

# SHS

## Perforated Materials Inc.

**APPLICATIONS :**

**Agricultural**

**Architectural**

**Automotive**

**Bakery**

**Electronics**

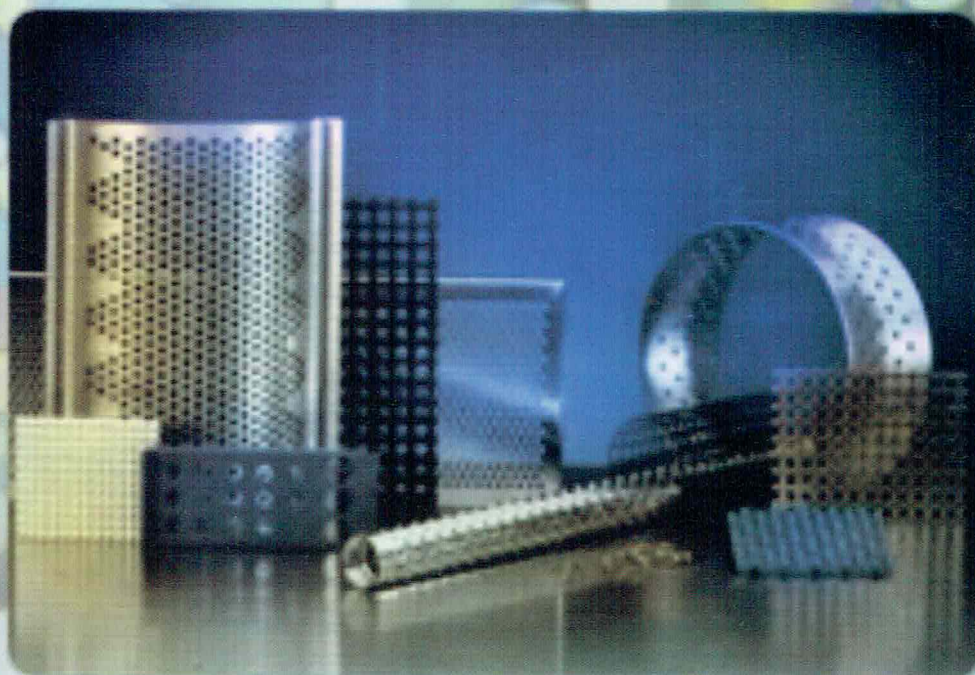
**Hygiene**

**Miscellaneous**

**Sheet Metal  
Fabricator**

through thick

and thin



**Quality  
Innovation  
Expertise**



# LENGTH GRADER

## FEATURES :

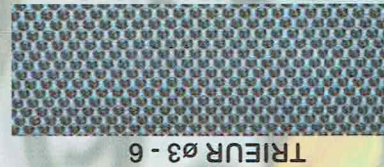
- Compact construction
- Precise adjustment in small range
- Steady performance
- Easy to operate
- Low maintenance
- Energy efficient

MODEL	CYLINDER DIMENSIONS		OVERALL DIMENSIONS		CAPACITY (TPH)	SPEED (RPM)	POWER (HP)
600/3000/3	300 mm	3200 mm	1500 mm	4555 mm	1000	1200	0.33 HP

## AVAILABLE INDENTED DIAMETER OF TRIEUR SHEETS

DIAMETER (Ø)	DEPTH
2.00 - 3.5	2.3 - 2.5 mm
4.00 - 4.5	3 mm
4.75 - 6.5	3 mm
8.5 - 10.00	4 mm

## TRIEUR SHEETS



TRIEUR Ø3 - 6



TRIEUR Ø3.5 - 6



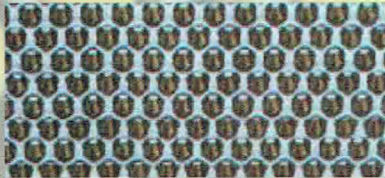
TRIEUR Ø5.25 - 8



TRIEUR Ø7 - 11



TRIEUR Ø4 - 6.5



TRIEUR Ø4.5 - 7

\*Perforations shown in the figures are not the actual size. Since all possible

perforations cannot be shown, we request for the DIN-numbers for the desired perforation or attach a drawing for inquiry. Stamping and other perforation can be made based on special arrangement. For further information please visit us on:

