting Option	Tag
	W	H	W	H	W	H					

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

<b>Project</b>		<b>Location</b>		
<b>Architect / Engineer</b>				
<b>Contractor</b>		<b>Dwg. No.</b>	SEG-13w	
<b>Representative</b>		<b>Date</b>	03/30/06	

**KEES INCORPORATED**  
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# SEG-13B SECURITY GRILLE



**STANDARD CONSTRUCTION**

**Face:** 3/16" steel stitch welded to sleeve. 1" face flange.  
**Blades:** 12 ga. steel "V" blades on 1/4" centers. Blades penetrate supports and are welded to sleeve.  
**Supports:** 12 ga. steel on 1/2" centers. Welded to sleeve.  
**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 \_\_\_\_\_
- Blade Centers:**     1/4" (Std.)  
                            1/2"  
                            Other \_\_\_\_\_
- Support Center:**  1/2" (Std.)  
                            2"  
                            Other \_\_\_\_\_
- Flange "F":**         1" (Std.)  
                            Other \_\_\_\_\_
- Sleeve Material:**  3/16" steel (Std.)  
                            12 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.** Rear angle frame for bolting to sleeve. 1" x 1" x 3/16" steel with bolt holes in sleeve and frame 8" o.c. for 1/4" dia. bolts. No bolts, nuts or washers. (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. 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:**

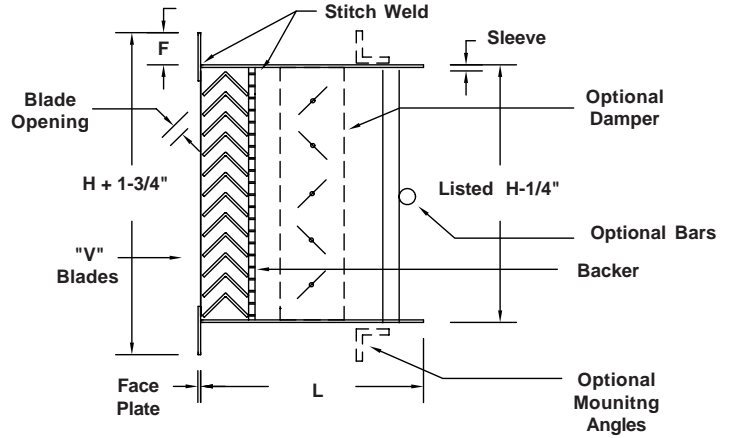
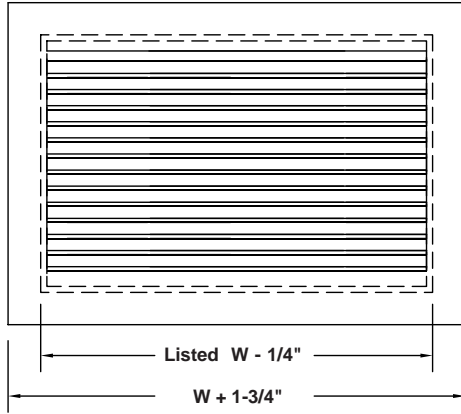
- 16R.** Rear operated opposed blade damper tack welded into sleeve.
- 19.** 1/2" dia. A-36 mild steel security bars 6" o.c. both ways, welded to sleeve and at intersections.
- Other:** \_\_\_\_\_

Qty.	Listed Size		Sleeve O.D.		Masonry Opening		Sleeve Length L	Wall 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.

<b>Project</b>	<b>Location</b>	<p><b>KEES INCORPORATED</b>          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>	
<b>Architect / Engineer</b>			
<b>Contractor</b>	<b>Dwg. No.</b> SEG-13Bw		
<b>Representative</b>	<b>Date</b> 07/15/04		

# SEG-13P RISK RESISTANT SECURITY GRILLE



### STANDARD CONSTRUCTION

**Face:** 12 ga. steel stitch welded to sleeve. 1" face flange.  
**Blades:** 12 ga. steel "V" blades on 3/16" openings. Blades are welded to sleeve.  
**Perforated backer:** 11ga. steel with 1/8" dia. holes on 3/16" staggered centers.  
**Sleeve:** 12 ga. steel with continuously welded or formed seams.  
**Finish:** Two part polyurethane inside and out. White.

### REQUIRED CONSTRUCTION:

- Face Material:**  12 ga. steel (Std.)  
 Other \_\_\_\_\_
- Blade Material:**  12 ga. steel (Std.)  
 Other \_\_\_\_\_
- Blade Opening:**  3/16" (Std.)  
 3/8"  
 1/8"  
 Other \_\_\_\_\_
- Flange "F":**  1" (Std.)  
 Other \_\_\_\_\_
- Sleeve Material:**  12 ga. steel (Std.)  
 Other \_\_\_\_\_
- Finish:**  White (Std.)  
 Other \_\_\_\_\_
- Other Material:**  SEG-13PA all aluminum construction.  
 SEG-13PSS all stainless steel construction

### 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.** Rear angle frame for bolting to sleeve. 1" x 1" x 3/16" steel with bolt holes in sleeve and frame 8" o.c. for 1/4" dia. bolts. No bolts, nuts or washers. (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:

- 16R.** Rear operated opposed blade damper tack welded into sleeve.
- 19.** 1/2" dia. A-36 mild steel security bars 6" o.c. both ways, welded to sleeve and at intersections.
- Other:** \_\_\_\_\_

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

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