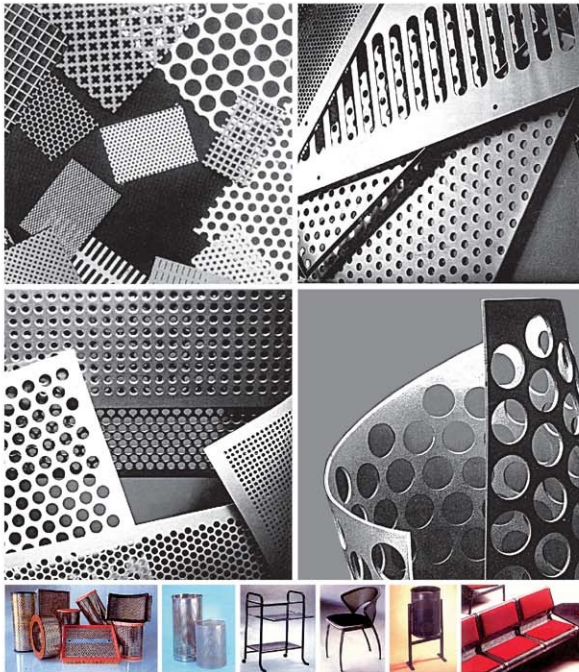




# PERFORATED METAL SCREENS



Unwelded and 1-Piece  
Stretched Expanded Metal Grating (Mesh)

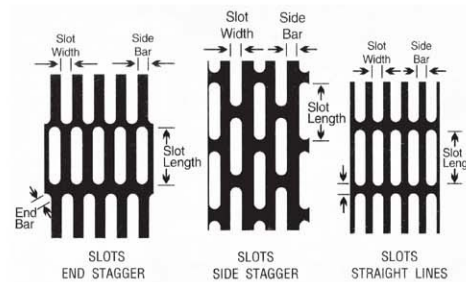
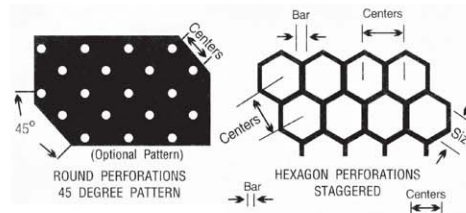
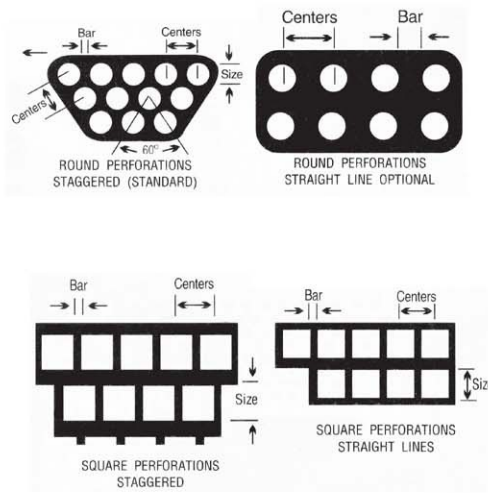
## Asian Streck Metals

Works: 35-36, Uppalwad Industrial Estate,  
Kamptee Road, Nagpur 440026  
City Office: Saraf Court, Opp. Yashwant Stadium,  
Dhantoli, Nagpur 440012  
Phones: Works - 0712-2640542,  
Office: 0712-2440350; Fax: 0712-2448156 / 2640542  
E-mail: info@saratbros.com, support@saratbros.com  
Visit us at - www.saratbros.com

### Application of Perforated Screens:

- Stone Crusher Screen
- Mines Screen
- Filters
- Cement Plants
- Power Projects
- Sugar Mills
- Furniture
- House-hold Appliances
- Building Equipments
- Agriculture & Food Machines

# HOLE PATTERNS



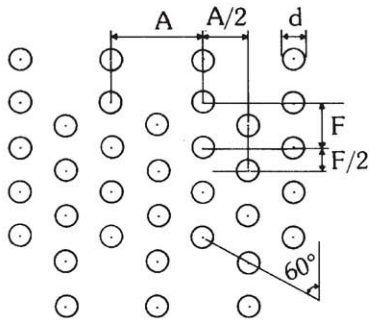
### PERFORATED SHEETS:

