



ALUMINUM EXPANDED METAL PANEL

ARCHITECTURAL & DECORATIVE

HUIJINMESH

www.huijinwiremesh.com



HUIJIN Aluminum expanded metal panel provide versatile and customized solution for building exterior façade and interior ceiling system.

We provide turnkey solutions from design, fabricate, installation and after sales which create series of unique projects both at home and abroad.

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General Introduction

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Technical information

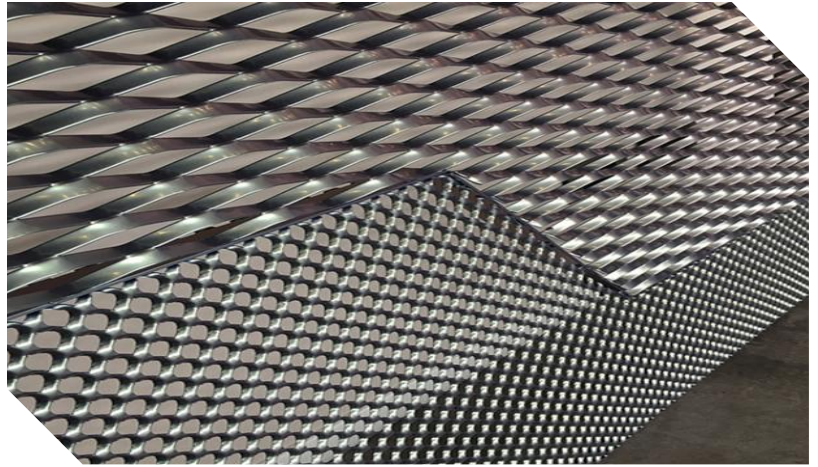
More information please refer to our website:

www.huijinwiremesh.com

Technical specifications

Aluminum Expanded Metal is a sheet product that has been slit and stretched to a wide array of diamond shaped openings.

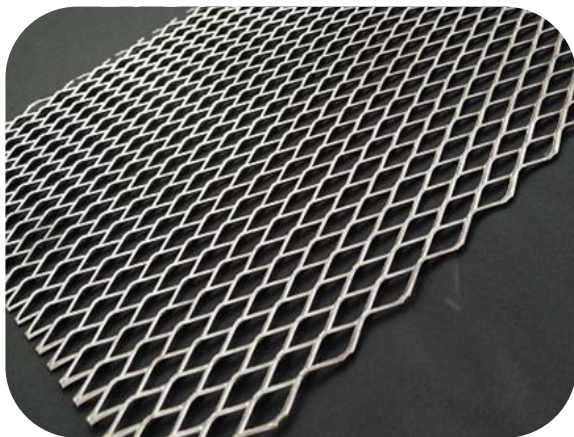
Aluminum Expanded Metal offers savings in weight and metal, free passage of light, liquid, sound, and air, while providing a decorative or ornamental effect.



Patterns :

Different sheet thickness and materials of metal can be chosen. L.W.D (Long Way Diamond) and S.W.D. (Short Way Diamond) are commonly used to indicate the desired length and width of the diamond shaped mesh holes.

Regular pattern



Flattened pattern



Material types:

Three types of aluminum are most commonly use:

1 series (alu≥99.5%): aluminum 1060, 1050, 1100 (1060 model is most popular).

3 series (include aluminum, manganese): aluminum 3003.

5 series (include aluminum, magnesium): aluminum 5005 and 5052.

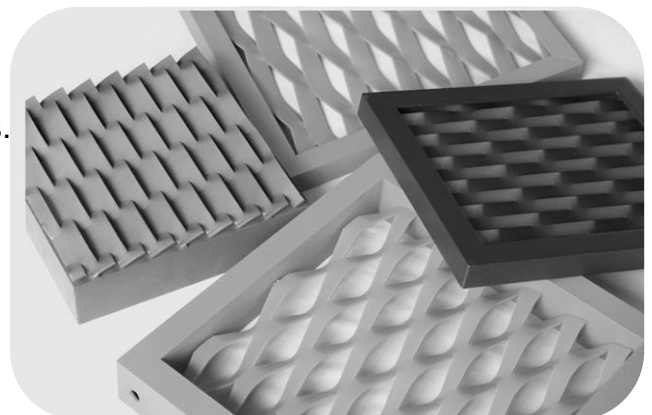
Difference between 3 types of materials:

Ductility/stretch ability: 1series>3series>5series.

Toughness: 1series<3series<5series

Cost: 1series<3series<5series

We can choose or recommend most suitable material model according to your actual application and preference.



