Nozzles

**JN — FIXED DISCHARGE**

Jet Nozzle
Furnish and install Price model JN jet nozzle with sizes and mounting styles shown on the plans and air distribution schedule. Jet nozzle shall have a curved intake featuring superior aerodynamic and acoustical properties. Jet nozzle shall be aluminum construction with white powder coat finish.

**JNA — ADJUSTABLE DISCHARGE (± 30°)**

Jet Nozzle
Furnish and install Price model JNA adjustable jet nozzle with sizes and mounting styles shown on the plans and air distribution schedule. Jet nozzle shall have a curved intake featuring superior aerodynamic and acoustical properties, housed in a hemispheric casing with opposite swivel bearings and swivel range of ± 30°. Jet nozzle shall be aluminum construction with white powder coat finish.

**JNT — ADJUSTABLE DISCHARGE (± 30°) WITH TWIST EFFECT**

Jet Nozzle
Furnish and install Price model JNT adjustable jet nozzle with sizes and mounting styles shown on the plans and air distribution schedule. Jet nozzle shall have a curved intake featuring superior aerodynamic and acoustical properties, housed in a hemispheric casing with opposite swivel bearings and swivel range of ± 30°. The JNT shall have wider spread and shorter throws for air distribution in narrow spaces. Jet nozzle with twist element shall be aluminum construction with white powder coat finish.

**JTDA — ADJUSTABLE DISCHARGE**

Jet Twist Diffuser
Furnish and install Price model JTDA high induction radial air jets of the sizes shown on the plans and air distribution schedule. Diffuser shall consist of swivel mechanism to adjust support jet ± 20 in the vertical plane (manual/controlled by integral servomotor). The outer cylinder and core tube shall contain interjacent twist vanes and perforated sheet metal for even supply air distribution and sufficient support of jet volume flow rate. The air outlet shall be of aluminum construction and swivel mechanism of steel construction with a white powder coat finish.

**AND — AIR NOZZLE DIFFUSER**

Furnish and install Price model AND air nozzle diffuser of sizes and mounting styles shown on the plans and air distribution schedule. Jet nozzle assembly shall be constructed of a series of concentric round nozzles and have the ability to swivel in the range of ± 30°. Air nozzle diffuser shall be steel construction with white powder coat finish. Finish shall be B12 white powder coat. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

**MSBL**

Furnish and install Price model MSBL steel medium security (supply/return) bent fixed louver grilles of the sizes and mounting types indicated on the plans and outlet schedule. Grilles shall be 45 degree deflection fixed louver type with blades spaced 7/8 in. [10] on center supported by 14 gauge vertical support mullions located on 6 in. centers with a 10 gauge wire mesh (2.5 mesh/inch - 44% free area). The face frame shall be 16 gauge hot rolled steel. Blades shall run parallel to the (long/short) dimension of the grille. The grille is to be attached to a steel wall sleeve with a rear mounting frame for a concealed and secure fastening. The grille shall be painted with a powder coat process and be finished in white. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

Optional integral volume control damper shall be of the opposed blade type and shall be constructed of cold rolled steel. The damper shall be mounted in the wall sleeve and be operable from the rear of the register.
Grilles & Registers

Suggested Specification

Nozzles

MSGS

Furnish and install Price model MSGS steel maximum security (supply/return) straight fixed louver grilles with steel rods of the sizes and mounting types indicated on the plans and outlet schedule. Grilles shall be 0 / 15 degree deflection fixed louver type with blades spaced \( \frac{3}{16} \) in. [6] on center supported by hardened steel rods located on 6 in. centers. The face frame shall be \( \frac{3}{16} \) in. [5] hot rolled steel. Blades shall run parallel to the long dimension of the grille. The grille is to be attached to a 12 gauge hot rolled steel wall sleeve with a rear mounting frame for a concealed and secure fastening. The grille shall be painted with a powder coat process and be finished in white. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

Optional integral volume control damper shall be of the opposed blade type and shall be constructed of cold rolled steel. The damper shall be mounted in the wall sleeve and be operable from the (front/rear) of the register. 304 Stainless steel and aluminum (minimum security) grilles to use dampers of the same construction material.

