

PCGA-XR2 3000 Series **Aluminum Honeycomb**

		PCGA-X	R1 3000 Se	ries Mechani	ical Prop	erties			
PLASCORE® Honeycomb Designation			Bare C	ompressive	Plate Shear				
Core Type	Cell Size	Density	Strength PSI	Modulus KSI	Strength PSI "L" "W"		Modulus KSI "L" "W"		
PCGA-XR1	1/4	5.2	620	148	345	215	63	31	
PCGA-XR1	3/8	3.6	325	92	210	130	40	20	
PCGA-XR1	1/2	2.5	165	40	130	70	25	15	
PCGA-XR1	3/4	1.8	110	24	95	55	16	8	
PCGA-XR1	1.0	1.4	75	16	55	40	14	7	

Description:

PCGA-XR2 3000 Series commercial grade aluminum honeycomb is a lightweight core material offering excellent strength and good corrosion resistance for industrial applications at low cost. PCGA-XR2 3000 Series honeycomb is made from 3000 Series aluminum alloy foil.

Applications:

PCGA-XR2 3000 Series 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:

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

Availability:

PCGA-XR2 3000 Series 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.

Cell Sizes: 1/4" - 1.0"

Densities: 1.2 pcf - 5.2 pcf

Sheet "Ribbon" (L): 48" typical - 72" max Sheet "Transverse" (W): 96" typical - 200" max

Sheet Thickness (T): 35" max

Tolerances: Length: + 6", - 0"

> Width: + 6", - 0"

Thickness: ± 0.008" (under 4" thick)

± 0.062" (over 4" thick)

Density: ± 15% Cell Size: ± 15%

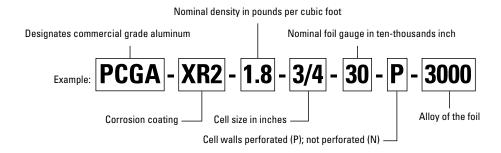
Special dimensions, sizes, tolerances, CNC machining and die cut to size can be provided upon request.

Corrosion Resistance:

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

PCGA-XR2 3000 Series commercial grade aluminum honeycomb is specified as follows:

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



	PCGA-XR2 3000 Series Mechanical Properties												
CELL	SIZE	NOMINAL DENSITY		STRE	STRENGTH ST		SHEAR PLATE SHEA NGTH MODULUS CTION "L" DIRECTIO		ULUS	PLATE SHEAR STRENGTH "W" DIRECTION		PLATE SHEAR MODULUS "W" DIRECTION	
in	mm	lb/Ft³	Kg/m³	psi	Мра	psi	Мра	ksi	Gpa	psi	Мра	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



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