Technical specifications

Surface treatment: For Architectural and decorative use, there are mainly 3 types of finish treatment methods : **anodizing, powder coating and PVDF.**



Pre-treatment



PVDF coating process

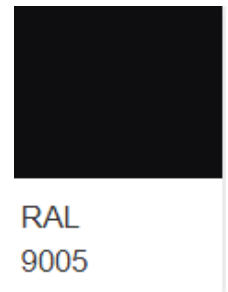
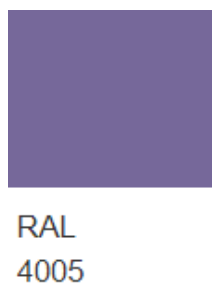
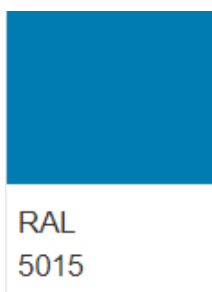
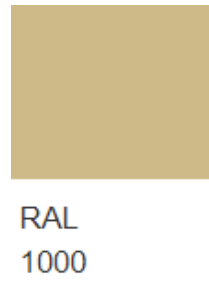
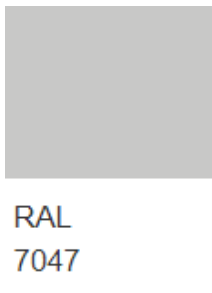
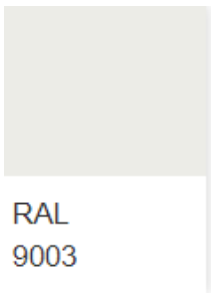
Brand of coating : Jotun, Tiger, PPG, AKZO

All of the coatings we use are famous brand imported from abroad and are satisfied with **AAMA standard.**

- 1.AAMA2604 : 10 years warranty
- 2.AAMA2605 : 15 years warranty
- 3.AAMA2606 : 20 years warranty



Color: Any color is workable. Some popular color are as following:



Production Process (PVDF)



1. Raw material



2. Cutting



3. Stretching and slitting



4. Levelling



5. Pre-treatment



6. Hanging



7. Primer coating



8. Finish coating



9. Vanish coating (UV)



10. Drying



11. Color testing



12. Coating thickness testing



13. packing



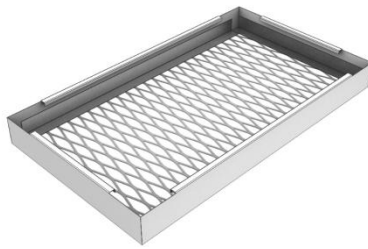
14. shipment

Fixing system (ceiling system)

