

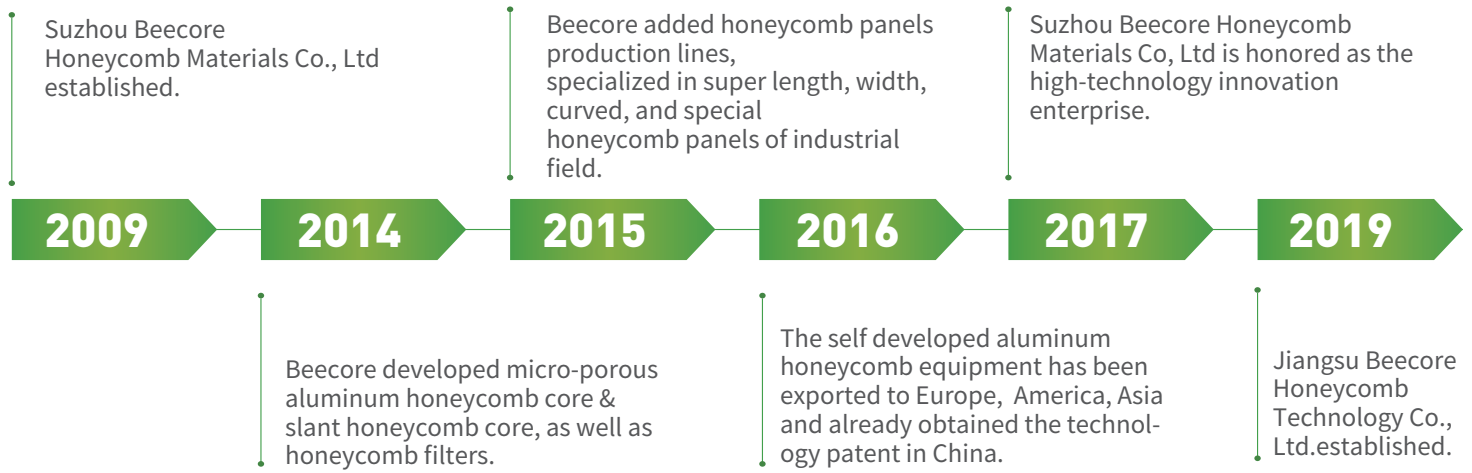


About Us

Suzhou Beecore Honeycomb Materials Co., Ltd, originated from Besin(Dutch) International Group which was founded in 1957. It is one of the world’s leading professional manufacturer of honeycomb materials. Since it’s established, the company has been committed to the research and development of honeycomb technology, from honeycomb core, honeycomb panel, to the finished product which was using honeycomb panel as the solution, such as the aluminum honeycomb panel truck body, laser TV / projection screen, railway transportation and construction etc. We always stick to the roots of continuous technological innovation, and constantly upgrade and expand the application range of the honeycomb materials, becoming the first choice company for solutions of honeycomb materials!

At present, we holds more than 60% market share in the Yangtze River Delta of China. We have 4 factories in Suzhou, Foshan, Taizhou and Chengdu. At the same time, we have offices in Russia, India, Middle-East and Myanmar. The overseas market covers Europe, America, Middle East, Southeast Asia and other countries, praised by domestic and foreign customers.

