FASTENING METHODS:

CS OPTIONS

AVAILABLE WITH OPTIONAL DRIVER C/W BIT (ORDERED SEPARATELY)

COUNTERSUNK HOLES IN FACE WITH

#12 x 2" LONG TAMPER-PROOF SCREWS
#12 x 1 1/2" LONG TAMPER-PROOF SCREWS (MSBL ONLY)

MSBL COUNTERSUNK HOLES IN FRAME WITH

#8 x 2" LONG TAMPER-PROOF SCREWS

☐ OPTION CS 12 SPNR (PLATED STEEL)
☐ OPTION CS 12 SPNR-SS (STAINLESS STEEL)
☐ OPTION CS 12x1.5 SPNR-SS (STAINLESS STEEL) - MSBL ONLY
☐ OPTION CS 8 SPNR-SS (STAINLESS STEEL) - MSBL ONLY

1 1/2" (MSBL ONLY)

#12 SCREW SIZE
#8 SCREW SIZE (MSBL ONLY)

☐ OPTION CS 12 TORX (PLATED STEEL)
☐ OPTION CS 12 TORX-SS (STAINLESS STEEL)
☐ OPTION CS 8 TORX-SS (STAINLESS STEEL) - MSBL ONLY

2"

#12 SCREW SIZE
#8 SCREW SIZE (MSBL ONLY)

☐ OPTION CS8

AVAILABLE WITH OPTIONAL DRIVER C/W BIT (ORDERED SEPARATELY)

REAR PLATE WITH WELONUTS AND

#10 x 1 1/2" LONG TAMPER-PROOF BOLTS

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.
MSPG - MAXIMUM SECURITY PERFORATED GRILLE

STANDARD CONSTRUCTION:

FACE PLATE
FP187 3/16" (5) HOT ROLLED STEEL (HRS), 5/16" (8) DIA. HOLES
STAGGERED 60' ON 7/16" (11) CENTERS (PATTERN P1)
OPTIONS:
- FP250 1/4" (6)
- FP10 10 GA.
- FP12 12 GA.
FACE PLATE PATTERNS: (PATTERNS NOT AVAILABLE WHERE MATERIAL THICKNESS EXCEEDS HOLE SIZE)
- P2: 3/16" (5) DIA. HOLES STAGGERED ON 5/16" (8) CENTERS
  (NOT AVAILABLE ON FP187, FP10 AND FP10SS)
- P3: 1/4" (6) DIA. HOLES STAGGERED ON 3/8" (10) CENTERS
- P4: 7/16" (11) DIA. HOLES STAGGERED ON 11/16" (17) CENTERS

SLEEVE
S187 3/16" (5) HRS, LENGTH AS REQUIRED,
STITCH WELDED SEAMS (SLEEVE ONLY)
OPTIONS:
- S250 1/4" (6)
- S10 10 GA.
- S12 12 GA.
- CW5 CONTINUOUSLY WELDED SEAMS
- OPTION S5 (NOT AVAILABLE WITH MOUNTING FRAME - MF)

4-SIDED MOUNTING FRAME:
MF1 1" x 1" x 3/16" (25 x 25 x 5) HRS ANGLE
(SHIPPED LOOSE FOR FIELD WELDING)
OPTIONS:
- MF2
- MF3
- MF4

FINISH:
- B12 WHITE
  (OPTIONAL FINISHES AVAILABLE)

OPTIONS & ACCESSORIES:

MATERIAL: (ONLY AVAILABLE IN 10 GA. CONSTRUCTION)
- ALL ALUMINUM (MINIMUM SECURITY)
- ALL 304 STAINLESS STEEL

FASTENING METHOD OPTIONS:
- MR6
- MR7
- CS 12 SPNR
- CS 12 TORX
- CS 12 SPNRS-S5
- CS 12 TORXS-S5

DAMPER OPTIONS:
- 3SF
- 3BR

BARRIER BAR STYLE OPTIONS:
- BB18
- BB17
- BB18
- BB19
- BB20
- BB21
- BB22
- BB23

WIRE MESH OPTION:
- WM

TRANSFER GRILLE CONSTRUCTION OPTIONS:
- TG14
- TG15

NOTES:
- BARRIER BARS AND MOUNTING FRAMES ARE NOT AVAILABLE WITH OPTION CS
- MINIMUM SIZE = 6" x 6" (152 x 152)
- MAXIMUM SIZE = 30" x 30" (762 x 762)
- SLEEVE LENGTH MUST BE SPECIFIED ON ORDER
- REFER TO SUBMITTAL 233035 FOR OPTIONS
- CONSULT FACTORY FOR SPECIAL OPTIONS

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 2013/10/22

SPEC. SYMBOL: 233036

MSPG
MAXIMUM SECURITY
PERFORATED GRILLE

REV 1
MSLG - MAXIMUM SECURITY LATTICE GRILLE

STANDARD CONSTRUCTION:
(CONSTRUCTION PER ASTM STANDARDS)

FACE PLATE:
FP187 3/16" (5) HOT ROLLED STEEL (HRS)
2" (51) SQ. HOLES WITH 1" (25) FRET (PATTERN L1)

OPTIONS:
☐ FP250 1/4" (6)  ☐ FP10 10 GA.  ☐ FP12 12 GA.

