

Geneerco Floor #3, Type 22 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.

Geneerco Floor #3, Type 22 is an aluminum honeycomb core bonded sandwich panel, offering light weight, high performance, flame retardant, and cost effectiveness in one bonded sandwich panel with thin gauge aluminum facings.

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 other available panel types.

4. Type Identification

The following tables depict the quality aspects of Geneerco Floor #3, Type 22.

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5. Typical Physical and Mechanical Properties.

Physical Description ^①	Typical Values	Unit
Generco Floor #3	Type 22	
Weight	1.0	p.s.f.
Overall Thickness	.500	in.
Facing Thickness	.020	in.
Facing Alloy	2024-T3	n/a
Nominal Core Density	6.1	p.c.f.
Core Alloy	5052	n/a
Core Cell Size	1/8	in.
Core Foil Thickness	.0015	in.
Length • Nominal 96", 120", 144"	Up to 192	in.
Width • Nominal 48", 60", 72"	Up to 72	in.

① Panels are available in other thicknesses, widths, lengths and core densities per customer request.

Panel Strength • Test Method	Typical Values	Unit
Generco Floor #3	Type 22	
Stabilized Compression • MIL-STD-401	825	p.s.i.
Long Beam Bending • MIL-STD-401 (20 in. Span, 1/4 Point Loading)	484	lb.
Deflection at 100 lbs.	.15	in.
Climbing Drum Peel • Standard Condition	70	in-lb/3 in. width
Climbing Drum Peel • 30 Day Water Soak	63	in-lb/3 in. width
Flammability • 60 Sec. Vertical Ignition	0	sec.
Panel Shear 12" (L/W) • MIL-STD-401	525/305	lb.
Gardner Impact	40	in-lb
Facing Stress	42000	p.s.i.
Flatwise Tensile	1050	p.s.i.