

## Maximum Security Grilles and Registers

Model:  MSG-PR • Steel • Round Perforated

Standard face and sleeve configuration as shown on the diagram below

Alternate face and sleeve configuration as specified in the table below

X= \_\_\_ " to be specified

Y= \_\_\_ " to be specified

8 Dia.

D plus 51

5 Steel Face Plate

Stitched Weld

Y

D' plus 51

D'

5

25

X

5 Steel Sleeve With Stitch Welded Seams

Note: Model MSG-PR is available in square and rectangular neck sizes in one piece construction up to 1524mm x 1168mm. Larger sizes will be made in multiple sections for field welding together. Minimum X=102mm when a sleeve mounted damper is ordered or 51mm with no damper. Minimum X may vary according to other options installed. Minimum X should be Y + the angle width + 25mm. Standard sleeve length = 305mm.

### Alternate Face and Sleeve Construction

Face Gauge	Sleeve Gauge	Face Configurations	
<input type="checkbox"/> 6mm thk. <input type="checkbox"/> 5mm thk. <input type="checkbox"/> 10 ga. <input type="checkbox"/> 12 ga.	<input type="checkbox"/> 6mm thk. <input type="checkbox"/> 5mm thk. <input type="checkbox"/> 10 ga. <input type="checkbox"/> 12 ga.	<input type="checkbox"/> 5mm Diameter holes on 6mm staggered centers <input type="checkbox"/> 6mm Diameter holes on 10mm staggered centers <input type="checkbox"/> 8mm Diameter holes on 11mm staggered centers <input type="checkbox"/> 11mm Diameter holes on 11mm staggered centers	<p>Note: Not all configurations are available with every face thickness. Check the chart at the bottom of this page for available combinations.</p>

### Face Availability Chart

Face Gauge	Hole Diameter and Spacing*			
	5mm x 6mm	6mm x 10mm	8mm x 11mm	11mm x 11mm
6mm	NA	NA	Y	Y
5mm	NA	NA	Y	Y
10	NA	NA	Y	Y
12	Y	Y	Y	Y

\* All holes are on staggered centers

## Options & Accessories

### Mounting Options

**Mounting Style**

2 Angles shipped loose for field welding

4 Angles shipped loose for field welding

Angle frame shipped loose for field welding

2 Angles bolted to sleeve

13mm Diameter steel anchor bars 76mm long on maximum 203mm centers

Other \_\_\_\_\_

**Angle Size**

25mm x 25mm x 5mm

38mm x 38mm x 3mm

38mm x 38mm x 5mm

51mm x 51mm x 3mm

51mm x 51mm x 5mm

51mm x 51mm x 6mm

Other \_\_\_\_\_

### Finishes

#26 White (Standard)

#04 Mill

#20 Envirotherm • Enamel to match sample

#21 Envirothane • Epoxy to match sample

Other \_\_\_\_\_

### Optional Sleeve Barriers

**Steel Security Bars**

13mm Diameter

19mm Diameter

22mm Diameter

Other \_\_\_\_\_

**Spacing**

152mm on center

102mm on center

Other \_\_\_\_\_

**Flat Bars**

64mm x 6mm

51mm x 6mm

38mm x 10mm

64mm x 10mm

Other \_\_\_\_\_

**Spacing**

152mm on center

102mm on center

Other \_\_\_\_\_

**Barrier Grille**

19mm Vertical bars with 51mm x 6mm horizontal bars (vertical bars 152mm maximum o.c., horizontal bars 203mm maximum o.c.)

Other

\_\_\_\_\_ vertical bars on \_\_\_\_" center

\_\_\_\_\_ horizontal bars on \_\_\_\_" center

### Miscellaneous Options

Face – operated steel damper

Rear – operated steel damper

38mm border around face

51mm border around face

Continuously welded sleeve seams

Other \_\_\_\_\_

### General Description

• TITUS® model MSG-PR is a maximum security grille. The design of this grille allows a greater effective free area and air flow without compromising security and safety. With the optional flat security bars, this grille meets or exceeds the ASTM standard A-750-77 for detection area grilles.

#### Standard Construction Detail

- Face plate: 5mm steel with 8mm diameter holes on 11mm staggered centers.
- Sleeve: Standard unit has 5mm steel sleeve stitch welded; length to be specified. Also available with optional 64mm x 10mm flat bars spaced on 102mm centers, welded inside sleeve.
- All welded construction.

**Standard Finish: #26 White**



Note: This submittal is meant to demonstrate general dimensions of this product. The drawing on this submittal are not meant to detail every aspect of the product with exactness. Drawings are not to scale. TITUS reserves the right to make changes without written notice.

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