[www.shs-perforated.com](http://www.shs-perforated.com) or email us on : [shs@shs-perforated.com](mailto:shs@shs-perforated.com)



# STANDARD PERFORATIONS

## ROUND HOLES 60° STAGGERED

Rv 2.1 - 3.5 ao approx. 32%



Rv 3.1 - 4 ao approx. 54.5%



Rv 4 - 6 ao approx. 40.3%



Rv 5 - 8 ao approx. 36.8%



Rv 6 - 8 ao approx. 51%



Rv 10 - 13 ao approx. 53.7%



Rv 15 - 22 ao approx. 42.1%



Rv 30 - 45 ao approx. 40.3%



## ROUND HOLES 45° DIAGONAL

Rd 2.5 - 4 ao approx. 30.6%



Rd 3.2 - 5.02 ao approx. 31.89%



Rg 4 - 10.5 ao approx. 11.4%



Rg 8 - 21 ao approx. 11.4%



## ROUND HOLES STRAIGHT

Rg 5 - 14 ao approx. 10%



Rg 8 - 17.5 ao approx. 16.4%



Rg 10 - 15 ao approx. 34.8%



Rg 12 - 25 ao approx. 18%

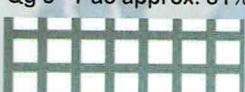


## SQUARE HOLES STRAIGHT

Qg 3 - 5 ao approx. 36%



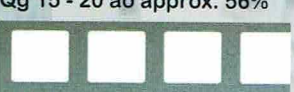
Qg 5 - 7 ao approx. 51%



Qg 8 - 10 ao approx. 64%

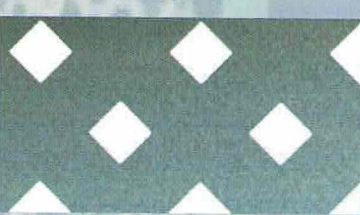


Qg 15 - 20 ao approx. 56%

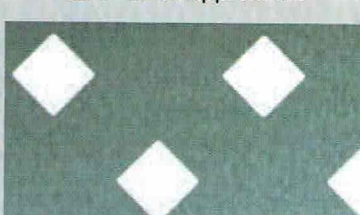


## SQUARE HOLES 45° DIAGONAL

Qd 10 - 25 ao approx. 16%



Qd 8 - 20 ao approx. 6%

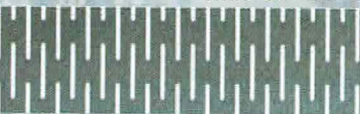


Qd 15 - 35 ao approx. 18.36%



## SLOT HOLES STAGGERED

Lv 0.8 x 10 - 3 x 14mm ao =18%



Lv 5 x 25 - 9 x 31mm ao =42%

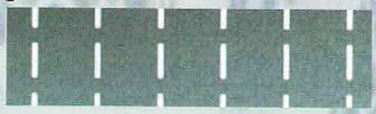


Lv 10 x 35 - 18 x 43mm ao =42%



## SLOT HOLES STRAIGHT

Lg 1.25 x 10 - 13.75 x 14 mm ao =6%



Lge 5 x 10 - 8 x 13mm ao =48%



Lge 4 x 21 - 8 x 25mm ao =42%



## STAMPING



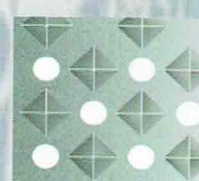
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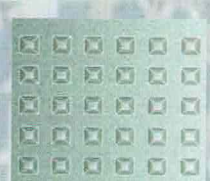
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No. 171



No. 172



No. 173

## SPECIAL PERFORATION





# BAKERY PRODUCTS

## BAKING TRAYS

DESCRIPTION	WIDTH	DEPTH
FULL	26"(66 CM)	18" (46 CM)
TWO THIRDS	21"(53 CM)	15" (38 CM)
HALF	18"(46 CM)	13" (33 CM)
QUARTER	13" (33 CM)	9" (23 CM)