MSD

Furnish and install Price model MSD steel minimum security supply diffuser of the sizes and mounting types indicated on the plans and outlet schedule. The faceplate shall consist of 12 gauge hot rolled steel with \( \frac{3}{16} \) in. x \( \frac{3}{16} \) in. [21 x 21] square holes and \( \frac{7}{16} \) in. [5] frets. The faceplate is to be attached with tamper-proof screws in countersunk screw holes at a maximum distance of 10 in. [254]. The diffuser shall be Price model SMD steel directional louvered face diffuser. Diffusers shall consist of an outer frame assembly, which facilitates mounting in the application shown. A collar that allows connection to the square (or rectangular) duct size indicated shall be an integral part of the frame assembly. An inner core assembly consisting of fixed louvers capable of producing the air flow discharge pattern indicated on the plans shall be fully removable from the installed diffuser frame for access to any dampers or other ductwork components located in or near the diffuser neck. The inner core assemblies shall be identically constructed so that directional core assemblies providing different air flow discharge patterns may be interchanged between frames, provided the frame duct connections are of the same size. The grille shall be painted with a powder coat process and be finished in white. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

Optional integral volume control damper shall be of the opposed blade type and shall be constructed of cold rolled steel. 304 stainless steel and aluminum grilles to use dampers of the same construction material.

MSBG

Furnish and install Price model MSBG duct / barrier grille of the sizes and mounting types indicated on the plans and outlet schedule. \( \frac{7}{16} \) in. [5] sleeve with two 1 in. x 1 in. x \( \frac{7}{16} \) in. [25 x 25 x 5] 4 sided angle frames (one frame welded 1 in. [25] from one end, one frame shipped loose for field welding). Barrier bars shall be \( \frac{1}{2} \) in. [12] hot rolled steel bars located on maximum 6 in. x 12 in. [152 x 304] centers. Bars are to be welded to frame and at all crosspoints. The grille shall be painted with a powder coat process and be finished in white. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

MSDRBG

Furnish and install Price model MSDRGB duct/barrier grille of the sizes and mounting types indicated on the plans and outlet schedule. \( \frac{1}{4} \) in. [6] sleeve with two 1 1/2 in. x 1 1/2 in. x 3/16 in. [38 x 38 x 5] 4 sided angle frames (one frame welded 1 in. [25] from one end, one frame shipped loose for field welding). Double-Ribbed barrier bars shall be \( \frac{1}{8} \) in. [22] steel bars and shall be located on maximum 5 in. [127] centers. The flat intermediate plate shall be \( \frac{1}{8} \) in. [10] thick hot rolled steel and be mounted into the sleeve on 12 in. [304] centers. Bars are to be inserted into square inserts that are welded to the sleeve. The grille shall be painted with a powder coat process and be finished in white. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.
Nozzles

MSTRBG
Furnish and install Price model MSTRBG tool resisting duct/barrier grille of the sizes and mounting types indicated on the plans and outlet schedule. The grille shall be 1/16 in. [6] steel construction. Double-ribbed barrier bars shall be 1/8 in. [22] diameter tool resisting steel, located on maximum 5 in. [127] centers. Double ribbed bars shall be inserted into 1/4 in. [10] tool resisting steel bars welded along the sleeve. Flat intermediate bars shall be 1/8 in. [10] tool resisting steel welded to the sleeve at maximum 12 in. [304] centers. The tool resisting steel used in the double ribbed bars and flat intermediate bars shall conform to ASTM A627-03 specification. The grille shall be painted with a powder coat process and be finished in white. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

Optional 4 sided angle frames shall be provided – the first frame welded 1 in. [25] from one end, the second frame shipped loose for field welding.

