

Geneerco Floor #6, Nomex[®] Honeycomb Sandwich Structures

1. Background

General Veneer Manufacturing Co. has been supplying lightweight materials and products to the aircraft and aerospace industry for over 50 years. With the advent of the wide body commercial airplane, new materials were required to meet their specific needs. We were among the first to use these new materials in production and have continued to develop new configurations.

Flooring materials were one of the major areas of concern to the airframe manufacturers, and Nomex[®] Honeycomb was developed for this application. Nomex[®] core possesses excellent high impact strength and performs superbly on the food cart roller test.

With the new advanced composites being developed, it was natural to combine this lightweight core material with a variety of facing materials.

2. Product Introduction

Geneerco Floor #6 series is a non-metallic core bonded sandwich panel. This panel offers light weight, high performance, corrosion resistance, flame retardancy, and cost effectiveness in one bonded sandwich panel with reinforced polymer or metallic faces. These qualities make it suitable for use in a wide range of applications such as floors, bulkheads, dividers, galley structures and lavatories.

3. Performance

Research and development testing on fatigue properties indicate a long service life can be expected. Geneerco flooring is suitable for many applications and for installations that require quality products at a competitive in-place cost, Geneerco flooring excels.

Please contact General Veneer Manufacturing Co. for more information regarding physical and mechanical properties of specific panel types.

4. Type Identification

Listed in the following table are some of the products currently being manufactured and used for flooring applications. Other products are available for specific applications.

Geneerco Floor #6, Nomex® Honeycomb Sandwich Structures

Type/Class	Top Face	Bottom Face	Thk. ^①	Core ^②	Weight ^③
1	.016 2024 T3	.012 2024 T3	.400	1/4 4.0 LB	.590
2	.035 Epoglass	.023 Epoglass	.400	1/4 4.0 LB	.772
3	.012 Titanium	.005 Titanium	.375	3/16 6.0 LB	.610
4	.025 2024 T3	.010 2024 T3	.375	1/4 4.0 LB	.692
5	.016 7075 T6	.010 7075 T6	.375	1/8 6.0 LB	.619
6	.030 Geneerco Epoglass	.020 Geneerco Epoglass	.375	1/8 6.0 LB	.836
7	.016 7075 T6	.010 7075 T6	.400	1/8 5.0 LB	.653
8	.015 Geneerco Uni-Glass	.015 Geneerco Uni-Glass	.400	1/8 5.0 LB	.520
9	.015 Geneerco Uni-Glass	.015 Geneerco Uni-Glass	.400	1/8 9.0 LB	.640
10	.022 Geneerco Uni-Glass	.022 Geneerco Uni-Glass	.400	1/8 9.0 LB	.780
11	.030 Geneerco Phenoglass	.020 Geneerco Phenoglass	.375	3/16 6.0 LB	.720
12	.040 Geneerco Phenoglass	.030 Geneerco Phenoglass	.375	1/8 8.0 LB	.970
13	.040 Geneerco Uni-Glass	.040 Geneerco Uni-Glass	.375	1/8 9.0 LB	1.300
14	.015 Geneerco Uni-Glass	.015 Geneerco Uni-Glass	.375	1/8 9.0 LB	.620
15	.015 Geneerco Uni-Glass	.015 Geneerco Uni-Glass	.375	1/8 5.0 LB	.510
16	.015 Geneerco Uni-Glass	.015 Geneerco Uni-Glass	.675	1/8 5.0 LB	.640
19	.015 Geneerco Uni-Glass with .032 2024 T3 surface	.015 Geneerco Uni-Glass	.432	1/8 9.0 LB	
20	.030 Geneerco Uni-Glass	.030 Geneerco Uni-Glass	.400	1/8 11.0 LB	.980
32	.015 Geneerco Carbon/Epoxy	.015 Geneerco Carbon/Epoxy	.400	1/8 9.0 LB	.580
33	.015 Geneerco Carbon/Epoxy	.015 Geneerco Carbon/Epoxy	.400	1/8 5.0 LB	.460
55/B	.020 Geneerco Uni-Glass/Phenolic	.020 Geneerco Uni-Glass/Phenolic	.290	1/8 9.0 LB	.740
55/D	.015 Geneerco Uni-Glass/Phenolic	.015 Geneerco Uni-Glass/Phenolic	.400	1/8 9.0 LB	.640
55/E	.015 Geneerco Uni-Glass/Phenolic	.015 Geneerco Uni-Glass/Phenolic	.500	1/8 9.0 LB	.740
55/F	.015 Geneerco Uni-Glass/Phenolic	.015 Geneerco Uni-Glass/Phenolic	.600	1/8 9.0 LB	.840
55/H	.015 Geneerco Uni-Glass/Phenolic	.015 Geneerco Uni-Glass/Phenolic	1.00	1/8 9.0 LB	1.15
65/AA	.030 Geneerco Phenoglass	.030 Geneerco Phenoglass	.125	1/8 5.0 LB	.720
65/A	.020 Geneerco Phenoglass	.020 Geneerco Phenoglass	.250	1/8 5.0 LB	.580
65/D	.020 Geneerco Phenoglass	.020 Geneerco Phenoglass	.400	1/8 5.0 LB	.600
65/F	.020 Geneerco Phenoglass	.020 Geneerco Phenoglass	.600	1/8 5.0 LB	.640
66/B	.020 Geneerco Phenoglass	.020 Geneerco Phenoglass	.290	1/8 9.0 LB	.640
66/D	.020 Geneerco Phenoglass	.020 Geneerco Phenoglass	.400	1/8 9.0 LB	.740
66/E	.020 Geneerco Phenoglass	.020 Geneerco Phenoglass	.500	1/8 9.0 LB	.780

① Other thicknesses are available

② Core is available from 1/8 to 3/8 cell, 1.8 lb to 11.0 lb per cubic foot density.

③ Pounds per square foot, nominal.

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Type/Class	Top Face	Bottom Face	Thk. ^①	Core ^②	Weight ^③
66/F	.020 Geneerco Phenoglass	.020 Geneerco Phenoglass	.600	1/8 9.0 LB	.820
66/H	.020 Geneerco Phenoglass	.020 Geneerco Phenoglass	1.00	1/8 9.0 LB	1.14

① Other thicknesses are available

② Core is available from 1/8 to 3/8 cell, 1.8 lb to 11.0 lb per cubic foot density.

③ Pounds per square foot, nominal.