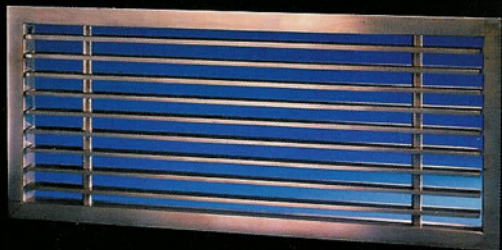
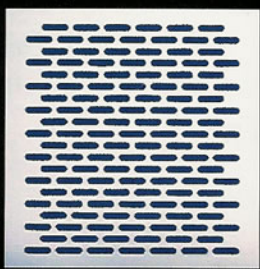


GRILLES



Wainland's-Serving The Design Industry With Superb Quality Craftsmanship.

For over 45 years, our experienced craftsmen have provided architects and designers with original fabrications, reproductions, and restorations created precisely to their requirements, in every metal (brass, bronze, stainless steel, aluminum, copper, cast iron, and hot or cold rolled steel), and in every available finish (satin, antique, anodized, patinated, painted, mirror finish, or plated).

Whether it be ornate or simple, traditional or contemporary, ancient or faux, deco or nouveau, the men and women of WAINLANDS will solve your problems and satisfy your needs, no matter how complex or intricate they may be.

Our vast experience in manufacturing custom made products and repairing existing works of art in metal has equipped us for any challenge, and earned the respect of design professionals across the United States and abroad.

We have now moved our manufacturing facility into a new 25,000 square foot building in Astoria, Queens. Responding to customer needs, we will be incorporating new state of the art machinery to shorten turn around times and raise production capabilities. Our Manhattan location will be converted into a new showroom displaying our product lines and finishes.

Note: See inside BACK cover for summary of grille specifications.