MSRRG
Furnish and install Price model MSRRG risk resistant steel maximum security (supply/return) grilles of the sizes and mounting types indicated on the plans and outlet schedule. Grilles shall be 1 in. [25] angle 45 degree deflection fixed louver type with blades spaced on 1/16 in. [6] centers. Vertical mullions shall be 1 3/16 in. [44] and 12 gauge hot rolled steel bars. The grille is to be attached to a wall sleeve of 3/16 in. [5] hot rolled steel with a rear mounting frame for a concealed and secure fastening. The grille shall be painted with a powder coat process and be finished in white. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

Optional integral volume control damper shall be of the opposed blade type and shall be constructed of cold rolled steel. The damper shall be mounted in the wall sleeve and be operable from the rear of the register.

MSRRCDO
Furnish and install Price model MSRRCDO maximum security risk resistant ceiling diffuser of the sizes, discharge patterns and mounting types indicated on the plans and outlet schedule. The diffuser shall be constructed of 12 gauge hot rolled steel. Louver blades shall be spaced for 3/16 in. channel width at the diffuser face, with a 35 degree air discharge angle. The louvers shall be fixed in place and shall follow a zigzag pattern through the diffuser. The diffuser shall be painted with a powder coat process and finished in white. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

Optional integral volume control damper shall be of the opposed blade type and shall be constructed of cold rolled steel. The damper shall be mounted in the wall sleeve and be operable from the rear of the register.

MSRRP
Furnish and install Price model MSRRP risk resistant perforated steel maximum security (supply/return) grilles of the sizes and mounting types indicated on the plans and outlet schedule. Grilles shall be 3/16 in. [5] hot rolled steel faceplate with 1/16 in. [5] perforated staggered 60° on 1/8 in. [7] centers. The grille is to be attached to a wall sleeve of 3/16 in. [5] hot rolled steel with a rear mounting frame for a concealed and secure fastening. The grille shall be painted with a powder coat process and be finished in white. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

Optional integral volume control damper shall be of the opposed blade type and shall be constructed of cold rolled steel. The damper shall be mounted in the wall sleeve and be operable from the rear of the register.

MSPG
Furnish and install Price model MSPG perforated faced steel maximum security (supply/return) grilles of the sizes and mounting types indicated on the plans and outlet schedule. The grille face shall consist of 3/16 in. [5] hot rolled steel with 1/16 in. [8] diameter holes spaced on 1/16 in. [11] centers staggered 60 degrees. The grille is to be attached to a wall sleeve of 3/16 in. [5] hot rolled steel with a rear mounting frame for a concealed and secure fastening. The grille shall be painted with a powder coat process and be finished in white. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.
Grilles & Registers

Suggested Specification

Nozzles

Optional integral volume control damper shall be of the opposed blade type and shall be constructed of cold rolled steel. The damper shall be mounted in the wall sleeve and be operable from the (front/rear) of the register. 304 stainless steel and aluminum (minimum security) grilles to use dampers of the same construction material.

MSLG

Furnish and install Price model MSLG maximum security 3 tier lattice faced steel (supply/return) grilles of the sizes and mounting types indicated on the plans and outlet schedule. The grille shall meet or exceed ASTM specifications for detention area outlets. The grille face shall be a laminated assembly consisting of 3/16 in. [5] hot rolled steel with 2 in. x 2 in. [51 x 51] square holes and 1 in. [25] frets, a 10 gauge wire mesh (2.5 mesh/inch - 44% free area) and a backer plate of 3/16 in. [6] hot rolled steel with 2 in. x 2 in. [51 x 51] square holes and 1 in. [25] frets. The grille is to be attached to a wall sleeve of 3/16 in. [5] hot rolled steel with a rear mounting frame for a concealed and secure fastening. The grille shall be painted with a powder coat process and be finished in white. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

Optional integral volume control damper shall be of the opposed blade type and shall be constructed of cold rolled steel. The damper shall be mounted in the wall sleeve and be operable from the (front/rear) of the register. 304 stainless steel and aluminum (minimum security) grilles to use dampers of the same construction material.

