

data sheet

Product Description

Au•diPanel offers our widest selection of perforation options (from 4.5mm to 12mm holes) and a choice of substrates. Combined with our range of decorative surface finishes and our Integrated Acoustic Backing (IAB), Au•diPanel lends itself to tailoring for specific appearance or acoustic performance requirements.

Product Features

- Standard range of pre-finished timber grain and decorative surfaces, refer to Au•diImage, Section 12
- Largest selection of perforation patterns
- Panel sizes up to 3600 x 1200mm (MDF substrates)
- Veneers can be nominated to co-ordinate with other timber building elements or furnishings
- Higher impact-resistance obtained with plywood panels

Variations

- Choice of plywood or MDF substrates
- Optional face veneer to your specifications
- Range of standard perforation patterns or custom patterns (consult Atkar Technical Staff)
- Range of standard side and end margins or custom margins (consult Atkar Technical Staff)
- Edge profiling and face detailing of panels available to specification
- Integrated Acoustic Backing (IAB)

Jointing Options

- Vee Joint
- Expressed Joint
(Where expressed joints are selected, allowance should be made for dressing of panel edges)
- Cover Mould

Material Sizes

Au•diPanel is available uncoated or pre-finished in our select range of decorative surface finishes in the following sizes. For non-standard sizes, consult Atkar Technical Staff.

Natural timber veneers in lengths over 2400mm are limited and subject to current availability.

MDF Sizes	6.0mm	7.5mm	9.0mm	12.0mm	16.0mm	18.0mm
3600 x 1200mm	•	•	•	•	•	•
2700 x 1200mm			•	•	•	•
2400 x 1200mm	•	•	•	•	•	•
1800 x 1200mm		•	•	•	•	•
2400 x 900mm			•	•	•	•
1800 x 900mm			•	•	•	•

Plywood Sizes Some grades – imperial sizes only	6.0mm	9.0mm	12.0mm	16.0mm	18.0mm
2700 x 1200mm	○	○	○	○	○
2400 x 1200mm	•	•	•	•	•
1800 x 1200mm	•	•	○	○	•
2700 x 900mm	○	○	○	○	○
2400 x 900mm	○	○	○	○	○
1800 x 900mm	•	•	○	○	•

- Ex-stock sizes
- Manufactured to order, lead times and minimum quantities apply

Perforation Patterns

Available with hole sizes ranging from 4.5mm to 12.0mm diameter in a selection of patterns as detailed below. Diversity of perforation options allow for open area of panel to range from 2.5% up to 36% nominally.

For custom patterns consult Atkar Technical Staff.

Open Area Guide

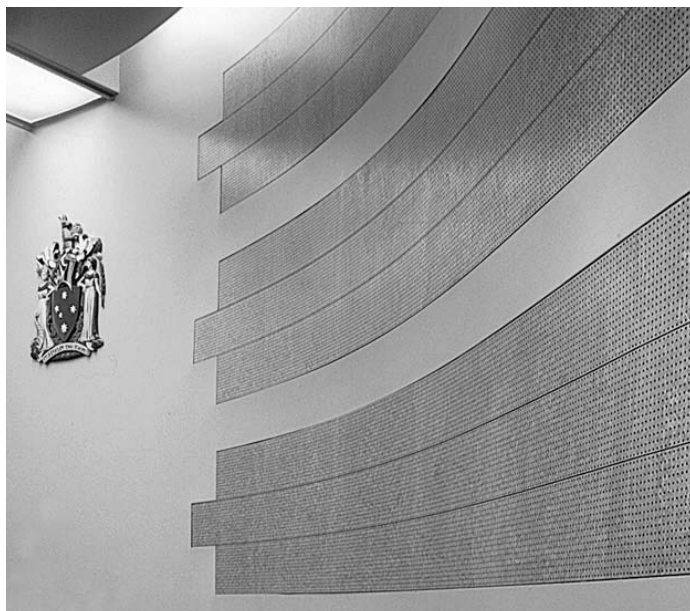
Diameter mm	Code	Type AP125S	Type AP125D	Type AP250S	Type AP250D
		4.5	45	10.2%	20.4%
6.0	60	18.1%	36.2%	4.5%	9.1%
7.0	70	24.6%		6.2%	12.3%
9.0	90			10.2%	20.4%
10.0	100			12.6%	25.1%
12.0	120			18.1%	35.5%

Illustrated below are the standard perforation patterns available for full sheets. All measurements are in mm and shown to perforation centres.

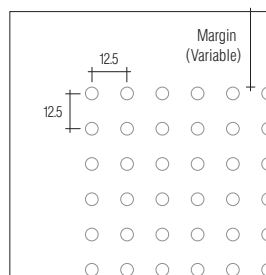
Insert perforation diameter code at end of Product Type. Example Type AP125S/60, is Au•diPanel type 125S with 6.0mm perforations.

Refer to Au•diPanel Data Sheets 3.4 – 3.20 for Full Scale Pattern Illustrations.

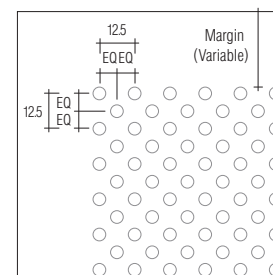
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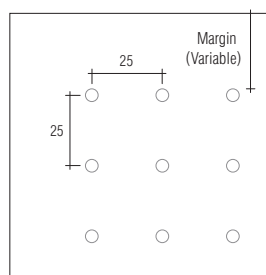
Product Type AP125S



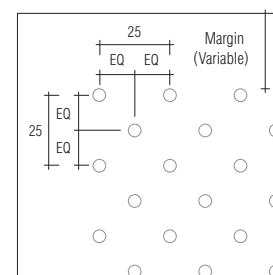
Product Type AP125D



Product Type AP250S



Product Type AP250D



Margin Options

Unperforated perimeter margins are available as detailed on the right. Larger margins are calculated by multiplying the increment between 2 of the given options. For non-standard margins or options marked with an asterisk*, please consult Atkar Technical Staff.

Standard Margins (measured to centre of perforation)	Side Margin (Approximate)			End Margin (Approximate)		
	For 1200mm Wide Sheet			For 2400mm Long Sheet		
Product Type AP125S	9mm*	34mm	59mm	12mm*	22mm	28mm
Product Type AP125D	31mm	56mm	81mm	12mm*	19mm	25mm
Product Type AP250S	15mm*	40mm	65mm	12mm*	22mm	28mm
Product Type AP250D	9mm*	34mm	59mm	12mm*	25mm	37mm


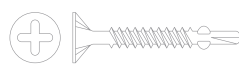
*Subject to edge break-out with some substrates/perforation patterns

Installation Details

The following table provides a fixing guide for general residential and commercial applications.

Consideration should be given to reduced framing centres for higher impact areas such as corridors and crowded spaces, or where surfaces are to be curved. Au-diPanel wall panels should be installed with a full perimeter support and plywood ceiling panels must have the face grain running at right angles to framing members. If panels are to be

face fixed, timber framing members are recommended to enable more discrete fixings to be used. To minimise the risk of buckling, it is recommended that the panels be allowed to acclimatise in the area in which they are to be installed. This is best achieved by standing individual panels loosely around the room and allowing air to freely circulate around them for several days prior to fixing. Allowance should be made between panels to accommodate swelling and building movement.

Material Thickness (mm)	Maximum Framing Centres (mm)	Fastener Centres Perimeter (mm)	Fastener Centres Intermediate (mm)	Expansion Joints Required	Fastener Type (Both are suitable for MDF and Ply applications)
MDF		Walls and Ceilings		No	Timber Flat Head Nail, example 40 x 2.0mm Panel Pin 
9.0	450	200	300		
12.0 – 18.0	600	200	300		
Other *					
Ply		Walls		No	Steel 0.6 – 1.2mm HD 8/22, 8/30, 8/40 depending on panel thickness 
6.0	450	150	200		
		Ceilings			
6.0	600	150	200		
		Walls and Ceilings			
9.0 – 12.0	600	200	300		
16.0 – 25.0	600	300	400		

General fixing guide only, for interior applications, consult Atkar Technical Staff for full details.

* For other thicknesses consult Atkar Technical Staff.

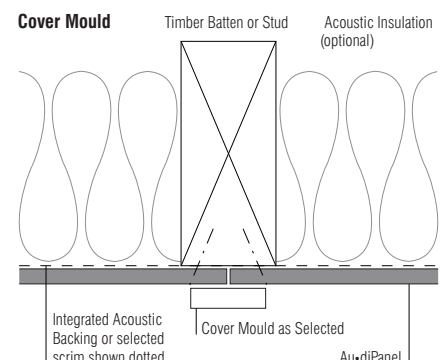
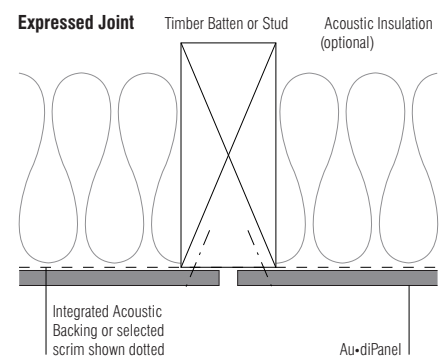
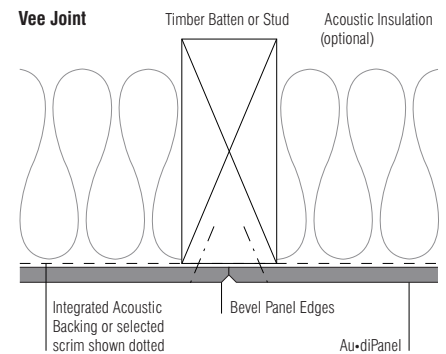
Attention – The method of fixing indicated for this product is of a general nature only and does not allow for specific design criteria such as wind loads, expansion joints or any other special design requirements which should be separately provided for by the specifier.