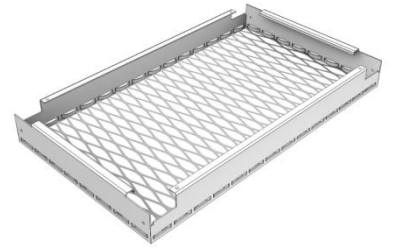
Ceiling details show from up and down



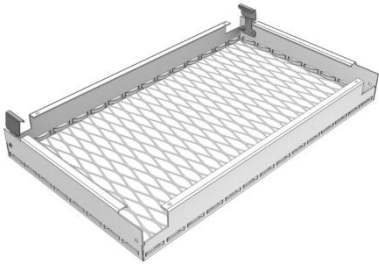
upside pattern 1



upside pattern 2



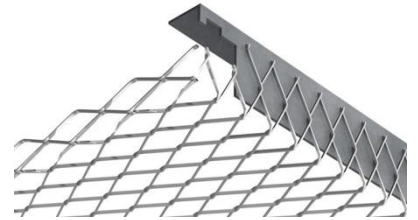
upside pattern 3



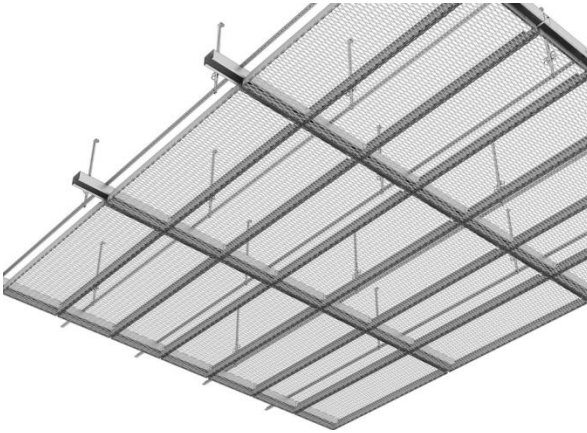
upside pattern 4



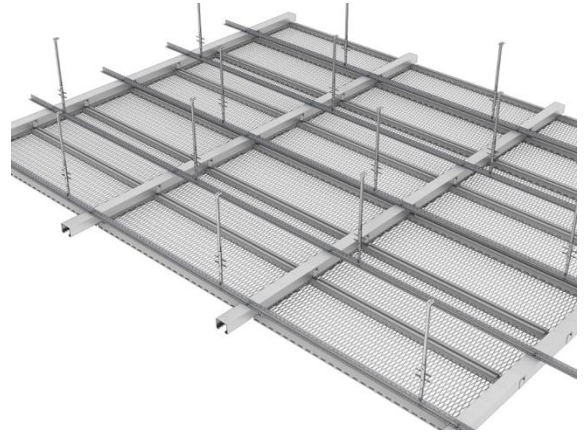
downside pattern 1



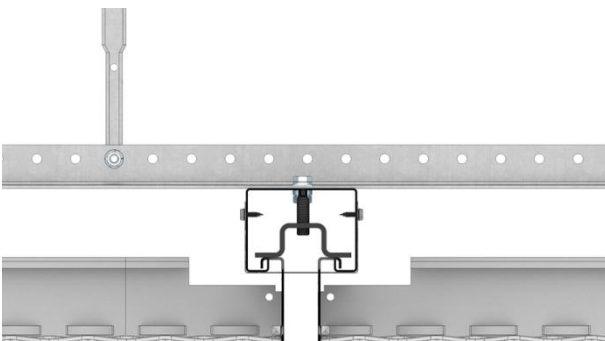
downside pattern 1



downside show after installation



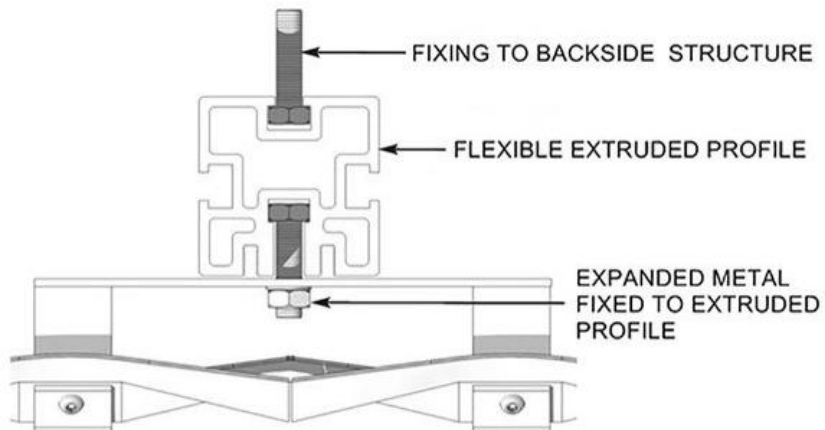
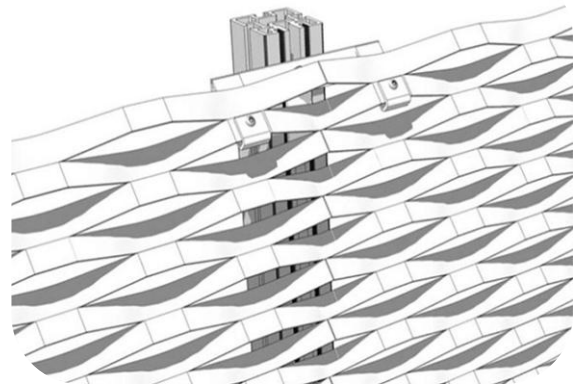
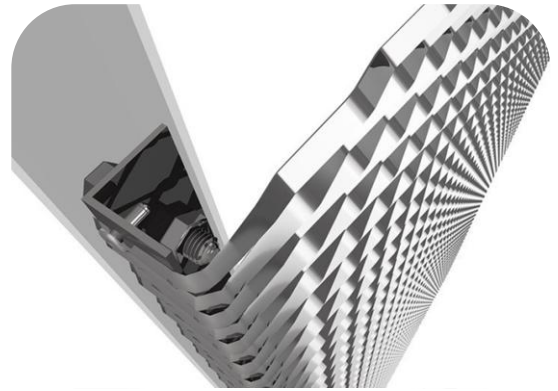
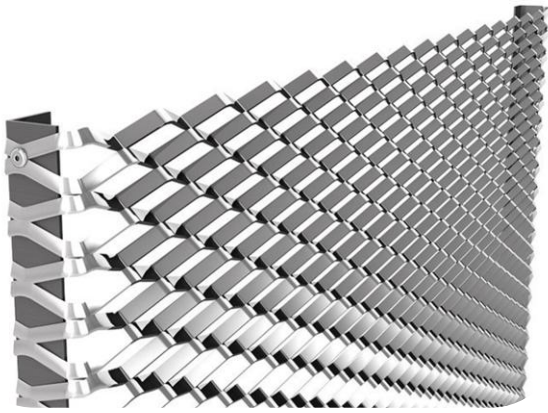
upside show after installation



