SECURITY GRILLES OPTIONS & ACCESSORIES

4-SIDED MOUNTING FRAMES

- **OPTION MF1**: 1" x 1" x 3/16" HRS LOOSE 4-SIDED ANGLE FRAME FOR WELDING
- **OPTION MF2**: 1 1/2" x 1 1/2" x 3/16" HRS LOOSE 4-SIDED ANGLE FRAME FOR WELDING (BOLTS SUPPLIED BY OTHERS) (HOLES TO BE FIELD DRILLED)
- **OPTION MF3**: 1" x 1" x 1/8" HRS LOOSE 4-SIDED ANGLE FRAME FOR WELDING
- **OPTION MF4**: 1 1/2" x 1 1/2" x 1/8" HRS LOOSE 4-SIDED ANGLE FRAME FOR WELDING (BOLTS SUPPLIED BY OTHER) (HOLES TO BE FIELD DRILLED)

SLEEVE

- **OPTION S5**: BENT OUT REAR FLANGE

WIRE MESH

- **OPTION WM**: 10 GA. x 3/8" CLEAR OPENING STEEL WIRE MESH

DAMPERS

- **OPTION 38F**: FRONT OPERATED OPPOSED BLADE DAMPER
- **OPTION 38R**: REAR OPERATED OPPOSED BLADE DAMPER

A = 4" (FOR SLEEVE LENGTH 10" AND UP)
B (OPENING SIZE) = NOM. DUCT + 3/4" (6)

TRANSFER GRILLE CONSTRUCTION

- **OPTION T014**: MATCHING WELDED REAR PLATE
- **OPTION T015**: MATCHING REAR PLATE WITH WELDBOLTS AND TAMPER-PROOF BOLTS

TC14 & T015 ARE NOT AVAILABLE WITH DAMPER OPTION

BARRIER BAR STYLES

- **OPTION BB16**: 1/2" DIA.
- **OPTION BB17**: 3/4" DIA.
- **OPTION BB18**: 1" DIA.
- **OPTION BB19**: 1/2" DIA.
- **OPTION BB20**: 3/4" DIA.
- **OPTION BB21**: 1" DIA.
- **OPTION BB22**: 2" x 1/4" FLAT HRS BARS ON MAX. 6" VERTICAL AND 12" HORIZONTAL CENTERS
- **OPTION BB23**: 3/4" DIA. HRS VERTICAL BARS ON MAX. 6" CENTERS THRU 2" x 1/4" FLAT HORIZONTAL BARS ON MAX. 12" CENTERS

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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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 1½" LONG TAMPER-PROOF SCREWS (MSB ONLY)

MSB 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) – MSD ONLY
☐ OPTION CS 8 SPNR-SS (STAINLESS STEEL) – MSB ONLY

1½" (MSB ONLY)

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

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

2"

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

☐ OPTION CS8

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

REAR PLATE WITH WELD NUTS 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.
□ 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)

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 □ CS8
□ CS 12 SPNR-SS □ CS 12 TORX-SS

DAMPER OPTIONS:
□ 3BR □ 3BR

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

WIRE MESH OPTIONS:
□ 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

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

WIRE MESH

1" (25) FRET

2" (51)

1" (25) FRET

1" (25) FRET

FACE OVERALL = D + 2" (51)

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 1)

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

FACE PLATE PATTERNS: (PATTERNS NOT AVAILABLE WHERE MATERIAL THICKNESS EXCEEDS FRET SIZE)
- L2: 1 1/2" (38) SQ. HOLES, 1/2" (13) FRET
- L3: 1" (25) SQ. HOLES, 1/4" (6) FRET
- L4: 1/2" (13) SQ. HOLES, 3/16" (5) FRET
- L6: 3/4" (19) SQ. HOLES, 1" (25) FRET
- L7: 1/2" (13) SQ. HOLES, 3/16" (5) FRET

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

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

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

SLEEVE:
S197 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:
MFT 1 x 1 x 3/16" (25 x 25 x 5) HRS ANGLE
(SHIPPED LOOSE FOR FIELD WELDING)

OPTIONS:
- MF2
- MF3
- MF4

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

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 T0R
- CS 12 SPNR-SS
- CS 12 T0R-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: 2013/10/21

SPEC. SYMBOL: 233037

MSLG
MAXIMUM SECURITY LATTICE GRILLE

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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.
  - 1WS 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 SPNR-SS
  - CS 12 TORX
  - CS 12 SPNR-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:

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MSLP - MINIMUM SECURITY
LATTICE PLATE

COUNTERSUNK HOLES
ON MAXIMUM 10" (254) CENTERS

1/2" TYP. (13)

3/16" (5) FRET

13/16" (21)

3/16" (5) FRET

14 GA.

FACE OVERALL = SPECIFIED SIZE

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
(TRANSPARENT 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 TORX
☐ CS 12 SPNR-SS ☐ 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 DIRECT CONVERSIONS. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: SPEC. SYMBOL:
2013/06/12

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MSSG - MEDIUM SECURITY SCREENED GRILLE

STANDARD CONSTRUCTION:
FACE PLATE:
FP10 10 GA. HOT ROLLED STEEL (HRS)
OPTIONS:
☐ FP17 3/16" (5)  ☐ FP12 12 GA. ☐ FP14 14 GA.

