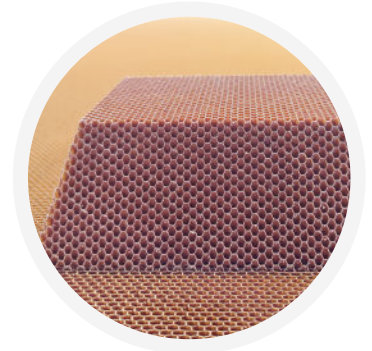


## Introduction

ARGOSY Aramid Honeycomb Core is a kind of sandwich structure composite made of aramid core by printing, stacking, thermal pressing, stretching, dipping, curing, slicing, and other machining processes, and by dipping in fire-resistant phenolic resin. Aramid core has a range of features such as:

- Good resin infiltration
- High specific strength and stiffness
- Excellent corrosion resistance and self-extinguishment
- Better weather resistance and insulation
- Good penetrating electromagnetic wave property
- High stability



## Available Formats

It is available in different cell sizes such as 3.2mm, 4.0 mm, 4.8 mm, 6.4 mm, and 9.6 mm, with a density ranging from 24 kg/m<sup>3</sup> to 144 kg/m<sup>3</sup>. It has regular cell sizes, even density, and consistent color, and its physical property, mechanical property, and fire-resistance property can meet the material standard of commercial aircraft. Highly efficient, technologically advanced automated production lines can produce large-sized honeycomb up to 2,440 mm(W), 1,220 mm(L), and 914 mm(H), leading the industry's efficiency and technology.

## Typical Applications

Argosy Aramid Honeycomb Core is widely used in:

- Aircraft
- Satellites
- Automobiles
- Sports equipment
- Rockets
- High-speed trains
- Construction
- Other fields
- Spacecraft
- Ships

## Technical Data

Mechanical properties of commercial grade honeycomb at room temperature.

### ACCH-2I-3/16-1.4

TEST ITEM (PSI)					
STAB.COMP.(PSI)	BARE.COMP.(PSI)	L SHEAR (PSI)	L SHEAR MOD. (PSI)	W SHEAR (PSI)	W SHEAR MOD (PSI)
MIN.AVG.	MIN.AVG. ≥40	MIN.AVG. ≥35	MIN.AVG. ≥2000	MIN.AVG. ≥25	MIN.AVG. ≥1150
74	62	59	2927	40	1868

## ACCH-2I-1/8-1.8

TEST ITEM (PSI)				
BARE.COMP. (PSI)	L SHEAR (PSI)	L SHEAR MOD. (PSI)	W SHEAR (PSI)	W SHEAR MOD (PSI)
MIN.AVG. ≥90	MIN.AVG. ≥67	MIN.AVG. ≥2300	MIN.AVG. ≥38	MIN.AVG. ≥1500
103	94	4377	54	2192

## ACCH-2I-1/8-2.0

TEST ITEM (PSI)				
BARE.COMP. (PSI)	L SHEAR (PSI)	L SHEAR MOD. (PSI)	W SHEAR (PSI)	W SHEAR MOD (PSI)
MIN.AVG. ≥100	MIN.AVG. ≥95	MIN.AVG. ≥4000	MIN.AVG. ≥53	MIN.AVG. ≥2000
155	109	4944	63	2699

## ACCH-2I-1/8-2.3

TEST ITEM (PSI)				
BARE.COMP. (PSI)	L SHEAR (PSI)	L SHEAR MOD. (PSI)	W SHEAR (PSI)	W SHEAR MOD (PSI)
MIN.AVG. ≥140	MIN.AVG. ≥110	MIN.AVG. ≥4500	MIN.AVG. ≥60	MIN.AVG. ≥2500
206	120	5472	73	3421

## ACCH-2I-3/16-2.3-OX

TEST ITEM (PSI)					
STAB.COMP.(PSI)	BARE.COMP.(PSI)	L SHEAR (PSI)	L SHEAR MOD. (PSI)	W SHEAR (PSI)	W SHEAR MOD (PSI)
MIN.AVG	MIN.AVG.	MIN.AVG. ≥60	MIN.AVG. 2200±600	MIN.AVG. ≥68	MIN.AVG. 4500-1000/+1200
163	155	87	2726	95	5068

## ACCH-2I-1/8-3.0

TEST ITEM (PSI)					
STAB.COMP.(PSI)	BARE.COMP.(PSI)	L SHEAR (PSI)	L SHEAR MOD. (PSI)	W SHEAR(PSI)	W SHEAR MOD (PSI)
MIN.AVG. ≥250	MIN.AVG.	MIN.AVG. ≥155	MIN.AVG. ≥5200	MIN.AVG. ≥84	MIN.AVG. ≥2800
337	320	195	7545	116	4325

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