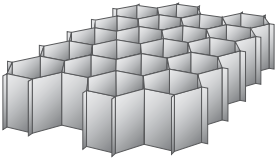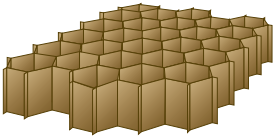# HONEYCOMB SELECTOR GUIDE

Metallic Honeycomb

	Density Range (pcf)	Service Temperature Limit (F)	Moisture Resistance	Chemical Resistance	Strength	Stiffness	Smoke & Fire Resistance	Air/Fluid Flow Medium	Machinable	Thermal Conductivity	Radar Transparency	RFI Shielding	Energy Absorbing	Formable	Cost
PCGA-3000 Series Commercial	1.4-5.2	350	○	○	●	●	●	+	○	●	n/a	●	●	○	–
PAMG-5052 Military	1.0-8.1	350	○	○	●	●	●	+	○	●	n/a	●	●	○	○
PAMG-5056 Military	1.0-8.1	350	○	○	●	●	●	+	○	●	n/a	●	●	○	○
PAHD-5052 High Density	14.5-55.0	350	○	○	+	+	●	○	●	●	n/a	●	●	○	●
SSH Stainless Steel	5.3-7.1	350	○	●	●	●	●	●	–	●	n/a	n/a	●	○	●

Aramid Fiber Honeycomb

	Density Range (pcf)	Service Temperature Limit (F)	Moisture Resistance	Chemical Resistance	Strength	Stiffness	Smoke & Fire Resistance	Air/Fluid Flow Medium	Machinable	Thermal Conductivity	Radar Transparency	RFI Shielding	Energy Absorbing	Formable	Cost
PN1 Nomex Commercial	2.0-6.0	350	●	○	●	○	+	n/a	○	–	○	n/a	n/a	○	○
PN2 Nomex Aerospace	1.8-9.0	350	●	○	●	○	+	n/a	○	–	○	n/a	n/a	○	●
PK2 Kevlar Aerospace	2.0-6.0	350	●	○	●	○	+	n/a	○	■	○	n/a	n/a	○	+

Thermoplastic Honeycomb

	Density Range (pcf)	Service Temperature Limit (F)	Moisture Resistance	Chemical Resistance	Strength	Stiffness	Smoke & Fire Resistance	Air/Fluid Flow Medium	Machinable	Thermal Conductivity	Radar Transparency	RFI Shielding	Energy Absorbing	Formable	Cost
PC2 Polycarbonate	4.0-20.0	200	+	○	○	○	○	+	○	■	○	○	○	–	○
PP Polypropylene	3.5-20.0	200	+	●	–	–	–	○	–	■	–	n/a	○	●	–

■ Very Low   – Low   ○ Medium   ● High   + Very High

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

PLASCORE®

For part numbers, technical documents, and ordering, visit our website at **www.FreemanSupply.com.**

Freeman 360°
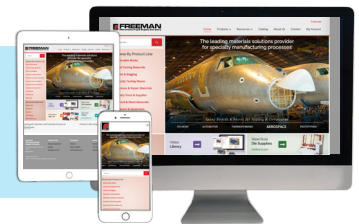
Typical Panel Options

Skin Materials:

- Aluminum
- Stainless Steel
- High Pressure Laminate
- Glass/Epoxy Prepreg
- G10 Fiberglass
- For other materials, please contact us.

Skin Finishes:

- Clear Epoxy Primer
- Mill Finish
- Bond and/or Paint Ready
- Decorative
- Powder Coat
- For other finishes, please contact us.

Honeycomb Cores:

- Aluminum (Commercial and Aero/Military Grade)
- Stainless Steel
- Nomex® (Commercial and Aero/Military Grade)
- Kevlar® (Aero/Military Grade)
- Polypropylene
- Polycarbonate

Adhesives:

- Commercial grade toughened epoxy
  - Cost-effective
  - Service Temperatures up to 180°F.
- Modified Epoxy Film Adhesive
  - Service Temperature options up to 400°F.
  - Multiple weights available
  - Can be MIL spec or ASTM certified
- Other adhesive types available by request.

Sizes:

- Thickness: 1/8"– 3" standard
- Width: 48" and 60" standard
- Length: Up to 190" standard
- For all other sizes, please contact us.

These are all standard options. Please contact your Plascore Sales Representative to ask about all other options.