Milestones



ISO9001



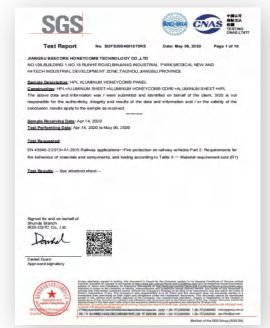
ISO14001



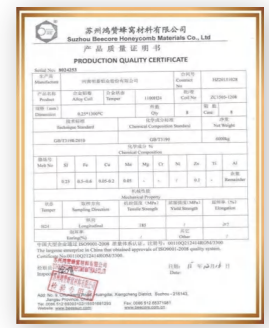
OHSAS18001



DIN 6701



EN45545

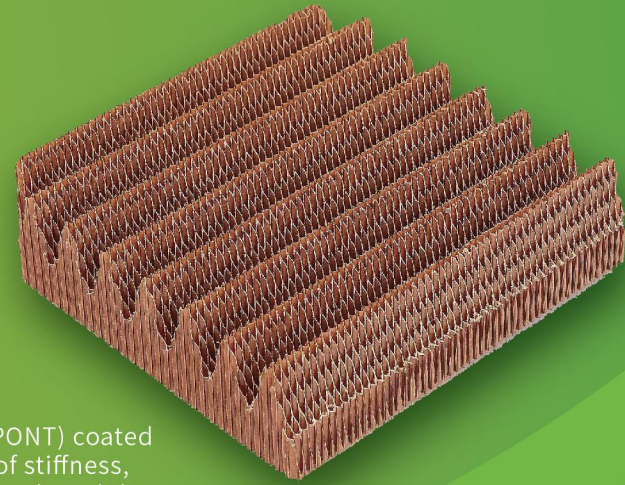


Quality Control Report



Nomex /Aramid Honeycomb Core

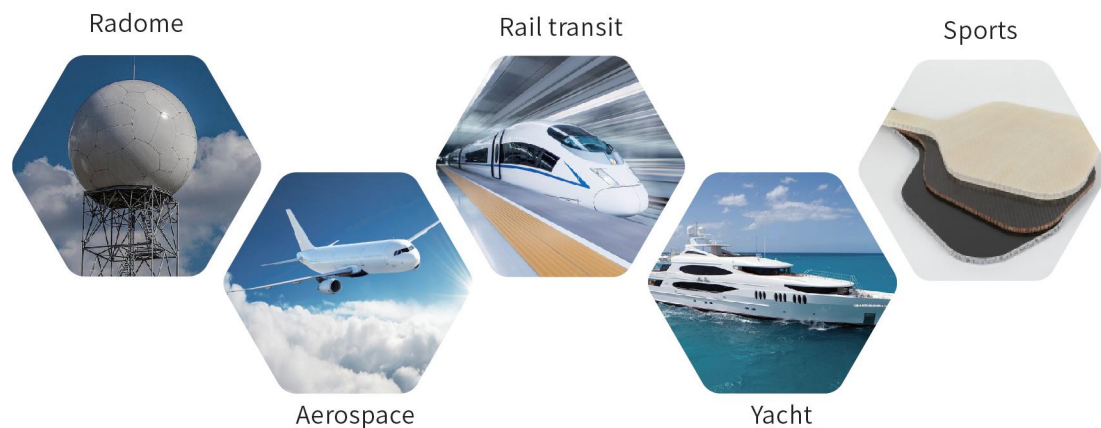
Nomex /Aramid honeycomb core is made of aramid fiber paper (DUPONT) coated with heat resistant phenolic resin. It offers light weight, high ration of stiffness, excellent resilience, absorption capacity, high stability, environment adaptability and electric insulating. It is widely used for aerospace, rail transit, ships and yacht, shelter, sports products etc.



Features

- Super light, high strength and anti-fatigue
- Outstanding corrosion resistance and flame resistance
- Excellent environment adaptability and electric insulating
- Good dielectric properties and high stability