CUSTOM PERFORATED GRILLES

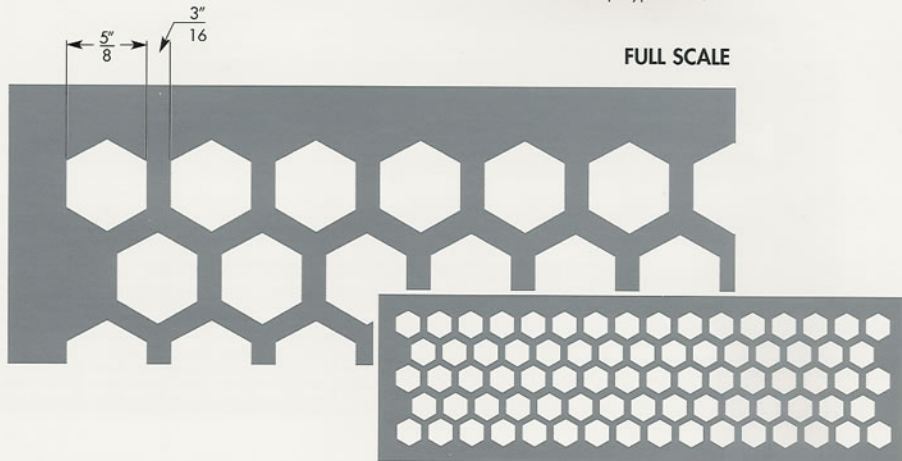
NO. 201 — HONEYCOMB

5/8" — 50% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



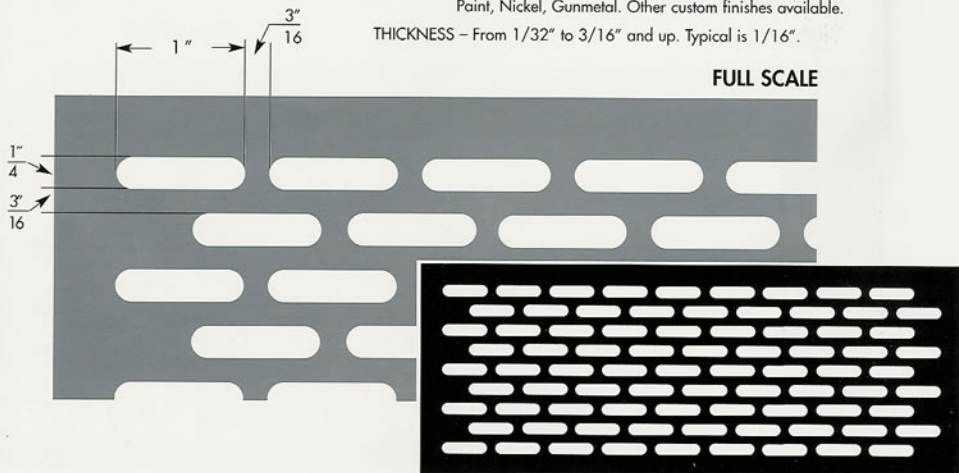
NO. 202 — OVAL SLOTS

1" — 34% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



CUSTOM PERFORATED GRILLES

NO. 209 — STRAIGHT SLOTS

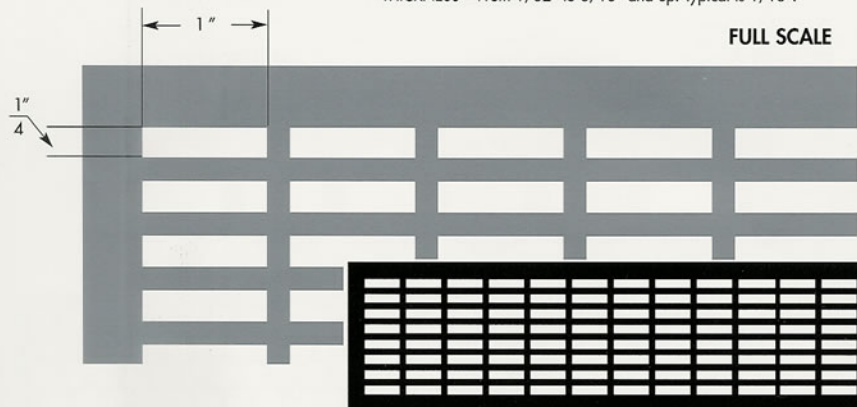
1/4" x 1" — 35% open

3/8" x 1" — 43% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



NO. 210 — CROSSED CIRCLE

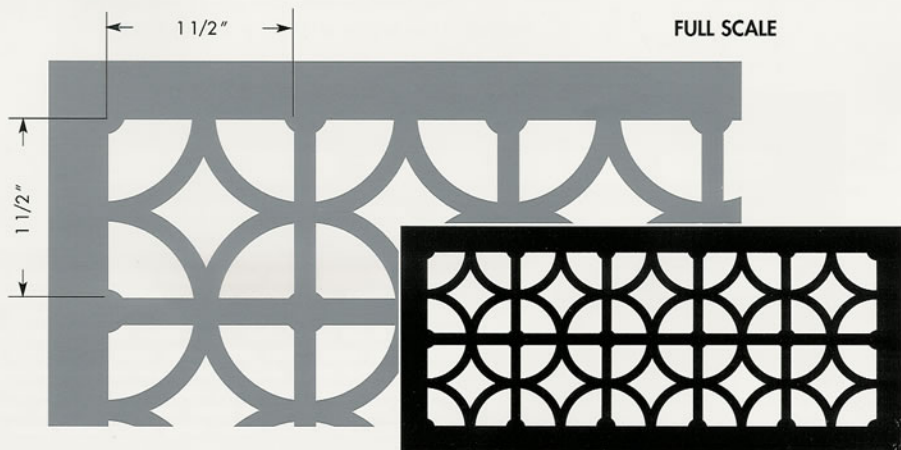
1 1/2" — 55% open

2" — 55% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



CUSTOM PERFORATED GRILLES

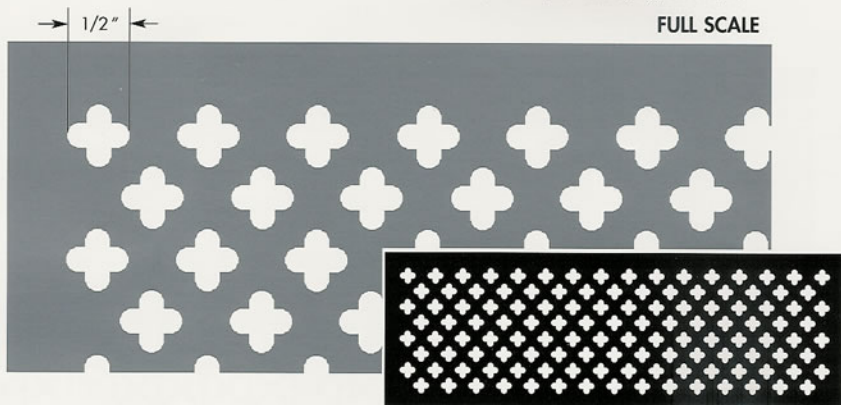
NO. 212 — ROUND CROSS

1/2" — 52% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



NO. 213 — FORMAL HOLE

All 23% open.

1/4" hole with 1/2" center, 3/8" hole with 3/4" center

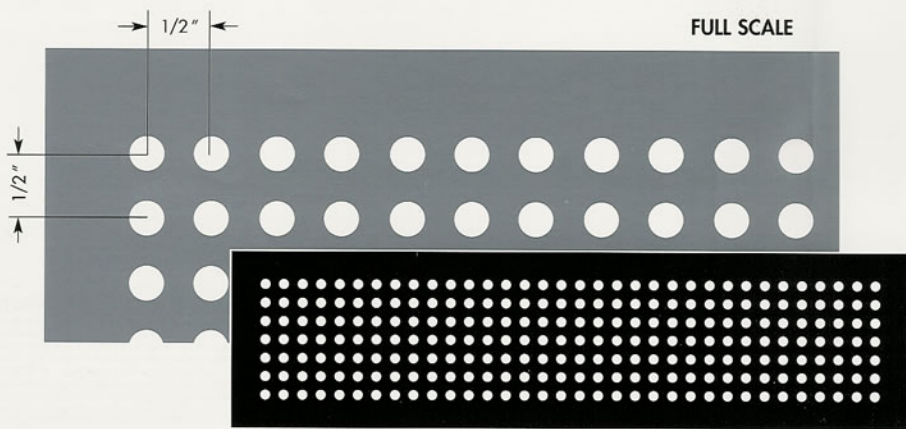
1/2" hole with 1" center, 3/4" hole with 1 1/2" center

Centers can be custom sized.

