

Geneerco #3: Aluminum Honeycomb Sandwich Structures

The advent of the wide body commercial airplane called for new materials to meet new needs.

General Veneer Manufacturing Co. was among the first to use these materials in production and continues to develop new configurations. Please contact us for more information regarding physical

and mechanical properties of specific panel types.

Listed below are some of the combinations General Veneer Manufacturing Co. currently makes for use throughout the aircraft and aerospace industry. Other products and custom configurations are available for specific applications.

Type	Top Face		Bottom Face		Core ¹		Overall Thck.
	Thck.	Description	Thck.	Description	Cell	Thck.	
1	0.016	7075 T6	0.010	7075 T6	1/8	0.0015	0.400
2	0.016	7075 T6	0.010	7075 T6	1/8	0.0007	0.400
3	0.020	7075 T6	0.010	7075 T6	1/8	0.0015	0.400
4	0.016	7075 T6	0.012	7075 T6	1/8	0.0007	0.400
5	0.016	7075 T6	0.012	2024 T3	1/8	0.003	0.528
6	0.016	7075 T6	0.010	2024 T3	1/8	0.003	0.528
7	0.012	7075 T6	0.010	2024 T3	3/8	0.003	0.528
8	0.020	7075 T6	0.010	2024 T3	3/8	0.003	0.528
9	0.020	7075 T6	0.010	2024 T3	1/4	0.004	0.528
10	0.012	2024 T3 ²	0.012	2024 T3	1/4	0.002	0.650
11	0.016	2024 T3 ²	0.012	2024 T3	1/4	0.002	0.650
12	0.016	2024 T3	0.012	2024 T3	1/4	0.003	0.650
13	0.025	2024 T3	0.016	2024 T3	1/4	0.003	0.650
14	0.016	2024 T3	0.012	2024 T3	1/4	0.002	0.375
15	0.025	2024 T81	0.012	2024 T3	1/4	0.002	0.375
16	0.025	Epoglass	0.012	Epoglass	3/16	0.002	0.375
17	0.020	2024 T3	0.020	2024 T3	1/4	0.002	0.500
18	0.032	2024 T3	0.032	2024 T3	1/4	0.002	0.500
19	0.040	2024 T3	0.040	2024 T3	1/4	0.002	0.500
20	0.010	2024 T3	0.010	2024 T3	1/4	0.002	0.375
21	0.032	2024 T3	0.032	2024 T3	1/4	0.002	0.750
22	0.020	2024 T3	0.020	2024 T3	1/8	0.0015	0.500
25	0.019	2024 T3	0.019	2024 T3	1/4	0.002	0.750
26	0.016	2024 T3	0.012	2024 T3	1/4	0.001	0.375
31	0.016	2024 T3 ²	0.016	2024 T3 ²	1/4	0.002	0.500
32	0.032	2024 T3	0.032	2024 T3	1/4	0.002	0.750
36	0.016	2024 T3 ³	0.016	2024 T3 ³	3/16	0.001	0.394
39	0.020	7075 T6	0.020	7075 T6	1/4	0.002	0.500
40	0.020	7075 T6	0.020	7075 T6	1/4	0.0025	0.750

¹Aluminum 5052-H34

²Rigidized

³Anodized

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.

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.

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