joint details show

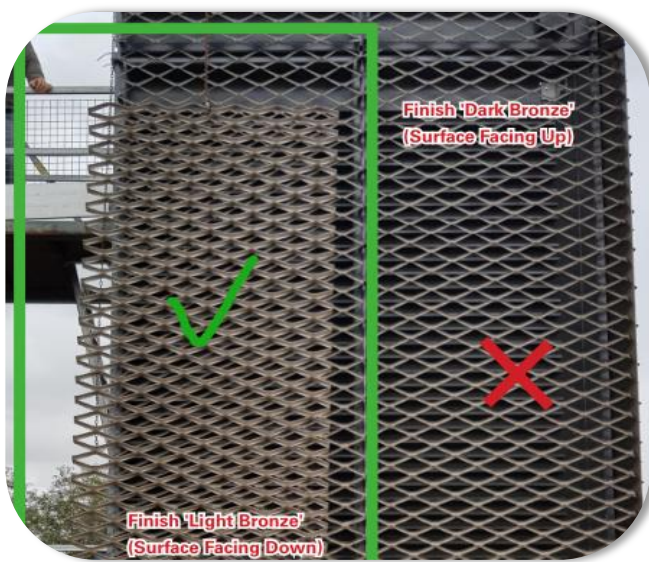
The fixing system is designed based on the mesh specification and actual site situation, please contact our sales for detailed solution.

Fixing system (building facade)

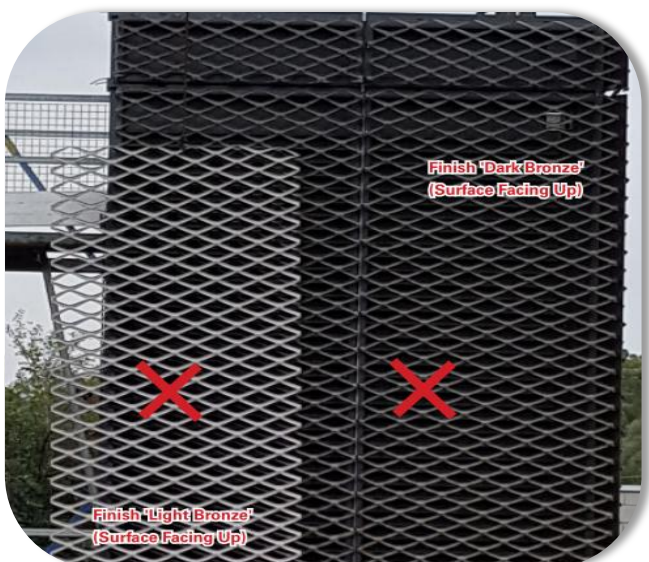


Sample making

Step 1: Finish and orientation confirmation

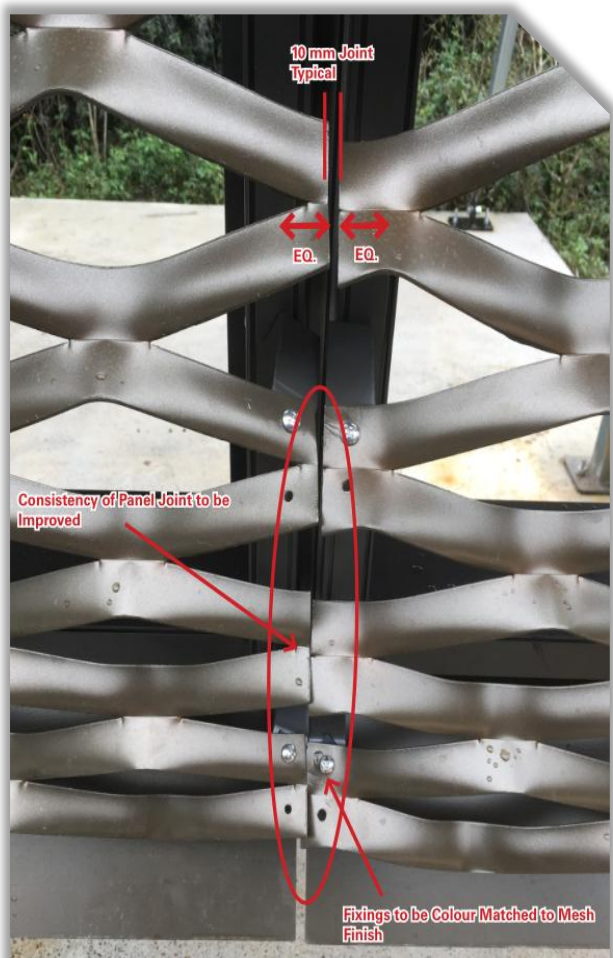


light/dark bronze
surface facing up/down



light/dark bronze
surface facing up/down

Step 2: Installation details confirmation (vertical panel joint and edge profile at corner)