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



CUSTOM PERFORATED GRILLES

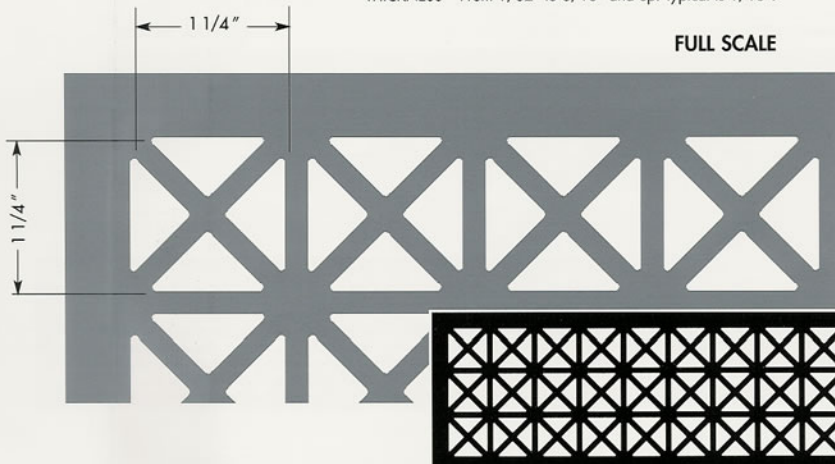
NO. 214 — CRISS CROSS

1 1/4" — 41% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



NO. 215 — OFFSET SLOTS

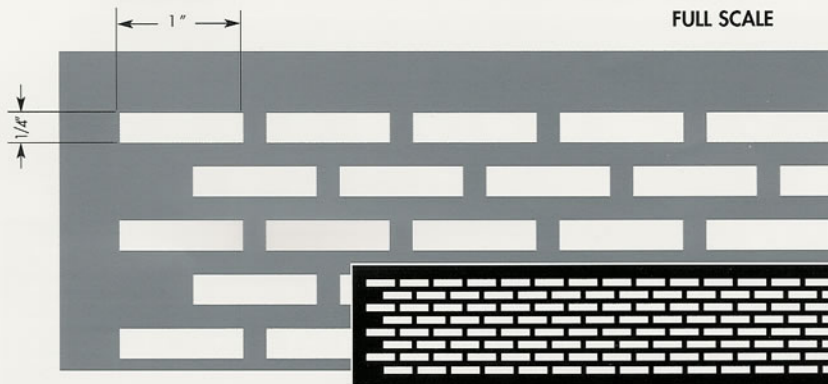
1" x 1/4" — 35% open

3/8" x 1" — 43% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



CUSTOM PERFORATED GRILLES

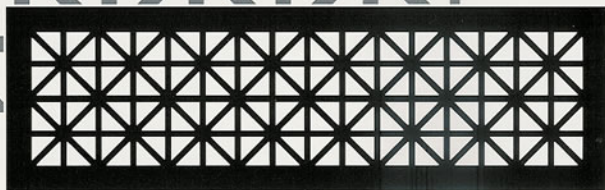
NO. 216 — CENTER RAY

1 1/4" x 1 1/4" — 39% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



NO. 217 — STAR

1/2" — 47% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



CUSTOM PERFORATED GRILLES

NO. 219 — DIAMOND

1/2" — 64% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



NO. 220 — CHECKERBOARD

3/8" — 38% open

1/2" — 38% open

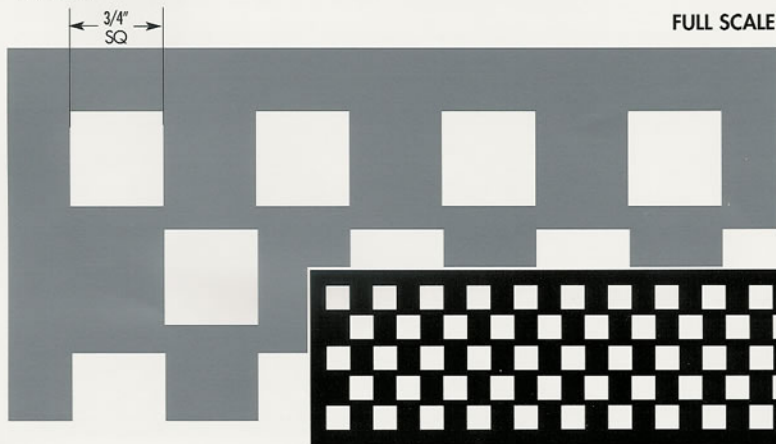
3/4" — 38% open

1" — 38% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



CUSTOM PERFORATED GRILLES

NO. 221 — SQUARE L

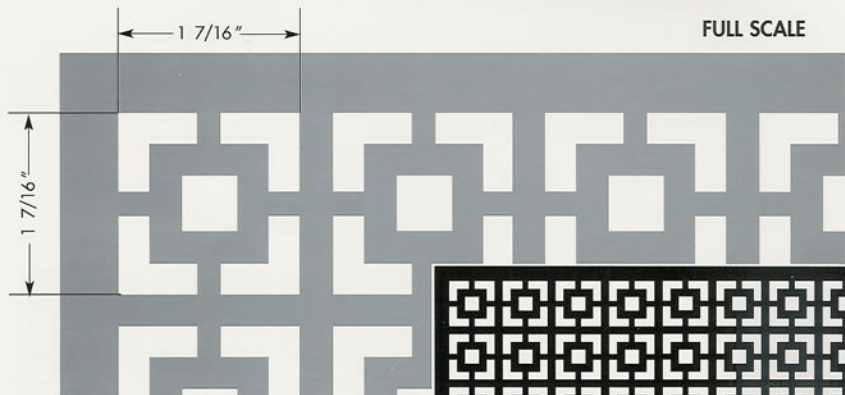
1 7/16" — 44% open

2" — 53% open

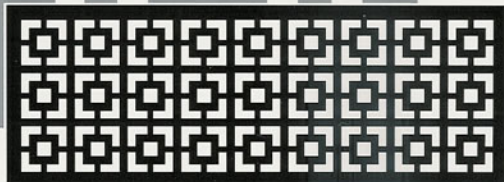
MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



FULL SCALE



NO. 222 — CROSS WEAVE

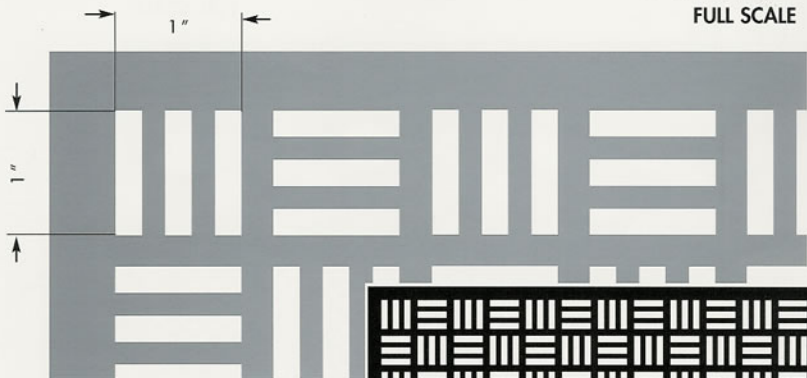
1" x 1" — 38% open

3/4" x 3/4" — 35% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



FULL SCALE



CUSTOM PERFORATED GRILLES

NO. 224 — SQUARE

1/4" with 3/8" bar — 38% open

1/2" with 1/4" bar — 45% open

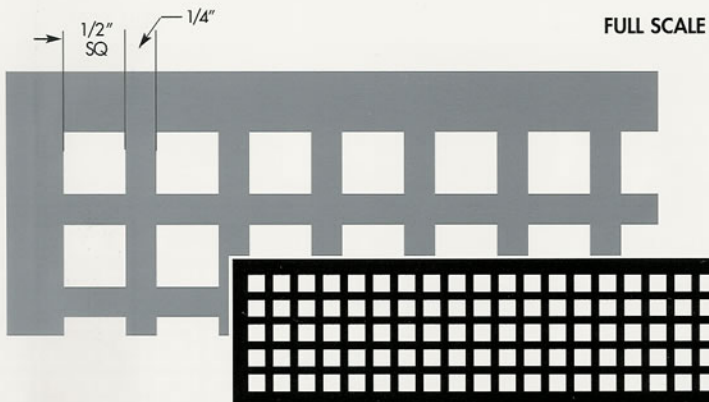
3/4" with 1/4" bar — 56% open

1" with 1/4" bar — 64% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



NO. 225 — OFFSET HOLE

All 23% open.

