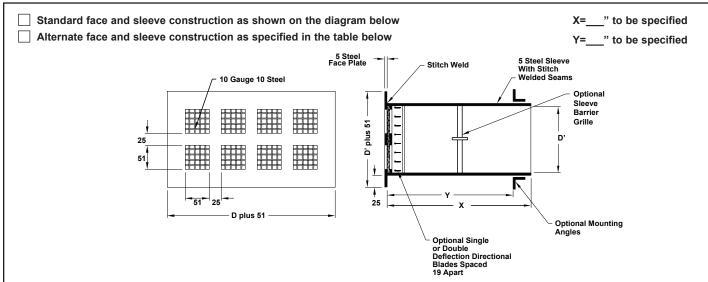


Maximum Security Grilles and Registers

Model: ☐ MSG-MPS • Steel • Square Perforated



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	
☐ 6 mm thk. ☐ 5 mm thk. ☐ 10 ga. ☐ 12 ga.	☐ 6 mm thk.☐ 5 mm thk.☐ 10 ga.☐ 12 ga.	☐ 51 mm Square holes on 76 mm centers ☐ 38 mm Square holes on 51 mm centers ☐ 25 mm Square holes on 32 mm centers ☐ 21 mm Square holes on 25 mm centers ☐ 19 mm Square holes on 25 mm centers ☐ 14 mm Square holes on 19 mm centers ☐ 13 mm Square holes on 17 mm centers ☐ 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

	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		76	51	32	NA	NA	NA	NA	Y
5 mm	Spacing	76(Standard)	51	32	25	25	19	17	Y
10 ga	Spē	76	51	32	25	25	19	17	Y
12 ga		NA	NA	32	25	25	19	17	Y



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.

Options & Accessories

Mounting Options		Finishes
Mounting Style	Angle Size	
2 Angles shipped loose for field welding 2 Angles factory welded in place 4 Angles shipped loose for field welding Angle frame shipped loose for field weld Angle frame factory welded in place 2 Angles bolted to sleeve 4 Angles bolted to sleeve 13 mm Diameter steel anchor bars 76 m long on maximum 203 mm centers Other	☐ 51 mm x 51 mm x 5 mm ☐ 51 mm x 51 mm x 6 mm ☐ Other	#26 White (Standard) #04 Mill #20 Envirotherm • Enamel to match sample #21 Envirothane • Epoxy to match sample #01 Aluminum paint Other
Optional Sleeve Barriers		
Steel Security Bars 13 mm Diameter 19 mm Diameter 22 mm Diameter Other Spacing 152 mm on center 102 mm on center Other Steellaneous Options	Flat Bars 64 mm x 6 mm 51 mm x 6 mm 38 mm x 10 mm 64 mm x 10 mm Other Spacing 152 mm on center 102 mm on center Other the above options; steel security bars, flat bars	Barrier Grille 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.) Other vertical bars onmm center horizontal bars onmm center Case Hardened vertical bars Case Hardened horizontal bars
Backer Plate Options Steel case hardened backer plate to meet ASTM A-750 No backer plate No backer plate and no wire mesh 38 mm border around face 51 mm border around face	Single deflection front b Double deflection front l Return blades parallel to	e seams plades parallel to long side or short side blades parallel to long side or short side o long side or short side er Face operated steel damper
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 contra-	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. Backer plate: Standard unit has 6 mm plate. Also available with case hardened state to meet ASTM standards. Sleeve: 5 mm steel sleeve stitch welded; length to be specified. All welded construction.	ce ate

Note: All dimensions are in millimeters.

band of concern to authorities.



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605 Shiloh Road • Plano, Texas 75074 • 972-212-4800

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· All welded construction.