Applications



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Specifications

Specifications	Cell size (mm/inch)		Density (kg/m³)	Compression strength (MPa)	L-Shear strength (MPa)	W-Shear strength (MPa)
Commercial grade aramid honeycomb core						
BHC1313-3.2-48	3.2	1/8	48	1.9	1.16	0.62
BHC1313-3.2-64	3.2		64	3.1	1.48	0.82
BHC1313-3.2-80	3.2		80	4.7	1.95	1.05
BHC1313-3.2-96	3.2		96	6.6	2.45	1.42
BHC1313-3.2-128	3.2		128	11.3	2.95	1.78
BHC1313-3.2-144	3.2		144	13.2	3.05	1.9
BHC1313-4.8-32	4.8	3/16	32	0.9	0.58	0.36
BHC1313-4.8-48	4.8		48	2.6	0.98	0.56
BHC1313-4.8-64	4.8		64	3.4	1.7	0.92
BHC1313-4.8-80	4.8		80	6	1.95	1.1
BHC1313-4.8-96	4.8		96	7.3	2.26	1.32
BHC1313-6.4-24	6.4	1/4	24	0.54	0.34	0.18
BHC1313-6.4-32	6.4		32	0.8	0.54	0.3
BHC1313-6.4-48	6.4		48	2.05	1	0.56
BHC1313-6.4-64	6.4		64	3.4	1.54	0.79
BHC1313-9.5-24	9.5	3/8	24	0.52	0.32	0.16
BHC1313-9.5-32	9.5		32	0.68	0.56	0.29
BHC1313-9.5-48	9.5		48	9.6	1.15	0.66
Aerospace grade aramid honeycomb core						
BHC1313A-3.2-48	3.2	1/8	48	2	1.26	0.72
BHC1313A-3.2-64	3.2		64	3.2	1.58	0.92
BHC1313A-3.2-80	3.2		80	4.8	2.05	1.15
BHC1313A-3.2-96	3.2		96	6.7	2.55	1.52
BHC1313A-3.2-128	3.2		128	11.4	3.05	1.88
BHC1313A-3.2-144	3.2		144	13.3	3.15	2
BHC1313A-4.8-32	4.8	3/16	32	1	0.68	0.46
BHC1313A-4.8-48	4.8		48	2.7	1.08	0.66
BHC1313A-6.4-48	6.4	1/4	48	2.15	1.1	0.66
BHC1313A-9.5-48	9.5	3/8	48	9.7	1.25	0.76

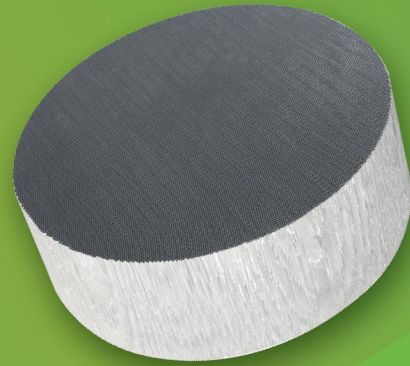
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Aluminum Honeycomb

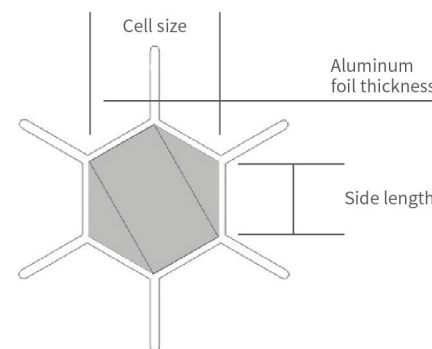
Becore aluminum honeycomb core is made of many layers of aluminum foil by process gluing, stacking, hot pressing, sawing and stretching. It is regular hexagon shape, good mechanical properties, high strength, good flatness, etc.



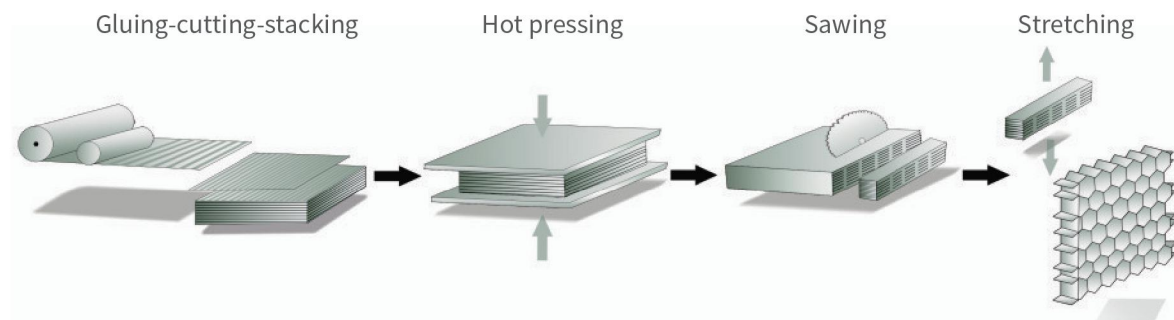
Specifications

- Side length (mm): 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 20, 50
- Alloy: A3003, A5052
- Foil thickness (mm): 0.035, 0.04, 0.05, 0.06, 0.07, 0.08, 0.1, 0.15, 0.2
- Cell size and side length: $D=\sqrt{3}a$

Structure



Manufacturing process



Application

Aluminium honeycomb can be used in a virtually unlimited number of applications, including Rail, Industrial, Marine, Automotive, Construction and Wind Turbines.