WIRE MESH:
WM 10 GA. x 3/8" (10) CLEAR OPENING STEEL WIRE MESH

BACKER PLATE:
BP 1/4" (6) HLS, MATCHING FACE PLATE PATTERN

OPTIONS:
☐ BP187 3/16" (5)  ☐ BP10 10 GA.  ☐ BP12 12 GA.
☐ BPHS 1/4" HARDENED STEEL

OPTIONS & ACCESSORIES:

MATERIAL: (ONLY AVAILABLE IN 10 GA. CONSTRUCTION)
☐ ALL ALUMINUM (MINIMUM SECURITY)
☐ ALL 304 STAINLESS STEEL

FASTENING METHOD OPTIONS:
☐ MS6  ☐ MS7
☐ CS 12 SPNR  ☐ CS 12 TORX
☐ CS 12 SPNRSS  ☐ CS 12 TORX-SS

DAMPER OPTIONS:
☐ 3BF  ☐ 3BR

BARRIER BAR STYLE OPTIONS:
☐ BB16  ☐ BB17  ☐ BB18  ☐ BB19
☐ BB20  ☐ BB21  ☐ BB22  ☐ BB23

NOTES:
• BARRIER BARS AND MOUNTING FRAMES ARE NOT AVAILABLE WITH OPTION CS 12
• MINIMUM SIZE = 6" x 6" (152 x 152)
• MAXIMUM SIZE = 30" x 30" (762 x 762)
• FACTORY TOLERANCE ±1/32" (1)
• SLEEVE LENGTH MUST BE SPECIFIED ON ORDER
• REFER TO SUBMITTAL 233035 FOR OPTIONS
• CONSULT FACTORY FOR SPECIAL OPTIONS

FINISH:
☐ B12 WHITE
(OPTIONAL FINISHES AVAILABLE)

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE:  SPEC. SYMBOL:  2013/10/21
233037

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REV F
MSL - MINIMUM SECURITY LATTICE GRILLE

STANDARD CONSTRUCTION:

FACE PLATE:
FP14 14 GA. HOT ROLLED STEEL (HRS)
3/4" (19) SQ. HOLES WITH 1/4" (6) FRET (PATTERN L5)
OPTIONS:
☐ FP187 3/16" (5) ☐ FP10 10 GA. ☐ FP12 12 GA.
FACE PLATE PATTERNS: (PATTERNS NOT AVAILABLE
WHERE MATERIAL THICKNESS EXCEEDS FRET SIZE)
☐ L1: 2" (51) SQ. HOLES, 1" (25) FRET
☐ L2: 1 1/2" (38) SQ. HOLES, 1/2" (13) FRET
☐ L3: 1" (25) SQ. HOLES, 1/4" (6) FRET
☐ L4: 13/16" (21) SQ. HOLES, 3/16" (5) FRET
☐ L5: 9/16" (14) SQ. HOLES, 3/16" (5) FRET
☐ L6: 1/2" (13) SQ. HOLES, 3/16" (5) FRET
☐ L8: 1" x 1/4" (25 x 6) RECT. HOLES, 5/16" (8) FRET

SLEEVE:
S14 14 GA. HRS. LENGTH AS REQUIRED,
STITCH WELDED SEAMS
OPTIONS:
☐ S187 3/16" (5) ☐ S10 10 GA. ☐ S12 12 GA.
☐ CWS CONTINUOUSLY WELDED SEAMS
☐ OPTION 55 (NOT AVAILABLE WITH MOUNTING FRAME - MF)

4-SIDED MOUNTING FRAME:
MF3 1" x 1" x 1/8" (25 x 25 x 3) HRS ANGLE
(SHIPPED LOOSE FOR FIELD WELDING)
OPTIONS:
☐ MF1 ☐ MF2 ☐ MF4

FINISH:
☐ B12 WHITE
(OPTIONAL FINISHES AVAILABLE)

OPTIONS & ACCESSORIES:
MATERIAL: (ONLY AVAILABLE IN 10 GA. CONSTRUCTION)
☐ ALL ALUMINUM (MINIMUM SECURITY)
☐ ALL 304 STAINLESS STEEL
FASTENING METHOD OPTIONS:
☐ MR6 ☐ MR7
☐ CS 12 SPNR ☐ CS 12 TORK
☐ CS 12 SPNR-SS ☐ CS 12 TORK-SS
DAMPER OPTIONS:
☐ 3BF ☐ 3BR
BARRIER BAR STYLE OPTIONS:
☐ BB16 ☐ BB17 ☐ BB18 ☐ BB19
☐ BB20 ☐ BB21 ☐ BB22 ☐ BB23
WIRE MESH OPTION:
☐ WM
TRANSFER GRILLE CONSTRUCTION OPTIONS:
☐ TG14 ☐ TG15

NOTES:
• BARRIER BARS AND MOUNTING FRAMES ARE
  NOT AVAILABLE WITH OPTION CS 12
• MINIMUM SIZE = 6" x 6" (152 x 152)
• MAXIMUM SIZE = 30" x 30" (762 x 762)
• FACTORY TOLERANCE ±1/32" (1)
• SLEEVE LENGTH MUST BE SPECIFIED ON ORDER
• REFER TO SUBMITTAL 233035 FOR OPTIONS
• CONSULT FACTORY FOR SPECIAL OPTIONS

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: SPEC. SYMBOL:
233038 2013/10/21

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MSLP - MINIMUM SECURITY LATTICE PLATE

COUNTERSUNK HOLES ON MAXIMUM 10" (254) CENTERS

LATTECE FACE

1/2" TYP. (13)

3/16" (5) FRET

13/16" (21)

3/16" (5) FRET

13/16" (21)

FACE OVERALL = SPECIFIED SIZE

14 GA.

STANDARD CONSTRUCTION:

FACE PLATE:
FP14 14 GA. HOT ROLLED STEEL (HRS)
13/16" (21) SQ. HOLES WITH 3/16" (5) FRET (PATTERN L4), COUNTERSUNK SCREW HOLES ON MAXIMUM 10" (254) CENTERS WITH TAMPER-PROOF SCREWS
OPTIONS:
- FP187 3/16" (5)
- FP10 10 GA.
- FP12 12 GA.

