

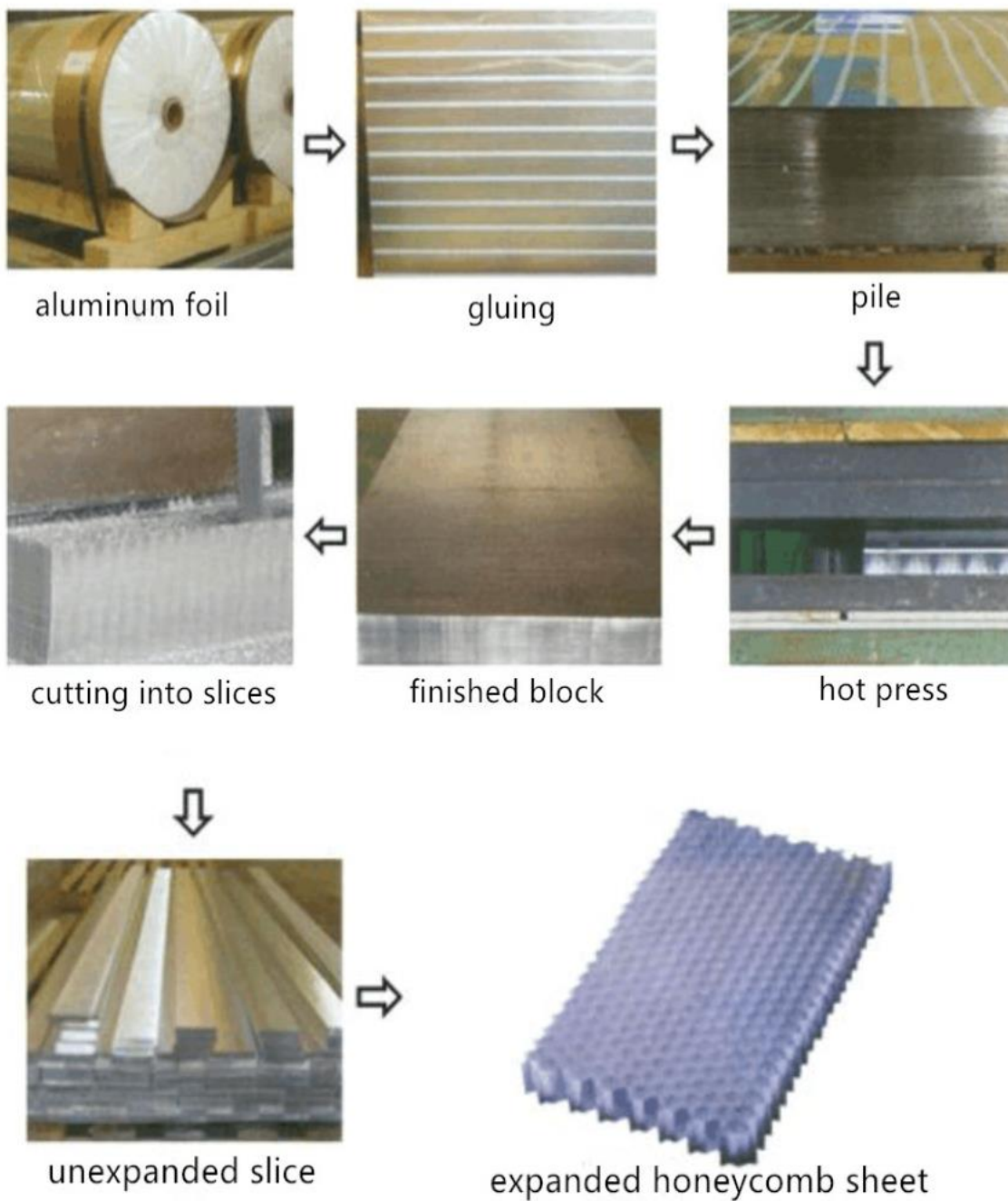
HWSTRONGER aluminum honeycomb manufactured from 3003 and 5052 aluminium alloy foil.

Aluminium foil after gluing, piles, and high temperature composition, will form the aluminum honeycomb blocks.

The block then will be cut into slices, and expanded into aluminum honeycomb sheet.

Aluminum honeycomb core are hexagonal structure with sharp and clear wall, super flatness, and high strength which is perfect core material for bonding with aluminum sheet, stainless steel sheet and other surface materials.

The walls of the honeycomb structure are like "I" shape beams that can decentralize the pressure and even the pressure on the panel surface. This property enable the honeycomb panel to keep super flatness even in large panel size. Moreover, the honeycomb hollow structure can reduce thermal expansion of the panel.



### Specification List

Node (mm)	Cell size (inch)	Foil thickness (mm)	Max Size (WxL)(mm)
2.5	1/6 (4.2mm)	0.04	1600x2200
		0.05	1600x2200
		0.06	1600x2000
3.0	1/5 (5mm)	0.04	1600x2400
		0.05	1600x2400
		0.06	1600x2200
		0.08	1600x2000
		0.10	1600x1800
4.0	1/4 (6.35mm)	0.04	1600x3100
		0.05	1600x3100
		0.06	1600x2400
		0.08	1600x2200
		0.10	1600x2000
5.0	1/3 (8.5mm)	0.04	1600x4000
		0.05	1600x4000
		0.06	1600x3000
		0.08	1600x2200
		0.10	1600x2000
6.0	3/8 (9.5mm)	0.04	1600x4600
		0.05	1600x4600
		0.06	1600x3200
		0.08	1600x2800
		0.10	1600x2400
7.5	1/2 (12.7mm)	0.04	1600x6000
		0.05	1600x5000
		0.06	1600x4000
10	3/4 (19mm)	0.04	1600x7500
		0.05	1600x5000
		0.06	1600x5000
12	4/5 (20.3mm)	0.04	1600x9000
		0.05	1600x9000
		0.06	1600x6000
15	1 (25.4mm)	0.04	1600x12000
		0.05	1600x7500
		0.06	1600x7500