**Sheet thickness** from 0.30mm up to 10mm Hole dia from 0.5mm up to 80mm. Maximum width size up to 1300mm.

**MATERIALS** : MS, Brass, Copper, Zinc, Stainless Steel, Aluminium, Plastic.

# ROUND HOLES

## 60° STAGGERED



### 60° STAGGERED

Millimetre System Pitch 'F' in mm and Hole Dia also in mm

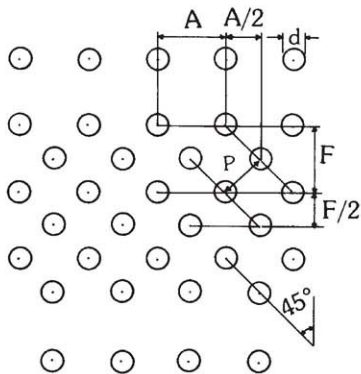
$$\text{Holes per square inch} = \frac{745}{F^2}$$

$$\% \text{ Open Area} = 0.122 \times \text{Hole per Sq. Inch} \times d^2$$

Or

$$\% \text{ Open Area} = 90.7 \times \left(\frac{d}{F}\right)^2$$

## 45° STAGGERED



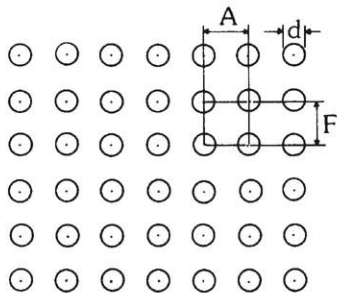
### 45° STAGGERED

45° Staggered

$$\text{Holes per Sq. Inch} = \frac{645}{P^2}$$

$$\% \text{ Open Area} = 0.122 \times \text{Holes per Sq. Inch} \times d^2$$

## STRAIGHT

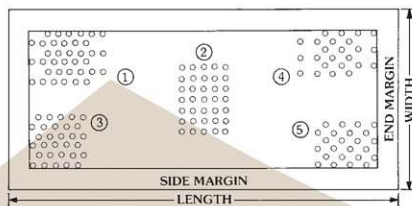


### STRAIGHT

Straight Pattern

$$\text{Holes per Sq. Inch} = \frac{645}{F^2}$$

$$\% \text{ Open Area} = 0.122 \times \text{Hole per Sq. Inch} \times d^2$$



### PERFORATION PATTERN

- (1) 60° Staggered Far Apart
- (2) Straight
- (3) 60° Staggered Close
- (4) 45° Staggered Far Apart
- (5) 45° Staggered Close

### NOTES

- (1) Customer to specify PERFORATION PATTERN in enquiry. We offer Close or Far Apart Layout depending upon Hole Dia, Pitch and Material Thickness.
- (2) We perforate 0.5 mm Dia to 75 mm Dia Holes
- (3) We perforate maximum 8mm thick plate.
- (4) We perforate Hole Dia equal to material thickness subject to distance between two holes.



Unwelded and 1-Piece  
Stretched Expanded Metal Grating (Mesh)

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Since 1962



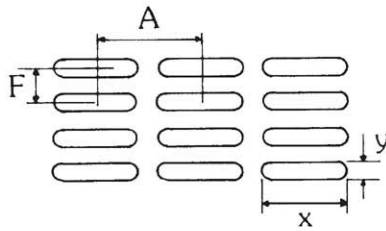
Unwelded and 1-Piece  
Stretched Expanded Metal Grating (Mesh)

### Asian Streck Metals

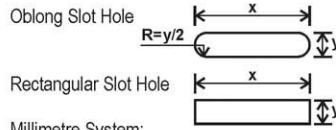
Works: 35-36, Uppalwad Industrial Estate,  
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# SLOT HOLES

## STRAIGHT



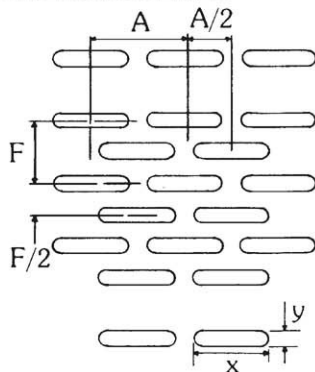
## STRAIGHT



$$\text{Holes per Sq. Inch} = \frac{645}{A \times F}$$

$$\% \text{ Open Area} = x \times y - \frac{0.215 \times x y^2}{A \times F} \times 100$$

## SIDE STAGGERED

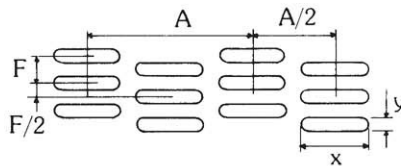


## SIDE STAGGERED

$$\text{Holes per Sq. Inch} = \frac{1290.3}{A \times F}$$

$$\% \text{ Open Area} = \frac{2 \times x \times x \times y - 0.43 y^2}{A \times F} \times 100$$