Due to continual product improvement the information in this publication is subject to alteration without notice.

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Jointing Details



The following Draft Specification contains sections of italicised text where the specifiers input is required.

Text identified with an asterisk* requires the non-applicable wording to be struck out or deleted. Text containing '.....' requires the specified information to be inserted.

1.0 General

1.1 Scope

Materials listed below to be supplied and installed to all areas detailed on drawings, or otherwise quantified.

1.2 Qualifications

Installation shall comply with the relevant building codes using approved fixings and the work executed by competent tradesmen.

1.3 Storage of Materials

All materials delivered to site shall be stored flat in an enclosed shelter, providing protection from damage and exposure to the elements. Damaged or deteriorated material shall be immediately removed from site.

2.0 Product

Important: Where acoustic performance is required, add 'IAB' after product type in clause 2.1 and include paragraph 2.2 in project specification.

2.1 Panels

*Ceiling/wall** panels shall be Au·diPanel type (insert code) IAB* clean drill perforatedmm thick MDF/plywood by Atkar, telephone 03 9796 3333, with amm clear border to the perimeter.

Panels shall be

a)* *Pre-finished with Atkar Au·diImage.....(design) decorative surface finish and(style) edge with(design) finish.*

b)* *Veneered with(type veneer) laminated to the exposed face/face and edges* of the panel and pre-finished with(type of coating).*

c)* *Site painted as nominated in finishes schedule.*

2.2 Acoustic Treatment

1/. *IAB (Integrated Acoustic Backing)* Panels shall be supplied with Atkar Integrated Acoustic Backing (IAB) and conform to Acoustic Test Report No. A03RMST1.

2/. *Insulation* - Optional

(Insert details of additional bulk insulation here, if required)

3.0 Execution

Alternative 1 (Concealed fixed walls with expressed joints)
Wall panels are to be mounted using the Au·diMount XJ1 system. Expressed joint component AXV09/AXH06 to be finished with Au·diImage(design) decorative surface to match/contrast with the panel finish. Expressed joints to bemm wide.

Alternative 2. (Concealed fixed walls)

Wall panels to be mounted using the ATKAR concealed fix system BJ2.

Alternative 3. (Exposed Fixings)

Wall studs/battens/furring channels shall be installed atmm centres and allow for full perimeter support of all wall panels. Panels to be fixed withtype of fastener atmm centres around perimeter of panel and atmm centres within the body of the panel. Panels shall be installed *with a nominal perimeter clearance and(type and size) cover strap over all joints/with amm size expressed joint to all sides/vee jointed and butted together.*

Alternative 4. (Exposed fixed walls and ceilings)

*Wall studs/battens/furring channels** shall be installed atmm centres and allow for full perimeter support of all wall panels. Ceiling panels must be installed with face grain at right angles to framing members and all panels to be acclimatised according to manufacturer's recommendation prior to installation. Panels to be fixed withtype of fastener atmm centres around perimeter of panel and atmm centres within the body of the panel.

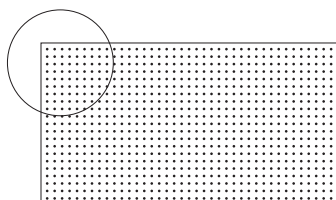
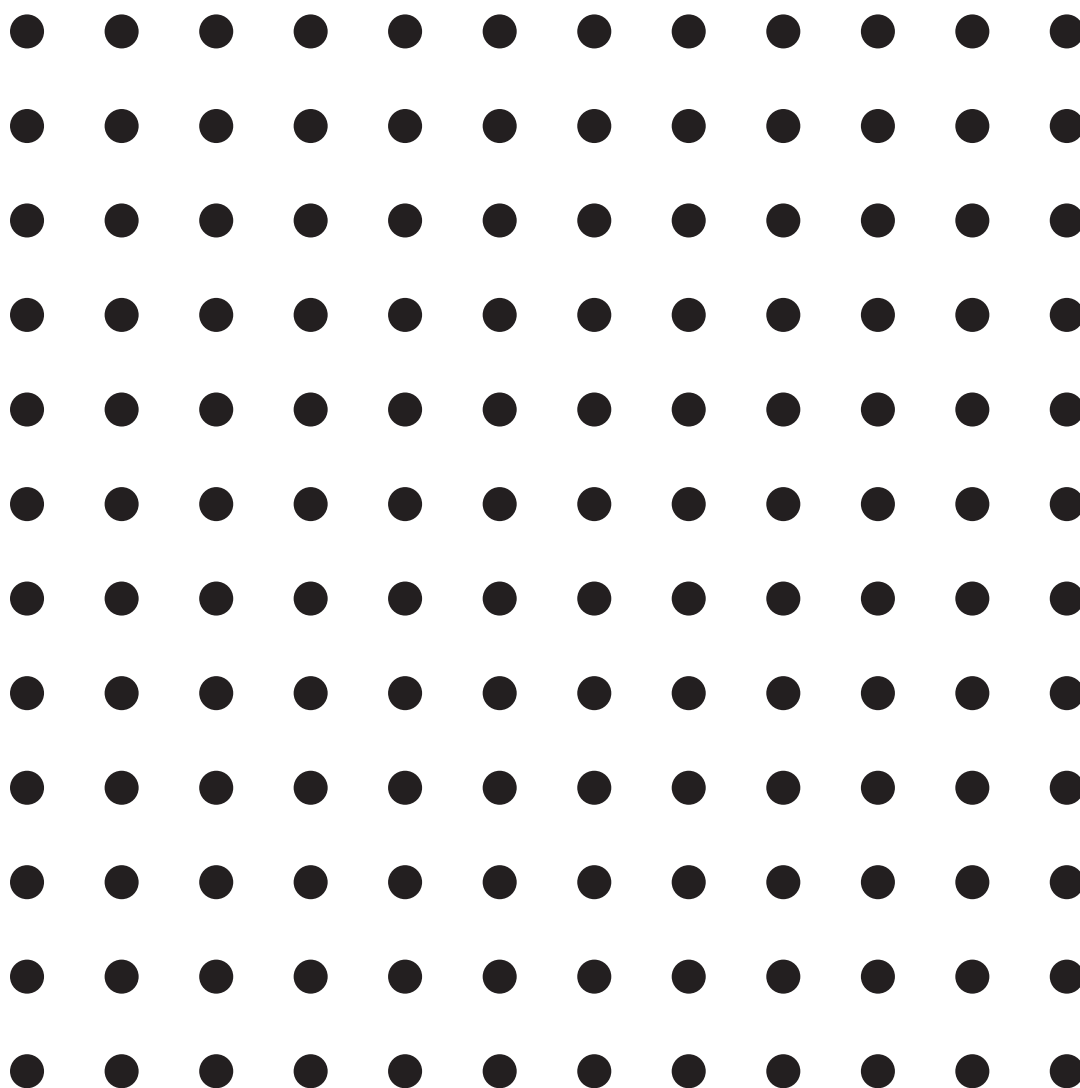
4.0 Completion

Upon completion of the installation, check that all panels and cover moulds (if applicable) are securely fastened to their framing members and all fixings are properly installed and finished.

full scale pattern illustration

3.4

product type AP125S/45
open area 10.2%



Refer to Au•diPanel Data Sheets for product options.

This pattern illustration is representative only of an Au•diPanel panel and is not intended to indicate margins or surface finish. Specific data regarding these details is available on request.

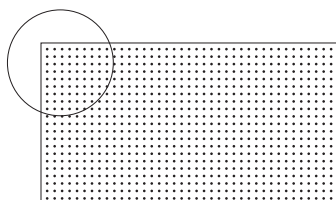
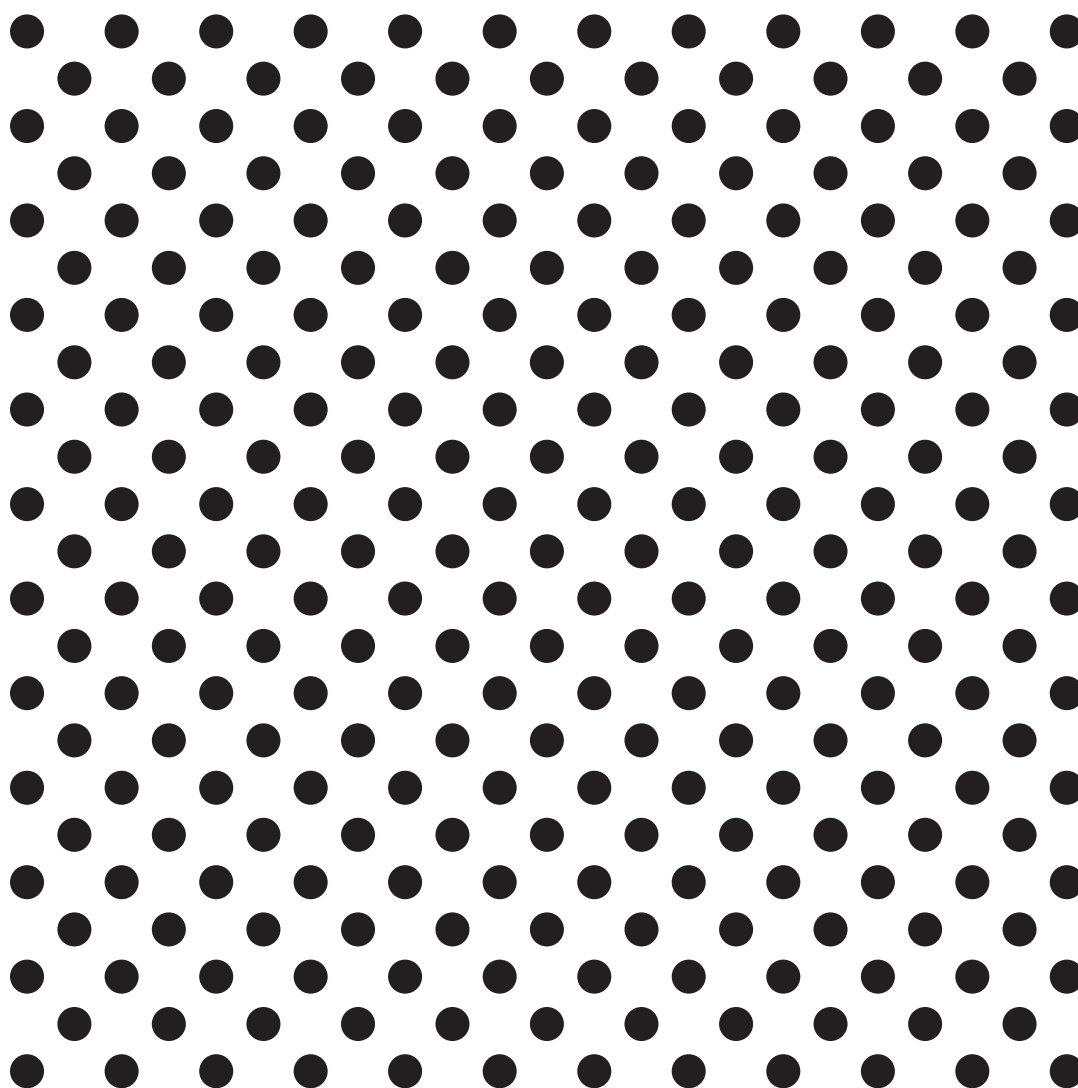
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full scale pattern illustration

