

Geneerco Floor #3, Type 59C 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 59C is an aluminum honeycomb core bonded sandwich panel, offering light weight, high performance, flame retardancy, and cost effectiveness in one bonded sandwich panel with 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 59C.

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5. Typical Physical and Mechanical Properties

Physical Description ^①	Typical Values	Unit
Geneerco Floor #3	Type 59C	
Weight	1.99	p.s.f.
Overall Thickness	1.500	in.
Facing Thickness • Face/Back	.040 / .040	in.
Facing Alloy	7075-T6 Clad	n/a
Nominal Core Density	4.3	p.c.f.
Core Alloy	5052	n/a
Core Cell Size	1/4	in.
Core Foil Thickness	.002	in.
Length • Nominal 96", 120", 144"	Up to 202	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
Geneerco Floor #3	Type 59C	
Stabilized Compression • MIL-STD-401	350	p.s.i.
Climbing Drum Peel	26	in-lb/3 in. width
Core Shear (L) • MIL-STD-401	290	p.s.i.
Short Beam Shear 6" (L) • MIL-STD-401	290	p.s.i.
Flatwise Tensile	400	p.s.i.
Flammability • 60 Sec. Vertical Ignition	15	sec. self ext. max..

1. Chemical conversion coatings per MIL-C-5541 and protective masking films available upon request.
2. Geneerco Floor No. 3, Type 59C meets or exceeds the requirements of TMS11-903 Type B, Grade 4A.