## END STAGGERED



## END STAGGERED

$$\text{Holes per Sq. Inch} = \frac{1290.3}{A \times F}$$

$$\% \text{ Open Area} = \frac{2 \times x \times x \times y - 0.43 y^2}{A \times F}$$

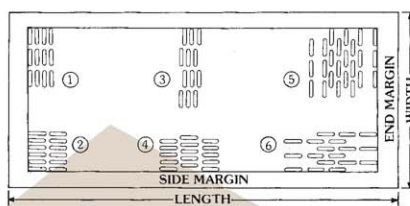
### NOTE

All above formulas are for Oblong Slot Holes.  
For Rectangular Slot Holes

(a)  $\% \text{ Open Area} = \frac{2 \times x \times x \times y}{A \times F} \times 100$   
(Staggered)

(b)  $\% \text{ Open Area} = \frac{2 \times x \times x \times y}{A \times F} \times 100$   
(Staggered)

(c) For Holes (Rectangular) per Sq. Inch, formulas are same as for Oblong Slots shown above for individual pattern.



## PERFORATION & PATTERN

- (1) Oblong Slot parallel to width
- (2) Oblong Slot parallel to length
- (3) Oblong Slot end staggered parallel to width
- (4) Oblong Slot end staggered parallel to length
- (5) Oblong Slot side staggered parallel to width
- (6) Oblong Slot side staggered parallel to length

### NOTES

- (1) Customer to specify PERFORATION PATTERN in enquiry.
- (2) We offer Slot length fro 6mm to 75mm and Width from 0.5mm to 25mm or as per requirement.
- (3) We perforate slots having width of slot lesser than material thickness.

Since 1962



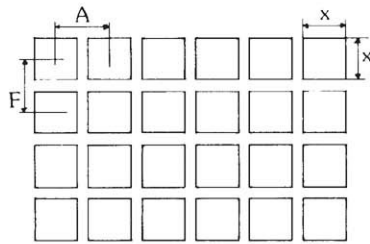
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# SQUARE HOLES

## STRAIGHT

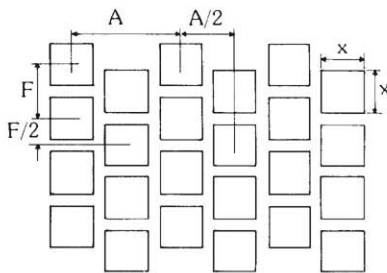


## STRAIGHT

$$\text{Holes per Sq. Inch} = \frac{645}{A \times F}$$

$$\% \text{ Open Area} = \frac{100 \cdot x^2}{F^2}$$

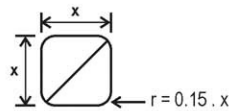
## STAGGERED CLOSE



## STAGGERED CLOSE

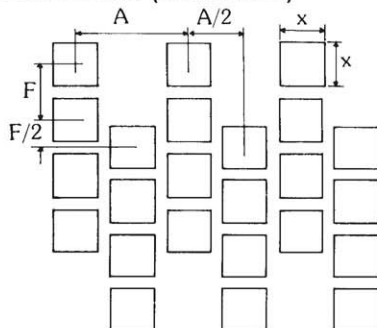
For Square Holes having Radius

$$r = 0.15 \cdot x$$



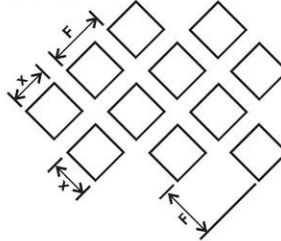
$$\% \text{ Open Area} = \frac{100 \cdot x^2}{F^2}$$

## STAGGERED (FAR APART)



## STAGGERED (FAR APART)

### DIAMOND



## NOTE

Formula for Percentage Open Area & Holes per Sq. Inch. For all above patterns of Square & Diamond, Perforation is common.

## NOTES

- (1) Clients to specify perforation pattern during enquiry. We offer close or far apart layout depending upon hole size, pitch and material thickness.
- (2) Clients to specify if radius at corners required.
- (3) We perforate square holes from 3mm to 75mm size.

## PERFORATION PATTERN

- (1) - Staggered parallel to width close
- (2) - Staggered parallel to length close
- (3) - Straight
- (4) - Diamond
- (5) - Staggered parallel to width far apart
- (6) - Staggered parallel to length far apart