3.5

product type AP125D/45
open area 20.4%



Refer to Au•diPanel Data Sheets for product options.

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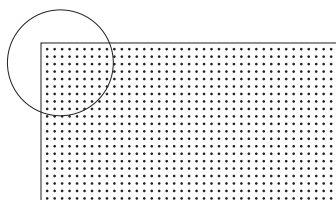
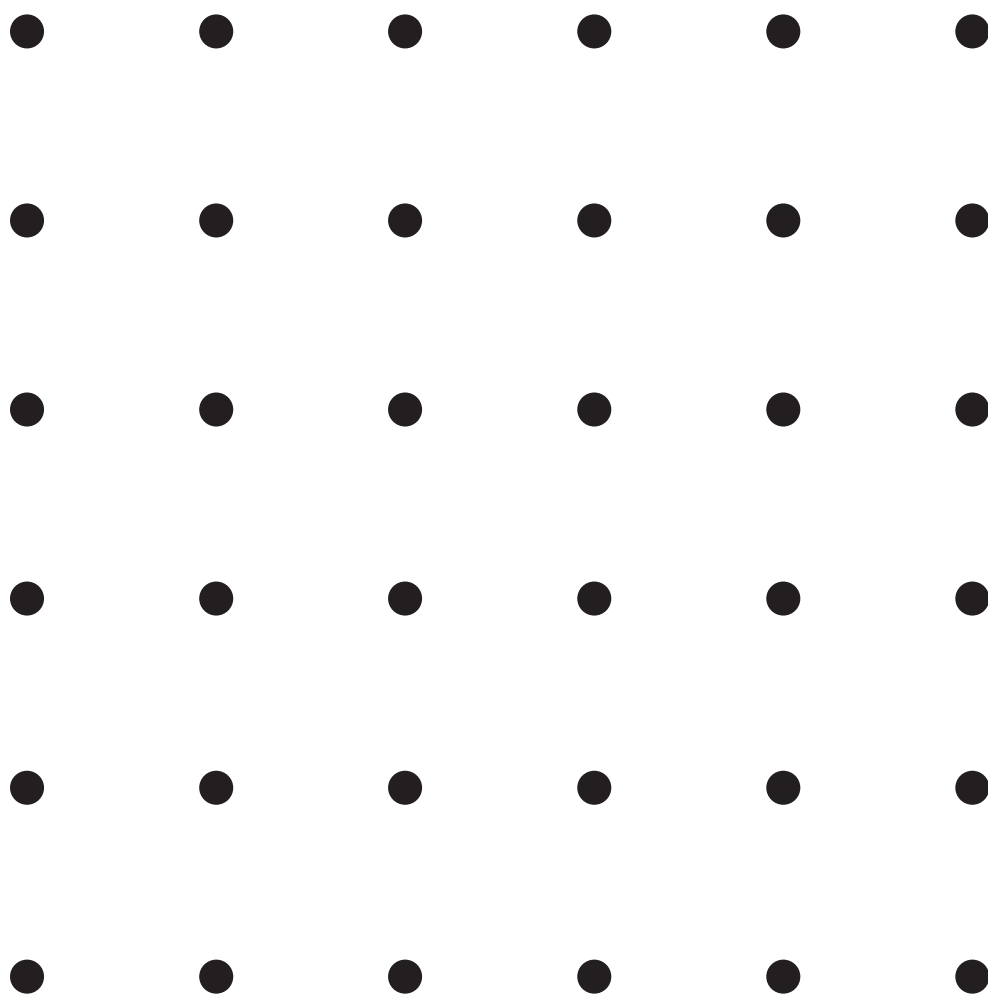
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full scale pattern illustration

3.6

product type AP250S/45
open area 2.5%



Refer to Au•diPanel Data Sheets for product options.

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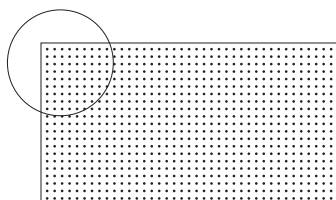
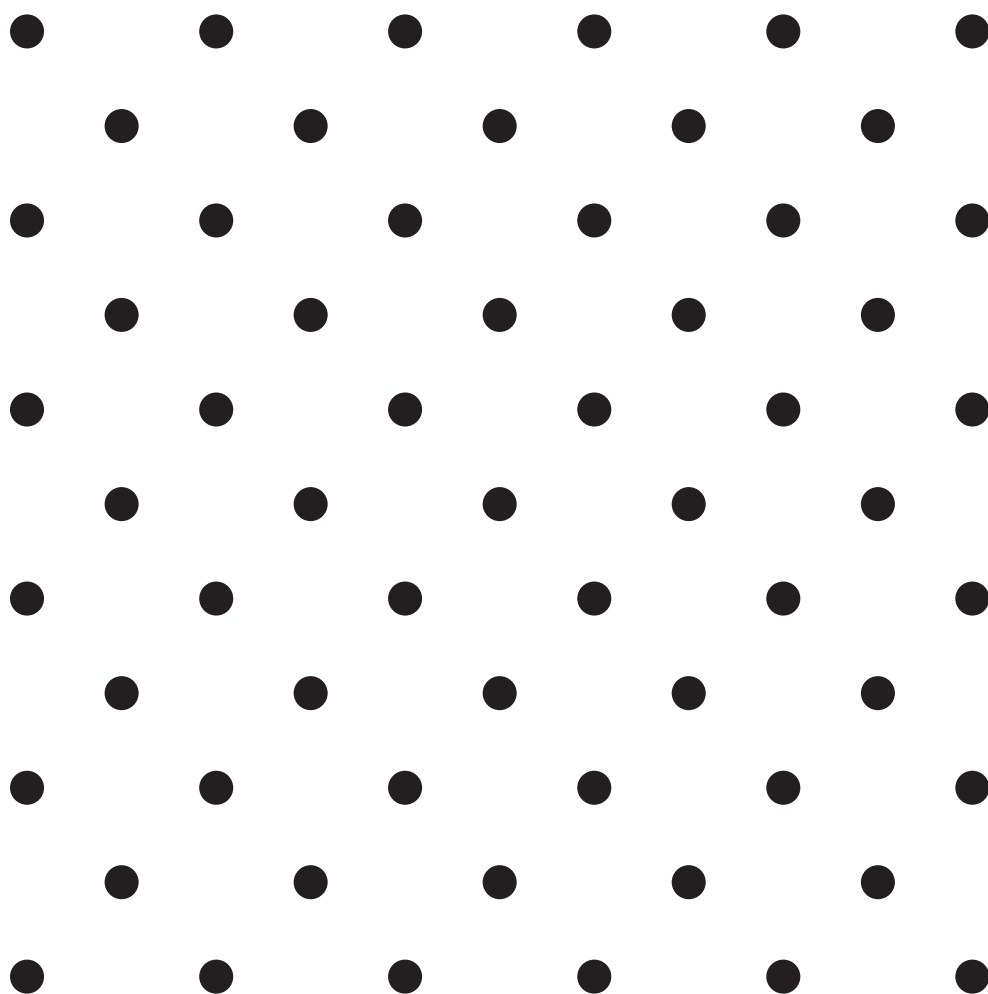
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full scale pattern illustration

3.7

product type AP250D/45
open area 5.1%



Refer to Au•diPanel Data Sheets for product options.

