

Maximum Security Grilles and Registers

Model: MSG-MPS • Steel • Square Perforated

Standard face and sleeve construction as shown on the diagram below

Alternate face and sleeve construction as specified in the table below

X= ___" to be specified

Y= ___" to be specified

10 Gauge 10 Steel

25

51

51 25

D plus 51

5 Steel Face Plate

Stitch Weld

5 Steel Sleeve With Stitch Welded Seams

Optional Sleeve Barrier Grille

D'

25

Y

X

Optional Mounting Angles

Optional Single or Double Deflection Directional Blades Spaced 19 Apart

Note: Model MSG-MPS is available in square and rectangular neck sizes in one piece construction up to 1829 mm x 1168 mm. Larger sizes will be made in multiple sections for field welding together. Minimum X=38 when screen and back-up plate is included, 102 mm if sleeve mounted damper is included. Add 32 mm to minimum X if single deflection blades are included. Add 44 mm to minimum X if double deflection blades are included. Minimum X may vary according to other options installed. Minimum X should be Y + the angle width + 25 mm. Standard sleeve length = 305 mm.

Alternate Face and Sleeve Construction

Face Gauge	Sleeve Gauge	Face Configurations
<input type="checkbox"/> 6 mm thk. <input type="checkbox"/> 5 mm thk. <input type="checkbox"/> 10 ga. <input type="checkbox"/> 12 ga.	<input type="checkbox"/> 6 mm thk. <input type="checkbox"/> 5 mm thk. <input type="checkbox"/> 10 ga. <input type="checkbox"/> 12 ga.	<input type="checkbox"/> 51 mm Square holes on 76 mm centers <input type="checkbox"/> 38 mm Square holes on 51 mm centers <input type="checkbox"/> 25 mm Square holes on 32 mm centers <input type="checkbox"/> 21 mm Square holes on 25 mm centers <input type="checkbox"/> 19 mm Square holes on 25 mm centers <input type="checkbox"/> 14 mm Square holes on 19 mm centers <input type="checkbox"/> 13 mm Square holes on 17 mm centers <input type="checkbox"/> 10 gauge wire mesh

Note: Not all combinations are available with every face thickness. Check the chart at the bottom of this page for available combinations.

Face Availability Chart

Face/ Border/ Gauge	Hole Spacing Chart								
	Hole Size	51 Square Holes	38 Square Holes	25 Square Holes	21 Square Holes	19 Square Holes	14 Square Holes	13 Square Holes	10 ga. Wire Mesh Holes
6 mm	Spacing	76	51	32	NA	NA	NA	NA	Y
5 mm		76(Standard)	51	32	25	25	19	17	Y
10 ga		76	51	32	25	25	19	17	Y
12 ga		NA	NA	32	25	25	19	17	Y

Options & Accessories

Mounting Options

Mounting Style	Angle Size	Finishes
<input type="checkbox"/> 2 Angles shipped loose for field welding <input type="checkbox"/> 2 Angles factory welded in place <input type="checkbox"/> 4 Angles shipped loose for field welding <input type="checkbox"/> Angle frame shipped loose for field welding <input type="checkbox"/> Angle frame factory welded in place <input type="checkbox"/> 2 Angles bolted to sleeve <input type="checkbox"/> 4 Angles bolted to sleeve <input type="checkbox"/> 13 mm Diameter steel anchor bars 76 mm long on maximum 203 mm centers <input type="checkbox"/> Other _____	<input type="checkbox"/> 25 mm x 25 mm x 5 mm <input type="checkbox"/> 38 mm x 38 mm x 3 mm <input type="checkbox"/> 38 mm x 38 mm x 5 mm <input type="checkbox"/> 51 mm x 51 mm x 3 mm <input type="checkbox"/> 51 mm x 51 mm x 5 mm <input type="checkbox"/> 51 mm x 51 mm x 6 mm <input type="checkbox"/> Other _____	<input type="checkbox"/> #26 White (Standard) <input type="checkbox"/> #04 Mill <input type="checkbox"/> #20 Envirotherm • Enamel to match sample <input type="checkbox"/> #21 Envirothane • Epoxy to match sample <input type="checkbox"/> #01 Aluminum paint <input type="checkbox"/> Other _____

Optional Sleeve Barriers

<input type="checkbox"/> Steel Security Bars <input type="checkbox"/> 13 mm Diameter <input type="checkbox"/> 19 mm Diameter <input type="checkbox"/> 22 mm Diameter <input type="checkbox"/> Other _____ <input type="checkbox"/> Spacing <input type="checkbox"/> 152 mm on center <input type="checkbox"/> 102 mm on center <input type="checkbox"/> Other _____	<input type="checkbox"/> Flat Bars <input type="checkbox"/> 64 mm x 6 mm <input type="checkbox"/> 51 mm x 6 mm <input type="checkbox"/> 38 mm x 10 mm <input type="checkbox"/> 64 mm x 10 mm <input type="checkbox"/> Other _____ <input type="checkbox"/> Spacing <input type="checkbox"/> 152 mm on center <input type="checkbox"/> 102 mm on center <input type="checkbox"/> Other _____	<input type="checkbox"/> Barrier Grille <input type="checkbox"/> 19 mm Vertical bars with 51 mm x 6 mm horizontal bars (vertical bars 152 mm maximum o.c., horizontal bars 203 mm maximum o.c.) <input type="checkbox"/> Other _____ _____ vertical bars on ____mm center _____ horizontal bars on ____mm center <input type="checkbox"/> Case Hardened vertical bars <input type="checkbox"/> Case Hardened horizontal bars
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Note: If a sleeve barrier is used, choose one of the above options; steel security bars, flat bars or barrier grille.

Miscellaneous Options

Backer Plate Options <input type="checkbox"/> Steel case hardened backer plate to meet ASTM A-750 <input type="checkbox"/> No backer plate <input type="checkbox"/> No backer plate and no wire mesh <input type="checkbox"/> 38 mm border around face <input type="checkbox"/> 51 mm border around face	<input type="checkbox"/> Continuously welded sleeve seams <input type="checkbox"/> Directional blades <input type="checkbox"/> Single deflection front blades parallel to <input type="checkbox"/> long side or <input type="checkbox"/> short side <input type="checkbox"/> Double deflection front blades parallel to <input type="checkbox"/> long side or <input type="checkbox"/> short side <input type="checkbox"/> Return blades parallel to <input type="checkbox"/> long side or <input type="checkbox"/> short side <input type="checkbox"/> Rear operated steel damper <input type="checkbox"/> Face operated steel damper <input type="checkbox"/> Other _____
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General Description

• TITUS® model MSG-MPS is the industry standard used in areas of maximum security and or minimum supervision where **absolute** grille integrity must be maintained. With the optional case hardened steel back up plate, the standard construction TITUS® model MSG-MPS meets or exceeds the ASTM standard A-750-77 for detention area grilles. These units are constructed using a design that allows the grille to become an integral part of the wall for additional strength. The MSG-MPS effectively prevents the concealment of dangerous or potentially lethal objects or any other contraband of concern to authorities.

Note: All dimensions are in millimeters.

Standard Construction Details

- Face plate: 5 mm steel with 51 mm square holes and 25 mm fret bars.
- Steel mesh screen: 10 gauge 10 mm woven steel screen located between the face plate and back up plate.
- Backer plate: Standard unit has 6 mm plate steel. Also available with case hardened steel to meet ASTM standards.
- Sleeve: 5 mm steel sleeve stitch welded; length to be specified.
- All welded construction.

- **Standard finish:** #26 White



Note: This submittal is meant to demonstrate general dimensions of this product. The drawings 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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