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Micro-porous and Slant Aluminum Honeycomb

Becore R&D micro-porous and slant aluminum honeycomb core (BEECORE series) in 2014. Usually the side length is smaller than 3mm. Becore honeycomb has the advantages of regular hexagon shape, good mechanical properties, flat surface etc. It is good for high quality filters and mechanical industry as well as other fields.

Specifications

Specifications	Side length (mm)	Foil thickness (mm)	Density (kg/m ³)
Micro-porous aluminum honeycomb core			
BHC3003-0.4-0.015	0.4	0.015	137
BHC3003-0.5-0.015	0.5	0.015	137
BHC3003-0.5-0.021		0.021	190
BHC3003-0.6-0.015	0.6	0.015	151
BHC3003-0.6-0.021		0.021	158
BHC3003-0.8-0.021		0.021	118
BHC3003-0.8-0.025	0.8	0.025	144
BHC3003-0.8-0.03		0.03	169
BHC3003-1-0.025		0.025	115
BHC3003-1-0.03	1	0.03	137
BHC3003-1-0.04		0.04	183
BHC3003-1.5-0.03		0.03	90
BHC3003-1.5-0.04	1.5	0.04	122
BHC3003-1.5-0.05		0.05	152
BHC3003-1.83-0.04		0.04	99
BHC3003-1.83-0.05	1.83	0.05	123
BHC3003-1.83-0.06		0.06	148
BHC3003-2-0.04		0.04	90
BHC3003-2-0.05	2	0.05	113
BHC3003-2-0.06		0.06	135
BHC3003-2.5-0.04		0.04	74
BHC3003-2.5-0.05	2.5	0.05	92
BHC3003-2.5-0.06		0.06	110
BHC3003-3-0.04		0.04	61
BHC3003-3-0.05	3	0.05	76
BHC3003-3-0.06		0.06	91
BHC3003-3-0.08		0.08	122
BHC3003-3.5-0.04		0.04	55
BHC3003-3.5-0.05	3.5	0.05	68
BHC3003-3.5-0.06		0.06	82
BHC3003-3.5-0.08		0.08	110
BHC3003-4-0.04		0.04	46
BHC3003-4-0.05	4	0.05	57
BHC3003-4-0.06		0.06	68
BHC3003-4-0.08		0.08	92
BHC3003-5-0.05		0.05	46
BHC3003-5-0.06	5	0.06	54
BHC3003-5-0.08		0.08	72
BHC3003-5-0.1		0.1	91
Slant Aluminum Honeycomb Core			
BHC3003-1.5-0.03		0.03	96
BHC3003-1.5-0.04	1.5	0.04	130
BHC3003-1.5-0.05		0.05	162
BHC3003-1.83-0.03		0.03	76
BHC3003-1.83-0.04	1.83	0.04	102
BHC3003-1.83-0.05		0.05	128
Alloy	Al3003 and Al5052		
Supply form	Unexpanded (block, strip) or expanded(slice) Unperforated		

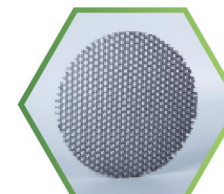
Applications



Laser cutting machine panel



Electronic white board



Honeycomb louver



Car crash test



Cooling catalyst carrier

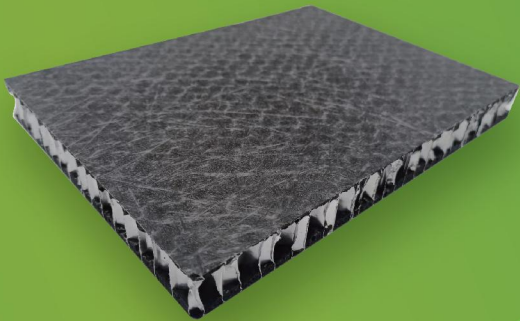


Chemical fiber machinery rectifier panel

AHC Honeycomb Panel

As a developer and manufacturer of products, we aim to provide our customers and partners with industry-leading innovative ideas to bring cost-effective and high-quality product solutions.