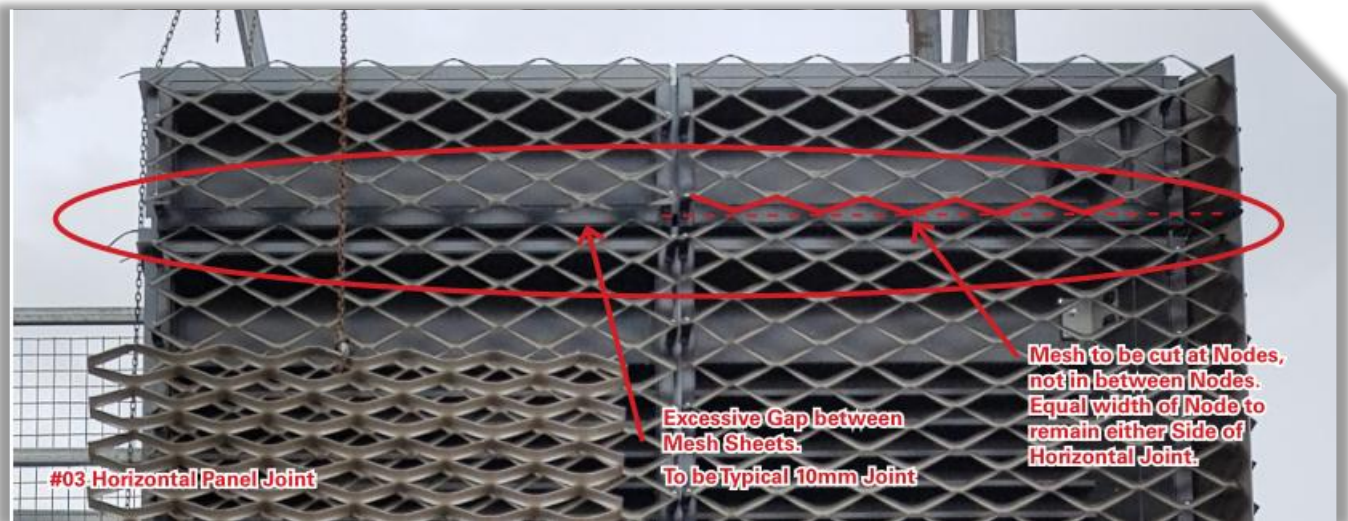
vertical panel joint



edge profile at corner

Sample making

Step 3: Installation details confirmation



horizontal panel joint



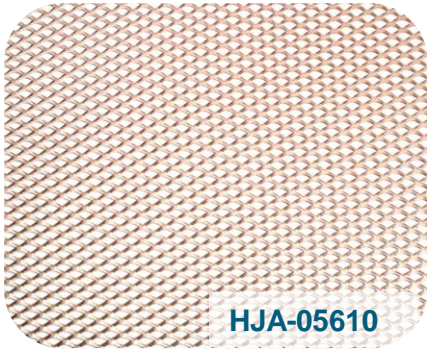
consistency of mesh width



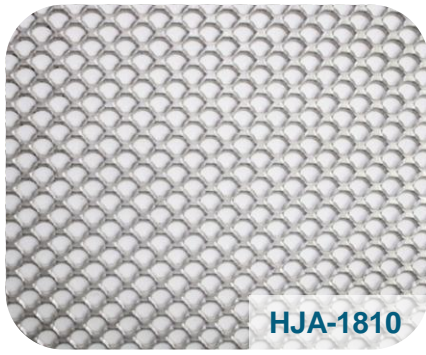
mesh fixing bracket

For each project, before formal production, we insist on making sample test to solve all uncertainty.