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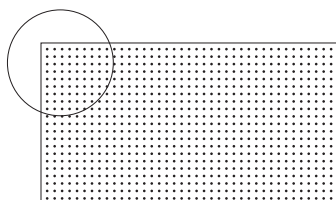
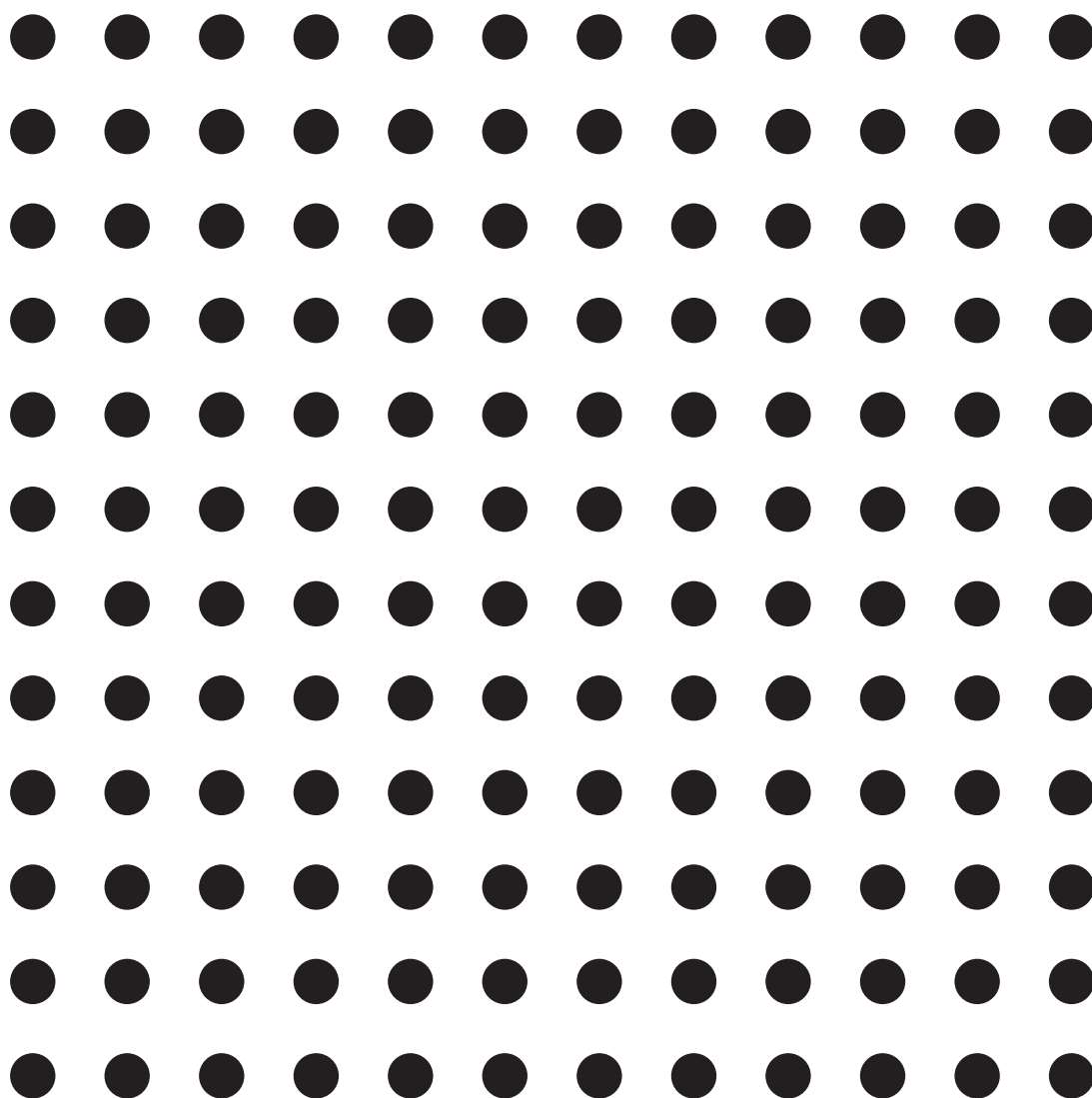
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full scale pattern illustration

3.8

product type AP125S/60
open area 18.1%



Refer to Au•diPanel Data Sheets for product options.

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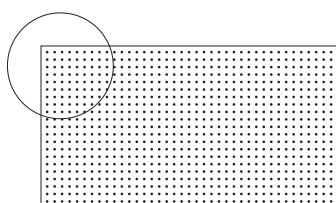
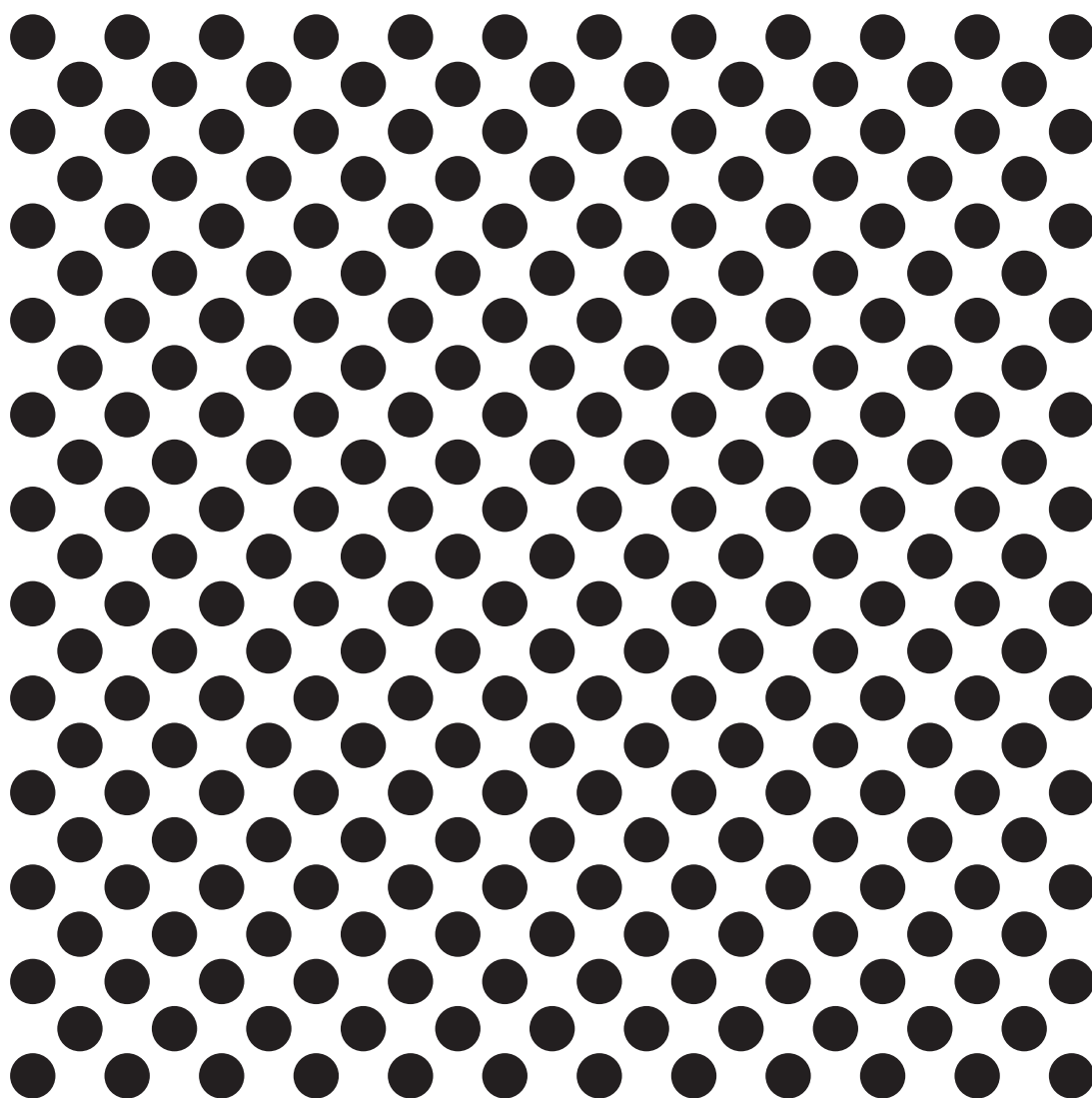
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full scale pattern illustration

3.9

product type AP125D/60
open area 36.2%



Refer to Au•diPanel Data Sheets for product options.

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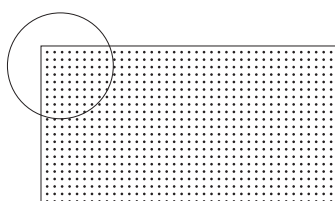
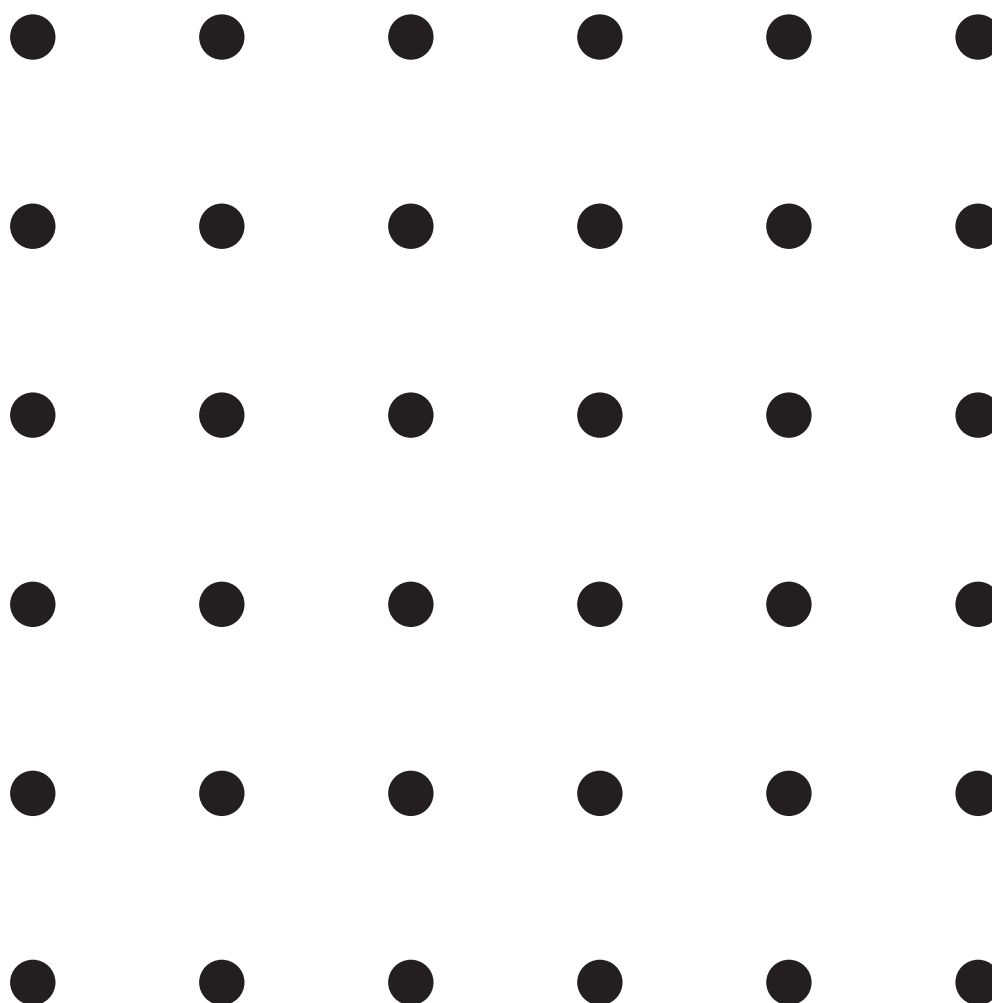
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full scale pattern illustration

3.10

product type AP250S/60
open area 4.5%



Refer to Au•diPanel Data Sheets for product options.