1/4" hole with 1/2" center,

3/8" hole with 3/4" center,

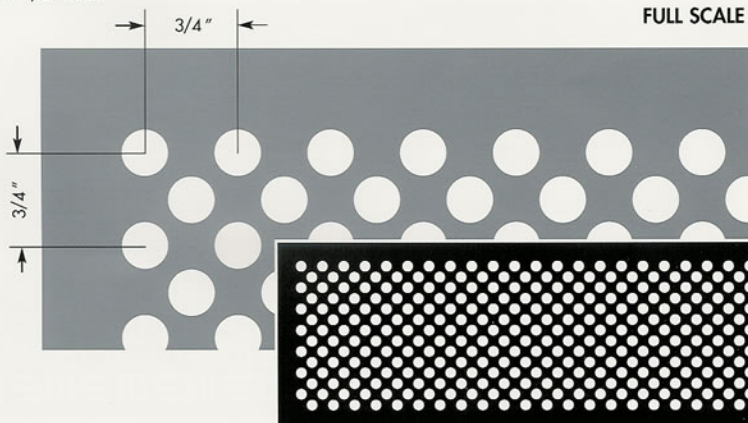
1/2" hole with 1" center,

3/4" x 1 1/2" center

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



CUSTOM PERFORATED GRILLES

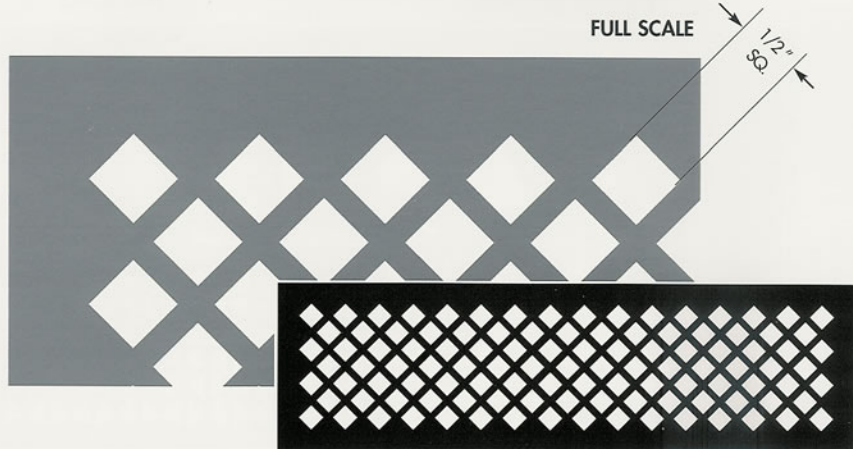
NO. 226 — SQUARE 45°

Available in 1/2" square — 45% open
3/4" square — 56% open
1" square — 64% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



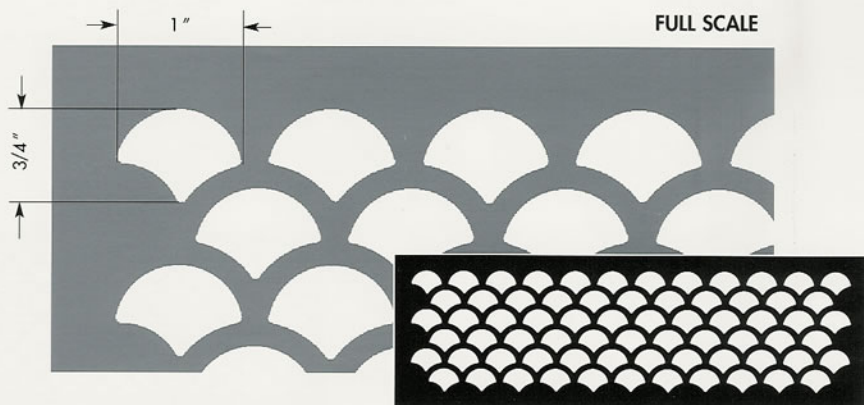
NO. 227 — SHELL

5/8" — 48% open
1" — 54% open
1 1/2" — 70% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



CUSTOM PERFORATED GRILLES

NO. 229 — HALF SHELL

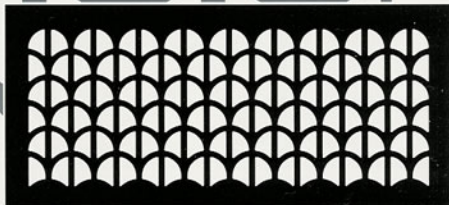
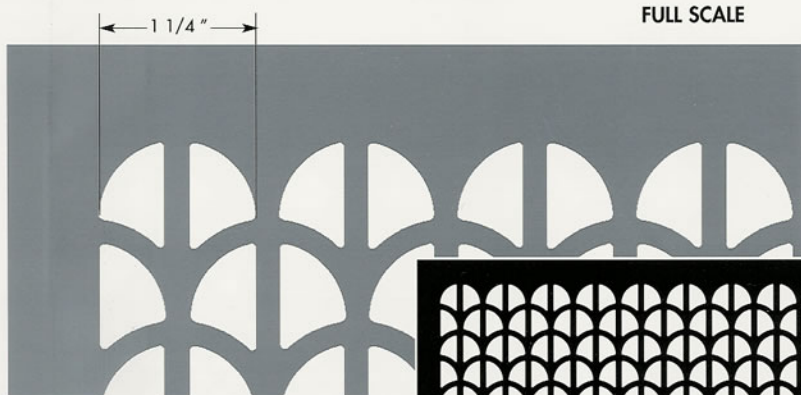
1 1/4" — 54% open

