

Aluminum honeycomb is one of the most widely used core materials in the aerospace industry. Many combinations of core densities and face materials enable the designer to specify panels to meet a wide variety of requirements.



Geneerco #3, Types 41, 42 and 44

Geneerco #3, Types 41, 42 and 44, consist of aluminum honeycomb cores sandwiched between cross-plyed unidirectional fiberglass reinforced epoxy faces. These bonded sandwich panels offer light weight, high performance, flame resistance and cost effectiveness. Type 44 combines the light weight of Type 41 with the strength of Type 42 in a versatile dual-

density panel. Multiple-density panels can be configured to meet the specific needs of the customer. Research and development testing on fatigue properties indicate a long service life can be expected, particularly with the heavy-density honeycomb core.

Geneerco Floor #3, Types 41, 42 and 44, are qualified to BMS 4-23 Types I, II and IV.

Geneerco Structures are available for many applications and installations that require quality products at a competitive cost. Please contact General Veneer Manufacturing Co. for more information regarding other available panel types.

As primary manufacturers of composite sandwich structures, we can help customers achieve maximum efficiency and cost-effectiveness when we also machine finished parts and add coatings, putty, and aerospace hardware.

General Veneer Manufacturing Co. has been supplying lightweight parts and raw materials to the Aircraft and Aerospace Industry for over 50 years.

General Veneer Manufacturing Co.
8652 Otis Street • P.O. Box 1607 • South Gate, California 90280 • U.S.A. • (323) 564-2661
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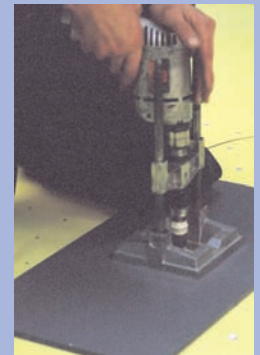
Geneerco #3, Types 41, 42 and 44

Typical Physical and Mechanical Properties				
Physical Description	Typical Values			Unit
Geneerco #3	Type 41	Type 42	Type 44	
Weight	0.55	0.64	0.55/0.64	p.s.f.
Overall Thickness	0.400	0.400	0.400	in.
Top Skin Thickness	0.015	0.015	0.015	in.
Bottom Skin Thickness	0.015	0.015	0.015	in.
Nominal Core Density	5.0	9.0	5.0/9.0	p.c.f.
Core Alloy	5052	5052	5052	n/a
Length • Nominal 96", 120", 144"	Up to 192	Up to 192	Up to 192	in.
Width • Nominal 48", 60", 72"	Up to 72	Up to 72	Up to 72	in.

Panels are available in other thicknesses, widths, lengths and core densities per customer request. Some widths may require skin splices.

Panel Strength • Test Method	Typical Values			Unit
Geneerco #3	Type 41	Type 42	Type 44	
Stabilized Compression • MIL-STD-401	750	1400	750/1400	p.s.i.
Long Beam Bending • MIL-STD-401 (20 in. Span, 1/4 Point Loading)	235	240	230	lb.
Deflection at 100 lbs.	0.85	0.8	0.85	in.
Climbing Drum Peel • Standard Condition	35	40	35	in-lb/3 in. width
Flammability • 60 Sec. Vertical Ignition	10	10	10	sec.
Panel Shear • MIL-STD-401	500	800	500	lb.
Impact	40	60	40/60	in-lb

Values listed represent theoretical averages to be expected. Prospective users should evaluate the material to determine if material is suitable for the users' specific requirements. User assumes all risk and responsibilities for any loss or damage caused by or resulting from the use of any information contained within this product bulletin.



Need a part, not just a raw panel? General Veneer Manufacturing Co. can machine, drill, fill, prime, paint and add hardware to your product. We are a fully automatable shop, with 3 large CNC routers and a team of specialists for delicate custom work. Our finished parts fly daily and are launched into space on a regular basis.

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