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

SLEEVE:
S10 10 GA. HRS, LENGTH AS REQUIRED
STITCH WELDED SEAMS
OPTIONS:
☐ S183 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:
☐ 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

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 233040

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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 45° 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:
  ○ 38F  ○ 38R

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 38F AND 38R = 5" (127).

PROJECT:

ENGINEER:

CUSTOMER:

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

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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.

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

WIRE MESH:
WW 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" 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:

FASTENING METHOD OPTIONS:
- MR6
- MR7
- CS 8 SPNR-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:
- TGC1

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: 2013/10/21

SPEC. SYMBOL: MSBL

MSBL MEDIUM SECURITY BENT LOUVER

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REV J
MSD - MINIMUM SECURITY DIFFUSER

COUNTERSUNK HOLES ON MAX. 10" CENTERS

FACE OVERALL = D + 5 3/4" (146)

CEILING OPENING = D + 3 1/2" (89)

OPTION CS8:
REAR PLATE WITH WELD NUTS
AND 1 1/2" LONG TAMPER-PROOF BOLTS

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" (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
□ P3: 1/4" (6) DIA. HOLES STAGGERED ON 3/8" (10) CENTERS
□ P4: 7/16" (11) DIA. HOLES STAGGERED ON 11/16" (17) CENTERS
□ OPTION CS8

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)

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

SQUARE CORE STYLES ONLY

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: SPEC. SYMBOL:
2013/06/05 239043

MD5 MINIMUM SECURITY DIFFUSER

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**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" (1)
- SLEEVE LENGTH MUST BE SPECIFIED ON ORDER
- REFER TO SUBMITTAL 235035 FOR OPTIONS
- CONSULT FACTORY FOR SPECIAL OPTIONS
- ALL BARS WELDED TO SLEEVE

**SUBMITTAL DATE:**
2010/11/01
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)

OPTIONS & ACCESSORIES:

FASTENING METHOD OPTIONS:
- MR6
- MR7
- CS 12 SPNR
- CS 12 SPNR-S5
- CS 12 TORX
- 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:
MSRRG
MAXIMUM SECURITY RISK RESISTANT GRILLE

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

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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 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:
☐ S12 WHITE
(OPERATIONAL FINISHES AVAILABLE)

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

PROJECT:

ENGINEER:

CUSTOMER:

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

MSRRP MAXIMUM SECURITY RISK RESISTANT PERFORATED

REV F
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) DIA. HOLES
STAGGERED 60° ON 5/16" (8) CENTERS CONTINUOUSLY
WELDED TO LATTICE FACE

BACKER PLATE:
BP12 12 GA. HRS, 3/16" (5) DIA. 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 VCS38
□ OPTION 38R (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

SUBMITTED DATE: 2013/10/22
**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

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**PROJECT:**

**ENGINEER:**

**CUSTOMER:**

**SUBMITTAL DATE:**

**SPEC. SYMBOL:**

233562  MSGS  MAXIMUM SECURITY GRILLE STEEL ROD  2013/10/22
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:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: SPEC. SYMBOL:

SECURITY GRILLES
OVERSIZE LAYOUT COMBINATIONS

APRIL/02

REV 0

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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:

MSDRBG
MAXIMUM SECURITY DOUBLE RIBBED BAR GRILLE

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: SPEC. SYMBOL:

239648

2010/11/01

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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
- □ OPTION CS12

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

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

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 2012/08/02

SPEC. SYMBOL: 0242075

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

STANDARD CONSTRUCTION:
DOUBLE RIB BARS: TRB875 7/8" (22) DIA. TOOL RESISTING
DOUBLE RIB BARS ON MAX. 5" (127) CENTERS
FLAT BARS: 2¼" (57) X ¾" (10) 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 2¼" X ¾" FLAT BARS HARDENED TO ADHERE
  TO ASTM A627-03
MASONARY RODS:
- MR6 ¼" (19) DIAMETER MASONARY RODS
- MR7 ¼" (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 ± ½" (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 SUPERSEEDS 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: [Redacted]
CUSTOMER: [Redacted]
SUBMITTAL DATE: 2010/11/01
SPEC. SYMBOL: MSTRBG

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