## PERFORATION PATTERNS

STRAIGHT, DIAGONAL 45°, STAGGERED 60°

## BAGUETTE TRAYS

SIZES: (MILLIMETER)

600x400, 660x460,

760x460, 800x600

CHANNELS: 5, 6, 7, 8,

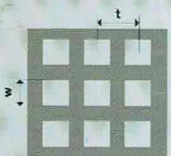
9 or 12

WE ALSO MAKE CUSTOMISED SIZES AND CHANNEL BASED ON CLIENTS REQUIREMENTS. THERE ARE NO LIMITS TO YOUR IMAGINATION AND THE RESULTS ARE USUALLY AS UNUSUAL AS THEY ARE ATTRACTIVE.

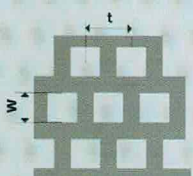
**THE MORE IMPOSSIBLE THE TASK, THE GREATER THE EFFORT WE TAKE.**

## Formulas determining the open area percentage of perforation

SQUARE HOLES STRAIGHT

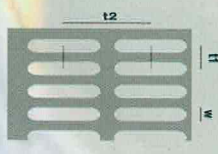


SQUARE HOLES STAGGERED

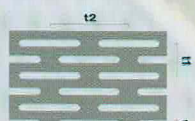


$$ao = \frac{100 \times w^2}{t^2} \text{ in}\%$$

SLOT HOLES STRAIGHT

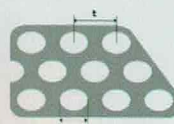


SLOT HOLES STAGGERED



$$ao = \frac{w \times t1 - 0.215 \times w^2}{t1 \times t2} \times 100 \text{ in}\%$$

ROUND HOLES 60° STAGGERED



$$ao = \frac{90.7 \times w^2}{t^2} \text{ in}\%$$

ROUND HOLES STRAIGHT



$$ao = \frac{78.5 \times w^2}{t^2} \text{ in}\%$$

Terminology :

Lv - slot staggered

Lg - slot straight

Rd- Round holes 45° diagonal

Rg - Round holes straight

Rv - Round holes 60° staggered

Qg - Square holes straight

Qd - Square holes 45° diagonal

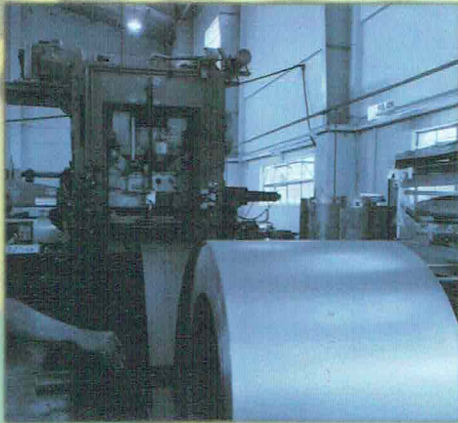
Qv - Square holes staggered



# About Us

**SHS Perforated Materials, Inc.** is a PEZA registered Eco zone export enterprise engages in manufacture of perforated sheets and coils in different materials such as metal, PVC, non-metals, wooden materials and composite sheets like aluminium composite panels. Also fabricate stainless steel drainage system like drain channels, grating covers, spot drains and shower drains.

**SHS Perforated Materials, Inc.** is a subsidiary of German company SHS Lochbleche Butzbach GmbH, which has more than 100 years of experience in perforation, tool and die making and fabrication. Machineries and equipment's of factory all came from Germany.



A broadly based range of machinery for standard and customized products for several and individual production which enables SHS to meet market requirements.

Customers will certainly benefit from the unique perforations and durable steel drainage solutions at a very reasonable price.

**SHS Perforated Materials** produces and processes perforated sheets, panels, round blanks, and coils in different materials.

- MILD STEEL
  - ALUMINIUM
  - COPPER
  - STAINLESS STEEL
  - TITANIUM
  - PLASTICS
- OR BY YOUR REQUEST

Thickness of 0.05 mm up to 20 mm and hole widths of 0.6 mm up to 160 mm. In principle, we produce any technical feasible hole in nearly all material, because we have a large variety of machines and tooling.