Based on the innovative concept, Beecore independently developed AHC honeycomb panel, which is widely used in door core, automotive interior, trunk cover plate and other fields.

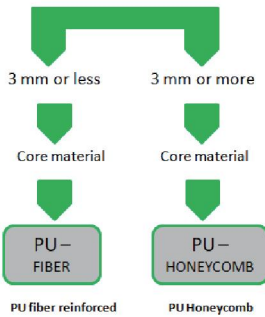
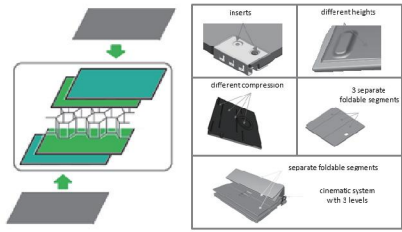


Structure

- The sandwich structure is composed of fiber composite components and PU spraying system.
If the component thickness is 3mm or more, a lightweight core material, usually hexagonal, is added.

Advantages

- High strength
- High bearing capacity
- Light weight
- ECO friendly
- High design flexibility
- Different thickness
- Different edge designs and press shapes
- Single or multi-component configuration hinges
- Component assembly
- Easy to decorate / compound

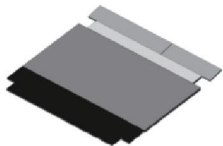


● Light weight structure

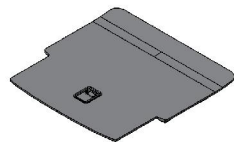
● Flexibility of design

● High mechanical properties

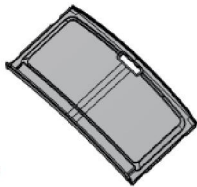
Applications



Luggage compartment floor



Luggage compartment cover



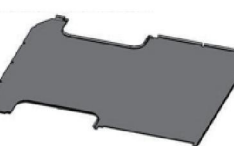
Car sun visor



Back support plate



Coat rack component



Floor system

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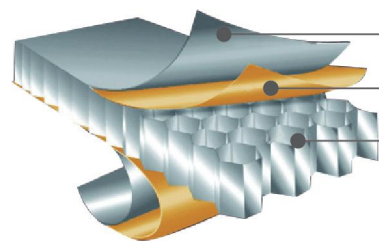


Honeycomb Composite Panel

Honeycomb composite panel is compounded and pressed by aluminum alloy sheets, or stainless steel sheets etc and aluminum honeycomb core with PU /epoxy adhesive. It is light weight, high strength, good hardness, sound and heat insulation. Among them, aluminum honeycomb panel is a kind of breakthrough from aerospace application to commercial application, and it is one of best environmental composite materials with perfect strength to weight ratio. It is widely used for building and construction industry, transportation industry and other fields.



Structure



PVDF/PE coated aluminum plate

Adhesive

Aluminum honeycomb core

Features

- Fireproofing property
- Super flatness and rigidity
- Moisture resistance
- Light weight and energy saving
- Environmental
- Corrosion resistant
- Easy installation
- Sound insulating, heat insulating, heat preservation