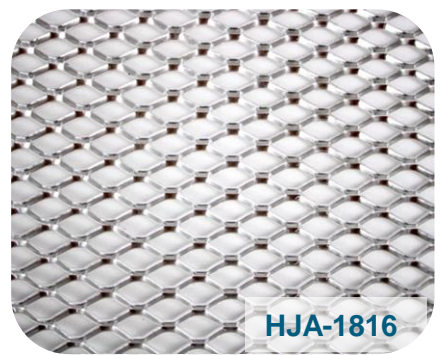
Popular Patterns show- Diamond hole



HJA-05610



HJA-1810



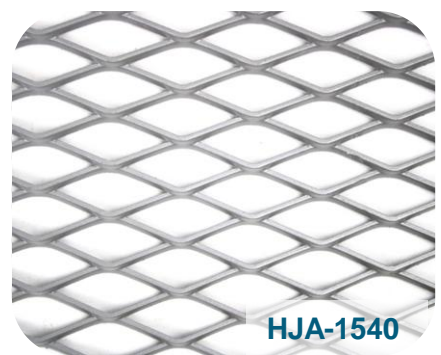
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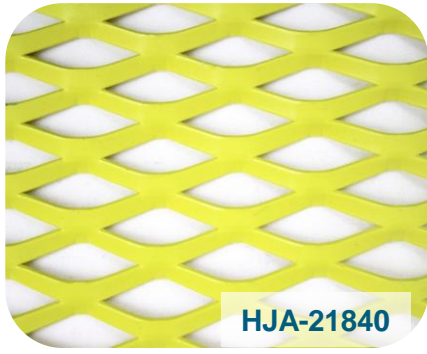
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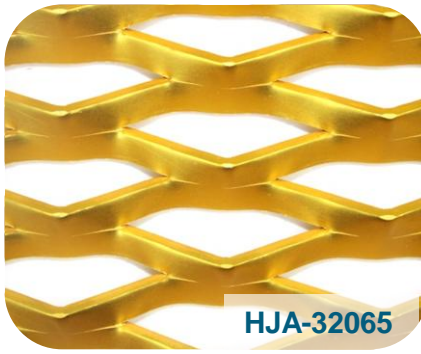
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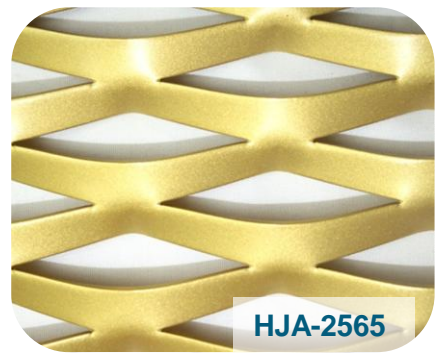
HJA-1540



HJA-21840



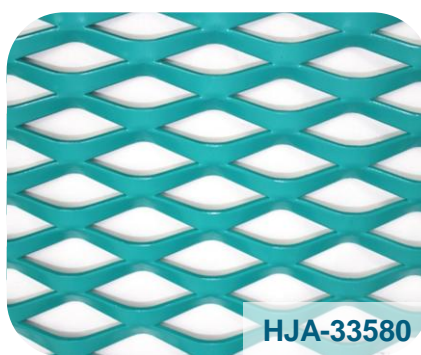
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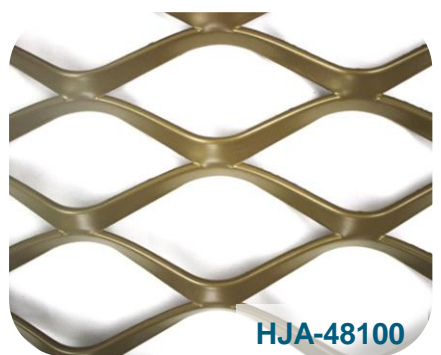
HJA-2565



HJA-32675



HJA-33580



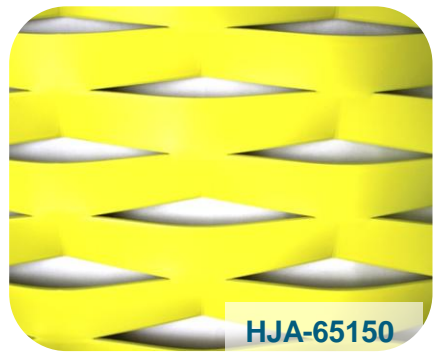
HJA-48100



HJA-48115

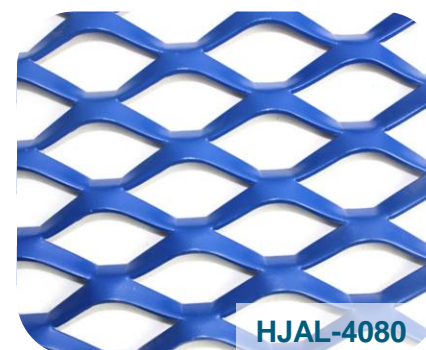
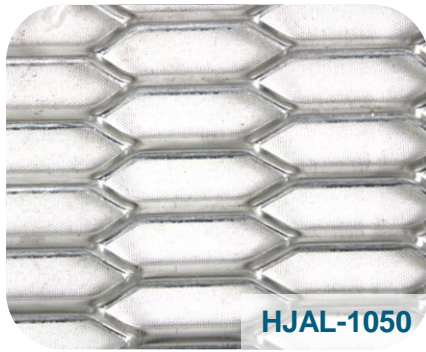
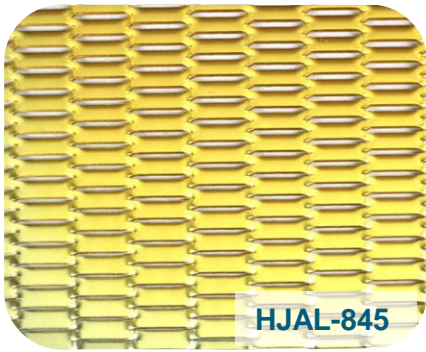