MSLGP

Furnish and install Price model MSLGP maximum security 3 tier lattice/perforated face steel (supply/return) grilles of the sizes and mounting types indicated on the plans and outlet schedule. The grille face shall be an assembly consisting of one 3/16 in. [5] hot rolled steel lattice with 2 in. x 2 in. [51 x 51] square holes and one 12 gauge hot rolled steel perforated plate with 3/16 in. [5] diameter holes on 3/16 in. [8] centers on a 60 degree stagger. The perforated plate shall be continuously welded to the lattice face. A second face of 12 gauge hot rolled steel perforated plate with 3/16 in. [5] diameter holes on 3/16 in. [8] centers on a 60 degree stagger shall be continuously welded to the sleeve 1 in. [25] from the face assembly. The second perforated face shall be mounted at an offset to the first to obstruct visual and insertion lines. The grille is to be attached to a wall sleeve of 3/16 in. [5] hot rolled steel with a rear mounting frame for a concealed and secure fastening. The grille shall be painted with a powder coat process and be finished in white. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

Optional integral volume control damper shall be of the opposed blade type and shall be constructed of cold rolled steel. The damper shall be mounted in the wall sleeve and be operable from the (front/rear) of the register.

MSL

Furnish and install Price model MSL lattice faced steel minimum security (supply/return) grilles of the sizes and mounting types indicated on the plans and outlet schedule. The grille face shall consist of 14 gauge hot rolled steel with 3/16 in. [19] x 3/16 in. [19] x 1 in. [25] square holes and frets. The grille is to be attached to a wall sleeve of 14 gauge hot rolled steel with a rear mounting frame for a concealed and secure fastening. The grille shall be painted with a powder coat process and be finished in white. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

Optional integral volume control damper shall be of the opposed blade type and shall be constructed of cold rolled steel. The damper shall be mounted in the wall sleeve and be operable from the (front/rear) of the register. 304 stainless steel and aluminum (minimum security) grilles to use dampers of the same construction material.

MSLP

Furnish and install Price model MSLP lattice faced steel minimum security plates of the sizes and mounting types indicated on the plans and outlet schedule. The faceplate shall consist of 14 gauge hot rolled steel with 3/16 x 3/16 in. [21 x 21] square holes and 3/16 in. [5] frets. The faceplate is to be attached with tamperproof screws in countersunk screw holes. The grille shall be painted with a powder coat process and be finished in white. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.

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Nozzles

MSSG
Furnish and install Price model MSSG screened faced steel medium security (supply/return) grilles of the sizes and mounting types indicated on the plans and outlet schedule. The grille face shall be a 10 gauge wire mesh (2.5 mesh/inch - 44% free area) and a backer angle of hot rolled steel. The grille is to be attached to a wall sleeve of 10 gauge hot rolled steel with a rear mounting frame for a concealed and secure fastening. The grille shall be painted with a powder coat process and be finished in white. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.
Optional integral volume control damper shall be of the opposed blade type and shall be constructed of cold rolled steel. The damper shall be mounted in the wall sleeve and be operable from the (front/rear) of the register. 304 stainless steel and aluminum (minimum security) grilles to use dampers of the same construction material.

MSSL
Furnish and install Price model MSSL steel medium security (supply/return) straight fixed louver grilles of the sizes and mounting types indicated on the plans and outlet schedule. Grilles shall be 0 degree deflection fixed louver type with blades spaced 1/2 in. [13] on center supported by 14 gauge vertical support mullions located on 6 in. centers with a 10 gauge wire mesh (2.5 mesh/inch - 44% free area). The faceplate shall be 14 gauge hot rolled steel. Blades shall run parallel to the (long/short) dimension of the grille. The grille is to be attached to a steel wall sleeve with a rear mounting frame for a concealed and secure fastening. The grille shall be painted with a powder coat process and be finished in white. Paint finish shall pass 500 hours of salt spray exposure with no measurable creep in accordance with ASTM D1654 and 1000 hours with no rusting or blistering as per ASTM D610 and ASTM D714.
Optional integral volume control damper shall be of the opposed blade type and shall be constructed of cold rolled steel. The damper shall be mounted in the wall sleeve and be operable from the (front/rear) of the register. 304 stainless steel and aluminum (minimum security) grilles to use dampers of the same construction material.