Specifications

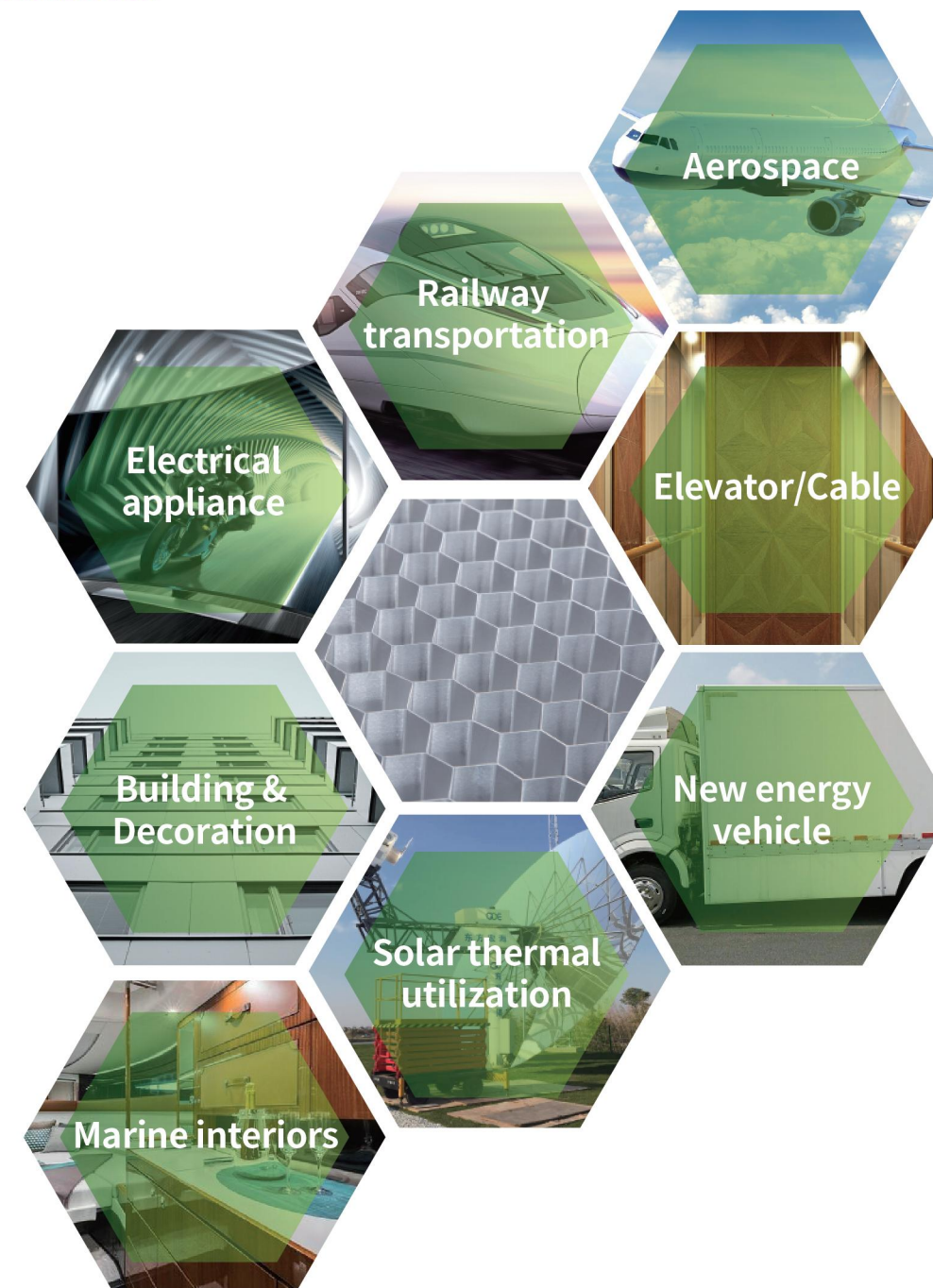
Model	Height (mm)	Top skin (mm)	Bottom skin (mm)	Core (mm)	Dimension (mm)	Weight (kg/m ²)	Inflexibility (k Nm/m ²)	Section modulus (cg ³ /m)
H06	6	0.6	0.5	8-19	1200x2400	4.9	0.71	2.5
H10	10	0.8	0.7	8-19	1200x2400	5.3	2.49	4.5
H15	15	0.8-1.0	0.8	8-19	1200x2400	7.0	7.55	14
H20	20	1.0	0.8	8-19	1200x2400	7.4	13.9	19
H25	25	1.0	0.8	8-19	1200x2400	7.8	22.17	24

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