1 3/4" — 60% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



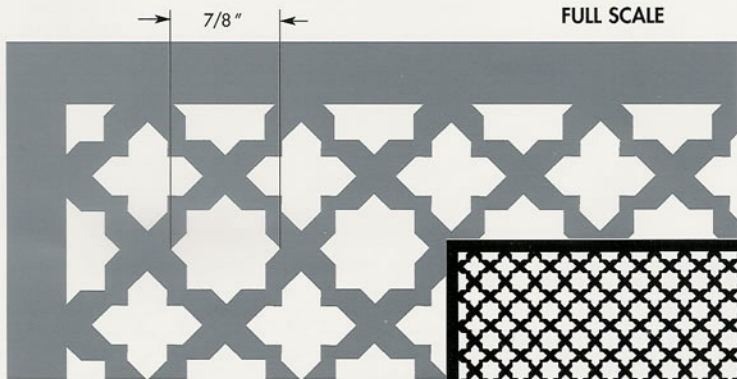
NO. 250 — SQUARE AND CROSS

7/8" — 57% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



CUSTOM PERFORATED GRILLES

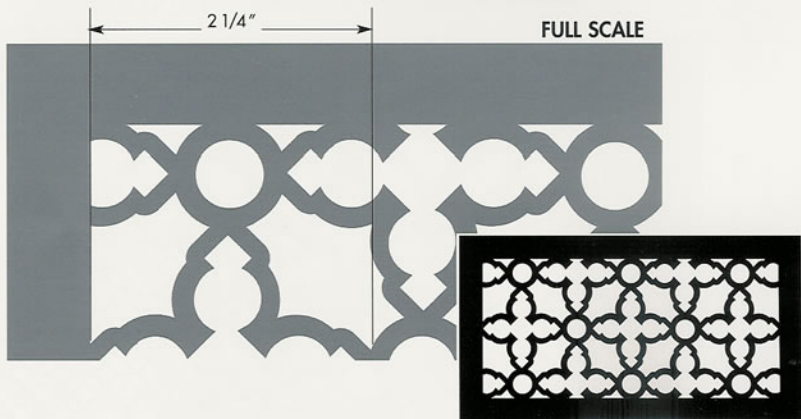
NO. 251 — VICTORIAN

2 1/4" — 64% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



NO. 252 — FRENCH MOTIF

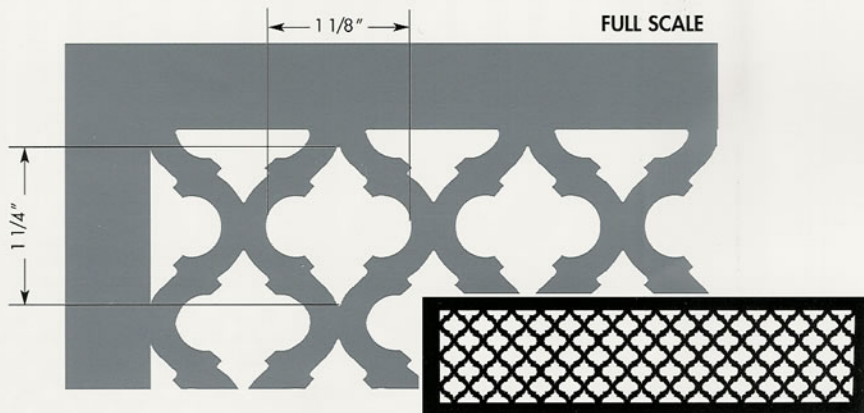
1 1/4" — 72% open

1 3/4" — 72% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



CUSTOM PERFORATED GRILLES

NO. 253 — SNOWFLAKE

1 1/8" — 58% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".

FULL SCALE



NO. 254 — BLOSSOM

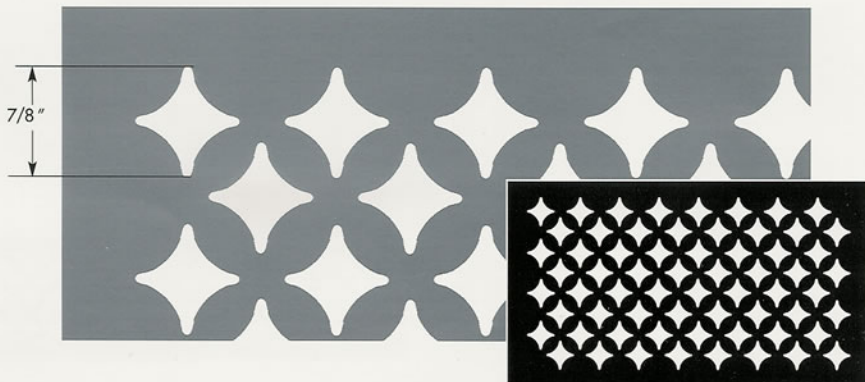
7/8" — 54% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".

FULL SCALE



CUSTOM PERFORATED GRILLES

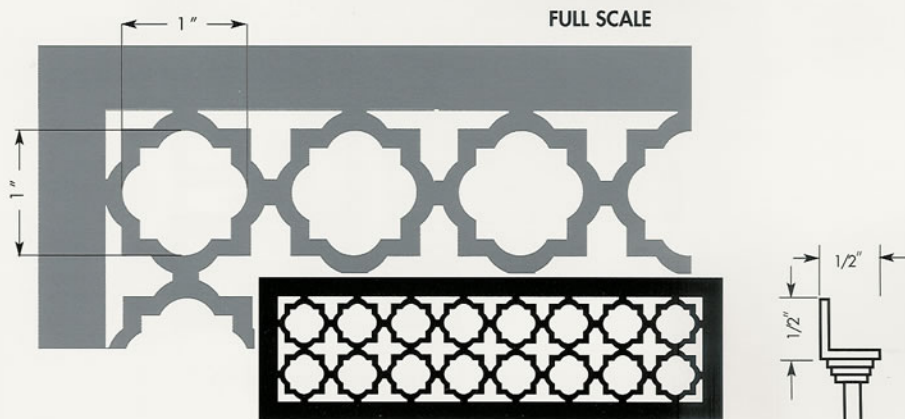
NO. 255 — ITALIAN MOTIF

- 1" — 75% open
- 1 1/2" — 75% open
- 2" — 75% open

MATERIALS — Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

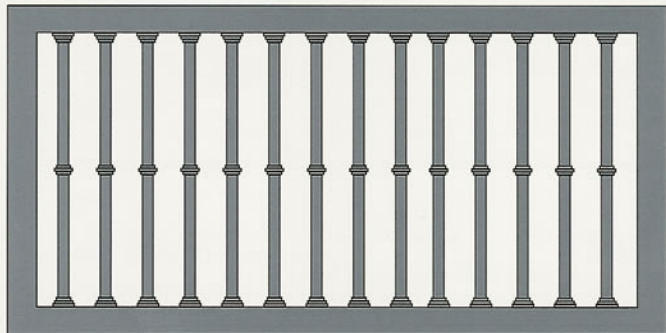
FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS — From 1/32" to 3/16" and up. Typical is 1/16".



