



STOCK ALUMINUM HONEYCOMB PANELS
3/8" Cell-3003 Series Commercial Honeycomb
5052-H32 Mill Finish Aluminum Face Sheet

Description:

Flatiron's Stock Aluminum Honeycomb Panels comprise of 5052-H32 Mill Finish PVC masked Face Sheets laminated to a 3/8" cell - 3003 alloy 3.6 lbs./FT³ Aluminum Honeycomb Core. A two-part commercial grade epoxy with a service temperature between -50°F and 250°F is leveraged as the bonding agent. The average Lap Shear strength for our stock panels is 900-psi at 73°F and 1205-psi at -40°F.

Cutting Tolerances:

- Flatness: +/- 0.008" Radial Feet
- Thickness: +/- 0.015in
- Length and Width: +/- 0.125in
- Saw Cut: +/- 0.063in
- CNC Router: +/- 0.008in



COMMERCIAL GRADE ALUMINUM HONEYCOMB STOCK PANELS

PART NO.	PANEL THICKNESS	FACE SKIN THICKNESS	PANEL WEIGHT	DEFLECTION @500lbs*
AHP 04038-1	1.0in	0.040in	45lbs	0.008in
AHP 04038-75	0.75in	0.040in	44lbs	0.014in
AHP 04038-5	0.50in	0.040in	40lbs	0.032in
AHP 04038-375	0.375in	0.040in	39lbs	0.059in
AHP 04038-250	0.25in	0.040in	38lbs	0.147in
AHP 04038-125	0.125in	0.020in	22lbs	n/a

All panels available for purchase online, feel free to contact us with your order as well. 303-664-9601 or sales@flatironpanelproducts.com. We also carry all panels listed in Black, white, clear anodized finish. We can customize and make panels up to 5' x 12' upon request.

**Note – FEA Load Scenario: Fixed at all edges; Applied Load: Uniform*

Material Mechanical Property Details:

5052-H32:		3/8-3003 Aluminum Commercial Grade Core:	
Hardness, Brinell	68	Density	3.6 lbs/ft ³
Ultimate Tensile Strength	38000 psi	Stabilized Crush Resistance	150 psi
Tensile Strength	31000 psi	Shear Strength	240 psi (L) 140 psi (W)*
Poisson's Ratio	0.33	Shear Modulus	46 ksi (L) 23 ksi (W)*

**(L) – Longitudinal Direction, Parallel to core ribbon. (W) – Transverse Direction, Perpendicular to Core Ribbon*

Our stock panels are A+ Fire Rated and are in accordance with ASTM test method E84 – 10a "Standard Test Method for Surface Burning Characteristics of Building Materials." Report is available upon request. Flatiron Panel Products takes no responsibility for actual performance in customer products. Please contact us with any questions.