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Aluminum Honeycomb Core (CR III)

Aluminum honeycomb has the best strength-to-weight ratio of the core materials in the FAA list.

HexWeb CR III 5052, 1/8 in cell, typical values

Density, lb/ft³	Bare compressive, psi	Plate shear L, psi	Plate shear W, psi
3.1	285	210	130
4.5	550	340	220
6.1	980	560	340
8.1	1,500	800	470

Key points

- **One alloy family and cell size shown.**
- **Typical values.** Minimum values are lower.
- **Comparison with Nomex** mixes two manufacturers’ sheets.

SOURCES · Hexcel HexWeb CR III Corrosion Resistant Specification Grade Aluminum Honeycomb, Product Data Sheet · Hexcel HexWeb HRH-10 Product Data Sheet · FAA-H-8083-31B, AMT Handbook — Airframe, Volume 1, Chapter 7

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Educational reference only, not approved data. Always consult the applicable SRM, AMM, or AC 43.13-1B and your certifying authority.