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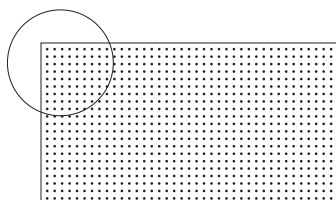
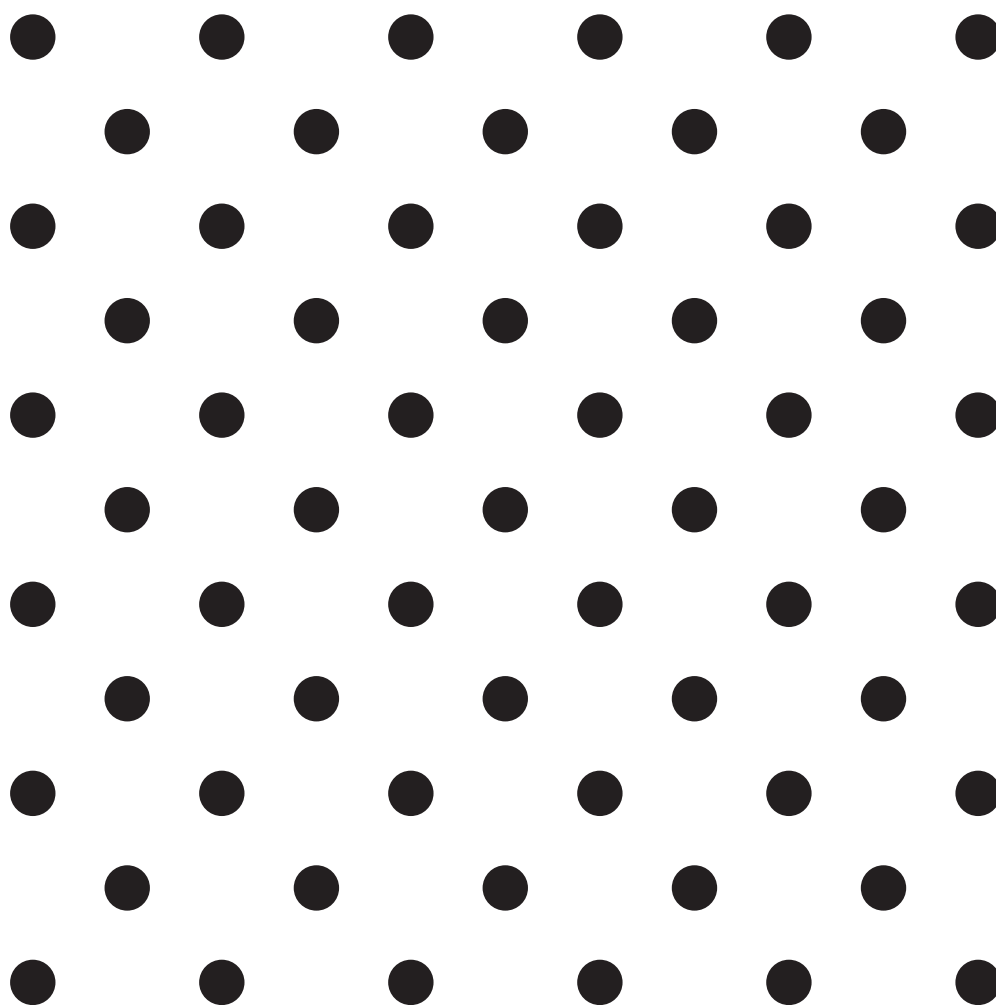
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full scale pattern illustration

3.11

product type AP250D/60
open area 9.1%



Refer to Au•diPanel Data Sheets for product options.

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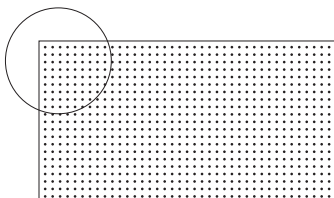
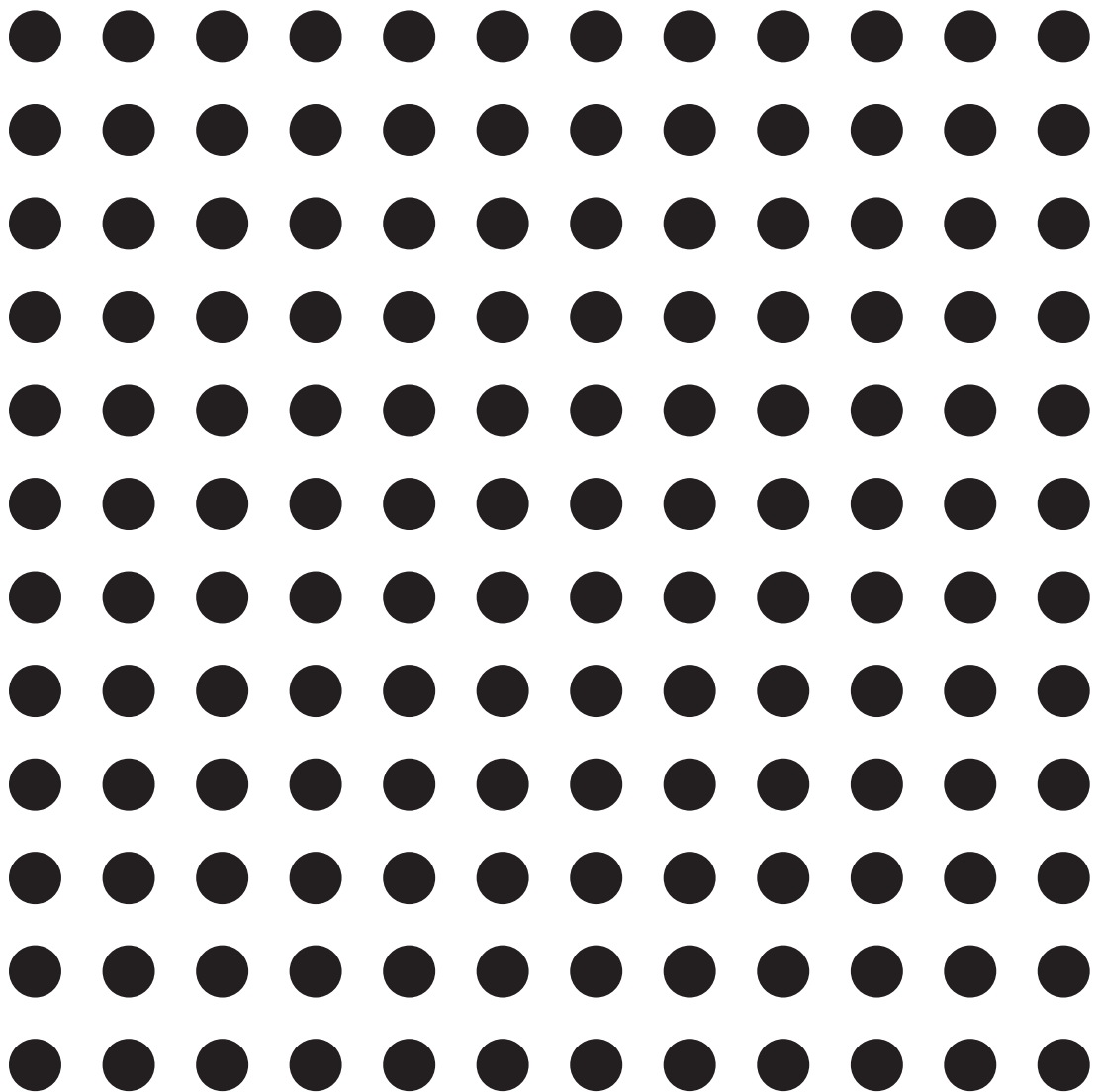
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full scale pattern illustration

3.12

product type AP125S/70
open area 24.6%



Refer to Au•diPanel Data Sheets for product options.

