

Geneerco Floor #3, Aluminum 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.

2. Product Introduction

Aluminum honeycomb core is still one of the most widely used floor panels. In addition to floor panels, this core is used extensively throughout the aircraft industry. Many combinations of core densities enable the designer to specify panels to meet every requirement.

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 installations that require quality products at a competitive in-place cost.

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 combinations currently being manufactured and used throughout the aircraft and aerospace industry. Other products are available for specific applications.

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Type	Top Face		Bottom Face		Core ^①		Overall Thickness
	Thickness	Description	Thickness	Description	Cell	Thickness	
1	.016	7075 T6	.010	7075 T6	1/8	.0015	.400
2	.016	7075 T6	.010	7075 T6	1/8	.0007	.400
3	.020	7075 T6	.010	7075 T6	1/8	.0015	.400
4	.016	7075 T6	.012	7075 T6	1/8	.0007	.400
5	.016	7075 T6	.012	2024 T3	1/8	.003	.528
6	.016	7075 T6	.010	2024 T3	1/8	.003	.528
7	.012	7075 T6	.010	2024 T3	3/8	.003	.528
8	.020	7075 T6	.010	2024 T3	3/8	.003	.528
9	.020	7075 T6	.010	2024 T3	1/4	.004	.528
10	.012	2024 T3 ^②	.012	2024 T3	1/4	.002	.650
11	.016	2024 T3 ^②	.012	2024 T3	1/4	.002	.650
12	.016	2024 T3	.012	2024 T3	1/4	.003	.650
13	.025	2024 T3	.016	2024 T3	1/4	.003	.650
14	.016	2024 T3	.012	2024 T3	1/4	.002	.375
15	.025	2024 T81	.012	2024 T3	1/4	.002	.375
16	.025	Epoglass	.012	Epoglass	3/16	.002	.375
17	.020	2024 T3	.020	2024 T3	1/4	.002	.500
18	.032	2024 T3	.032	2024 T3	1/4	.002	.500
19	.040	2024 T3	.040	2024 T3	1/4	.002	.500
20	.010	2024 T3	.010	2024 T3	1/4	.002	.375
21	.032	2024 T3	.032	2024 T3	1/4	.002	.750
22	.020	2024 T3	.020	2024 T3	1/8	.0015	.500
25	.019	2024 T3	.019	2024 T3	1/4	.002	.750
26	.016	2024 T3	.012	2024 T3	1/4	.001	.375
31	.016	2024 T3 ^②	.016	2024 T3 ^②	1/4	.002	.500
32	.032	2024 T3	.032	2024 T3	1/4	.002	.750
36	.016	2024 T3 ^③	.016	2024 T3 ^③	3/16	.001N	.394
39	.020	7075 T6	.020	7075 T6	1/4	.002N	.500
40	.020	7075 T6	.020	7075 T6	1/4	.0025N	.750

① Aluminum 5052-H34

② Rigidized

③ Anodized