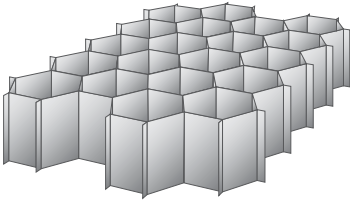


# PCGA-XR2 3003 Aluminum Honeycomb



## Description:

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PCGA-XR2 3003 commercial grade aluminum honeycomb is a lightweight core material offering excellent strength and good corrosion resistance for industrial applications at low cost. PCGA-XR2 3003 honeycomb is made from 3003 aluminum alloy foil.

## Applications:

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PCGA-XR2 3003 honeycomb uses include air/light directionalization, energy absorption, tooling, ceiling and floor panels, counter tops and other applications for which elevated physical and mechanical properties are not required.

## Features:

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- High thermal conductivity
- Flame resistant
- Good moisture and corrosion resistance
- Fungi resistant
- Low weight / High strength

## Availability:

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PCGA-XR2 3003 honeycomb is available in four forms: unexpanded blocks, unexpanded slices, untrimmed expanded sheets and cut to size expanded sheets. It is also available with or without cell perforations to facilitate cell venting for certain applications.

<b>Cell Sizes:</b>	1/4" - 1.0"
<b>Densities:</b>	1.2 pcf - 5.2 pcf
<b>Sheet "Ribbon" (L):</b>	48" typical - 72" max
<b>Sheet "Transverse" (W):</b>	96" typical - 200" max
<b>Sheet Thickness (T):</b>	35" max
<b>Tolerances:</b>	Length: + 6", - 0"
	Width: + 6", - 0"
	Thickness: ± 0.008" (under 4" thick) ± 0.062" (over 4" thick)
	Density: ± 15%
Cell Size: ± 15%	

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

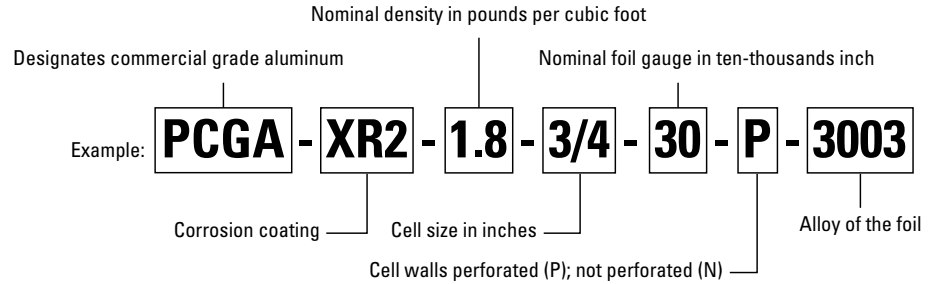
## Corrosion Resistance:

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The XR2 corrosion coating offers a chrome-free clear protective film, providing good corrosion resistance.

# PCGA-XR2 3003 commercial grade aluminum honeycomb is specified as follows:

Trade Name - Corrosion Coating - Density - Cell Size - Foil Gauge - Perforation - Alloy



PCGA-XR2 3003 Mechanical Properties													
CELL SIZE		NOMINAL DENSITY		COMPRESSIVE STRENGTH (BARE)		PLATE SHEAR STRENGTH "L" DIRECTION		PLATE SHEAR MODULUS "L" DIRECTION		PLATE SHEAR STRENGTH "W" DIRECTION		PLATE SHEAR MODULUS "W" DIRECTION	
in	mm	lb/Ft <sup>3</sup>	Kg/m <sup>3</sup>	psi	Mpa	psi	Mpa	ksi	Gpa	psi	Mpa	ksi	Gpa
1/4	6.4	5.2	83	680	4.69	330	2.28	67	0.46	195	1.34	37	0.26
3/8	9.6	3.6	58	340	2.34	227	1.56	55	0.38	135	0.93	25	0.17
1/2	12.7	2.5	40	205	1.41	140	0.97	38	0.26	77	0.53	15	0.10
3/4	19.0	1.8	29	125	0.86	105	0.72	23	0.16	61	0.42	13	0.09
1.0	24.4	1.2	19	85	0.59	70	0.48	14	0.10	50	0.34	7	0.05

Note: Additional densities and configurations available upon request.

Tested at 0.625”T per AMS STD 401 at room temperature.

Certificates of conformance are not provided. Values stated are for reference only.



Plascore, Inc., employs a quality management system that is Nadcap, AS9100, ISO 9001 and ISO 14001 certified.

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