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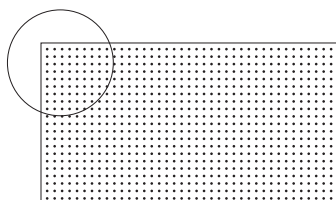
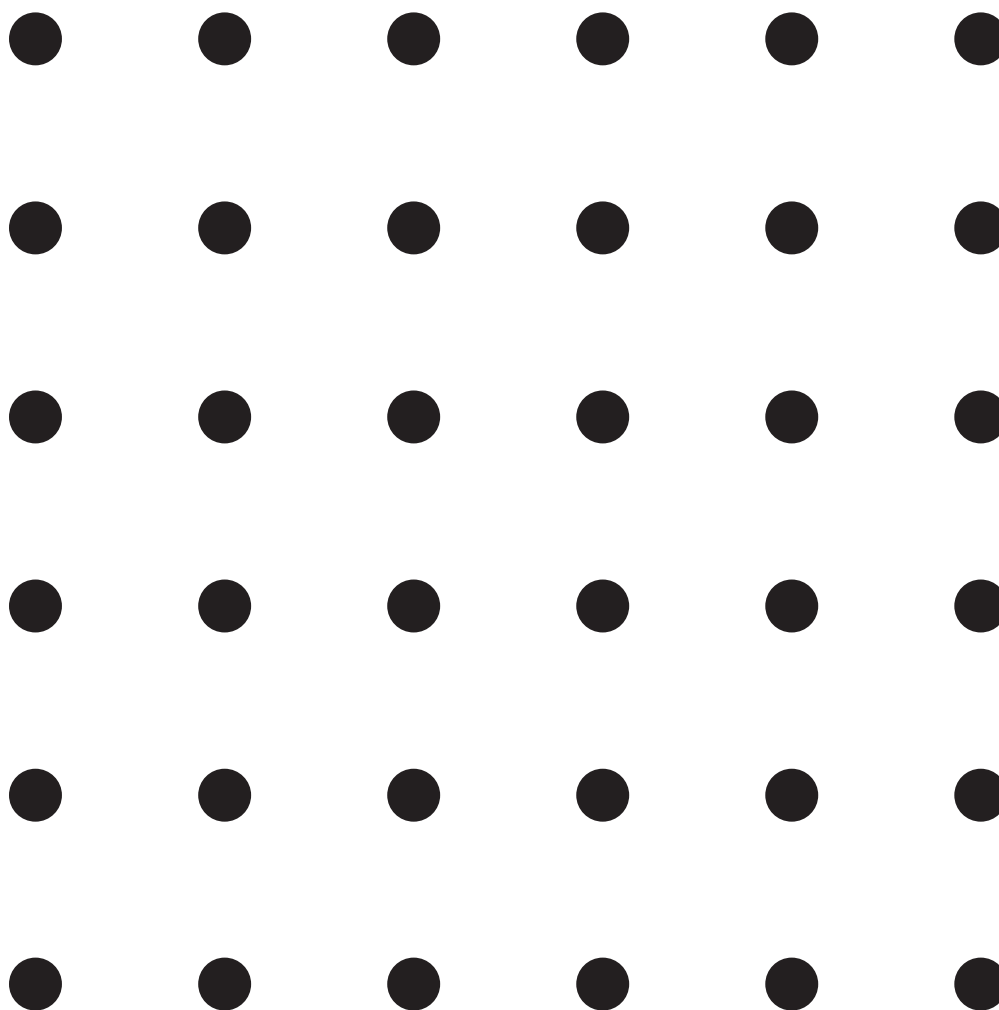
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full scale pattern illustration

3.13

product type AP250S/70
open area 6.2%



Refer to Au•diPanel Data Sheets for product options.

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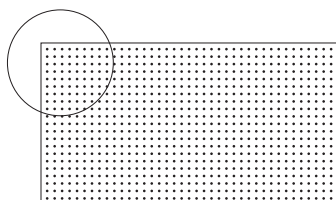
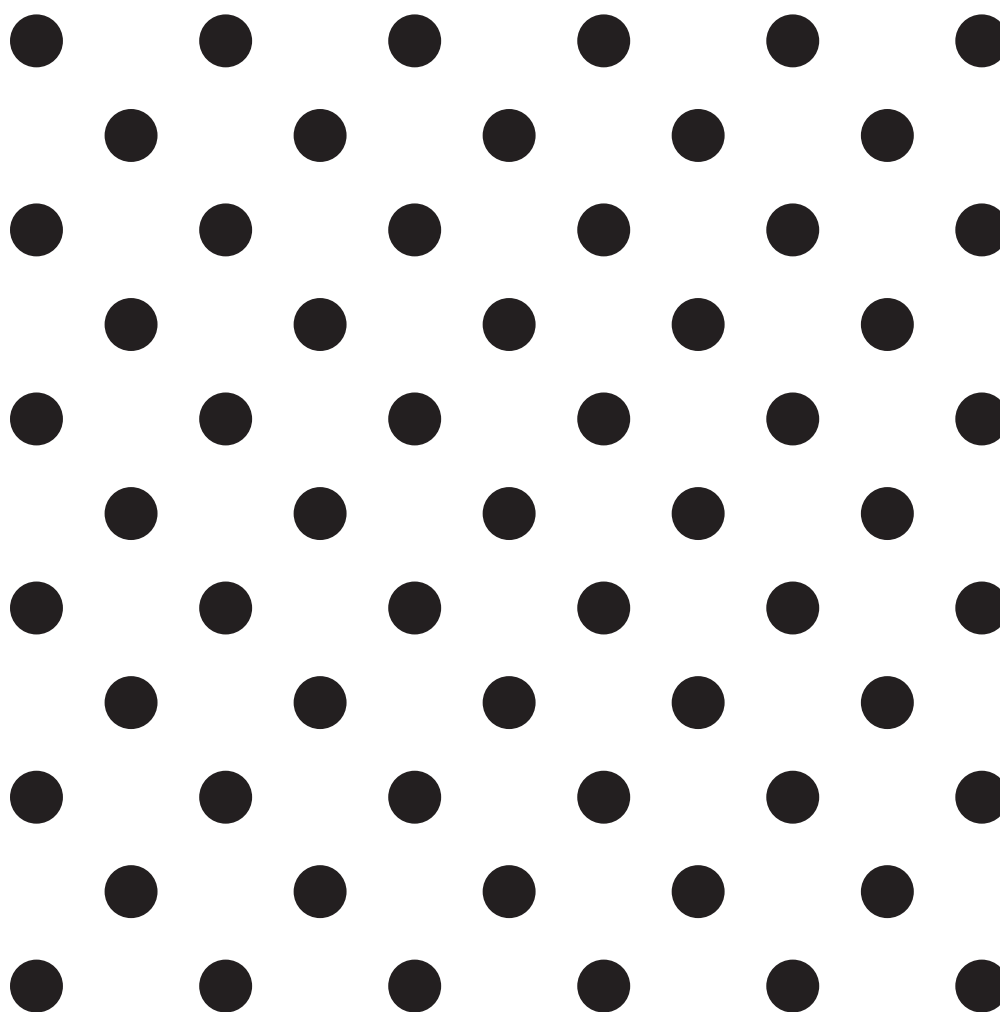
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full scale pattern illustration

3.14

product type AP250D/70
open area 12.3%



Refer to Au•diPanel Data Sheets for product options.

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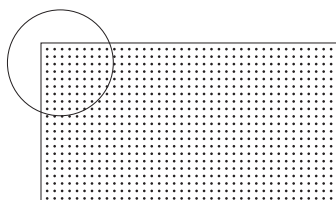
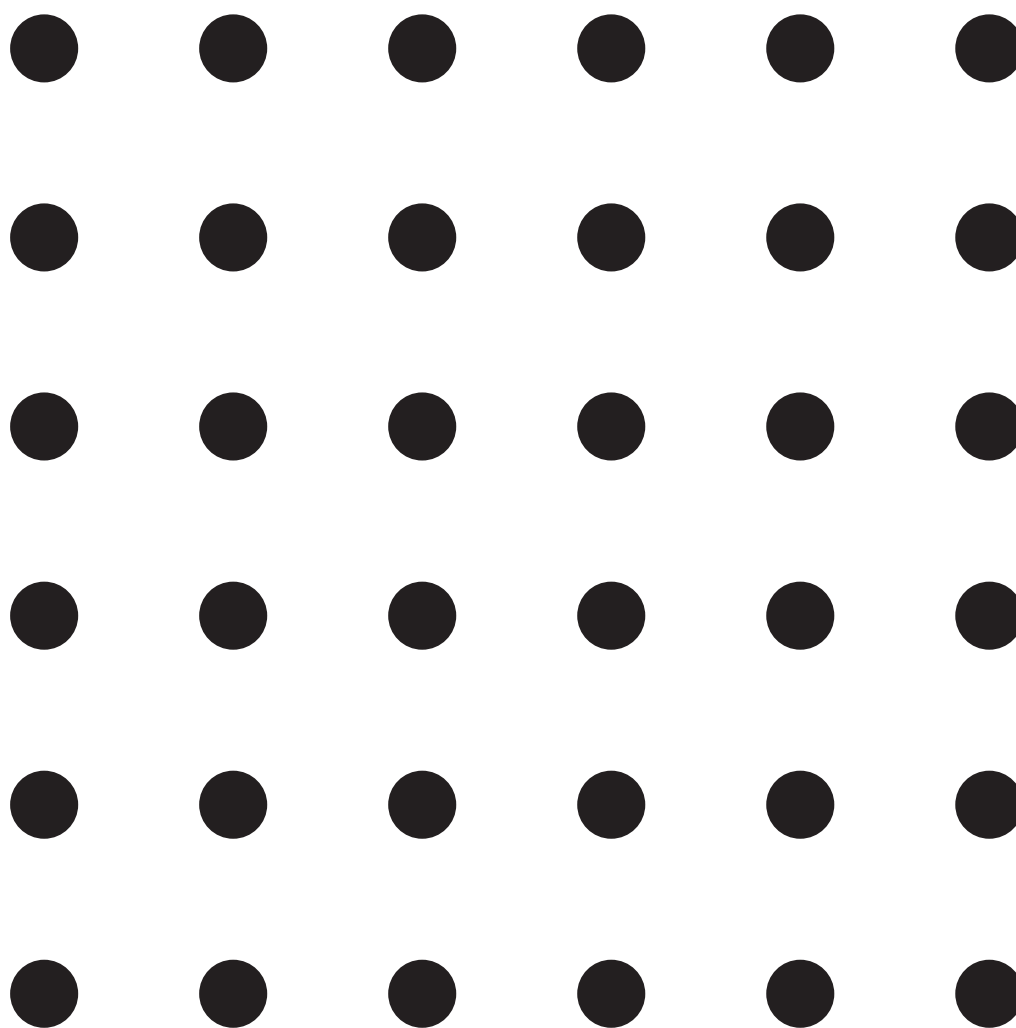
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full scale pattern illustration