SPINDLE GRILLE

- 3/4" — 64% open



MATERIALS — Brass, Bronze,

FINISHES — Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

FULL SCALE

TYPICAL SECTION
3/4" BETWEEN SPINDLES
ON CENTER

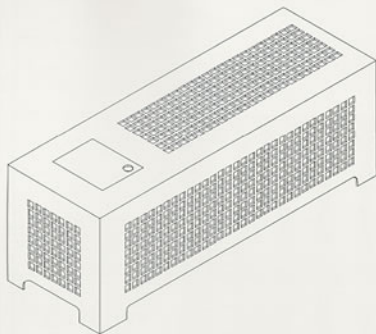
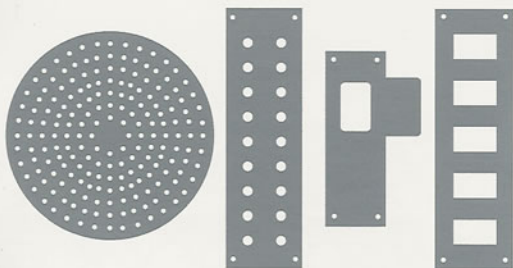
CUSTOM GRILLES, PLATES AND CABINETS

CUSTOM PLATES

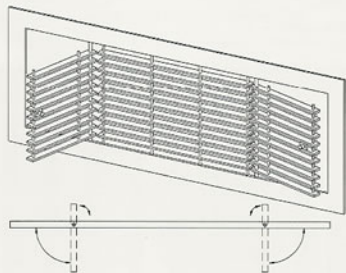
MATERIALS – Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES – Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

THICKNESS – From 1/32" to 3/16" and up. Typical is 1/16".



CUSTOM CABINET



BAR GRILLE WITH ACCESS DOORS

Wainlands will fabricate custom cabinets and grilles according to your specifications using our standard materials.

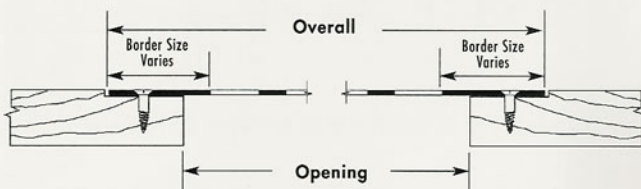
MATERIALS – Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel

FINISHES – Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal.
Other custom finishes available.

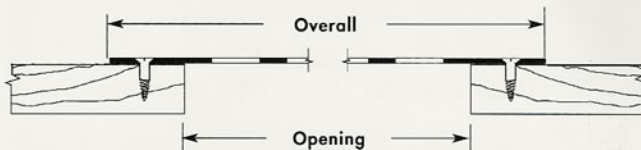
THICKNESS – From 1/32" to 3/16" and up. Typical is 1/16".

CUSTOM PERFORATED GRILLES

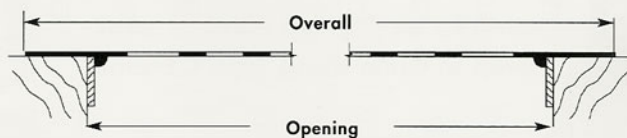
GRILLE DIMENSIONS & MOUNTING STYLES



Grille connection mortised into woodwork with countersink holes for flush mounting



Grille on top of frame with countersink holes

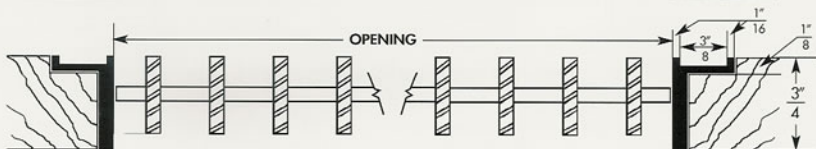
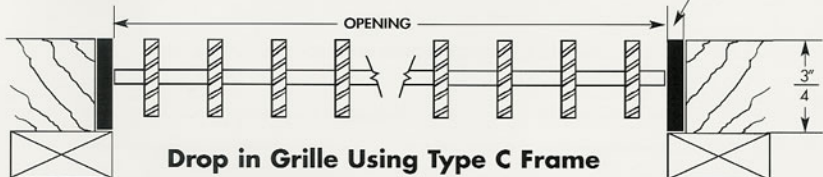
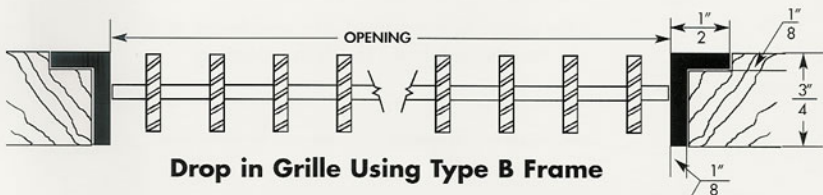
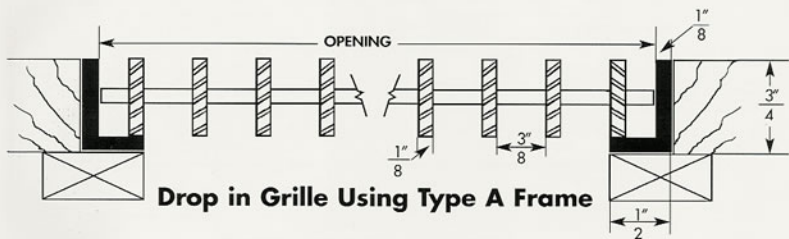
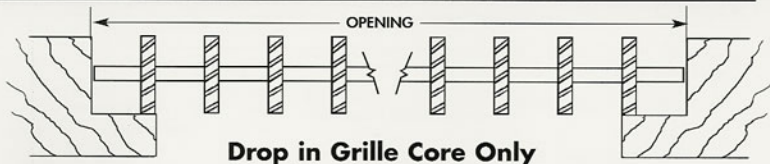