FACE PLATE PATTERNS: (PATTERNS NOT AVAILABLE WHERE MATERIAL THICKNESS EXCEEDS FRET SIZE)
- L1: 2" (51) SQ. HOLES, 1" (25) FRET
- L2: 1 1/2" (38) SQ. HOLES, 1/2" (13) FRET
- L3: 1" (25) SQ. HOLES, 1/4" (6) FRET
- L5: 3/4" (19) SQ. HOLES, 1/4" (6) FRET
- L6: 9/16" (14) SQ. HOLES, 3/16" (5) FRET
- L7: 1/2" (13) SQ. HOLES, 3/16" (5) FRET
- L8: 1 x 1/4" (25 x 6) RECT. HOLES, 5/16" (8) FRET
(PATTERNS NOT AVAILABLE WHERE MATERIAL THICKNESS EXCEEDS HOLE SIZE)
- P1: 5/16" (8) DIA. HOLES STAGGERED ON 7/16" (11) CENTERS
- P2: 3/16" (5) DIA. HOLES STAGGERED ON 5/16" (8) CENTERS
(P2 PATTERN ONLY AVAILABLE ON 12 GA STEEL, 12 GA STAINLESS AND 10 GA ALUMINUM)
- P3: 1/4" (6) DIA. HOLES STAGGERED ON 3/8" (10) CENTERS
- P4: 7/16" (11) DIA. HOLES STAGGERED ON 11/16" (17) CENTERS
- NO SCREW HOLES IN FACE

FINISH:
- B12 WHITE

OPTIONAL FINISHES AVAILABLE

OPTIONS & ACCESSORIES:

MATERIAL:
- ALL ALUMINUM (MINIMUM SECURITY, 10ga ONLY)
- ALL 304 STAINLESS STEEL (12ga ONLY)

FASTENING METHOD OPTIONS:
- CS 12 SPNR
- CS 12 SPNR-SS
- CS 12 TORX
- CS 12 TORX-SS

NOTES:
- MINIMUM SIZE = 8" x 8" (203 x 203)
- MAXIMUM SIZE = 32" x 32" (813 x 813)
- FACTORY TOLERANCE ±1/32 (1)
- CONSULT FACTORY FOR SPECIAL OPTIONS

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.
MSSG - MEDIUM SECURITY SCREENED GRILLE

STANDARD CONSTRUCTION:
FACE PLATE:
      FP10 10 GA. HOT ROLLED STEEL (HRS)
      OPTIONS:
      □ FP187 3/16" (5) □ FP12 12 GA. □ FP14 14 GA.
WIRE MESH:
      WM 10 GA. X 3/8" (10) CLEAR OPENING STEEL WIRE MESH
      S10 10 GA. HRS, LENGTH AS REQUIRED
      STITCH WELDED SEAMS
      OPTIONS:
      □ S187 3/16" (5) □ S12 12 GA. □ S14 14 GA.
      □ CWS CONTINUOUSLY WELDED SEAMS
      □ OPTION SS (NOT AVAILABLE WITH MOUNTING FRAME = MF)
BARRIER BARS:
      BB17 3/4" (.19) DIA. HRS BARS WELDED INSIDE SLEEVE ON
      MAXIMUM 6" (152) VERTICAL AND 12" (305) HORIZONTAL
      CENTERS AND AT ALL CROSSINGS
      OPTIONS:
      □ BB16 □ BB18 □ BB19 □ BB20 □ BB21
      □ BB22 □ BB23
4-SIDED MOUNTING FRAME:
      MF3 1" x 1" x 1/8" (25 x 25 x 3) HRS ANGLE
      (SHIPPED LOOSE FOR FIELD WELDING)
      OPTIONS:
      □ MF1 □ MF2 □ MF4
FINISH:
      □ B12 WHITE
      (OPTIONAL FINISHES AVAILABLE)

OPTIONS & ACCESSORIES:
MATERIAL: (ONLY AVAILABLE IN 10 GA. CONSTRUCTION)
      □ ALL ALUMINUM (MINIMUM SECURITY)
      □ ALL 304 STAINLESS STEEL
FASTENING METHOD OPTIONS:
      □ MR6 □ MR7
      □ CS 12 SPNR □ CS 12 TORX
      □ CS 12 SPNR-SS □ CS 12 TORX-SS
DAMPER OPTIONS:
      □ 3BF □ 3BR
TRANSFER GRILLE CONSTRUCTION OPTIONS:
      □ TC14 □ TC15

NOTES:
• BARRIER BARS AND MOUNTING FRAMES ARE
  NOT AVAILABLE WITH OPTION CS
• MINIMUM SIZE = 6" x 6" (152 x 152)
• MAXIMUM SIZE = 30" x 30" (762 x 762)
• SLEEVE LENGTH MUST BE SPECIFIED ON ORDER
• REFER TO SUBMITTAL 233035 FOR OPTIONS
• CONSULT FACTORY FOR SPECIAL OPTIONS

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: SPEC. SYMBOL: 2013/10/21

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REV F
MSSL - MEDIUM SECURITY STRAIGHT LOUVER

STANDARD CONSTRUCTION:

FACE PLATE:
FP14 14 GA. HOT ROLLED STEEL (HRS)
OPTIONS:
- FP187 3/16" (5)
- FP10 10 GA.
- FP12 12 GA.