## Custom made

The honeycomb cores can be supplied in a variety of conditions, tailored to the individual needs of the customer:

Expanded or unexpanded

Full blocks or cut slices

Perforated or unperforated

Corrosion treated or untreated

Aluminium Alloy Grade 3003 or 5052

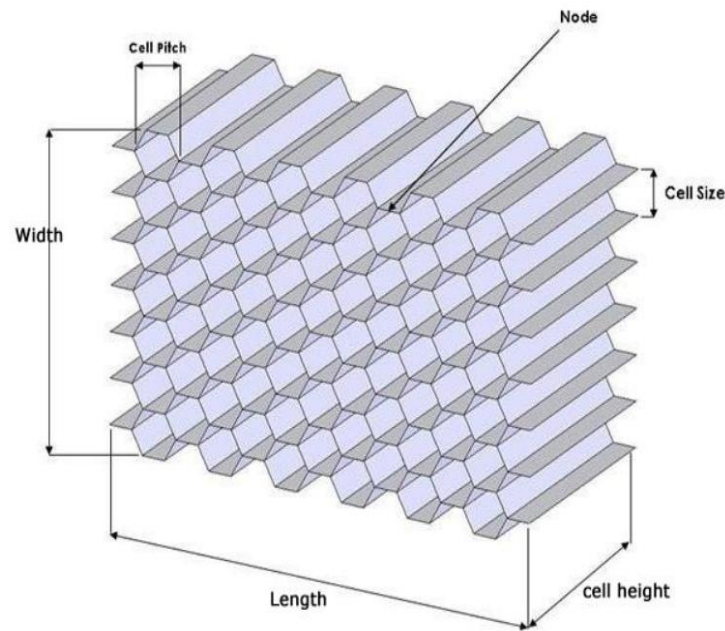
Drilled or undrilled core

Standard honeycomb can be expanded to the following sizes:

W 2500mm x L 1250mm

W 3000mm x L 1500mm

Any other sizes are available as requested by custom



Please let us know what is the cell size, cell thickness/height/depth, foil thickness and sheet size (width x length) you need, we will make quotation accordingly.

## Applications:

Aluminium honeycomb can be used in a virtually unlimited number of applications. Some of the most widespread applications are as follows:

### In the rail industry:

Doors

Floors

Energy Absorbers/Bumpers

Furniture

### In the marine industry:

Commercial vessels and naval vessel bulkheads

Wall ceiling and partition panels

Furniture

### Other applications

Clean room panels

Exterior architectural curtain wall panels

Air, water, fluid, and light directionalisation

Heating, ventilation, air conditioning equipment and devices

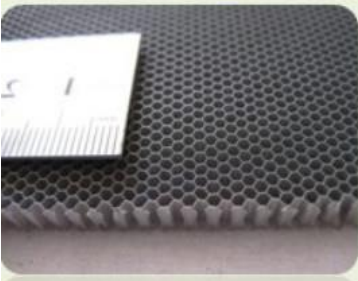

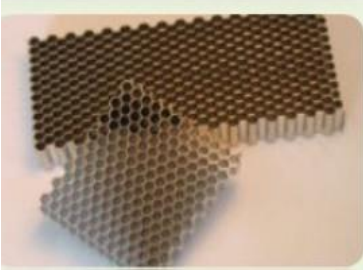
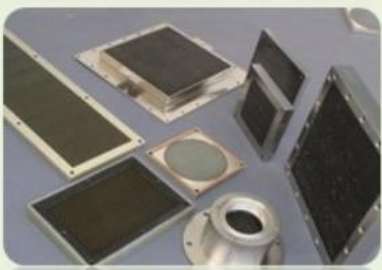
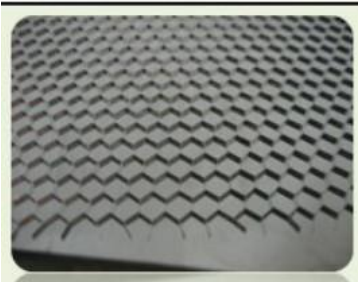

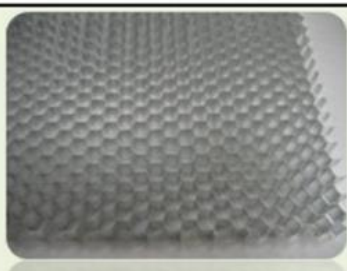



Skis and snowboards

Energy absorption protective structures

Electric shielding enclosures

Acoustic attenuation

Wind turbine blades

Aluminum Honeycomb	Applications	
		<p>Air purifier            Cooling agent carrier            Lamp grille            Lighting fixture</p>
Micro cell honeycomb		
		<p>Electronic shield</p>
Micro cell honeycomb		
		<p>Audio devices</p>
		<p>White board stuff            Cabinet stuff            furniture stuff            Eco door stuff</p>
Normal honeycomb		
		<p>Core material for            various composite            panels</p>
Unexpanded honeycomb		