Grille set in top surface with inner frame to prevent movement

- Dampers are available and can be added to some Perforated Grille sizes

CUSTOM BAR GRILLES

0° DEFLECTION DROP-IN GRILLES

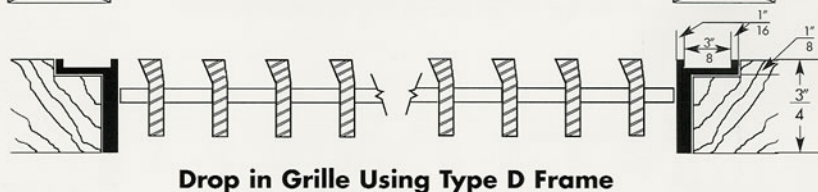
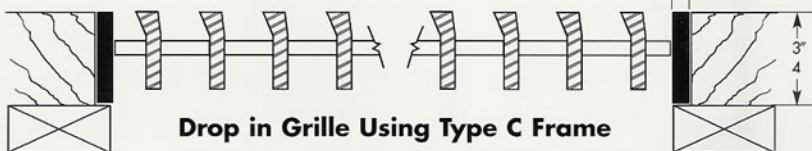
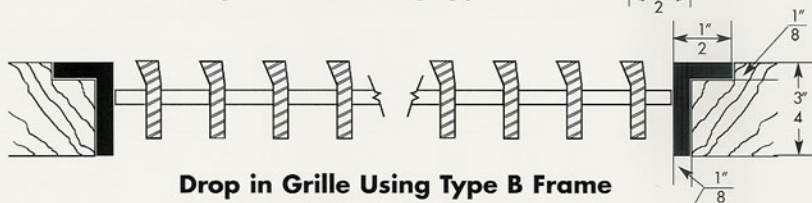
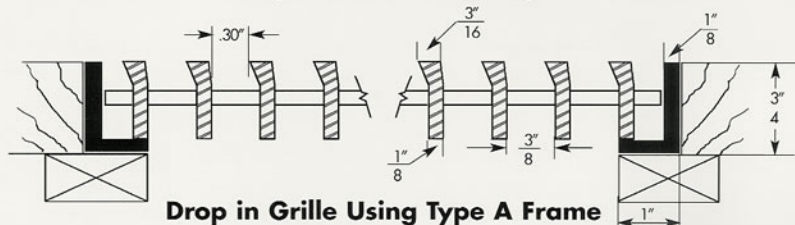


Drop in Grille Using Type D Frame

MATERIALS – Aluminum, Brass, Copper, Bronze, Steel, Stainless Steel ($\frac{3}{4}$ " x $\frac{3}{4}$ " A & B Frame)
FINISHES – Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

CUSTOM BAR GRILLES

15° DEFLECTION DROP-IN GRILLES

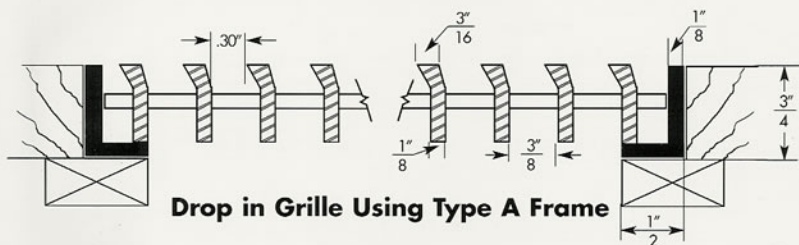


MATERIALS – Aluminum, Brass, Copper, Bronze

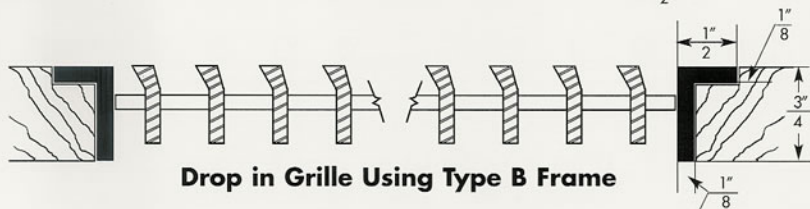
FINISHES – Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

CUSTOM BAR GRILLES

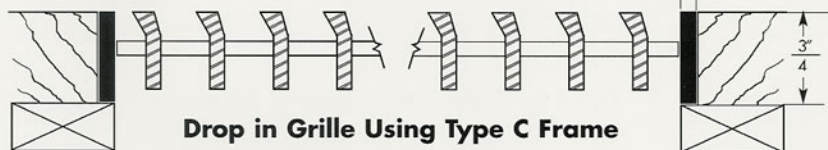
30° DEFLECTION DROP-IN GRILLES



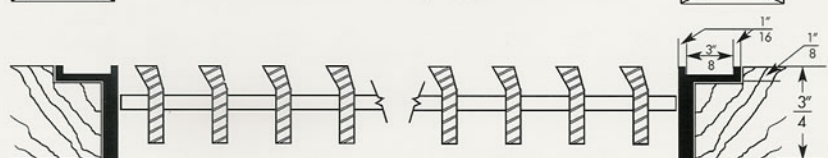
Drop in Grille Using Type A Frame



Drop in Grille Using Type B Frame



Drop in Grille Using Type C Frame



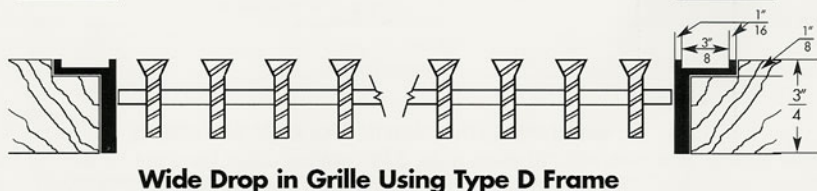
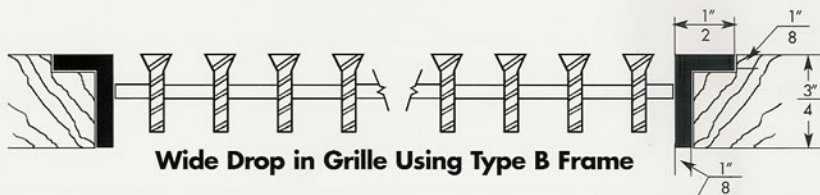
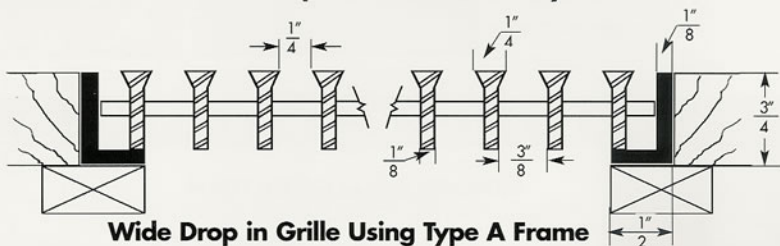
Drop in Grille Using Type D Frame

MATERIALS – Aluminum, Brass, Copper, Bronze

FINISHES – Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

CUSTOM BAR GRILLES

0° DEFLECTION WIDE DROP-IN GRILLES

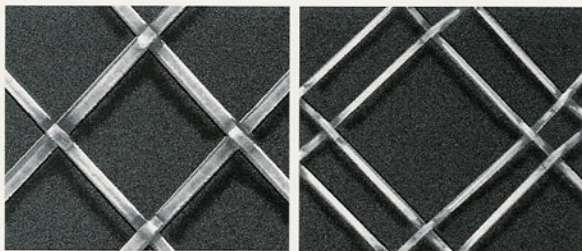


MATERIALS – Aluminum, Brass, Copper, Bronze

FINISHES – Mirror Polish, Satin (brushed), Statuary Bronze, Chrome, Antique Brass, Paint, Nickel, Gunmetal. Other custom finishes available.