LOUVERS:
- STANDARD CORE STYLE C1: 1/8" x 1/2" (3 x 13) CRS LOUVERS ON 1/2" (13) CENTERS 0° DEFLECTION THRU 14 GA.
- VERTICAL SUPPORT MULLIONS LOCATED ON 6" (152) CENTERS

CORE STYLE OPTIONS:
- C2: 1/8" x 1/2" (3 x 13) ON 1/2" (13) CENTERS, 15° DEFLECTION
- C3: 1/8" x 1/2" (3 x 13) ON 1/2" (13) CENTERS 40° DEFLECTION
- C4: 1/8" x 3/4" (3 x 19) ON 3/4" (19) CENTERS 0° DEFLECTION
- C5: 1/8" x 3/4" (3 x 19) ON 1/2" (13) CENTERS 0° DEFLECTION
- C6: 1/8" x 3/4" (3 x 19) ON 1/4" (6) CENTERS 0° DEFLECTION

WIRE MESH:
WM 10 GA. X 3/8" (10) CLEAR OPENING STEEL WIRE MESH

SLEEVE:
S14 14 GA. HRS, LENGTH AS REQUIRED, STITCH WELDED SEAMS
OPTIONS:
- S187 3/16" (5)
- S10 10 GA.
- S12 12 GA.
- CWS CONTINUOUSLY WELDED SEAMS
- OPTION SS (NOT AVAILABLE WITH MOUNTING FRAME - MF)

4-SIDED MOUNTING FRAME:
MF3 1" x 1" x 1/8" (25 x 25 x 3) HRS ANGLE
(SHIPPED LOOSE FOR FIELD WELDING)
OPTIONS:
- MF1
- MF2
- MF4

FINISH:
- B12 WHITE
(OPTIONAL FINISHES AVAILABLE)

OPTIONS & ACCESSORIES:

MATERIAL: (ONLY AVAILABLE IN 10 GA. CONSTRUCTION)
- ALL ALUMINUM (MINIMUM SECURITY)
- ALL 304 STAINLESS STEEL

FASTENING METHOD OPTIONS:
- MR6
- MR7
- CS 12 SPNR
- CS 12 TORX
- CS 12 SPNR-SS
- CS 12 TORX-SS

DAMPER OPTIONS:
- 3BF
- 3BR

BARRIER BAR STYLE OPTIONS:
- BB16
- BB17
- BB18
- BB19
- BB20
- BB21
- BB22
- BB23

TRANSFER GRILLE CONSTRUCTION OPTIONS:
- TGCS

NOTES:
- BARRIER BARS AND MOUNTING FRAMES ARE NOT AVAILABLE WITH OPTION CS 12
- MINIMUM SIZE = 6" x 6" (152 x 152)
- MAXIMUM SIZE = 30" x 30" (762 x 762)
- FACTORY TOLERANCE ±1/32" (1)
- SLEEVE LENGTH MUST BE SPECIFIED ON ORDER
- REFER TO SUBMITTAL 233035 FOR OPTIONS
- CONSULT FACTORY FOR SPECIAL OPTIONS
- MINIMUM SLEEVE LENGTH WITH OPTIONS 3BF AND 3BR = 5" (127)

PROJECT:

ENGINEER:
MSSL

CUSTOMER:
233041
MEDIUM SECURITY STRAIGHT LOUVER

SUBMITTAL DATE: SPEC. SYMBOL:
2013/10/21

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MSBL - MEDIUM SECURITY BENT LOUVER

STANDARD CONSTRUCTION:

FRAME:
FP16 16 GA. HOT ROLLED STEEL (HRS) WITH
REINFORCED MITRED CORNERS
OPTION:
□ FP14 14 GA.

LOUVER:
□ STANDARD CORE STYLE C7: 14 GA. LOUVERS
ON 3/8" (10) CENTERS, 45° DEFLECTION WITH INTERLOCKING
VERTICAL SUPPORT MULLIONS ON 6" (152) CENTERS
OPTION:
□ CORE STYLE C8: 14 GA. ON 3/4" CENTERS, 45° DEFLECTION

WIRE MESH:
WM 10 GA. X 3/8" (10) CLEAR OPENING STEEL WIRE MESH

SLEEVE:
S14 14 GA. HRS SLEEVE (LENGTH AS REQUIRED)
STITCH WELDED SEAMS
OPTIONS:
□ S12 12 GA. HRS. SLEEVE
□ CWS CONTINUOUSLY WELDED SEAMS
□ OPTION SS (NOT AVAILABLE WITH MOUNTING FRAME – MF)

4-SIDED MOUNTING FRAME:
MF3 1-1/4" x 1-1/4" x 1-1/4" (25 x 25 x 3) HRS ANGLE
(ISHED LOOSE FOR FIELD WELDING)
OPTIONS:
□ MF1 □ MF2 □ MF4

FINISH:
□ B12 WHITE
(OPTIONAL FINISHES AVAILABLE)

OPTIONS & ACCESSORIES:

FASTENING METHOD OPTIONS:
□ MR6 □ MR7
□ CS 8 SPNRR-SS □ CS 8 TORX-SS

DAMPER OPTIONS:
□ 3BR - VOLUME DAMPER, REAR OPERATED
BARRIER BAR STYLE OPTIONS:
□ BB16 □ BB17 □ BB18 □ BB19
□ BB20 □ BB21 □ BB22 □ BB23

TRANSFER GRILLE CONSTRUCTION OPTIONS:
□ TGC5

NOTES:
- BARRIER BARS AND MOUNTING FRAMES ARE
  NOT AVAILABLE WITH OPTION CS 12
- MINIMUM SIZE = 6" x 6" (152 x 152)
- MAXIMUM SIZE = 30" x 30" (762 x 762)
- FACTORY TOLERANCE ±1/32" (1)
- SLEEVE LENGTH MUST BE SPECIFIED ON ORDER
- REFER TO SUBMITTAL 233035 FOR OPTIONS
- CONSULT FACTORY FOR SPECIAL OPTIONS

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 2013/10/21

SPEC. SYMBOL: MSBL

MEDIUM SECURITY BENT LOUVER

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MSD - MINIMUM SECURITY DIFFUSER

STANDARD CONSTRUCTION:

FACE PLATE:
- FP12 12 GA. HOT ROLLED STEEL (HRS)
- 13/16" (21) SQ. HOLES WITH 3/16" (5) FRET (PATTERN L4)
- COUNTERSUNK SCREW HOLES ON MAX. 10" (254) CENTERS
- WITH TAMPER-PROOF SCREWS
- OPTIONS:
  - FP10 10 GA.
  - FP14 14 GA.

FACE PLATE PATTERNS: (PATTERNS NOT AVAILABLE WHERE MATERIAL THICKNESS EXCEEDS FRET SIZE)
- L1: 2" (5) SQ. HOLES, 1" (25) FRET
- L2: 1 1/2" (38) SQ. HOLES, 1/2" (13) FRET
- L3: 1" (25) SQ. HOLES, 1/4" (6) FRET
- L5: 3/4" (19) SQ. HOLES, 1/4" (6) FRET
- L6: 1/2" (13) SQ. HOLES, 3/16" (5) FRET
- L7: 1/2" (13) SQ. HOLES, 3/16" (5) FRET
- L8: 1/4" x 1/4" (25 x 6) RECT. HOLES, 5/16" (8) FRET

(DIAMETERS ARE NOT AVAILABLE WHERE MATERIAL THICKNESS EXCEEDS HOLE SIZE)
- P1: 5/8" (8) DIA. HOLES STAGGERED ON 5/16" (11) CENTERS
- P2: 3/8" (5) DIA. HOLES STAGGERED ON 5/16" (8) CENTERS
- P3: 1/8" (6) DIA. HOLES STAGGERED ON 3/8" (10) CENTERS
- P4: 1/16" (11) DIA. HOLES STAGGERED ON 1/16" (17) CENTERS

OPTIONS & ACCESSORIES:

- MATERIAL: (ONLY AVAILABLE WITH 10GA. FACE PLATE)
  - ALUMINUM FACE PLATE WITH STEEL DIFFUSER

- DAMPER OPTION:
  - VCS3

NOTES:
- MINIMUM SIZE = 6" x 6" (152 x 152)
- MAXIMUM SIZE = 24" x 24" (610 x 610)
- AVAILABLE SIZES IN 3" INCREMENTS
- FACTORY TOLERANCE ±1/32" (1)
- REFER TO SUBMITTAL 233035 FOR OPTIONS

DIFFUSER:
- PRICE MODEL SMD DIFFUSER, 4 WAY PATTERN
- TYPE 1 SURFACE MOUNT BORDER
- OPTIONS:
  - PRICE MODEL SMD, 3 WAY PATTERN
  - PRICE MODEL SMD, 2 WAY PATTERN
  - PRICE MODEL SMD, 1 WAY PATTERN

FINISH:
- B12 WHITE
  (OPTIONAL FINISHES AVAILABLE)

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE:

SPEC. SYMBOL:

2013/06/05

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MSBG - DUCT/BARRIER GRILLE

STANDARD CONSTRUCTION:

SLEEVE:
FP187 3/16" (5) SLEEVE WITH TWO 1" x 1" x 3/16" (25 x 25 x 5)
4-SIDED ANGLE FRAMES (ONE FRAME WELDED, 1" (25) FROM
ONE END, ONE FRAME SHIPPED LOOSE FOR FIELD WELDING)
OPTIONS:
- FP2: 2 1/2" x 2 1/2" x 1/4" (64 x 64 x 6)
  SLEEVE WITH ANGLE FRAME
- BB-FM: FOR DUCT INSERT APPLICATIONS, 3/16" X 4" WIDE SLEEVE,
  NO MOUNTING FRAMES

BARRIER BARS:
BB16 1/2" (13) DIAM. HRS BARS ARE WELDED TO FRAME AND AT ALL CROSSPOINTS
VERTICAL BARS ON MAX. 6" (152) CENTERS
HORIZONTAL BARS ON MAX. 12" (305) CENTERS
OPTIONS:
- BB17
- BB18
- BB19
- BB20
- BB21
- BB22
- BB23

FINISH:
- B12 WHITE
  (OPTIONAL FINISHES AVAILABLE)