3.15

product type AP250S/90
open area 10.2%



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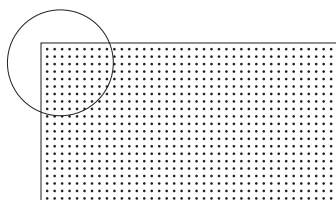
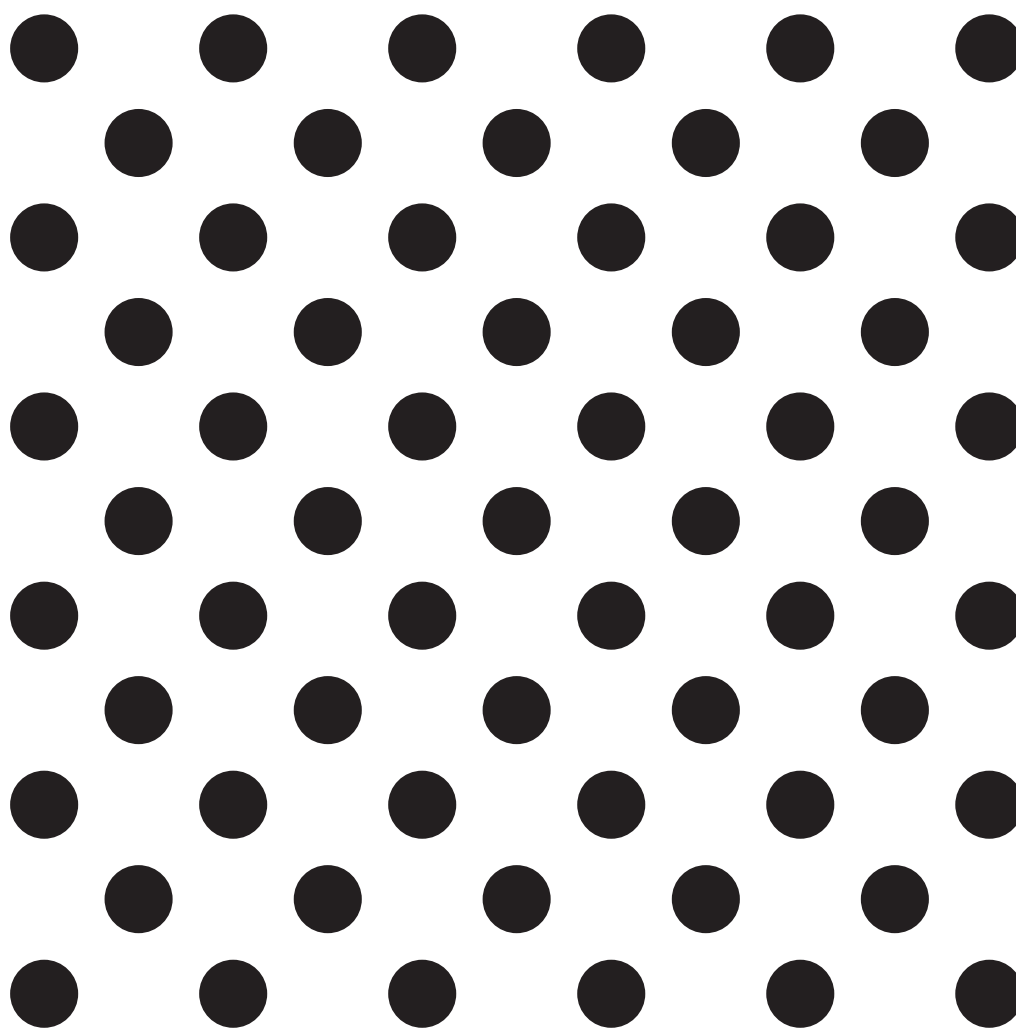
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full scale pattern illustration

3.16

product type AP250D/90
open area 20.4%



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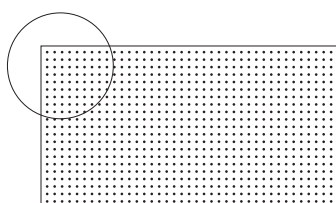
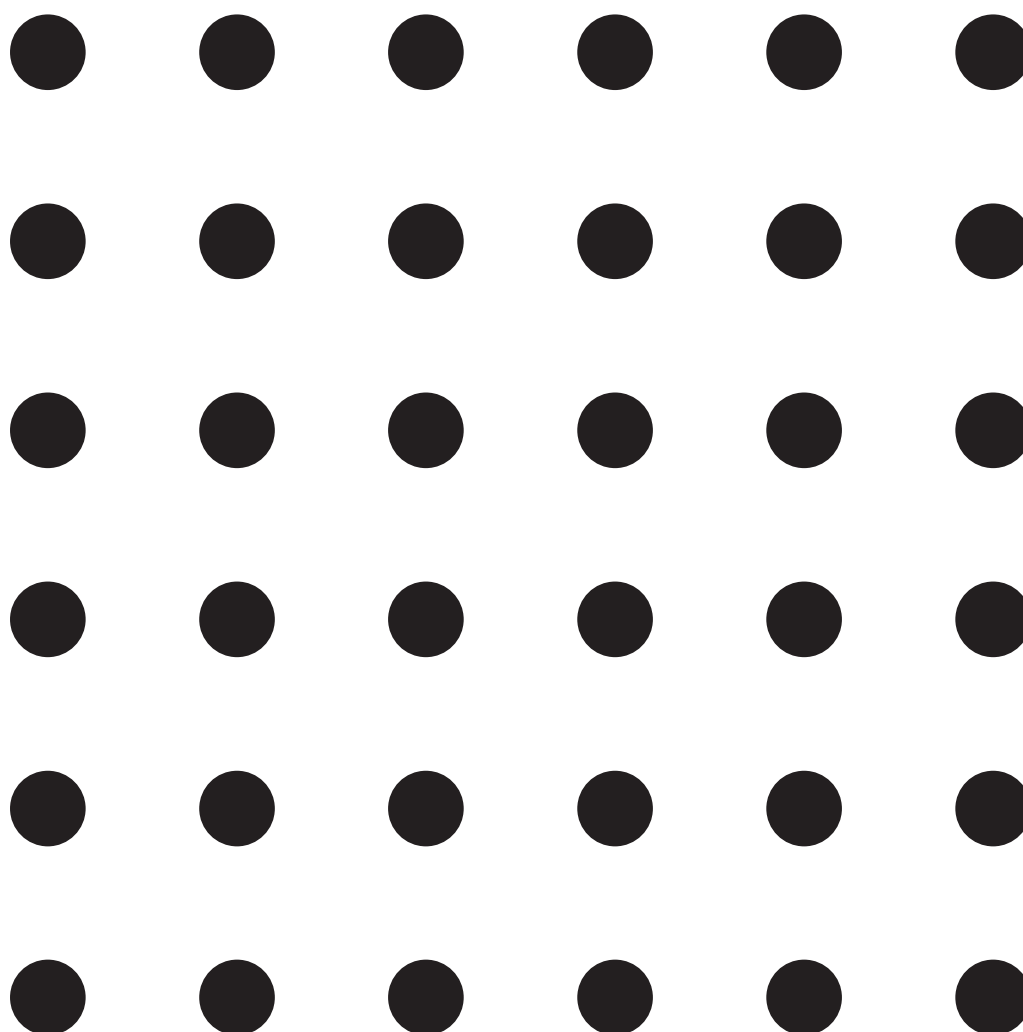
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full scale pattern illustration

3.17

product type AP250S/100
open area 12.6%



Refer to Au•diPanel Data Sheets for product options.

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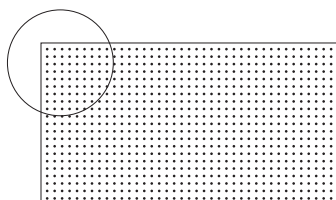
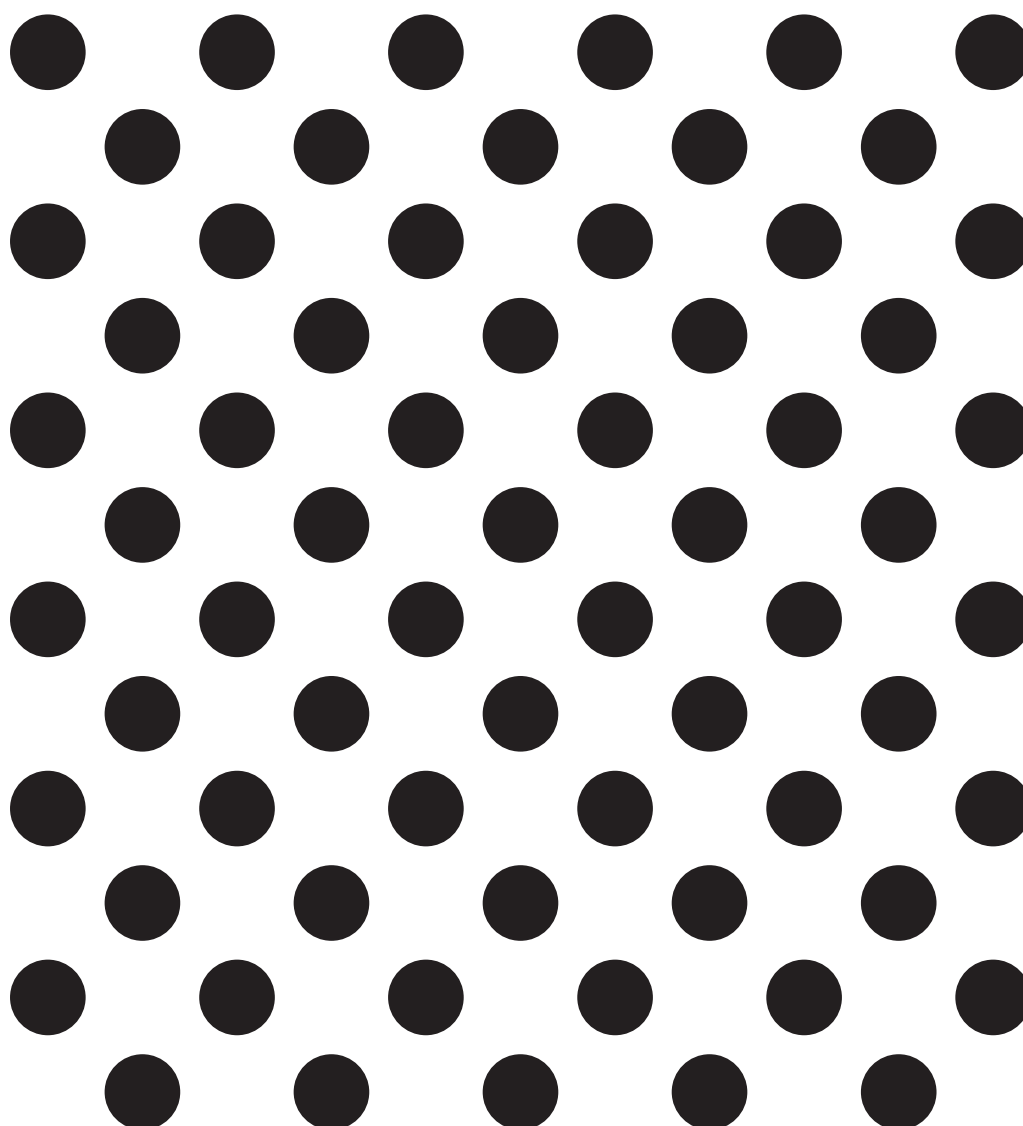
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full scale pattern illustration