HJA-48135



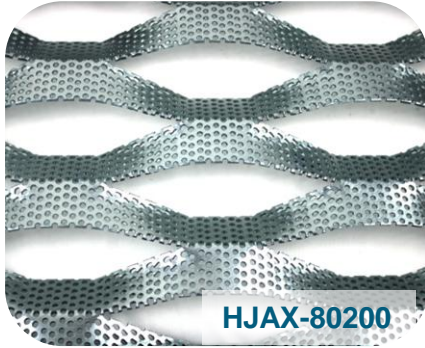
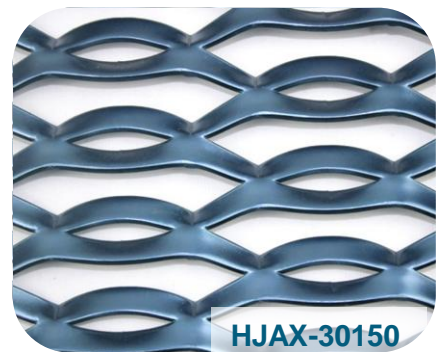
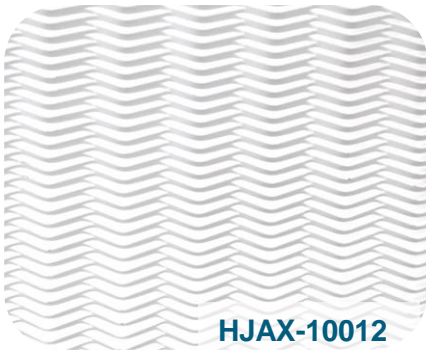
HJA-65150

Popular Pattern Show- Hexagonal Hole



Huijin Co., LTD has designed and manufactured 25 patterns of hexagonal aluminum, Please contact us for more patterns and detailed specification.....

Popular Pattern Show- Irregular Hole/Pattern

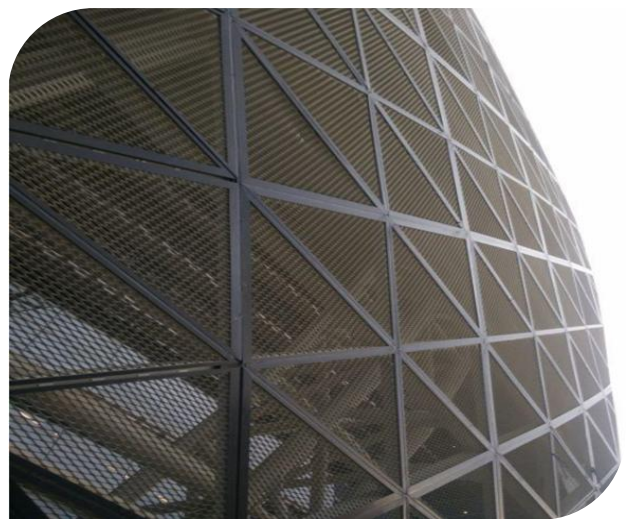
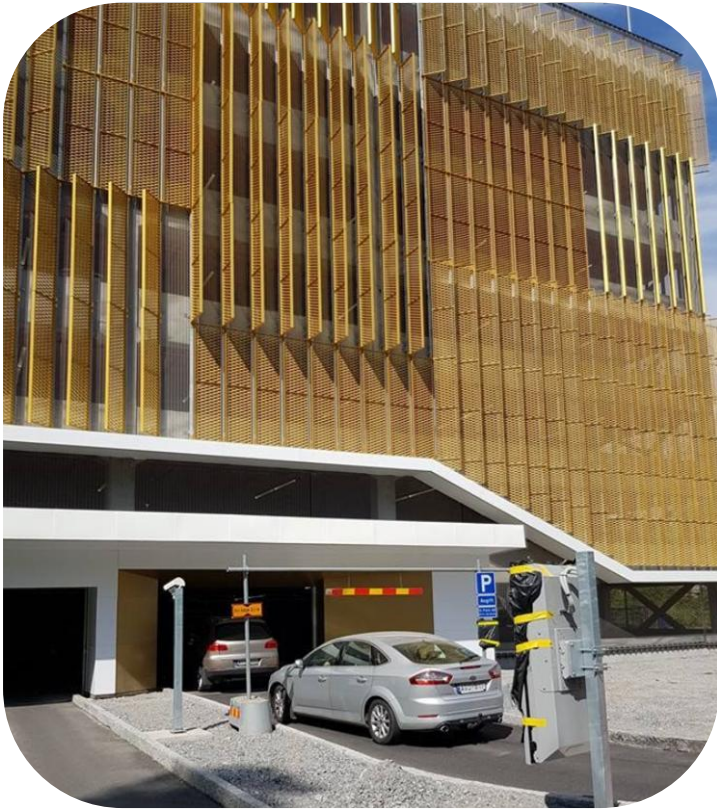


The irregular patterns could be designed according to the site situation and aesthetical requirements.