CUSTOM WOVEN WIRE SCREEN

| SQUARE WIRE SIZE | MESH SIZE OF SQUARE | SHAPE OF SQUARE |
|------------------|---------------------|-----------------|
| 1/16" | 1" | DIAMOND |
| 1/16" | 1" | ALT. DIAMOND |
| 1/16" | 1/2" | DIAMOND |
| 1/16" | 3/4" | DIAMOND |
| 3/32" | 1 1/4" | DIAMOND |
| 3/32" | 1 1/2" | ALT. DIAMOND |
| 3/32" | 1 1/2" | DIAMOND |



ORDER FORM WORK SHEET

PUNCHED GRILLE ORDER FORM

PATTERN NUMBER _____ MATERIAL _____ FINISH _____ QUANTITY _____

OVERALL SIZE OF GRILLE INCLUDING BORDER _____ THICKNESS _____
STANDARD IS 1/16" - MAX IS 1/8" BEFORE WATERJET

EXISTING HOLE OPENING SIZE _____ APPROXIMATE BORDER SIZE _____
PLEASE SPECIFY MINIMUM REQUIRED • TYPICALLY RANGE FROM 1/2 TO 1 1/2" DEPENDING ON GRILLE SIZE

PATTERN DIRECTION (NON-SYMMETRICAL PATTERNS ONLY) _____ SCREW HOLE LOCATION _____
IN CORNERS OR SIDES OR BOTH

LINEAR BAR GRILLE ORDER FORM

CORE DEFLECTION (0 WIDE, 0, 15 OR 30 DEGREES) _____ FRAME STYLE (A,B,C,D, CORE ONLY) _____

MATERIAL _____ FINISH _____ QUANTITY _____

HOLE SIZE _____ DOOR SIZE & LOCATION _____
TYPICALLY DOOR IS 6 1/2"

BAR DIRECTION _____ SCREW HOLE LOCATION _____
LONG WAY (TYPICAL) OR SHORT WAY IN CORNERS OR SIDES OR BOTH

- **WAINLANDS STANDARD IN STOCK 15° BAR GRILLES**

White powder aluminum with "B" frame style, 3/4" overlap. Sizes listed are for existing hole size. Overall dimensions are 1 1/2" larger than opening (3 1/2" X 24" will be 5" X 25 1/2" overall)

- **IN STOCK SIZES (inches)**

WIDTHS: 3 1/2, 4, 4 1/2, 5, 5 1/2, 6 LENGTHS (all widths): 24, 30, 36, 42, 48

WAINLANDS GRILLE TYPES & SPECIFICATIONS

General:

- 1- All grille types can be used for walls, cabinet tops, ceilings, or floors (reinforcement may be needed for floor application).
- 2- All types can be used for either supply or return.
- 3- All types can be made to order in any feasible size. There are no "stock" sizes except as noted at the bottom of page 20.
- 4- No grills are made with dampers (operable louvers). It is possible to add this feature onto certain grills.
- 5- Amount of open area required depends on HVAC system. Forced air generally requires more than radiant systems.

Perforated:

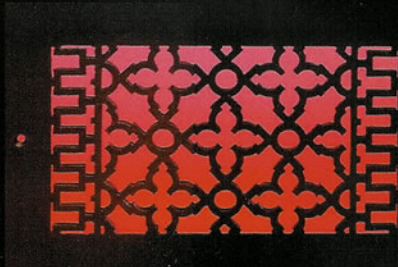
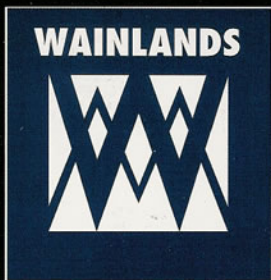
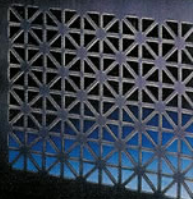
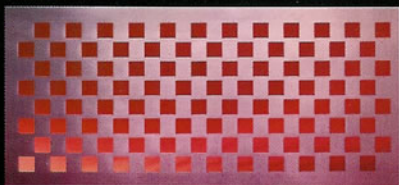
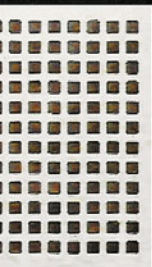
- 1- Made from sheet material in a single flat metal piece.
- 2- Available thicknesses are 1/16" and 1/8", but can vary if required.
- 3- Design shapes are punched or laser cut out to make pattern.
- 4- Pattern shape proportions are constant. Border sizes vary depending upon the size of grille.
- 5- Border sizes range from 1/2" on small grills to 1" on large grills. These borders decorate and hide the edges of the opening.
- 6- Typically, grills are mounted with screws as indicated on page 15.

Bar or Linear:

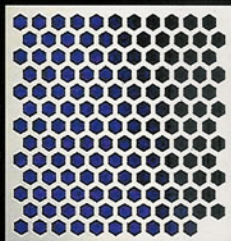
- 1- Constructed with angled linear bars attached to a frame.
- 2- 0, 15, and 30 degree deflection angles are available to direct the air in a desired direction. Grills on cabinets usually use a 15 degree angle, and return air grills usually use zero degrees.
- 3- Mounting style, thickness, and deflections are illustrated on pages 16-19.

Spindle:

- 1- Constructed from individual round spindles fastened to an outer angle. Frame is similar to the type B frame for bar grills.
- 2- These grills have zero degree deflection.
- 3- See page 13 for illustrations & details.



453 WEST 17TH ST.
NEW YORK, NY 10011
TEL 800-843-9237
FAX 212-243-7722



24-60 47TH ST.
ASTORIA, NY 11103
TEL 718-626-2233
email: www.wainlands.com