## Quality Policy and Objective

**SHS Perforated Material, Inc.** Engage in manufacturing of perforated materials in sheet and coil committed to produce high quality products at reasonable cost.

We as a team are bound to comply to QMS requirements of ISO 9001:2008 that will guide us to exceed customer satisfaction.

Quality Products, Services, through teamwork, cooperation and support each Departmental Goals for continual improvement to attain:

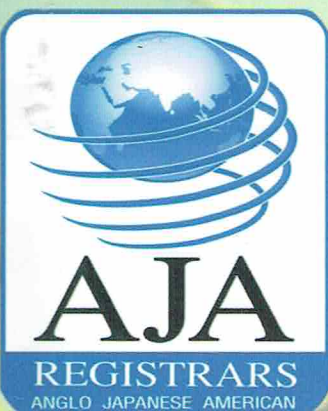
- ◆ 100 % on time delivery
- ◆ Achieve zero Customer Complain

All SHS employees are committed to abide continuous improvement guided by all the rules, policy and objectives.

SHS Perforated Materials, Inc. is proudly **ISO 9001 - 2008 certified.**

Certification body : AJA (Anglo Japan American)

Certification Number : AJA13.0715

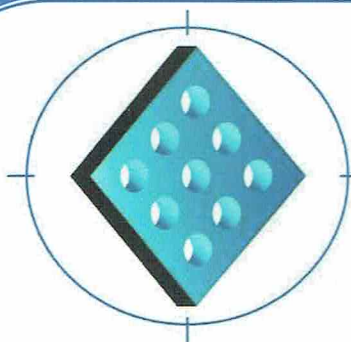
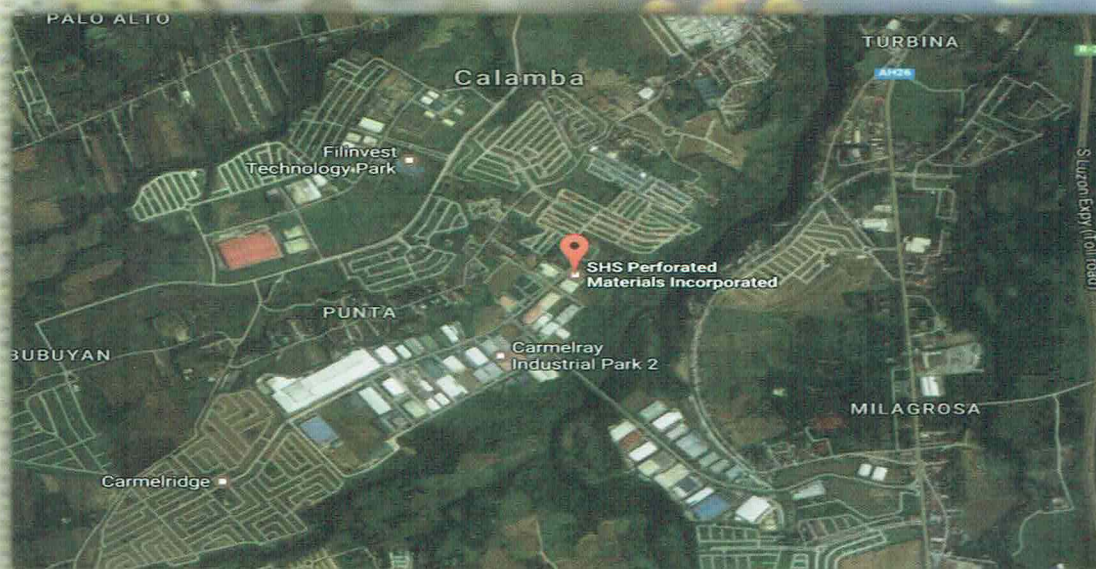


**CERTIFIED**

**ISO 9001 - 2008**



# more than 100 years of expertise



## SHS

**Perforated Materials Inc.**  
through thick  
and thin

**Carmelray Industrial Park II, Barangay Punta,  
Calamba City Laguna 4027, Philippines**

**Visit us on:**

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