The functions of **aluminum expanded metal** are very versatile. Openings formed in fabricating process allow air, sound, light and heat to pass through.

The decorative patterns are mainly used for aesthetic purposes such as building façade, interior ceiling, projection screen, canopy screen ,enclosure etc...

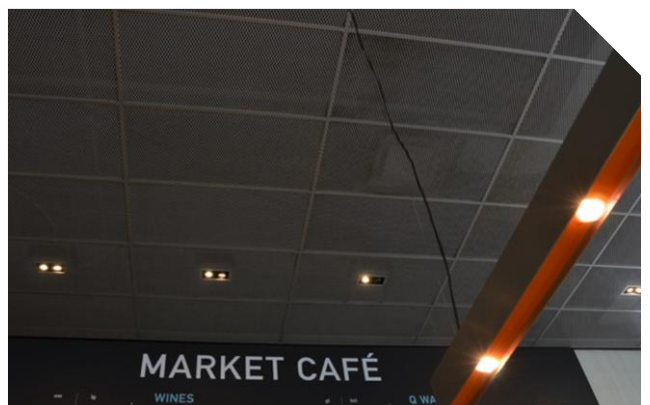
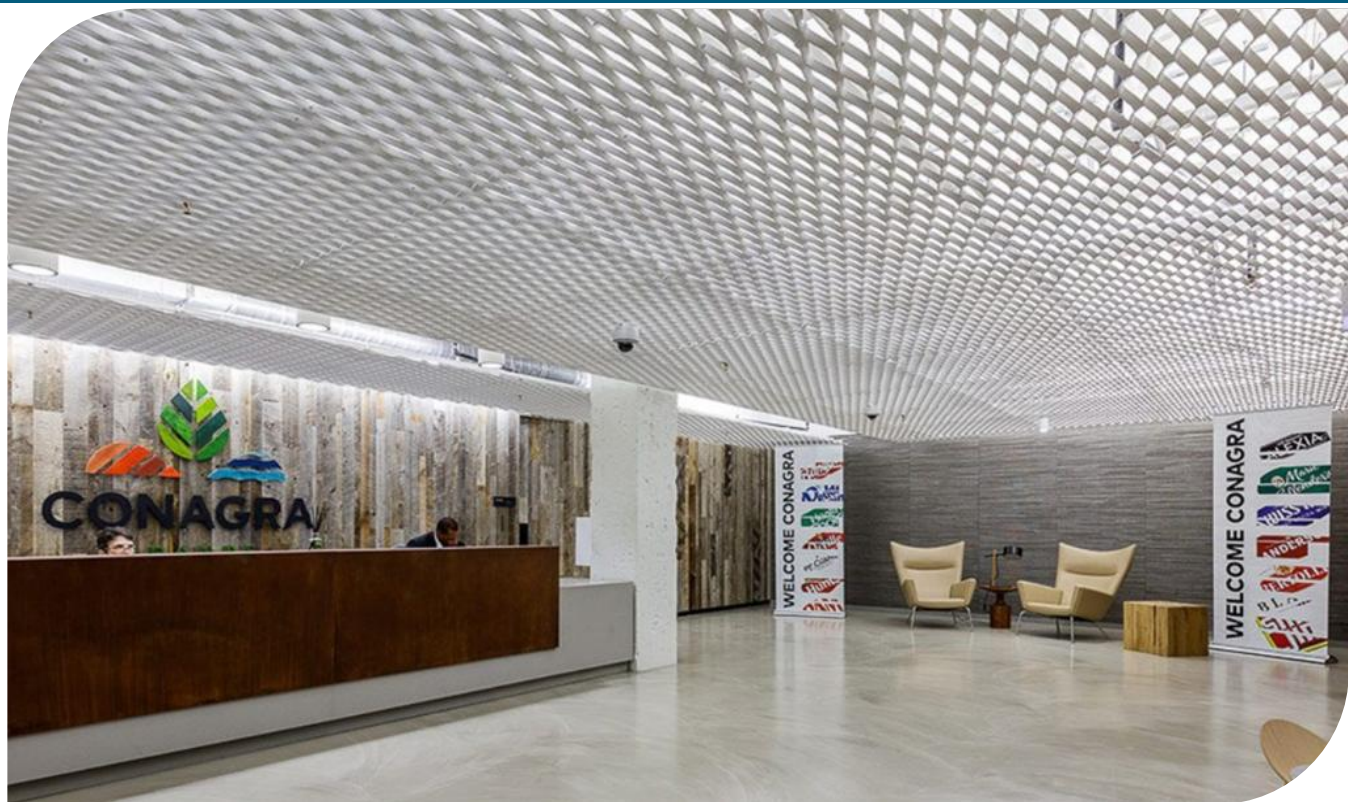
Applications: Building façade.



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