OPTIONS & ACCESSORIES:
MATERIAL:
- ALL 304 STAINLESS STEEL
FASTENING METHOD OPTIONS:
- MR6
- MR7
WIRE MESH OPTION:
- WM

NOTES:
- MINIMUM SIZE = 6" x 6" (152 x 152)
- MAXIMUM SIZE = 30" x 30" (762 x 762)
- FACTORY TOLERANCE ±1/32" (.125)
- SLEEVE LENGTH MUST BE SPECIFIED ON ORDER
- REFER TO SUBMITTAL 233035 FOR OPTIONS
- CONSULT FACTORY FOR SPECIAL OPTIONS
- ALL BARS WELDED TO SLEEVE

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:
CUSTOMER:
SUBMITTAL DATE: 2010/11/01
SPEC. SYMBOL: 233044

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MSRRG - MAXIMUM SECURITY RISK RESISTANT GRILLE

STANDARD CONSTRUCTION:

FACE PLATE:
3/16" (5) HOT ROLLED STEEL (HRS)

LOUVERS:
1" (25) ANGLE 45° DEFLECTION ON 1/4" (6) CENTERS

VERTICAL MULLIONS:
1 3/4" (44) x 12 GA. HRS BAR PIERCING LOUVERS ON 1/2" (13) CENTERS

SLEEVE:
S187 3/16" (5) HRS, LENGTH AS REQUIRED, STITCH WELDED SEAMS
OPTIONS:
□ S250 1/4" (6) □ S10 10 GA. □ S12 12 GA.
□ CWS CONTINUOUSLY WELDED SEAMS
□ OPTION S5 (NOT AVAILABLE WITH MOUNTING FRAME - MF)

4-SIDED MOUNTING FRAME:
MF1 1" x 1" x 3/16" (25 x 25 x 5) HRS ANGLE (SHIPPED LOOSE FOR FIELD WELDING)
OPTIONS:
□ MF2 □ MF3 □ MF4

FINISH:
□ B12 WHITE
(OPTIONAL FINISHES AVAILABLE)

WALL THICKNESS
TYPICAL STITCH WELD
SLEEVE
4-SIDED MOUNTING FRAME
SLEEVE LENGTH
O P T I O N  C S 1 2
W/ 2" (51) SLEEVE OR
W/ 4" (102) SLEEVE W/ DAMPER

FASTENING METHOD OPTIONS:
□ MR6 □ MR7
□ CS 12 SPNR □ CS 12 TORX
□ CS 12 SPNR-S5 □ CS 12 TORX-S5

DAMPER OPTIONS:
□ 3BR

BARRIER BAR STYLE OPTIONS:
□ BB16 □ BB17 □ BB18 □ BB19
□ BB20 □ BB21 □ BB22 □ BB23

NOTES:
• BARRIER BARS AND MOUNTING FRAMES ARE NOT AVAILABLE WITH OPTION CS 12
• MINIMUM SIZE = 6" x 6" (152 x 152)
• MAXIMUM SIZE = 24" x 24" (610 x 610)
• FACTORY TOLERANCE ±1/32" (1)
• SLEEVE LENGTH MUST BE SPECIFIED ON ORDER
• REFER TO SUBMITTAL 233035 FOR OPTIONS
• CONSULT FACTORY FOR SPECIAL OPTIONS

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: SPEC. SYMBOL:
2013/10/21 233045

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MSRRP - MAXIMUM SECURITY RISK RESISTANT PERFORATED

STANDARD CONSTRUCTION:

FACE PLATE
3/16" (5) HOT ROLLED STEEL (HRS) 3/16" (5) HRS PERFORATED PLATE, 3/16" (5) DIA. HOLES STAGGERED 60° ON 9/32" (7) CENTERS STITCH WELDED TO FACE PLATE

SLEEVE
S187 3/16" (5) HRS, LENGTH AS REQUIRED, STITCH WELDED SEAMS OPTIONS:
☐ CWS CONTINUOUSLY WELDED SEAMS
☐ OPTION SS (NOT AVAILABLE WITH MOUNTING FRAME = MF)

4-SIDED MOUNTING FRAME
MF1 1" x 1" x 3/16" (25 x 25 x 5) HRS ANGLE (SHIPPED LOOSE FOR FIELD WELDING) OPTIONS:
☐ MF2 ☐ MF3 ☐ MF4

FINISH:
☐ S12 WHITE (OPTIONAL FINISHES AVAILABLE)

WALL THICKNESS
TYP. STITCH WELD SLEEVE
4-SIDED MOUNTING FRAME
SLEEVE O.D. = D + 1/8" (3)
SLEEVE LENGTH
3/16" (5)
OPTION CS 12
w/ 2" (51) SLEEVE OR w/4" (102) SLEEVE w/DAMPER

OPTIONS & ACCESSORIES:

FASTENING METHOD OPTIONS:
☐ MR6 ☐ MR7
☐ CS 12 SPNR ☐ CS 12 TORX
☐ CS 12 SPNR-SS ☐ CS 12 TORX-SS

DAMPER OPTIONS:
☐ 3BR

BARRIER BAR STYLE OPTIONS:
☐ BB16 ☐ BB17 ☐ BB18 ☐ BB19
☐ BB20 ☐ BB21 ☐ BB22 ☐ BB23

NOTES:
• BARRIER BARS AND MOUNTING FRAMES ARE NOT AVAILABLE WITH OPTION CS
• MINIMUM SIZE = 6" x 6" (152 x 152)
• MAXIMUM SIZE = 30" x 30" (762 x 762)
• SLEEVE LENGTH MUST BE SPECIFIED ON ORDER
• REFER TO SUBMITTAL 23J035 FOR OPTIONS
• CONSULT FACTORY FOR SPECIAL OPTIONS

