

Nomex<sup>®</sup> honeycomb was developed with the advent of the wide-body commercial airplane for use in flooring, bulkheads, dividers, galley structures and lavatories. General Veneer Manufacturing Co. was among the first to use it in production. Nomex<sup>®</sup> core offers high impact resistance and compressive properties and performs superbly on the food cart roller test.

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

## Geneerco #6, Type 66

Geneerco #6 series is a non-metallic core bonded sandwich panel. This panel offers light weight, high performance, corrosion resistance, flame retardancy, impact resistance and cost effectiveness in one bonded sandwich panel with reinforced polymer or metallic faces. Although

designed for use in flooring applications, these qualities make it suitable for use in a wide range of applications. Fatigue testing indicates a long service life can be expected.

Type 66 uses medium density Nomex<sup>®</sup> honeycomb core, with woven phenolic fiberglass skins.

*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.*

*Nomex<sup>®</sup> is a registered trademark of DuPont.*

## Generco #6, Type 66

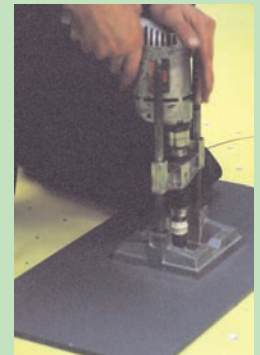
Typical Physical and Mechanical Properties						
Physical Description	Typical Values					Unit
Generco #6, Type 66	Class B	Class D	Class E	Class F	Class H	
Weight	0.64	0.74	0.78	0.82	1.14	p.s.f.
Overall Thickness	0.290	0.400	0.500	0.600	1.000	in.
Top Skin Thickness	0.020	0.020	0.020	0.020	0.020	in.
Bottom Skin Thickness	0.020	0.020	0.020	0.020	0.020	in.
Nominal Core Density	9.0	9.0	9.0	9.0	9.0	p.c.f.
Length • Nominal 96", 120", 144"	Up to 192	Up to 192	Up to 192	Up to 192	Up to 192	in.
Width • Nominal 48", 60", 72"	Up to 72	Up to 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
Generco #6, Type 66	Class B	Class D	Class E	Class F	Class H	
Stabilized Compression • MIL-STD-401	1600	1600	1600	1600	1600	p.s.i.
Long Beam Bending • MIL-STD-401 (20 in. Span, 1/4 Point Loading)	175	280	350	350	350	lb.
Deflection at 100 lbs.	1.5	0.55	0.42	0.3	0.1	in.
Climbing Drum Peel • Standard Condition	20	30	20	20	20	in-lb/3-in. width
Flammability • 60 Sec. Vertical Ignition	15	15	15	15	15	sec.
Panel Shear • MIL-STD-401	500	585	900	1000	1800	lb.
Impact	30	30	30	30	30	in-lb
Heat Release • FAR 25.853 Para A-1	65/65	65/65	65/65	65/65	65/65	max.

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.

Class A, C and G are reserved for future use.



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.

General Veneer Manufacturing Co.

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