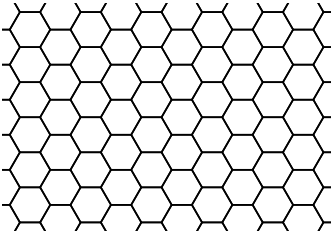
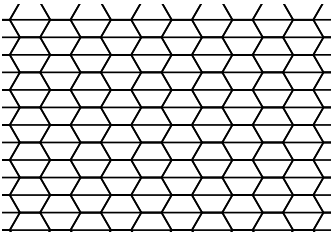


# PAHD-XR1 5052 Aluminum Honeycomb



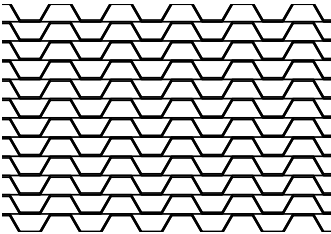
## Description:

PAHD-XR1 5052 corrugated aerospace grade aluminum honeycomb is a high density core material which offers superior strength over expanded aluminum honeycomb. PAHD-XR1 5052 honeycomb is made from 5052 aluminum alloy foil and can be tested in accordance with customer requirements.



## Applications:

PAHD-XR1 5052 honeycomb uses include engine nacelles, roll formed applications, energy absorption, anchor points, reinforcements, and other applications where light weight high strength materials are required. PAHD-XR1 5052 honeycomb is suitable for applications where materials with high compression and shear values are required.



## Cell Configurations:

- STD - Standard Hexagonal
- R2 - Bisected Hexagonal
- R2S[DG] - Bisected Staggered [Different Gauge]
- 2R2S - Reinforced Bisected Staggered
- R2S-Cross - Alternating Cell Axis for multi-axis strength (limited block size)

## Availability:

PAHD-XR1 5052 honeycomb is available in three forms: untrimmed sheets, cut to size sheets, and machined components. Density is dependant on cell size and configuration.

<b>Cell Sizes:</b>	1/8" - 3/16"
<b>Densities:</b>	14.5 pcf - 55.0 pcf
<b>Sheet "Ribbon" (L):</b>	36" typical - 96" max
<b>Sheet "Transverse" (W):</b>	30" typical
<b>Tolerances:</b>	Length: +6", - 0"
	Width: +6", - 0"
	Thickness: ± .010" (under 4" thick)

## Features:

- Elevated use temperatures
- High thermal conductivity
- Flame resistant
- Excellent moisture and corrosion resistance
- Fungi resistant
- High strength
- Machinable
- Roll formable

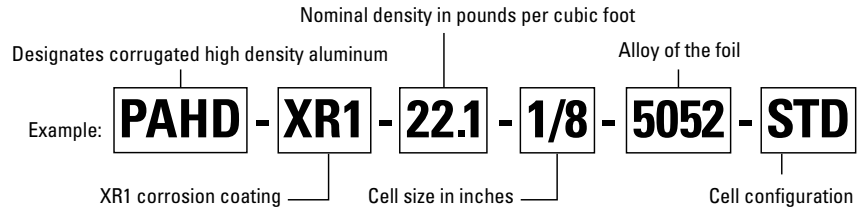
**NOTE:** Special dimensions, sizes, tolerances, and CNC machining can be provided upon request.

## Corrosion Resistance:

The chromated XR1 coating offers excellent protection for honeycomb cores exposed to corrosive environments, meeting the requirements of AMS C7438 Rev A, CL2.

# PAHD-XR1 5052 aluminum honeycomb is specified as follows:

Trade Name - Corrosion Coating - Density - Cell Size - Alloy - Cell Configuration



			<b>PAHD-XR1 5052 Typical Mechanical Properties*</b>				
			<b>Compressive Strength (PSI)</b>		<b>Shear Strength (PSI)</b>		<b>Crush Strength (PSI)</b>
CELL SIZE inch	NOMINAL DENSITY PCF	CONFIGURATION	BARE	STABILIZED	"L"	"W"	
1/8	14.5	STD	2900	3000	1700	800	2000
3/16	15.7	STD	3200	3300	1700	800	2000
1/8	22.1	STD	5200	5200	2500	1500	4050
3/16	22	R2SDG	5200	5200	2500	1500	2600
3/16	25	R2S	5500	5600	3000	1500	2800
1/8	30	R2S-Cross	-	-	-	-	2900
1/8	35	R2	7500	7700	4000	2000	6200
1/8	55	2R2S	8500	10000	4500	2250	8000

NOTE: Custom densities and configurations available upon request

Tested at 0.625" per the methods defined in AMS C7438 Rev A at room temperature.

\*Minimum values may be up to 25% lower than typical values.

Plascore, Inc., employs a quality management system that is AS/EN/JISQ 9100, ISO 9001:2008 and ISO 14001:2004 certified.

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