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 2013/10/21

SPEC. SYMBOL: 233046

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**MSLGP - MAXIMUM SECURITY LATTICE GRILLE PERFORATED**

**STANDARD CONSTRUCTION:**

**FACE PLATE:**
FP187 3/16" (5) HOT ROLLED STEEL (HRS)
2" (51) SQ. HOLES WITH 1" (25) FRET (PATTERN L1)
12 GA. HRS PERFORATED PLATE, 3/16" (5) DIAM. HOLES
STAGGERED 60° ON 5/16" (8) CENTERS CONTINUOUSLY
WELDED TO LATTICE FACE

**BACKER PLATE:**
BP12 12 GA. HRS, 3/16" (5) DIAM. HOLES STAGGERED 60°
ON 5/16" (8) CENTERS CONTINUOUSLY WELDED TO
SLEEVE 1" (25) FROM FACE PLATE

**SLEEVE:**
S187 3/16" (5) HRS, LENGTH AS REQUIRED,
CWS CONTINUOUSLY WELDED SEAMS

**4-SIDED MOUNTING FRAME:**
MF1 1" x 1" x 3/16" (25 x 25 x 5) HRS ANGLE
(SHIPPED LOOSE FOR FIELD WELDING)

**OPTIONS & ACCESSORIES:**
DAMPER, REAR OPERATED VCS3B
□ OPTION 3BR (MOUNTED IN CENTER OF SLEEVE)

**FINISH:**
□ B12 WHITE
(Optional finishes available)

**NOTES:**
- MINIMUM SIZE = 6" x 6" (152 x 152)
- MAXIMUM SIZE = 30" x 30" (762 x 762)
- FACTORY TOLERANCE ±1/32" (1)
- SLEEVE LENGTH MUST BE SPECIFIED ON ORDER

**PROJECT:**

**ENGINEER:**

**CUSTOMER:**

**SUBMITTAL DATE:**

**SPEC. SYMBOL:**

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MSGS - MAXIMUM SECURITY GRILLE STEEL ROD

STANDARD CONSTRUCTION:

FRAME:
FACE PLATE AND CORE SUPPORT PLATES: 3/16" (5) HOT ROLLED STEEL

BARS:
- STANDARD CORE STYLE C9: 1/8" x 1 1/2" (3 x 38) HRS BARS ON 1/4" (6) CENTERS, 15° DEFLECTION WITH ROUND WASHER SPACERS
- MECHANICAL LOCK CONSTRUCTION ON 6" (152) MAXIMUM CENTERS

CORE STYLE OPTIONS:
- C10: 1/8" x 1 1/2" (3 x 38) ON 1/4" (6) CENTERS, 0° DEFLECTION

SLEEVE:
S12 12 GA. HRS. LENGTH AS REQUIRED, STITCH WELDED SEAMS

4-SIDED MOUNTING FRAME:
MF1 1 1/2" x 1 1/2" x 3/16" (38 x 38 x 5) HRS ANGLE (SHIPPED LOOSE FOR FIELD WELDING)

FINISH:
- B12 WHITE (OPTIONAL FINISHES AVAILABLE)

OPTIONS & ACCESSORIES:

DAMPER OPTIONS:
- JBR

BARRIER BAR STYLE OPTIONS:
- BB16
- BB17
- BB18
- BB19
- BB20
- BB21
- BB22
- BB23

NOTES:
- MINIMUM SIZE = 6" x 6" (152 x 152)
- MAXIMUM SIZE = 24" x 12" (610 x 305)
- FACTORY TOLERANCE ±1/32" (1)
- SLEEVE LENGTH MUST BE SPECIFIED ON ORDER
- BARS RUN PARALLEL TO THE LONG DIMENSION
- OPTIONAL: HEAT TREATED SPS 245 ROD

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: SPEC. SYMBOL:
233562
2013/10/22

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NOTES:

- FOR NOMINAL OPENINGS GREATER THAN 30" (762) x 30" (762).
- FACE PLATES SUPPLIED WITH HOLES.
- ALL OVERSIZED GRILLES SECTIONS SHIPPED LOOSE.
- ALL OVERSIZED GRILLES SECTIONS W/ SCREW HOLES TO FASTEN TO DUCT MOUNTING CHANNEL, NO WELDING OF FACE JOINT.
- DUCT MOUNTING CHANNEL CUSTOMER RESPONSIBILITY.
- THE MOUNTING OF EACH GRILLES TO SUIT OVERALL SIZE IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE REAR MOUNTING ANGLES WILL BE SUPPLIED CUT TO LENGTH ONLY – UNPAINTED & FIELD WELDED BY OTHERS.

