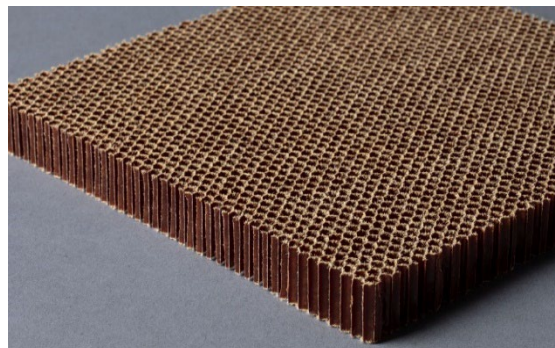


# SPAHI<sup>®</sup> Showa Para-Aramid Honeycomb

## Description

SPAHI<sup>®</sup> is produced with Para-aramid fiber sheets. These sheets are bonded by a thermosetting adhesive at the nodes. After expanded to the hexagonal cell configuration, it is dipped in a heat resistant phenolic resin and cured in an oven. SPAHI<sup>®</sup> is available at the required core thickness since the cutting to thickness is done according to customer's request.



## Features

- High strength-to-weight ratio
- Damage Resistant
- Fire Resistant (Self-Extinguishing)
- Water and Fungus Resistant
- Excellent Dielectric Properties
- Good Surface for Bonding

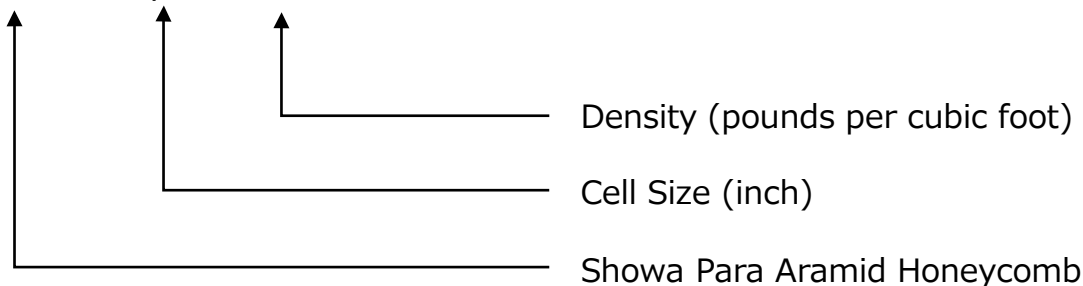
## Applications

- Aircraft floor and interior
- Aircraft wing trailing and leading edges
- Aircraft flaps, access panels and doors
- Sports and leisure

## Type Designation

Example

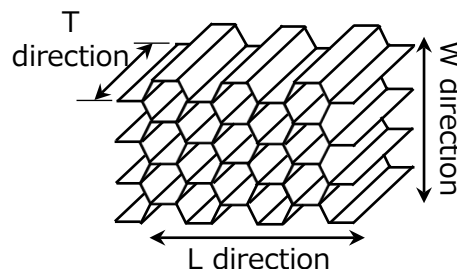
SPAHI - 1/8 - 4.5



## Standard Dimensions

L Direction	W Direction	T Direction (Min.)
48 +2/-0 inch (1200 +50/-0 mm)	144 +4/-0 inch (3657 +100/-0 mm)	0.125 ±0.01 inch (3.2 ±0.25 mm)

## Dimensional Nomenclature



<T Direction Tolerance>

0.12~2.00 inch (3.00~50.00 mm) : ±0.006 inch (±0.15 mm)

2.01~4.00 inch (50.01~100.00 mm) : ±0.01 inch (±0.25 mm)

More than 4.01 inch (101.854mm) : ±0.12 inch (±3.00 mm)

NOTE: For more information, please contact our Sales Office

**Mechanical Properties at Room Temperature**

Designation	Compressive		Plate Shear			
	Strength		L Direction		W Direction	
	Bare (psi)	Stabilized (psi)	Strength (psi)	Modulus (ksi)	Strength (psi)	Modulus (ksi)
SPAH-I-1/8-4.5	842	928	326	27.7	191	15.7
SPAH-I-1/8-5.0	1085	1195	385	30.4	225	16.5
SPAH-I-1/8-6.5	1518	1679	418	29.5	296	20.8
SPAH-I-1/8-8.5	2670	2819	674	52.1	458	24.3
SPAH-I-1/8-11.0	2974	3313	687	54.2	509	29.1
SPAH-I-5/32-4.5	710	792	326	27.7	191	15.7

**NOTE:**

- Bare compression is a compression test of honeycomb core.  
Stabilized compression is a compression test of a honeycomb panel.
- The above data are the properties when tested per SAE-AMS-STD-401 at room temperature using 0.500 inch core thickness.
- The typical values represent the mean average of relatively large number of test values from many blocks of honeycomb, and are not guaranteed.
- Tolerance of the density is 10%± of nominal density.

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Nomex® is Registered Trademark of DuPont.

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