3.18

product type AP250D/100
open area 25.1%



Refer to Au•diPanel Data Sheets for product options.

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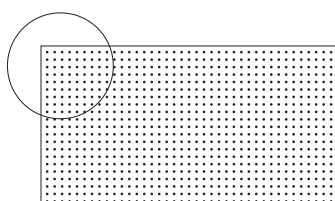
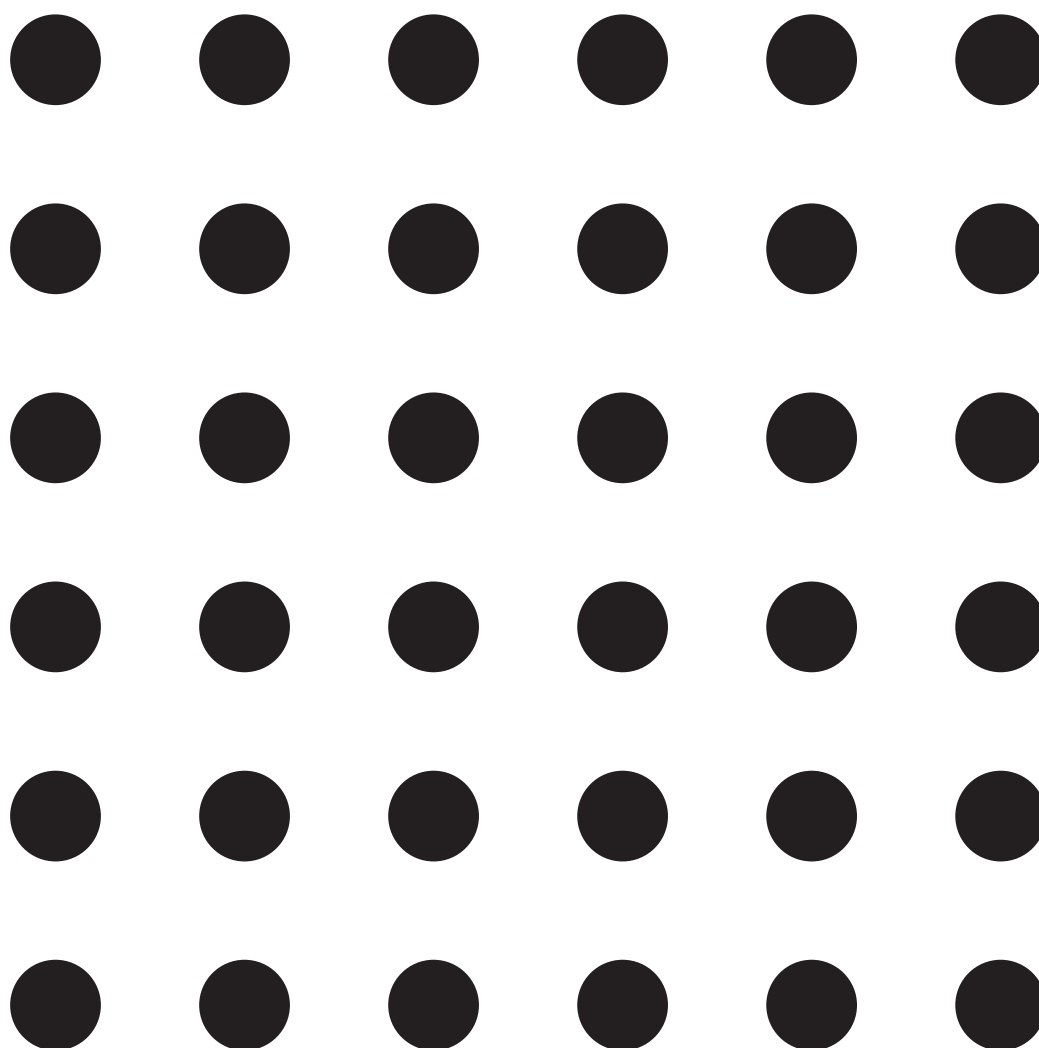
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full scale pattern illustration

3.19

product type AP250S/120
open area 18.1%



Refer to Au•diPanel Data Sheets for product options.

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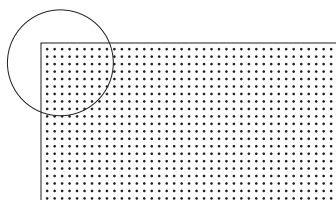
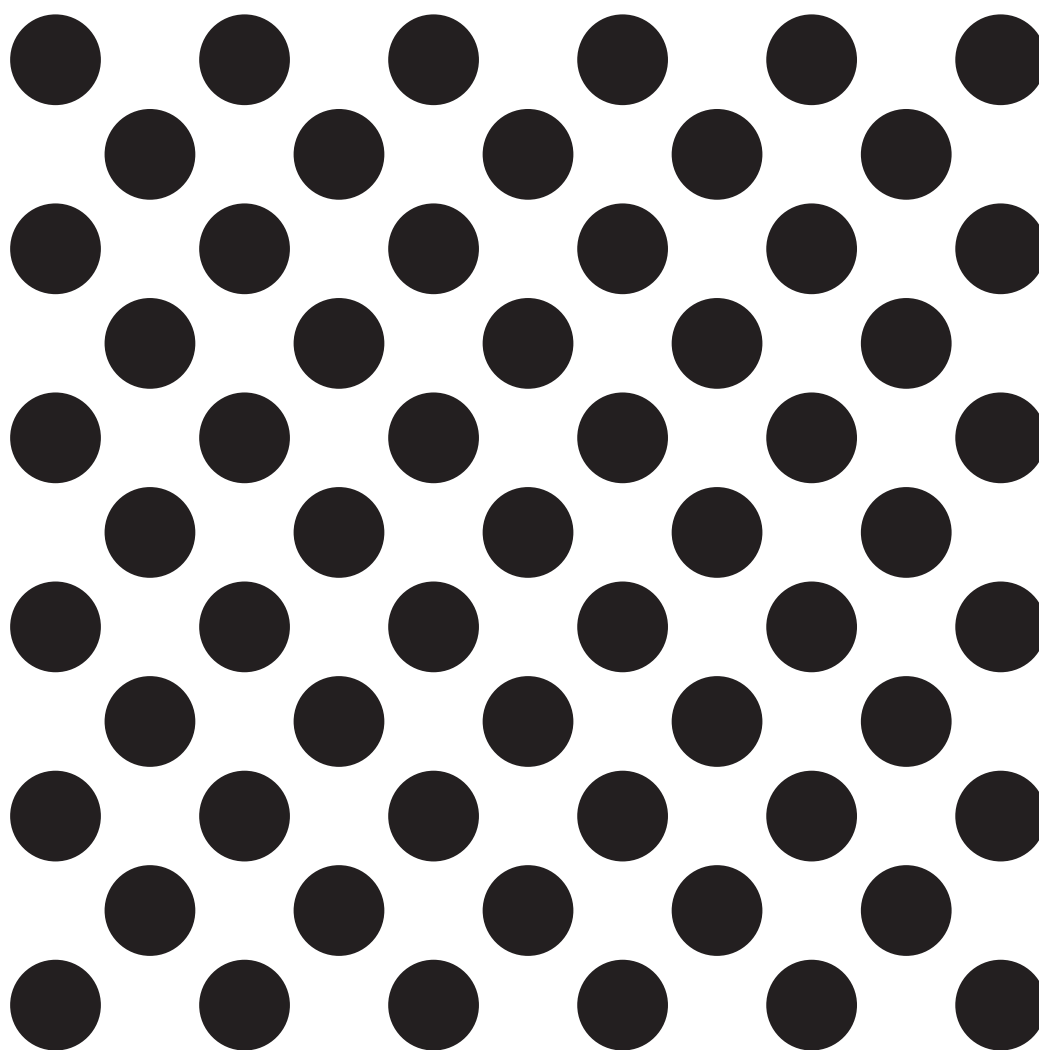
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full scale pattern illustration

3.20

product type AP250D/120
open area 35.5%



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