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT: SECURITY GRILLES

Oversize Layout Combinations

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: SPEC. SYMBOL:

237807 APRIL/02

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REV 0
MSDRBG - MAXIMUM SECURITY DOUBLE RIBBED BAR GRILLE

STANDARD CONSTRUCTION:

BARRIER BARS:
DOUBLE RIB BARS: BBB75 7/8” (22) DIA. 1065 DBL. RIB BARS ON MAX. 5” (127) CENTERS
INTERMEDIATE BARS ON MAX. 12” (305) CENTERS
SLEEVE: FP250 1/4” (6) SLEEVE

OPTIONS:
☐ MF2
  TWO 1 1/2” x 1 1/2” x 3/16” (38 x 38 x 5)
  4-SIDED ANGLE FRAMES (ONE FRAME WELDED 1” (25) FROM ONE END, ONE FRAME SHIPPED LOOSE FOR FIELD WELDING)

FINISH:
☐ B12 WHITE
  (OPTIONAL FINISHES AVAILABLE)

NOTES:
• MINIMUM SIZE = 6” x 6” (152 x 152)
• MAXIMUM SIZE = 30” x 30” (762 x 762)
• MINIMUM SLEEVE LENGTH = 4” (102)
• FACTORY TOLERANCE ±1/32” (1)
• SLEEVE LENGTH MUST BE SPECIFIED ON ORDER
• REFER TO SUBMITTAL 233035 FOR OPTIONS
• CONSULT FACTORY FOR SPECIAL OPTIONS

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 2010/11/01

SPEC. SYMBOL: 239648

MSDRBG MAXIMUM SECURITY DOUBLE RIBBED BAR GRILLE

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MSRRCD - MAXIMUM SECURITY RISK RESISTANT CEILING DIFFUSER

AVAILABLE AIR PATTERNS

1-WAY
2-WAY
2-WAY CORNER
3-WAY
4-WAY

COUNTERSUNK HOLES IN FACE WITH #12 x 2" LONG TAMPER-PROOF SCREWS

SIDE PROFILE

NOTE: 9X9 4-WAY SHOWN ABOVE

FINISH:
- B12 WHITE
  (OPTIONAL FINISHES AVAILABLE)

STANDARD CONSTRUCTION:
- 12 GAUGE HOT ROLLED STEEL CONSTRUCTION

SLEEVE:
- 4 7/16" (113) DEEP MODULAR CORE
  STITCH WELDED
- S12 - OPTIONAL 12 GAUGE STEEL SLEEVE
  EXTENSION, STITCH WELDED TO DIFFUSER.
  6" MINIMUM, 24" MAXIMUM OVERALL LENGTH
  WITH EXTENSION.

LOUVERS:
- 35 DEG. DEFLECTION BLADES
- 5/16" BLADE SPACING

FASTENING OPTIONS & ACCESSORIES:
- FACE PLATE WITH HOLES CAN BE TAKEN WITH OPTION CS12 OR CS8.
  - CS 12 SPNR
  - CS 12 TORX
  - CS8
  - CS 12 SPNR-SS
  - CS 12 TORX-SS
- FACE PLATE WITHOUT HOLES SHOULD BE TAKEN WITH ANY OF THE FOLLOWING OPTIONS:
  - MF1
  - MF2
  - MF3
  - MF4

NOTES:
- AVAILABLE SIZES IN INCHES:
  - 6 X 6 (AVAILABLE IN 1-WAY PATTERN ONLY)
  - 8 X 8
  - 9 X 9
  - 10 X 10
  - 12 X 12
  - 15 X 15
  - 16 X 16
  - 18 X 18
- AVAILABLE AIR PATTERNS:
  - 1-WAY
  - 2-WAY
  - 2-WAY CORNER
  - 3-WAY
  - 4-WAY

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: SPEC. SYMBOL:

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MSTRBG - MAXIMUM SECURITY TOOL RESISTING BARRIER GRILLE
ASTM A627-03

STANDARD CONSTRUCTION:
DOUBLE RIB BARS: TRBB875 7/8" (22) DIA. TOOL RESISTING
DOUBLE RIB BARS ON MAX. 5" (127) CENTERS

FLAT BARS: 2¾" (57) X ¾" (19) TOOL RESISTING INTERMEDIATE
BARS WELDED TO SLEEVE ON 12" HORIZONTAL CENTERS

SLEEVE: FP250 1¼" (6) SLEEVE

OPTIONS:
MOUNTING FRAMES:
☐ MF2 1½" x 1½" x ¾" (38 x 38 x 5) HRS ANGLE
TWO 4-SIDED ANGLE FRAMES (ONE FRAME WELDED 1" (25)
FROM ONE END, ONE FRAME SHIPPED LOOSE FOR FIELD WELDING)

☐ TRSF
TOOL RESISTING SIDE FRAMES
TWO 2¾" X ¾" FLAT BARS HARDENED TO ADHERE
TO ASTM A627-03

MASONARY RODS:
☐ MR6 ¾" (19) DIAMETER MASONARY RODS
☐ MR7 ¾" (19) DIAMETER BENT OUT MASONARY RODS

FINISH:
☐ B12 WHITE
(OPTIONAL FINISHES AVAILABLE)

NOTES:
• MINIMUM SIZE = 6" x 6" (152 x 152)
• MAXIMUM SIZE = 30" x 30" (762 x 762)
• FACTORY TOLERANCE ± ¼" (1)
• SLEEVE LENGTH MUST BE SPECIFIED ON ORDER
• REFER TO SUBMITTAL 233035 FOR OPTIONS
• CONSULT FACTORY FOR SPECIAL OPTIONS
• RIBBED AND FLAT BARS MEET ASTM A627-03 SPECIFICATION
• ASTM A627-03 SUPERSEDES ASTM A627-95 AND A629-94 SPECIFICATION

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: SPEC. SYMBOL:
2010/11/01 MSTRBG
242253 MAXIMUM SECURITY
TOOL RESISTING BAR
GRILLE
ASTM A627-03

REV B